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# ANNUAL REPORT

OF THE

# COMMISSIONER OF PATENTS

FOR THE YEAR

1902.

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JANUARY 30, 1903.—Laid before the House by the Speaker, referred to the Committee on Patents and ordered to be printed.

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WASHINGTON:  
GOVERNMENT PRINTING OFFICE.  
1903.





# REPORT

## OF THE

# COMMISSIONER OF PATENTS

## TO CONGRESS,

### FOR THE YEAR ENDING DECEMBER 31, 1902.

[Laid before the House by the Speaker, January 30, 1903, referred to the Committee on Patents and ordered to be printed.]

DEPARTMENT OF THE INTERIOR,  
UNITED STATES PATENT OFFICE,  
Washington, D. C., January 29, 1903.

To the Senate and House of Representatives of the  
United States of America in Congress assembled:

In compliance with section 494 of the Revised  
Statutes I have the honor to submit the following  
report of the business of the Patent Office for the  
year ending December 31, 1902:

#### RECEIPTS.

*Detailed statement of all moneys received for pat-  
ents, for copies of records or drawings, or from  
any source whatever.*

<b>Applications:</b>	
Cash received	\$1,353,295 00
Cash refunded	6,025 00
Net cash	1,347,270 00
Certificates of deposit	40,300 00
Total cash and certificates	1,387,570 00
<b>Copies:</b>	
Cash received	126,049 73
Cash refunded	7,261 87
Net cash	118,787 86
Certificates of deposit	542 23
Total cash and certificates	119,330 09
<b>Recording assignments:</b>	
Cash received	27,306 50
Cash refunded	1,325 78
Net cash	25,980 72
Certificates of deposit	134 00
Total cash and certificates	26,114 72
<b>Subscriptions to Official Gazette:</b>	
Cash received	12,613 41
Cash refunded	75 64
Net cash	12,537 77
Certificates of deposit	27 50
Total cash and certificates	12,565 27
<b>Registration of prints and labels:</b>	
Cash received	8,414 00
Cash refunded	1,261 00
Net cash	7,153 00
Certificates of deposit	126 00
Total cash and certificates	7,279 00
<b>Aggregates.</b>	
Cash received	\$1,527,678 64
Cash refunded	15,949 29
Net cash	1,511,729 35
Certificates of deposit	41,129 73
Total cash and certificates	1,552,859 08

#### EXPENDITURES.

*Approximate amounts expended and incurred  
under the several appropriations from Janu-  
ary 1, 1902, to December 31, 1902.*

	Expended.	Estimated liabili- ties.	Total.
Salaries	\$797,716 50		\$797,716 50
Scientific Library	1,456 81		1,456 81
Transportation of publi- cations to foreign coun- tries	561 15		561 15
International Union for Protection of Industrial Property	704 74		704 74
Stationery	12,324 16		12,324 16
Postage on foreign matter	2,350 00		2,350 00
Furniture	5,159 85		5,159 85
Carpets	207 16		207 16
Ice	473 92		473 92
Telephones	1,011 00		1,011 00
Washing towels	100 15		100 15
Sundries	6,434 40		6,434 40
Law library	407 40		407 40
Official Gazette, (illustra- tions,) paid contractor	70,100 00		70,100 00
Equipment of Scientific Library	5,000 00		5,000 00
Photolithographing, paid contractor	127,413 25		127,413 25
Printing and binding, paid Public Printer for Offi- cial Gazette, indexes, printing specifications, miscellaneous work	352,810 40	\$9,115 15	361,925 55
Total	1,384,230 39	9,115 15	1,393,345 54

#### RECEIPTS AND EXPENDITURES.

Receipts from all sources	\$1,552,859 08
Expenditures	1,393,345 54
Surplus	159,513 54
<i>Statement of balance in the Treasury of the United States on account of the patent fund.</i>	
Amount to the credit of the fund January 1, 1902	\$5,329,471 07
Amount of receipts during the year 1902	1,552,859 08
Total	6,882,330 15
Deduct expenditures for the year 1902	1,393,345 54
Balance January 1, 1903	5,488,984 61

#### SUMMARY OF THE BUSINESS OF THE PATENT OFFICE.

Number of applications for patents for inventions	43,320
Number of applications for patents for designs	1,170
Number of applications for reissues of patents	151
Total number of applications	49,641
Number of caveats filed	1,851
Number of applications for registration of trade-marks	2,602
Number of applications for registration of labels	1,121
Number of applications for registration of prints	236
Number of disclaimers filed	12
Number of appeals on the merits	870
Total	6,722



Total number of applications, etc., requiring investigation and action	56,363
Number of patents issued, including designs	27,776
Number of patents reissued	110
Total	27,886
Number of trade-marks registered	2,006

Number of labels registered	767
Number of prints registered	158
Total	2,931
Number of patents expired during the year	23,331
Number of patents withheld for non-payment of final fees	4,471
Number of applications allowed awaiting final fees	9,284

## PATENTS ISSUED.

*Patents issued to citizens of the United States, with the ratio of population to each patent granted.*

States and Territories.	Patents and designs.	One to every—	States and Territories.	Patents and designs.	One to every—
Alabama	89	20,547	Nevada	15	2,822
Alaska Territory	5	12,688	New Hampshire	94	4,378
Arizona Territory	34	3,615	New Jersey	1,173	1,605
Arkansas	83	15,831	New Mexico Territory	25	7,812
California	854	1,735	New York	4,130	1,764
Colorado	323	1,670	North Carolina	97	19,523
Connecticut	732	1,240	North Dakota	64	4,986
Delaware	43	4,296	Ohio	1,830	2,271
District of Columbia	258	1,080	Oklahoma Territory	48	8,296
Florida	57	9,272	Oregon	100	4,135
Georgia	162	13,631	Pennsylvania	2,792	2,257
Hawaii Territory	12	12,833	Philippine Islands		
Idaho	25	6,470	Rhode Island	275	1,556
Illinois	2,529	1,906	South Carolina	46	29,137
Indian Territory	25	15,678	South Dakota	62	6,476
Indiana	675	3,728	Tennessee	185	10,922
Iowa	531	4,203	Texas	359	8,515
Kansas	277	5,308	Utah	44	6,289
Kentucky	232	9,255	Vermont	71	4,840
Louisiana	88	15,700	Virginia	201	9,234
Maine	138	5,032	Washington	191	2,712
Maryland	312	3,814	West Virginia	119	8,057
Massachusetts	1,949	1,439	Wisconsin	521	3,971
Michigan	776	3,119	Wyoming	15	6,168
Minnesota	446	3,926	United States Army	7	
Mississippi	91	17,046	United States Navy	12	
Missouri	769	4,039	United States Revenue Marine	1	
Montana	75	3,244			
Nebraska	220	4,856	Total	24,277	

*Patents granted to citizens of foreign countries.*

Argentina	5	Netherlands	16
Austria-Hungary	132	Newfoundland	1
Bahama Islands	1	New South Wales	21
Belgium	45	New Zealand	48
Bermuda	1	Norway	17
Brazil	2	Peru	1
Canada	392	Portugal	1
Cape Colony	3	Queensland	5
Chile	1	Roumania	1
China	3	Russia	50
Cocos Island	1	Santo Domingo	1
Colombia	2	Scotland	104
Cuba	10	South African Republic	4
Denmark	31	South Australia	13
Egypt	4	Spain	3
England	1,000	Sweden	63
France	346	Switzerland	78
Germany	956	Tasmania	1
India	5	Victoria	36
Ireland	28	Uruguay	1
Italy	39	Western Australia	2
Japan	2		
Mexico	20	Total	3,499
Natal	2		

The following tables present a comparative statement of the business of the Patent Office since the enactment of the statute of 1836 and exhibit in detail the business of the Office during the last calendar year:

*Comparative statement of the business of the Office from 1837 to 1902, inclusive.*

Year.	Applica-tions.	Caveats filed.	Patents and re-issues.	Cash re-ceived.	Cash ex-pended.	Surplus.
1837			435	\$29,280 08	\$33,506 98	
1838			520	42,123 54	37,338 92	\$4,784 62
1839			425	38,019 97	34,543 51	3,476 46
1840	765	228	473	38,056 51	39,020 67	
1841	847	312	495	40,413 01	52,666 87	
1842	761	291	517	36,505 63	31,241 43	5,264 20
1843	819	315	519	35,315 81	30,776 96	4,538 85
1844	1,045	380	497	42,509 26	36,344 53	6,164 73



## Comparative statement of the business of the Office from 1837 to 1902, inclusive—Continued.

Year.	Applica- tions.	Certificates filed.	Patents issued.	Cash re- ceived.	Cash ex- pended.	Surplus.
1845	1,246	452	508	51,076 14	39,395 65	11,680 49
1846	1,272	448	638	50,264 16	46,158 71	4,105 45
1847	1,531	533	630	63,111 19	41,578 35	21,532 84
1848	1,628	607	653	67,576 69	58,905 84	8,670 85
1849	1,955	595	1,077	80,752 78	77,716 44	3,036 34
1850	2,193	602	993	86,927 05	80,100 95	6,826 10
1851	2,258	760	872	95,738 61	86,916 93	8,821 68
1852	2,630	906	1,019	112,056 34	95,916 91	16,139 43
1853	2,673	901	961	121,527 45	132,869 83	—
1854	3,324	868	1,844	163,789 84	167,146 32	—
1855	4,485	906	2,013	216,459 85	179,540 33	36,919 02
1856	4,960	1,024	2,505	192,588 02	199,931 02	—
1857	4,771	1,010	2,896	196,132 01	211,582 00	—
1858	5,364	943	3,710	203,716 16	193,193 74	10,522 42
1859	6,225	1,079	4,538	245,942 15	210,278 41	5,663 74
1860	7,953	1,084	4,819	256,552 50	232,820 80	3,531 70
1861	8,643	700	3,340	187,354 44	22,491 91	—
1862	5,038	824	3,521	215,754 99	182,810 39	32,944 06
1863	6,014	787	4,170	195,593 29	189,414 14	6,179 15
1864	6,972	1,063	5,020	240,919 98	229,868 00	11,051 98
1865	10,664	1,987	6,616	348,791 84	274,199 34	74,592 50
1866	15,269	2,723	9,450	495,605 38	361,724 28	133,881 10
1867	21,276	3,597	13,015	646,581 92	639,263 32	7,318 60
1868	20,445	3,705	13,373	681,565 86	628,679 77	52,886 09
1869	19,271	3,624	13,986	693,145 81	486,430 74	206,715 07
1870	19,171	3,273	13,321	669,456 76	557,147 19	112,309 57
1871	19,472	3,366	13,033	678,716 46	562,091 64	116,624 82
1872	18,246	3,090	13,590	690,726 39	665,595 00	34,131 39
1873	20,414	3,248	12,894	703,191 77	691,178 96	12,012 81
1874	21,602	3,181	13,599	723,278 17	679,288 41	53,989 76
1875	21,638	3,094	14,337	743,453 36	721,657 71	21,795 65
1876	21,425	2,697	15,595	757,987 65	652,542 60	105,445 05
1877	20,308	2,800	14,187	732,342 85	613,152 62	119,190 23
1878	20,280	2,755	13,444	725,375 55	593,088 89	132,286 66
1879	20,059	2,620	13,213	703,361 47	529,638 97	174,232 50
1880	23,012	2,430	13,947	719,083 32	538,805 17	180,278 15
1881	26,050	2,408	16,584	833,065 80	605,173 28	248,492 61
1882	31,522	2,553	19,267	1,009,219 45	683,867 67	325,351 78
1883	34,576	2,741	22,383	1,146,240 00	675,234 86	471,005 14
1884	35,600	2,582	20,413	1,075,798 80	970,579 76	105,219 04
1885	35,717	2,552	24,233	1,188,089 15	1,024,378 85	163,710 30
1886	35,968	2,513	22,508	1,154,551 40	992,503 45	162,047 95
1887	35,613	2,622	21,477	1,144,509 60	994,472 22	150,037 38
1888	35,797	2,351	20,506	1,118,516 10	973,108 78	145,407 32
1889	40,575	2,481	24,158	1,231,728 05	1,052,955 96	228,772 09
1890	41,048	2,311	26,292	1,340,372 66	1,099,297 74	241,074 92
1891	40,552	2,408	23,244	1,271,285 78	1,139,713 35	131,572 43
1892	40,753	2,290	23,550	1,286,331 88	1,110,739 24	175,592 64
1893	38,473	2,247	23,769	1,242,571 64	1,141,038 45	101,533 19
1894	38,480	2,286	20,867	1,187,439 58	1,100,047 13	87,392 46
1895	40,680	2,415	22,057	1,245,248 93	1,106,389 49	138,857 44
1896	43,982	2,271	23,373	1,324,059 83	1,113,413 71	210,646 12
1897	47,905	2,176	23,794	1,375,641 72	1,122,843 13	252,798 59
1898	35,842	1,650	22,267	1,187,734 48	1,136,196 20	1,538 28
1899	41,443	1,716	25,527	1,325,457 03	1,211,783 73	113,673 30
1900	41,980	1,731	26,499	1,350,828 53	1,260,019 62	90,808 91
1901	36,449	1,842	27,373	1,440,398 16	1,297,385 64	152,012 52
1902	49,641	1,851	27,886	1,552,859 08	1,393,345 54	159,513 54

Statement showing the number of the first patent, Design patent, and reissued patent, and the number of the first certificate of registration of a Trade-Mark, Label, and Print issued in each calendar year since July 28, 1836, when the present series of numbers of Letters Patent commenced, together with the total number of each issued during the year.

(The number of patents granted prior to the commencement of this series of numbering (July 28, 1836) was 9,957.)

Calendar year.	Number of first patent and certificate issued in each calendar year.					Number of patents and certificates of registration issued during each calendar year.							
	Patents.	Designs.	Reissues.	Trade-Marks.	Labels.	Prints.	Patents.	Designs.	Reissues.	Total patents.	Trade-Marks.	Labels.	Prints.
1836 (July 28)	1						109						
1837	110						499						
1838	546						515						
1839	1,061						404		6				
1840	1,465						458		10				
1841	1,923						490		6				
1842	2,413						488		13				
1843	2,901						494	14	11	519			
1844	2,365	15					478	12	7	497			
1845	2,873	27					475	17	11	503			
1846	4,348	44					566	59	13	638			
1847	4,914	103					495	60	14	569			
1848	5,409	163					584	46	23	653			
1849	5,933	209					988	49	30	1,067			
1850	6,981	258					884	83	26	993			

Statement showing the number of the first patent, Design patent, and reissued patent—Continued.

Calendar year.	Number of first patent and certificate issued in each calendar year.						Number of patents and certificates of registration issued during each calendar year.							
	Patents.	Designs.	Reissues.	Trade-Marks.	Labels.	Prints.	Patents.	Designs.	Reissues.	Total patents.	Trade-Marks.	Labels.	Prints.	Total certificates.
1851.	7,865	341	184				757	90	25	1,872				
1852.	8,622	431	209				890	109	20	1,019				
1853.	9,512	540	229				846	86	29	961				
1854.	10,358	626	258				1,759	57	28	1,844				
1855.	12,117	683	286				1,892	70	51	2,013				
1856.	14,009	753	337				2,315	107	83	2,505				
1857.	16,324	860	420				2,686	113	97	2,896				
1858.	19,010	973	517				3,467	102	126	3,695				
1859.	22,477	1,075	643				4,165	108	231	4,504				
1860.	26,642	1,183	674				4,363	183	232	4,778				
1861.	31,005	1,366	1,106				3,040	142	147	3,329				
1862.	34,045	1,508	1,253				3,221	151	116	3,488				
1863.	37,266	1,703	1,369				3,781	176	227	4,184				
1864.	41,047	1,879	1,596				4,638	139	248	5,025				
1865.	45,685	2,018	1,844				6,099	221	296	6,616				
1866.	51,784	2,239	2,140				8,874	294	290	9,458				
1867.	60,658	2,533	2,480				12,301	325	400	13,026				
1868.	72,959	2,853	2,830				12,544	446	430	13,410				
1869.	85,503	3,304	3,250				12,957	506	534	13,997				
1870.	98,460	3,810	3,784				12,157	737	439	13,333	121			121
1871.	110,617	4,547	4,223	1			11,687	905	464	13,056	486			486
1872.	122,304	5,452	4,687				12,200	884	529	13,613	491			491
1873.	134,504	6,336	5,216				11,616	747	501	12,864	492			492
1874.	146,190	7,083	5,717				12,280	866	483	13,599	559	232		791
1875.	158,350	7,969	6,200				13,291	915	631	14,837	1,198	232		1,370
1876.	171,641	8,884	6,831				14,172	802	621	15,595	959	472		1,431
1877.	185,813	9,686	7,452				13,920	699	508	14,927	1,216	392		1,608
1878.	198,733	10,385	8,020				12,345	590	500	13,444	1,455	492		1,947
1879.	211,078	10,975	8,529				12,133	592	488	13,213	872	355		1,227
1880.	223,211	11,567	9,017				12,926	515	506	13,947	849	303		1,532
1881.	236,137	12,082	9,523				15,548	565	471	16,584	834	292		1,896
1882.	251,685	12,647	9,994				18,135	861	271	19,267	947	304		1,251
1883.	269,820	13,508	10,285				21,196	1,020	167	22,383	902	906		1,808
1884.	291,016	14,528	10,432				19,147	1,150	113	20,410	1,021	513		1,534
1885.	301,163	15,678	10,548				23,331	773	129	24,233	1,067	391		1,458
1886.	333,194	16,451	10,677				21,797	595	116	22,508	1,029	378		1,407
1887.	355,291	17,046	10,793				20,429	949	99	21,477	1,133	380		1,513
1888.	375,720	17,995	10,892				19,585	835	86	20,506	1,059	327		1,386
1889.	395,305	18,830	10,978				23,360	723	75	24,158	1,220	310		1,548
1890.	418,695	19,553	11,053				25,322	886	84	26,292	1,415	304		1,719
1891.	443,987	20,439	11,137				22,328	836	80	23,244	1,762	137		1,899
1892.	466,315	21,275	11,217				22,661	817	81	23,559	1,737	ae		1,743
1893.	488,979	22,092	11,208				22,768	902	99	23,769	1,677	None.	2	1,679
1894.	511,714	22,994	11,397				19,875	928	64	20,857	1,806	Do.	4	1,810
1895.	531,619	23,922	11,401				20,883	1,115	59	22,057	1,829	Do.	3	1,832
1896.	552,562	25,037	11,520				21,867	1,445	61	23,273	1,813	1	32	1,846
1897.	574,369	26,482	11,581				22,098	1,631	65	23,794	1,671	14	16	1,701
1898.	596,467	28,113	11,646				20,404	1,803	22	22,227	1,238	213	35	1,473
1899.	616,871	29,110	11,706				23,296	2,139	92	25,527	1,649	511	100	2,260
1900.	640,167	32,055	11,738				24,660	1,758	81	26,499	1,721	737	93	2,551
1901.	664,827	33,913	11,879				25,558	1,734	81	27,373	1,928	878	159	2,965
1902.	690,385	35,517	11,960				27,136	640	110	27,886	2,066	767	158	2,931

a Registration of labels practically suspended May 27, 1891, under decision of the United States Supreme Court in *Higgins et al. v. Keuffel et al.* (55 O. G., 1139) with the registration of No. 6,545, June 14, 1892. Resumed June 9, 1896, with the registration of No. 6,546.

Statement of prices paid for photolithographic work since 1884-55.

Fiscal year.	Contractor.	Official Gazette.			Publishing expired patents.	Total Official Gazettes.
		Patents issued.	Per page.	Number of copies.		
1884-85.	Norris Peters	21,496	\$7 36	6,500		\$39,614 40
1885-86.	do	24,134	7 45	6,500		44,351 00
1886-87.	do	21,731	7 45	6,500		41,868 40
1887-88.	do	20,653	7 45	6,500		41,183 60
1888-89.	do	21,518	7 45	6,500		43,999 70
1889-90.	do	25,867	7 45	6,500		58,992 40
1890-91.	do	25,307	7 45	7,000		65,906 10
1891-92.	Norris Peters Co	23,626	7 45	7,000		52,960 50
1892-93.	do	23,468	7 45	7,000		54,938 30
1893-94.	National Lithographic Co	22,546	6 30	7,000		49,997 70
1894-95.	Norris Peters Co	20,745	5 25	7,000	\$4,999 70	38,237 88
1895-96.	A. B. Graham	22,791	5 10	7,000		42,326 30
1896-97.	Norris Peters Co	23,994	4 50	7,000		35,712 00
1897-98.	do	22,731	5 10	7,000		39,749 40
1898-99.	do	23,590	5 60	7,000		46,065 00
1899-1900.	do	26,540	5 60	7,000		55,092 80
1900-1901.	do	26,481	6 25	7,000		62,100 00
1901-1902.	do	27,387	6 25	7,000		66,600 00
1902-1903.	do	27,000	6 25	7,000		70,000 00

*Statement of prices paid for photolithographic work since 1884-85—Continued.*

Fiscal year.	Contractor.	Drawings of Letters Patent per sheet, current issues.			Other lithographic work.	Total.
		Thin copies.	Thick copies.	Bond copies.		
1884-85.....	Norris Peters.....	\$0 01	Cents. 3	Cents. 3	\$78,671 99	\$118,286 89
1885-86.....	do.....	01	3	3	84,940 19	129,291 19
1886-87.....	do.....	01	3	3	79,509 57	121,377 97
1887-88.....	do.....	01	3	3	77,907 96	119,091 56
1888-89.....	do.....	01	3	3	83,284 54	127,284 24
1889-90.....	do.....	01	3	3	101,292 67	160,285 07
1890-91.....	do.....	01	3	3	110,998 07	176,995 07
1891-92.....	Norris Peters Co.....	b1 48	3	3	99,992 58	152,962 08
1892-93.....	do.....	b1 48	2	3	99,788 92	154,787 22
1893-94.....	National Lithographic Co.....	b1 46	3	3	94,911 33	144,909 03
1894-95.....	Norris Peters Co.....	b 95	2	2	60,482 04	98,779 92
1895-96.....	A. B. Graham.....	c 93	.0175	.0175	58,866 60	101,192 90
1896-97.....	Norris Peters Co.....	c 80	.015	.01	58,960 78	94,672 78
1897-98.....	do.....	c 84	.015	.02	68,999 28	108,748 68
1898-99.....	do.....	c 90	.02	.025	75,999 85	122,065 45
1899-1900.....	do.....	c 89	.02	.025	98,999 90	154,092 70
1900-1901.....	do.....	c 93	.03	.03	108,999 54	171,099 54
1901-1902.....	do.....	e 93	.03	.03	108,999 55	175,599 55
1902-1903.....	do.....	e 93	.03	.03	128,276 94	198,276 94

a Estimated amounts for current year based upon business for first half of fiscal year 1901-1902. b For 102 copies. c For 100 copies. d Two proof copies each. e For 75 copies.

*Table showing the number of patents issued by the United States and foreign countries from the earliest period to December 31, 1902. (Foreign figures for 1902 estimated.)*

Countries.	To 1870, inclusive.	1871 to 1902.	Total.	Countries.	To 1870, inclusive.	1871 to 1902.	Total.
Argentina.....	83	4,518	4,601	Mauritius.....	113	250	363
Austria.....	29,379	29,579	58,958	Mexico.....	42	3,459	3,481
Austria-Hungary.....	15,850	67,383	82,933	Netherlands.....	4,335	4,555	8,890
Bahamas.....	2	2	4	Newfoundland.....	40	246	286
Barbados.....	125	125	250	New South Wales.....	236	10,572	10,808
Belgium.....	35,044	139,191	174,235	New Zealand.....	109	8,175	8,284
Bolivia.....	42	65	107	Norway.....	737	12,273	13,010
Brazil.....	155	4,244	4,420	Peru.....	245	160	405
British Guiana.....	32	94	126	Portugal.....	245	3,475	3,720
British Honduras.....	1	19	20	Queensland.....	67	5,537	5,604
Canada.....	4,051	78,031	82,112	Russia.....	1,464	12,550	14,014
Ceylon.....	58	514	572	St. Helena.....	4	4	8
Chile.....	20	355	375	South African Republic.....	123	1,256	1,356
Congo Free State.....	109	109	218	South Australia.....	27,155	5,771	5,894
Denmark.....	464	12,278	12,742	Spain.....	27,155	27,165	54,320
Fiji Islands.....	112	1,655	1,767	Straits Settlements.....	1,629	16,906	18,535
Finland.....	109,934	232,681	336,615	Sweden.....	24,764	24,764	49,528
France.....	9,996	145,270	155,266	Switzerland.....	43	2,196	2,239
Germany.....	53,406	255,829	309,237	Tasmania.....	6	159	165
Great Britain.....	57	57	114	Trinidad.....	6	489	495
Guatemala.....	143	143	286	Tunis.....	1,140	1,140	2,280
Hawaii (prior to August 12, 1898).....	94	94	188	Turkey.....	219	219	438
Hong-Kong.....	21,921	21,921	43,842	Uruguay.....	159	159	318
Hungary.....	445	6,870	7,315	Venezuela.....	822	10,865	11,687
India.....	4,723	56,385	61,308	Victoria.....	2,910	2,910	5,820
Italy and Sardinia.....	22	159	181	Western Australia.....	238,101	1,210,425	1,457,616
Jamaica.....	5,521	5,521	11,042	United States.....	120,573	606,904	727,477
Japan.....	17	17	34				
Leeward Islands.....	2	2	4				
Liberia.....	5,003	5,003	10,006				
Luxembourg.....	58	58	116				
Malta.....							
				Grand total.....	358,764	1,826,329	2,185,093

## SUMMARY OF TABLES.

In 1902 there were received 48,320 applications for mechanical patents, 1,170 applications for design patents, 151 applications for reissues of patents, 2,602 applications for registration of trade-marks, 1,121 applications for registration of labels, and 266 applications for registration of prints. There were 27,776 patents issued, including designs, 110 patents reissued, 2,006 trade-marks registered, 767 labels, and 158 prints. The number of patents that expired was 23,331. The number of allowed applications awaiting the payment of final fees was 9,284.

The number that were forfeited for non-payment of the final fees was 4,471. The total expenditures were \$1,393,345.54. The receipts over expenditures were \$159,513.54. The total balance to the credit of the Patent Office in the Treasury of the United States on January 1, 1903, was \$5,488,954.61.

In proportion to population more patents were issued to citizens of the District of Columbia than to those of any of the States or Territories—one to every 1,080. Next in order are the following: Connecticut, 1 to every 1,240; Massachusetts, 1 to every 1,439; Rhode Island, 1 to every 1,558; New Jersey,



1 to every 1,605; Colorado, 1 to every 1,670; California, 1 to every 1,738; New York, 1 to every 1,764; Illinois, 1 to every 1,906; Pennsylvania, 1 to every 2,257; Ohio, 1 to every 2,271; Washington, 1 to every 2,712; Nevada, 1 to every 2,822; Michigan, 1 to every 3,119; Montana, 1 to every 3,244; Arizona Territory, 1 to every 3,615; Indiana, 1 to every 3,723; Maryland, 1 to every 3,814; Minnesota, 1 to every 3,926; Wisconsin, 1 to every 3,971; Missouri, 1 to every 4,039; Oregon, 1 to every 4,135; Iowa, 1 to every 4,203; Delaware, 1 to every 4,296; New Hampshire, 1 to every 4,378; Vermont, 1 to every 4,840; Nebraska, 1 to every 4,856; North Dakota, 1 to every 4,986; Maine, 1 to every 5,032; Kansas, 1 to every 5,308; Wyoming, 1 to every 6,168; Utah, 1 to every 6,289; Idaho, 1 to every 6,470; South Dakota, 1 to every 6,476; New Mexico Territory, 1 to every 7,812; West Virginia, 1 to every 8,057; Oklahoma Territory, 1 to every 8,296; Texas, 1 to every 8,515; Virginia, 1 to every 9,224; Kentucky, 1 to every 9,255; Florida, 1 to every 9,272; Tennessee, 1 to every 10,922; Alaska Territory, 1 to every 12,688. The fewest patents granted in proportion to the number of inhabitants were in the following States and Territories: South Carolina, 1 to every 29,137; Alabama, 1 to every 20,547; North Carolina, 1 to every 19,523; Mississippi, 1 to every 17,046; Arkansas, 1 to every 15,801; Louisiana, 1 to every 15,700; Indian Territory, 1 to every 15,678; Georgia, 1 to every 13,681; Hawaii Territory, 1 to every 12,833.

As to foreign patents, 1,000 were granted to residents of England; 956 to those of Germany; 392 to those of Canada; 346 to those of France; 132 to those of Austria-Hungary; 104 to those of Scotland; 78 to those of Switzerland; 63 to those of Sweden; 50 to those of Russia; 48 to those of New Zealand; 45 to those of Belgium; 39 to those of Italy; 36 to those of Victoria; 31 to those of Denmark; 28 to those of Ireland; 21 to those of New South Wales; 20 to those of Mexico; 17 to those of Norway; 16 to those of the Netherlands; 13 to those of South Australia; 10 to those of Cuba; Argentina, India, and Queensland, 5 each; Egypt and South African Republic, 4 each; Brazil, Cape Colony, China, and Spain, 3 each; Colombia, Japan, Natal, and Western Australia, 2 each; and Bahama Islands, Bermuda, Chile, Cocos Island, Newfoundland, Peru, Portugal, Roumania, Santo Domingo, Tasmania, and Uruguay, 1 each.

The Patent Office issued 27,886 patents during the year 1902, the largest annual issue in its entire history.

The total number of trade-marks, prints, and labels registered for the year 1902 was 2,931.

The condition of the Examining Divisions upon December 31 is indicated by the fact that of the thirty-eight divisions nineteen were then taking up new cases for action within one month from the date of filing, sixteen were in arrears between one and two months, two divisions between two and three months, and one division between three and four months. The total number of cases awaiting action on the part of the Office upon December 31 was 11,446.

The large increase in the volume of work transacted by this Bureau appears in the foregoing tables. It can be seen by them that the number of applications for mechanical patents exceeded by 4,347 the number of such applications received in the preceding year, an increase of approximately ten per cent. in this class of applications, which involves the most considerable work within this Office.

The operation of the new design patent law, which was approved upon the 9th day of May, 1902, has been to decrease by 1,191 the number of applications for design patents, for this law has operated, as it was intended to operate, to make clear the fact that mechanical devices of little importance unaccompanied by the development of new mechanical functions were not to be protected by design patents. These patents are now restricted to those ornamental characteristics of manufactured articles which were intended primarily to be the subject for the application of this law before its employment had been widened beyond its originally-intended scope.

The number of mechanical patents issued during the year 1902 is 27,136, exceeding by 1,578 the issue of such patents for the preceding year, which was then the largest number issued by this Office in any year. For the causes stated, which have resulted in the diminution of the number of applications filed for design patents, the number of such patents issued during the year was diminished by 1,094 from the number issued during the previous year. The number of patents reissued during the year was 110, making the total issue of these three classes of patents 27,886 for the year 1902, against 27,373, the corresponding figures for the preceding year. The number of certificates of registration of trade-marks was 2,006, an increase of 78. The number of certificates of registration of labels was 767, a reduction of 111 in such certificates. The number of prints for which certificates of registration were issued was 158, being one less in number than those of the preceding year, the total number of certificates of registration of all classes issued during the year 1902 being 2,931, this being 34 less than were issued during the preceding year.

In the work of handling this business it should be noticed that the class of mechanical patents which has increased so largely in numbers during the last year comprises those cases which involve the largest amount of work in their consideration. The increase of work indicated by the foregoing figures has been met in some degree by the increase in the number of Examiners which was provided in the appropriation bill for the year 1902-3. This bill provided for an increase of thirty-five Examiners of all grades and three clerks, and the additional force became available upon the first day of July, 1902. This increase of force has aided in the transaction of this increased business, and as the new Examiners will undoubtedly be more effective in the next year, by reason of experience, than they have been during the year 1902, it is hoped that

their efforts will enable the work to be kept in hand, although a natural increase should continue.

The increase of work referred to in relation to the examining corps of this Office has been accompanied by a corresponding increase in the attendant clerical work required, and as no increase of clerical force was provided corresponding to the increase in the force of Examiners, the clerical work of this Office has been more onerous than usual.

The work of the tribunals of this Office, other than the Examining Divisions, has been kept well in hand, and interference cases before the Examiner of Interferences and upon appeals therefrom have been disposed of in a shorter time than was hitherto considered possible, in spite of the increased volume of such work incident to the increase in the general volume of the business of the Office.

The work of classification of patents has progressed satisfactorily during the past year, and the results of this valuable system are now available to facilitate the examination of the question of novelty of inventions.

The duties of the Assignment Division of this Office are to record assignments of patents and inventions and to furnish manuscript copies of records of the Office when required. During the year 1902, 24,091 deeds were received for record, of which 22,838 were recorded. Copies of records were also made which included 16,576,150 words. The number of deeds received was 1,102 in excess of the number for the preceding year, and the number of words written in furnishing copies of records was 2,056,110 more than for the preceding year. These figures serve to indicate the rapid growth of this portion of the work of this Office.

There has been during the last year a very great reduction in the number of complaints of losses of money in this Office. The sums of money alleged to have been sent to the Patent Office and which were not received for the first eight months of the year 1901 were \$387.64. During the corresponding period of 1902 the corresponding sums amounted to \$8.20. This result followed changes which appeared necessary to be made in August, 1901, and

following these changes the alleged losses of the last four months of 1901 were only \$6, and during the same period in 1902 the amount was \$5.10, so that the complaints of losses during the year 1902 were only \$13.30, while the total receipts of the Office during this year were \$1,552,859.08. Since these complaints of losses include claims erroneously made, as well as claims for moneys lost in the mails, it is thought that all of the alleged losses are properly chargeable to these two causes and have not occurred within the Office.

During the last year section 4883 of the Revised Statutes was amended by act of Congress approved April 11, 1902, the change making it no longer necessary that patents should be signed by the Assistant Secretary of the Interior.

The appropriation of \$5,000 included in the appropriation bill of 1901-2 for the new steel stacks for the Scientific Library of this Office has been expended, and the \$2,500 provided for in the appropriation bill for the year 1902-3 will, it is expected, complete the installation of steel stacks for this purpose. This work has already increased the usefulness of this library and has added greatly to the safety of the books.

The sum of \$2,000 appropriated for the purchase of books and for the transportation of the publications of the Patent Office to foreign governments is insufficient for the purposes of this library, and it will add greatly to its usefulness as a working library for the Examiners of this Office, as well as for the public, if this appropriation can be increased, for which purpose an annual increase of \$2,000 was asked in the estimate for the year 1903-4. This increase will be needed unless this library is to become deficient for the purposes for which it is intended.

The growth of the business of this Office and the accumulation of its records point to the conclusion that more room is required and could be used to great advantage if it could be furnished for the purposes of this Bureau.

Respectfully submitted,

F. I. ALLEN,  
*Commissioner of Patents.*





# ALPHABETICAL LIST

## OF

# PATENTEES FOR THE YEAR 1902.

[Patentees of Designs, Trade-Marks, Labels, and Prints, and parties who have filed Disclaimers follow this in separate indexes, but precede the Alphabetical List of Inventions.]

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Specification.	Drawing.	Volume.	Page.
A. Geisel Manufacturing Company. (See Dahman, William H., assignor.)						
A. Leschen & Sons Rope Company. (See Sackett, Homer M., assignor.)						
A. A. Griffing Iron Company. (See Waggoner, Edward P., assignor.)						
A. B. Dick Company. (See Dick, Albert B., assignor.)						
A. B. Klay Company. (See Klay, Abraham B., assignor.)						
A. B. Pitkin Machinery Company. (See Shay, Jeremiah M., assignor.)						
A. C. Evans Manufacturing Company. (See Gedge, George E., assignor.)						
A. C. Evans Manufacturing Company. (See Harwood, Gedge, and Monson, assignors.)						
A. G. Spalding & Bros. (See McMaster, John, assignor.)						
A. G. Spalding & Bros. (See Pierce, George L., assignor.)						
A. H. Nilson Machine Company. (See Nilson and Olson, assignors.)						
A. J. Roat Manufacturing Company. (See Fenn, William B., assignor.)						
A. R. Milner Seating Co. (See Milner, Albert R., assignor.)						
Abbe, Ernst, assignor to Firm of C. Zeiss, Jena, Germany. Lens system	697,959	Apr. 22	2925	646	99	673
Abbe, Max F., New York, N. Y. Ball grinding-mill	702,757	June 17	2700	690	99	2702
Abbee, Leslie H., Denver, Colo. Safety hitching device	705,629	July 29	4483	972	100	967
Abbee, Leslie H., and S. A. Sewall, Denver, Colo. Stopper or closure	694,932	Mar. 4	1144	250	98	1954
Abbott, Everett L., New York, N. Y. Abdominal bandage	698,426	Apr. 29	3790	899	99	869
Abbott, Frank E., Pittsburg, Pa. Combination door-bell and burglar-alarm	709,252	Sept. 16	2397	542	100	2505
Abbott, Frank E., and B. H. Randel, Pittsburg, Pa. Miter-box	709,251	Sept. 16	2396	542	100	2505
Abbott, Harry W., Chicago, Ill., assignor to Porter Safety Seal Company. Sealing implement	702,351	June 10	1916	437	99	2518
Abbott, Henry, New York, N. Y., assignor to Calculagraph Company, New York, N. Y., and East Orange, N. J. Calculagraph	697,426	Apr. 15	1963	434	99	453
Abbott, Henry, New York, N. Y., assignor to Calculagraph Company, East Orange, N. J., and New York, N. Y. Calculagraph	697,427	Apr. 15	1966	434	99	453
Abbott, Herbert, Eahmain, near Sydney, New South Wales, Australia. Air-feeding apparatus for furnaces	708,851	Sept. 9	1583	360	100	2318
Abbott, James, Crumlin, England. Means for lubricating axle-bearings	714,123	Nov. 25	3219	711	101	1615
Abbott, Nathan M., assignor of nineteen-twentieths to W. C. Treece, Findlay, Ohio. Safe and vault	695,360	Mar. 11	1930	490	98	2134
Abbott, Nathaniel B., assignor to Imperial Bottle Cap & Machine Company, Baltimore, Md. Sheet-metal sealing-cap for bottles	704,167	July 8	1505	392	100	316
Abbott, Thomas B., Sale, Victoria, Australia. Lamp-burner	707,811	Aug. 26	3331	738	100	1892
Abbott, Virgil H., Carrollton, Ky. Fence-post and fence-stay	710,031	Sept. 30	3948	890	100	2353
Abbott, W. L. (See Sargent, Charles E., assignor.)						
Abé, Richard, Annen, assignor to F. Krupp, Essen, Germany. Apparatus for boring shafts	698,165	Apr. 22	3339	729	99	756
Abel, Edward C., et al. (See Brown, Charles N., assignor.)						
Abel, George T., Edinburg, Pa. Metallic tie and rail-fastener	711,751	Oct. 21	2613	574	101	575
Abel, John A., et al. (See Brown, Charles N., assignor.)						
Abel, Julius, Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen, Germany. Blue sulfur dye and making same. (Reissue)	11,973	Mar. 4	1148		98	1955
Abel, Julius, Mannheim, and F. Kalkow, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen, Germany. Black sulfur dye and making same	692,174	Jan. 28	3391		98	753
Abell, Arthur H., Schenectady, N. Y., assignor to General Electric Company. Induction-motor starting device	714,351	Nov. 25	3682	811	101	1707
Abell, Robert T., Cleveland, Ohio. Steam-engine	691,228	Jan. 14	1597	364	98	348
Abell, William P., Derby, England. Baby furniture	700,001	May 13	1690	389	99	1536
Abendroth, Arthur, Berlin, Germany. Steam-pump	691,343	Jan. 21	1867	421	98	423
Abendroth, Arthur, Berlin, Germany. Proportionate-distribution valve system for pumps	702,903	June 24	2975	685	99	2777
Abendroth, Hermann A., Berlin, Germany. Apparatus for freeing ammonia from gas liquor	712,891	Nov. 4	805	186	101	1062
Aber, Edgar, Jacksonville, Tex. Veneer basket	701,665	June 3	700	154	99	2255
Aber, Edgar, Jacksonville, Tex. Veneer-bending machine	710,231	Sept. 30	4344	976	100	2938
Abercrombie, William R., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Binder for sewing-machines	698,384	Apr. 22	3721	822	99	837
Åberg, Albert, Hermagor, Austria-Hungary. Apparatus for purifying paper-pulp	691,091	Jan. 14	1356	397	98	297
Aberg, Albert, Podgora, Austria-Hungary. Machine for catching splinters, &c	691,344	Jan. 21	1869	421	98	423
Ablett, Joseph H., Glennie, Mich. Dinner pail and heater	704,492	July 15	2111	457	100	457

## Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr. g.	Vol.	Page.
Abney, Diton H., Kansas City, Mo. Adjustable coupling for sewing-machine or other round belts.	691,884	Jan. 28	2874	647	98	651
Abney, Diton H., Kansas City, Mo. Adjustable coupling for sewing-machine or other round belts.	691,885	Jan. 28	2876	647	98	651
Aborn, Frank, Cleveland, Ohio. Apparatus for facilitating drawing.	715,451	Dec. 9	1516	328 329	101	2164
Aborn, George P. (See De Laval and Aborn.)						
Aborn, George P. (See Flinn and Aborn.)						
Aborn, George P., assignor of one-half to R. J. Flinn, Boston, Mass. Steering-lock for vehicles.	697,699	Apr. 15	2460	548 549	99	551
Abraham, Thomas, Hopedale, assignor to Morse Twist Drill and Machine Company, New Bedford, Mass. Box and cover.	702,904	June 24	3976	885	99	2777
Abrahams, Mary E., St. Louis, Mo., assignor to M. Bell, Portland, Oreg. Egg-separator.	708,791	Sept. 9	1449	331	100	2291
Abrams, George H., Brooklyn, N. C. F. Boehringer & Soehne, Mannheim-Waldhof, Baden, Germany. Air.	706,871	Aug. 12	1688	378	100	1479
Abrams, John A., Akron, Ohio. Gas-burning grate-bar.	709,951	Sept. 30	3793	856	100	2820
Abrams, Marie, New York, N. Y. Fire-escape.	705,891	July 29	4953	1078	100	1062
Abrams, William R., Portland, Oreg. Sash-fastener.	695,263	Mar. 11	1768	391	98	2102
Account, Audit and Assurance Company. (See Kittredge, Anson O., assignor.)						
Account, Audit & Assurance Company. (See Kittredge, Anson O. and E. R., assignors.)						
Acetylene Generator Manufacturing Company of West Virginia <i>et al.</i> (See Beck and Homan, assignors.)						
Acetylene House Lighting Company. (See Dolan, Edward J., assignor.)						
Acetyvone Manufacturing Company. (See Montel, Leo, assignor.)						
Ach, Fritz, Mannheim, assignor to C. F. Boehringer & Soehne, Waldhof, near Mannheim, Germany. Alkoxy-coffee and making same.	707,812	Aug. 26	3531		100	1893
Ach, Fritz, Mannheim, assignor to C. F. Boehringer & Soehne, Waldhof, near Mannheim, Germany. Triphenyl-methane dye and making same.	707,813	Aug. 26	3535		100	1893
Ach, Fritz, Mannheim, assignor to C. F. Boehringer & Soehne, Mannheim-Waldhof, Baden, Germany. Paramethyl-amidophenyl-glyoxylic acid and making same.	708,511	Sept. 9	925		100	2181
Ach, Fritz, Mannheim, assignor to C. F. Boehringer & Soehne, Mannheim-Waldhof, Baden, Germany. Diacetyl-diamin and making same.	708,512	Sept. 9	927		100	2181
Ach, Fritz, Mannheim, assignor to C. F. Boehringer & Soehne, Mannheim-Waldhof, Baden, Germany. Thioxanthin and making same.	708,513	Sept. 9	929		100	2181
Ach, Narziss, Göttingen, Germany. Means for keeping moving objects in horizontal positions.	705,731	July 29	4674	1012	100	1004
Acheson, Edward G., Buffalo, N. Y. Metallurgical process.	693,482	Feb. 18	2400		98	1340
Acheson, Edward G., Buffalo, N. Y. Terminal for electric furnaces.	701,986	June 10	1200	286 287	99	2386
Acheson, Edward G., Niagara Falls, N. Y. Making graphite.	711,031	Oct. 14	1205	265	101	265
Acheson, Edward G., Buffalo, assignor to International Acheson Graphite Company, Niagara Falls, N. Y. Graphitizing electrodes.	702,758	June 17	2701	621	99	2703
Ackerman, Albert A. (See Holden and Ackerman.)						
Ackerman, Albert A. (See Warren and Ackerman.)						
Ackerman, Alex V., Paterson, N. J. Clothes-wringer.	715,734	Dec. 16	2051	459	101	2293
Ackerman, Benjamin F. (See Dukemith, Frank H., assignor.)						
Ackerman, Charles L. (See Cox and Ackerman.)						
Ackerman, Frank, New York, N. Y. Self-adjusting dumb-waiter grip and friction-roller.	705,010	July 22	3153	681	100	689
Ackerman, Harmon F., Cleveland, Ohio. Mopping device.	701,085	June 10	1258	286	99	2386
Ackerman, Harmon F., Cleveland, Ohio. Mopping device.	704,671	July 15	2424	524	100	522
Ackerman, Otto W. (See Malmstrom and Ackerman.)						
Ackerman, William, assignor to United States Graphotype Company, New York, N. Y. Omitting means for automatic type-casting and composing machines.	715,233	Dec. 9	1121	241	101	2083
Acklin, Alfred M., Pittsburg, Pa. Car-checking device.	690,814	Jan. 7	864	190	98	182
Acklin, Alfred M., Pittsburg, Pa. Car-haul.	692,496	Feb. 4	483	113	98	807
Acklin, Alfred M., Pittsburg, Pa. Car-haul.	693,483	Feb. 18	2402	525	98	1340
Acklin, Alfred M., Pittsburg, Pa. Car-haul.	694,047	Feb. 25	3514	773	98	1382
Acklin, Alfred M., Pittsburg, Pa. Apparatus for feeding and tempering foundry-sand.	696,787	Apr. 1	744	169	99	159
Acklin, Alfred M., Pittsburg, Pa. Drive mechanism for crushing-rolls.	697,311	Apr. 8	1729	385	99	388
Acklin, Alfred M., Pittsburg, Pa. Casting apparatus.	697,769	Apr. 15	2582	573	99	578
Acklin, Alfred M., Pittsburg, Pa. Apparatus for feeding and tempering foundry-sand.	699,471	May 6	656	152	99	131
Acklin, Alfred M., Pittsburg, Pa. Conveyor-belt apparatus.	702,273	June 10	1775	405	99	2490
Acklin, Alfred M., Pittsburg, Pa. Apparatus for removing material from boats, &c.	707,371	Aug. 19	2612	590	100	1688
Acklin, Alfred M., Pittsburg, Pa. Apparatus for removing materials from boats, &c.	707,491	Aug. 19	2826	640	100	1723
Acklin, Alfred M., Pittsburg, Pa. Apparatus for removing materials from boats, &c.	707,492	Aug. 19	2829	640	100	1734
Acklin, Alfred M., Pittsburg, Pa. Car-haul.	709,691	Sept. 23	3266	732	100	2699
Acklin, Alfred M., Pittsburg, Pa. Overhead tramway.	709,692	Sept. 23	3268	732	100	2700
Acklin, Alfred M., Pittsburg, Pa. assignor to Heyl and Patterson. Conveyor.	702,905	June 24	2978	685	99	2777
Acklin, Alfred M., Pittsburg, Pa. assignor to Heyl and Patterson. Flight for conveyors.	702,906	June 24	2978	686	99	2777
Acme Alder Manufacturing Co. (See Langdon, William A., assignor.)						
Acme Ball Bearing Caster Company. (See Mazoun, George B., assignor.)						
Acme Cash Register Company. (See Hahn, Herman, assignor.)						
Acme Fuse Box Company. (See Dorsey, Charles J., assignor.)						
Acme Gas Company. (See Harvey, George L., assignor.)						
Acme Gas Company. (See Steele, Wilbur F., assignor.)						
Acme Harvester Company. (See Green, Henry, assignor.)						
Acme Harvester Company. (See Peck, Ezra A., assignor.)						
Acme Specialty Manufacturing Company. (See Sparmaker, Frank P., assignor.)						
Acme Sucker Rod Company. (See Wight, Orson J., assignor.)						
Acme Switch Company. (See Cogswell, Henry J., assignor.)						
Acme White Lead and Color Works. (See Wilson, Joseph H., assignor.)						
Acree, William T., Gainsboro, Tenn. Fruit corer and cutter.	703,331	June 24	3760	868	99	2936
Actien Gesellschaft für Anilin Fabrikation. (See Hausdorf, Robert, assignor.)						
Actien Gesellschaft für Anilin Fabrikation. (See Herzberg and Siebert, assignors.)						
Actien-Gesellschaft "Magna." (Electriche Uhren Ohne Batterie & Ohne Contacte.) (See Fischer, Martin, assignor.)						
Actien-Gesellschaft, vormals F. Martini & Co. (See Kugler, Friedrich, assignor.)						
Acton Concrete Partition Company. (See Waller, William A. C., assignor.)						
Adair, Charles E., assignor to E. J. Jones & Co., Columbus, Ohio. Incubator.	714,653	Dec. 2	1	1	101	1837
Adair, Charles E., assignor to E. J. Jones & Co., Columbus, Ohio. Chicken-brooder.	714,654	Dec. 2	2	1	101	1837
Adam, Ferdinand A. R., Southport, Conn. Street-lamp.	691,886	Jan. 28	2877	648	98	651
Adamo, Giuseppe, Philadelphia, Pa. Tailor's square.	710,339	Oct. 7	1	1	101	8
Adams, Albert E. (See Hengeveld and Adams.)						
Adams, Alonzo S., Boston, Mass. Ticket-holder.	702,045	June 10	1372	312	99	2407
Adams, Amos A., Ehrenburg, Ariz. Ter. Range-finder.	717,002	Dec. 30	4804	1042	101	2915

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Adams, Archibald C., <i>et al.</i> (See Winkleman, Benjamin, assignor.)						
Adams, Brothers Company. (See Kavis, Joseph J., assignor.)						
Adams, C. C., <i>et al.</i> (See Miller, Benjamin F. D., assignor.)						
Adams, Charles W. (See Hoffman, Edward J., assignor.)						
Adams, Clarence E. (See Adams, Edward B. and C. E.)						
Adams, Cushing, Bellows Falls, Vt. Oleaginous compound	709,291	Sept. 16	2473	-----	100	2521
Adams, Daniel L., Reading, Pa. Sand-moulding machine	697,593	Apr. 15	2320	502	99	510
Adams, Edward B. and C. E., Racine, Wis. Bolster-spring	710,306	Oct. 7	1	1	101	3
Adams, Francis A., assignor to Bliss Bros. Company, Attleboro, Mass. Watch-guard	714,655	Dec. 2	3	1	101	1837
Adams, Francis E., assignor to Coffin Valve Company, Boston, Mass. Water-gate	714,551	Nov. 25	4043	894	101	1779
Adams, Frank B., Plymouth, Mich. Rope-fastener	701,277	June 3	1	1	99	2109
Adams, Frank E., assignor to S. Franklin, Chicago, Ill. Machine for mounting ornamental composition directly upon circular picture-frames. (Reissue)	11,980	Apr. 8	1957	433	99	434
Adams, Fred L., Prophetstown, Ill. Lawn-mower	710,131	Sept. 30	4156	936	100	2837
Adams, Fred L., Prophetstown, Ill. Lawn-mower	715,452	Dec. 9	1519	329	101	2164
Adams, George B., Irvington, N. J. Clasp	716,357	Dec. 23	3321	726	101	2575
Adams, George B., Irvington, N. J. Garment or hose supporter	699,126	May 6	1	1	99	1177
Adams, George B., Irvington, N. J. Garment or hose supporter	712,631	Nov. 4	321	75	101	965
Adams, George E., New Britain, Conn. Metallic envelop-closure	697,960	Apr. 22	2929	646	99	673
Adams, George E., New Britain, Conn. Suspensives	715,931	Dec. 16	2480	546	101	2386
Adams, George E., Glens Falls, N. Y., assignor to W. D. Earl, Lowell, Mass. Music-leaf turner	707,671	Aug. 26	3211	720	100	1829
Adams, George J., Brooklyn, N. Y. Measuring-faucet and automatic graduate	707,532	Aug. 26	2924	661 662	100	1769
Adams, George J., Brooklyn, assignor to Colgate & Company, New York, N. Y. Bottle-closure	709,292	Sept. 16	2474	557	100	2521
Adams, George J., Brooklyn, assignor to Colgate & Company, New York, N. Y. Bottle-closure	714,991	Dec. 2	688	143	101	1974
Adams, George R., Hiawatha, Kans. Brooder	716,651	Dec. 23	3930	836	101	2702
Adams, George R., Hiawatha, Kans. Heating and ventilating system for incubators	716,652	Dec. 23	3921	856 857	101	2702
Adams, George W., Stoughton, Mass. Clock	691,887	Jan. 28	2879	648	98	652
Adams, Henry C. (See Uhlig, Richard W., assignor.)						
Adams, Henry T., and O. Kellner, Chicago, Ill. Metal ring for temporary binding	692,584	Feb. 4	652	153	98	932
Adams, Hugh A., Wabash, Ind. Voting-machine	694,342	Mar. 4	1	1, 2	98	1713
Adams, J. Frank. (See Small, Benjamin W., assignor.)						
Adams, James H., Fullerton, Cal. Drill-rod grab	706,872	Aug. 12	1691	378 379	100	1480
Adams, Joel U., Cincinnati, Ohio. Suspensory	692,043	Jan. 28	3168	715	98	707
Adams, Joel U., Cincinnati, Ohio. Body-brace	714,124	Nov. 25	3320	711	101	1615
Adams, Joel U., Cincinnati, Ohio. Truss	715,331	Dec. 9	1306	279	101	2123
Adams, John E. (See Chroninger and Adams.)						
Adams, John H., Westport, N. Y. Fishing-reel	713,371	Nov. 11	1773	399	101	12, 7
Adams, John L. (See Greth, Joseph, assignor.)						
Adams, John Q., and S. Hough, Atco, N. J. Mower	703,513	July 1	250	58	100	50
Adams, Joseph P., Garfield, Wash. Bag-holder	702,685	June 17	2562	588	99	2673
Adams, Lewis G., <i>et al.</i> (See Webster, David G., assignor.)						
Adams, Louis G., <i>et al.</i> (See Mathias, Theodore N., assignor.)						
Adams, Marcellin C. (See Adams, Stephen J., assignor.)						
Adams, Moses J., <i>et al.</i> (See Rowley, Wilfrid B., assignor.)						
Adams, Moses J., Leeds, England. Apparatus for molding the exterior of articles in clay or other plastic material	709,131	Sept. 16	2153	494	100	2454
Adams, Peter H. (See Paca, William S., assignor.)						
Adams, Peter H., <i>et al.</i> (See Paca, William S., assignor.)						
Adams, Stephen J., assignor to M. C. Adams, Pittsburg, Pa. Sand-molding apparatus	697,385	Apr. 8	1861	417	99	417
Adams, Stephen J., assignor to M. C. Adams, Pittsburg, Pa. Sand-molding apparatus	697,386	Apr. 8	1867	418	99	418
Adams, Stephen J., assignor to M. C. Adams, Pittsburg, Pa. Forming sand molds	697,387	Apr. 8	1870	418	99	418
Adams, Stephen J., assignor to M. C. Adams, Pittsburg, Pa. Forming sand molds	697,388	Apr. 8	1874	418	99	418
Adams, Stephen J., assignor to M. C. Adams, Pittsburg, Pa. Apparatus for forming sand molds	704,951	July 15	3013	647 648 649	100	646 648
Adams, Stephen J., assignor to M. C. Adams, Pittsburg, Pa. Forming sand molds	704,952	July 15	3022	649	100	648
Adams, Theodore F. (See Burden, Oscar H., assignor.)						
Adams, Theodore F., <i>et al.</i> (See Bedell, William F., assignor.)						
Adams, Thomas, Sr. (See Bayler, Adolph, assignor.)						
Adams, Thomas E., Cleveland, Ohio. Alternating-current regulator	699,055	Apr. 29	5044	1116	99	1137
Adams Top Cutting Machine Company. (See Heany, John A., assignor.)						
Adams Top Cutting Machine Company. (See Stone, Clarence, assignor.)						
Adams, Walter L., Norwich, Conn. Tip for shoe-lacings	712,632	Nov. 4	323	76	101	965
Adams, Walter S., assignor to J. A. Brill, Philadelphia, Pa. Brake mechanism	695,130	Mar. 11	1530	339	98	2051
Adams, Walter S., assignor to J. A. Brill, Philadelphia, Pa. Brake mechanism	695,131	Mar. 11	1534	339 340	98	2052
Adams, Walter S., assignor to J. A. Brill, Philadelphia, Pa. Brake mechanism	695,361	Mar. 11	1932	431	98	2134
Adams, Walter S., assignor to J. A. Brill, Philadelphia, Pa. Adjustable truck-bearing	708,980	Sept. 16	1841	424	100	2389
Adams, Walter S., assignor to J. A. Brill, Philadelphia, Pa. Car-truck	709,071	Sept. 16	2031	463 464	100	2427
Adams, Walter S., assignor to J. A. Brill, Philadelphia, Pa. Car-truck construction	709,072	Sept. 16	2033	464	100	2428
Adams & Westlake Company. (See Bartholomew, William S., assignor.)						
Adams & Westlake Company. (See Hamm and Mosher, assignors.)						
Adams & Westlake Company. (See Mosher, John A., assignor.)						
Adams & Westlake Company. (See Wishart and Seidel, assignors.)						
Adams, William H., assignor of one-half to F. F. Lombard, Lafayette, La. Cane-stub-cleaning machine	692,585	Feb. 4	653	153 154	98	932
Adams, William P. C., assignor of one-half to R. J. Frickman, Olympia, Wash. Garment	703,751	July 1	695	154	100	139
Adams, William R. (See Tucker, William A., assignor.)						
Adamson, Andrew J., assignor to Adamson Manufacturing Company, Chicago, Ill. Apparatus for separating the pith or core from the rind portion of fibrous material	707,531	Aug. 26	2921	661	100	1769
Adamson, Corson. (See Adamson, William L., assignor.)						
Adamson Manufacturing Company. (See Adamson, Andrew J., assignor.)						
Adamson, Nils F. (See Coulter and Adamson.)						
Adamson, William L., assignor of one-half to C. Adamson, Weston, Tex. Stalk-chopper	710,232	Sept. 30	4347	977	100	2999
Adcock, William, assignor of one-half to J. Lee, Akron, Ohio. Wall-paper cleaner	701,275	June 3	2	1	99	2109
Addressograph Company. (See Duncan, Joseph S., assignor.)						
Addy, Charles J., <i>et al.</i> (See Mead, Albert G., assignor.)						
Adee, Fred, Brooklyn, N. Y. Flushing device for water-closets	715,453	Dec. 9	1521	330	101	2165



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"Adek" Manufacturing Company. (See Brow, James B., assignor.)						
Adelsberg, Abraham, Rochester, N. Y. Measuring and drafting device for garments	711,611	Oct. 21	2335	510 511	101	515
Adelsberger, Johann, and H. Friedmann, assignors to S. Wechsler, Vienna, Austria-Hungary. Printing color for lithographic or metallographic printing	710,293	Sept. 30	4349		100	2939
Aderer, Adolph, J., and H. New York, N. Y. Dental pliers	691,694	Jan. 21	2306	561	98	557
Aderer, Adolph, J., and H. New York, N. Y. Case for dental instruments	691,695	Jan. 21	2507	561	98	557
Aderer, Hugo. (See Aderer, Adolph, J., and H.)						
Aderer, Julius. (See Aderer, Adolph, J., and H.)						
Adkins, Cyrus W. (See Kelley and Adkins.)						
Adkins, Samuel S., assignor, by mesne assignments, to S. S. W. Westover, St. Louis, Mo. Step-ladder	712,351	Oct. 28	3745	819	101	822
Aefern, Samuel, New York, N. Y. Vacuum-pit-jar-sealing device	708,191	Sept. 2	362	86	100	2055
Adler, Augusta, Tacoma, Wash. Adjustable counter-stool	697,911	Apr. 15	2828	626	99	632
Adler, Samuel. (See Baumeister and Adler.)						
Adolfsson, Anders E., Sundbyberg, Sweden. Acetylene-gas-generating apparatus	699,828	May 13	1350	313 314	99	1466
Adrian Gas Machine Manufacturing Company. (See Lane and Davenport, assignors.)						
Adriance, Benjamin, and A. Calleson, Brooklyn, assignors to Phoenix Cork Company, New York, N. Y. Bottle-cap-making machine	716,611	Dec. 23	3840	834 835 836 837 838	101	2686
Adrot, Georges, and P. Pons, Marseilles, France. Steam-reintegrator	698,348	Apr. 22	3654	807 808	99	823
Adt, Leo F., Troy, N. Y. Eyeglasses	691,345	Jan. 21	1870	421	98	423
Advance Machine Company. (See Davis, Bethuel M., assignor.)						
Aegerter, Jacob, San Francisco, Cal. Screw-propeller	701,242	May 27	4118	947	99	2075
Aeolian Co. (See Emmons, Charles L., assignor.)						
Aeolian Co. (See Pain, Robert W., assignor.)						
Aeolian Co. (See Pain, Willard S., assignor.)						
Aeolian Company. (See Shaw, Charles H., assignor.)						
Aeolian Company. (See Skinner, Ernest M., assignor.)						
Aeolian Company. (See Spiegel, William G., assignor.)						
Aeolian Company. (See Votey, Edwin S., assignor.)						
Aeolian Company. (See Young, Francis L., assignor.)						
Aeschlimann, John, Whatcom, Wash. Windmill	711,928	Oct. 28	2973	654	101	669
Africa, Elmer M. (See Sleeman and Africa.)						
Agatine Shoe-Hook and Eyelet Company. (See Pupke, Everhard L., assignor.)						
Agnew, A. H., et al. (See Cheeseman, Lewis, Sr., assignor.)						
Agnew Auto-Mailing Machine Company. (See Agnew, Lee A., assignor.)						
Agnew, Clair H., Homer, Mich. Rotary engine	711,711	Oct. 21	2527	555 351 352	101	556
Agnew, Lee A., New York, N. Y., assignor, by mesne assignments, to Agnew Auto-Mailing Machine Company, Boston, Mass. Newspaper folding, wrapping, addressing, and assorting machine	713,271	Nov. 11	1553	353 354 355	101	1230
Agnew, Lee A., New York, N. Y., assignor, by mesne assignments, to Agnew Auto-Mailing Machine Company, Boston, Mass. Machine for addressing and assorting newspapers, magazines, &c	713,272	Nov. 11	1566	355 356	101	1232
Agnew, Park, et al. (See Cheeseman, Lewis, Sr., assignor.)						
Agust, Joseph. (See Politsky and Agust.)						
Ahern, James, Washington, D. C. Music-leaf turner	709,625	Sept. 23	3148	702	100	2674
Ahlberg, Olo N., St. Paul, Minn. Milk-can	700,596	May 20	2883	662	99	1800
Ahlborn, Edward, Hildesheim, Germany. Flooding regenerative heater for liquids	696,882	Apr. 1	932	213	99	197
Ahlen, William. (See Hunt and Ahlen.)						
Ahlbers, George P., and G. A. Schaal, Baltimore, Md. Non-refillable bottle	712,751	Nov. 4	523	122	101	1006
Ahorn, Johann. (See Panitschek and Ahorn.)						
Ahrends, John, Dearborn county, Ind. Feed-trough	711,032	Oct. 11	1206	265	101	265
Ahrendt, Johannes, Hamburg, Germany. Collar for horses or the like	707,814	Aug. 26	3537	798	100	1803
Ahrens, Carl F. W., Bridgeport, Conn. File-cabinet	701,000	May 27	3677	844	99	1981
Ahrens, Ella H., Philadelphia, Pa. Combined table and guard attachment for sewing-machines	701,824	June 10	965	215	99	2327
Ahle, Carl P. H., assignor to Metalline-Platten Gesellschaft M. B. H., Frankfurt-on-the-Main, Germany. Bronzing photographic plates	694,227	Feb. 25	3833		98	1646
Aicardi, Onorato A., San Francisco, Cal. Needle-threader	707,191	Aug. 19	2383	511	100	1620
Aigner, Francis X., Jersey City, N. J. Strutcher	706,371	Aug. 5	732	150	100	1264
Aiken, Joseph D., Taftville, Conn. Trousers-supporter	707,192	Aug. 19	2385	511	100	1621
Aiken, Robert H., Bathurst, Ill. (See McGarvey, Edward, assignor.)	701,001	May 27	3678	844	99	1981
Aikens, James P., et al. (See McGarvey, Edward, assignor.)						
Ainsworth, Guy R. (See Edmiston, George F., assignor.)						
Ainsworth, Lot H., Philadelphia, Pa. Device for applying and removing electric-light bulbs	697,961	Apr. 22	2930	646	99	673
Ajax Forge Company. (See Bradley, Frank B., assignor.)						
Akerman, John S., San Diego, Cal. Game apparatus	706,873	Aug. 12	1692	370	100	1480
Akers, James M., Gays, Ill. Pneumatic conveyer-rusher	696,531	Apr. 1	247	56	99	57
Akers, Maurice L., and W. L. Richards, assignors of one-fourth to J. E. Williams, Ione, Oreg. Panoramic camera	694,516	Mar. 4	338	75, 76	98	1784
Akin, Paul F. (See Callahan, Charles H., assignor.)						
Akins, Lewis P., Atlanta, Ga. Wagon-brake	710,651	Oct. 7	4480	102	101	99
Akins, Stephen A., Merwin, Mo. Game apparatus	707,291	Aug. 19	2470	554	100	1658
Akrophone Manufacturing Company. (See Hutchison, Miller R., assignor.)						
Akron Glass & Machinery Company. (See Bridgwater and Haley, assignors.)						
Akron Glass & Machinery Company. (See Haley, Jonathan, assignor.)						
Akron Glass & Machinery Company. (See Haley and Bridgwater, assignors.)						
Akron Paper Company. (See Hodge, George L., assignor.)						
Aktiebolaget Automatvevar. (See Kjellman and Andersson, assignors.)						
Aktiebolaget Bleckvarufabriken I. Lund. (See Carljude, Wilhelm, assignor.)						
Aktiebolaget Verktygsmaskiner. (See Hirsch, Frank, assignor.)						
Aktien-Gesellschaft Schalker Gruben-und Hüttenverein. (See Holthaus, Johann, assignor.)						
Aktiengesellschaft, vormals Seidel & Naumann. (See Döring, Albert, assignor.)						
Aladdin Manufacturing Company. (See Wilcox, Theodore B., assignor.)						
Albaugh, Benjamin F., Covington, Ohio. Smoothing-iron	701,825	June 10	966	215	99	2327
Albaugh Bros., Dover and Company. (See Barrows, Charles S., assignor.)						
Albee, Thomas, Halstead, Pa. Chuck-hook keeper	707,533	Aug. 26	2926	662	100	1770
Albee, Washington L., assignor of one-half to Schoellkopf & Company, Buffalo, N. Y. Preparing skins for tanning	702,864	June 17	2892		99	2742

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Alberger, Louis R. (See Worthington and Alberger.)						
Alberini, Filoteo, C. Anchise, and L. Ganucci-Cancellieri, Florence, Italy. Cinematographic apparatus	690,815	Jan. 7	866	1490	98	183
Albert, Friedrich, Nuremberg, Germany. Pulley	699,434	May 6	588	133	99	1206
Albert, Joseph H., and F. A. Wiggins, Salem, Oreg. Coin-delivery apparatus	715,735	Dec. 16	2052	439	101	2293
Albertson, Albert C., New York, N. Y. Railway and car and magnetic appliance therefor.	714,851	Dec. 2	419	88, 80	101	1918
Albertson, John A., Lansford, Pa. Telegraph-sounder	699,056	Apr. 29	5047	1116	99	1138
Albertson, Linden, Newark, N. J. Fitting for pipes or rods	695,022	Mar. 11	1321	232	98	2099
Albertson, Silas W., Mineola, N. Y. Sand-lugon	699,913	Jan. 11	1031	232	98	223
Albrecht, Adolf, Schöneberg, near Berlin, Germany. Incandescent burner for liquid hydrocarbons	712,352	Oct. 28	3746	819	101	822
Albrecht, Christian A., Berlin, Germany. Tool for cutting cast type-lines in linotype-machines	696,532	Apr. 1	249	56	99	57
Albrecht, Christian A., Berlin, Germany. Mechanism for pushing the linotypes out of molds of linotype-machines.	710,652	Oct. 7	491	108	101	99
Albrecht, Christian A., Berlin, Germany. Matrix-distributing mechanism for linotype-machines	716,975	Dec. 30	4639	1005	101	2873
Albrecht, Frederick J., New York, N. Y. Embossing-machine	690,816	Jan. 7	868	191	98	183
Albrecht, Gustav, assignor of one-half to H. J. Heick, Louisville, Ky. Lock for fire-doors	713,372	Nov. 11	1775	399	101	1277
Albrecht, Oscar A., assignor to O. A. Albrecht Company, Omaha, Nebr. Lacing-strip	695,362	Mar. 11	1937	431	98	2186
Albrecht, William A., et al. (See Mock, Hugo, assignor.)						
Albree, Chester B., Allegheny, Pa. Motor for tools	695,664	Mar. 18	2490	565	98	2269
Albrefczenski, John, San Francisco, Cal. Pumping apparatus	699,829	May 13	1352	314	99	1467
Albright, John E., et al. (See Smith, Solomon, assignor.)						
Albright, Joseph, Watsonville, Cal. Beet-topping machine	706,145	Aug. 5	281	38, 59	100	1175
Alcan, Felix, assignor to American Encaustic Tiling Company, Limited, New York, N. Y. Means for setting mosaics	706,874	Aug. 12	1693	379	100	1480
Alcan, Felix, assignor to American Encaustic Tiling Company, Limited, New York, N. Y. Machine for floors, walls, ceilings, fireplaces, &c.	715,932	Dec. 16	2481	547	101	2386
Alcatraz Company. (See Bell, Arthur F. L., assignor.)						
Alcorn, Melvin. (See Douglas and Alcorn.)						
Alden, Arthur M., Waukegan, Ill. Oilier	697,700	Apr. 15	2461	549	99	552
Alden, F. C. (See Hunt, George A., assignor.)						
Alden Rubber Co. (See Toy, Elias L., assignor.)						
Alden Type Machine Company. (See Johnson, Louis K., assignor.)						
Alden Type Machine Company. (See Johnson and Low, assignors.)						
Alden Type Machine Company. (See Low, Abbot A., assignor.)						
Alden Type Machine Company. (See Low and Breakey, assignors.)						
Alden, William B., Springfield, Mass. Machine for making buttons or other articles	697,189	Apr. 8	1513	338	99	341
Alderfer, John M., Sharon Center, Ohio. Vehicle-wheel	714,271	Nov. 25	3339	778	101	1681
Alderson, Ernest G. (See Donovan and Alderson.)						
Aldine Manufacturing Company. (See Rose and Brockschmidt, assignors.)						
Aldrich, Albert E., Lexington, Ky. Respirometer	699,637	May 13	977	226	99	1391
Aldrich, Alonzo, Beloit, Wis. Paper-making machine	691,572	Jan. 21	2268	510	98	507
Aldrich, Jonas H., Butler, Ind. Road-grader	708,977	Aug. 8	1125	244	100	1378
Aldridge, John W., Kincaid, Kans. Machine-wrench	706,629	Aug. 12	1217	370	100	239
Aldridge, Reuben M., Waltham, Miss. Corn and cotton planter and fertilizer-distributor	692,586	Feb. 4	655	154	98	933
Aldine Alexander G., Detroit, Mich. Water-closet valve	695,898	Mar. 25	2909	660	98	2369
Alexander, Arthur S., New York, N. Y. Game apparatus	712,331	Oct. 28	3539	775	101	780
Alexander, Arthur S., and A. Vischer, New York, N. Y. Attachment for mouth-harmonicas	703,752	July 1	697	154	100	139
Alexander, Elmer P., Yeagertown, Pa. Press for forging axes, &c.	692,587	Feb. 4	658	154	98	933
Alexander, George J., Philadelphia, Pa. Combined badge and bouquet-holding button	705,190	July 22	3516	763	100	763
Alexander, Gideon. (See Alexander, Tony, assignor.)						
Alexander, Hamill M., Marietta, Pa. Vaccine-container	710,234	Sept. 30	4350	977	100	2939
Alexander, Henry D., and H. C. White, Canton, Ohio. Soft-tread horseshoe	693,942	Feb. 25	3287	723	98	1537
Alexander, Isaac H., Camden, S. C. Dental matrix-crown	713,273	Nov. 11	1777	357	101	1235
Alexander, James G., Fairfield, Iowa. Brake	704,229	July 8	1614	349	100	337
Alexander, Jesse, assignor of one-half to M. S. Skidmore, Brooklyn, N. Y. Register	707,751	Aug. 26	3405	708	100	1867
Alexander, Jesse, assignor of one-half to H. Benke, New York, N. Y. Aliner for type-bars of type-writers	714,091	Nov. 18	3158	699	101	1582
Alexander, Jesse H., Williamstown, Mo. Flood-gate	712,469	Nov. 4	1	1	101	897
Alexander, John E., West Orange, N. J. Record or record-blank for talking-machines	717,311	Dec. 30	5280	1147	101	3017
Alexander, John E., West Orange, N. J. assignor to General Phonosphere Corporation. Talking or sound recording and reproducing machine	692,409	Feb. 4	328	79, 80	98	868
Alexander, John L. and W. E. Hazerig, assignors of one-half to E. T. Kenney, Indianapolis, Ind. Corn-husking and fodder-shredding machine	705,311	July 22	3791	823	100	817
Alexander, John P., Jackson, Tenn. Balance-circuit induction-coil	716,653	Dec. 23	3923	857	101	2702
Alexander, John S., New York, N. Y. Means for certifying checks or other instruments	707,891	Aug. 26	3693	830	100	1923
Alexander, John W., Whitewood, S. D. Cultivator	711,571	Oct. 14	1876	409	101	406
Alexander, Joseph, et al. (See Szabo, Basil V., assignor.)						
Alexander-Katz, Richard, Berlin, Germany. Separator for electric accumulator-plates	705,630	July 29	4484	973	100	907
Alexander-Katz, Richard, Berlin, Germany. Accumulator-electrode	715,332	Dec. 9	1308	280	101	2123
Alexander, Leslie. (See English and Alexander.)						
Alexander, Tony, Bismarck, Miss., assignor of one-half to G. Alexander, New Orleans, La. Support for overhead carriers	702,907	June 24	2980	686	99	2778
Alexander, Tony, Bismarck, Miss., assignor of one-half to G. Alexander, New Orleans, La. Elevated-cable system of transportation	703,222	June 24	3596	826	99	2899
Alexander, Tony, Bismarck, Miss., assignor of one-half to G. Alexander, New Orleans, La. Log or freight dumping apparatus	707,951	Aug. 26	3793	852	100	1944
Alexander, William E. (See Alexander, John L. and W. E.)						
Alford, Abra K., et al. (See Spring, Napoleon C., assignor.)						
Alford, Joseph W. G., Adelaide, South Australia, and B. C. Martin, Broken Hill, New South Wales, Australia. Sash fastener and lift	715,531	Dec. 9	1675	365	101	2195
Alfon, Andrew, Chicago, Ill. Rifle	716,976	Dec. 30	4640	1006	101	2878
Alger, Charles M., Hannibal, Mo. Machine for wiring wood slats	708,111	Sept. 2	199	47, 48	100	2023
Alger, John L., Medford, Mass. Lock-nut	701,530	June 3	443	100	99	2199
Alhart, Clarence E., assignor of one-half to H. B. Carlton, Rochester, N. Y. Soap-bubble blower	697,063	Apr. 8	1291	287	99	293



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Allan, Hugh F. (See Borch, Gaston L. C., assignor.)						
Allard, Louis A. (See Lienke, Herman H., assignor.)						
Alcock, Samuel, Redditch, England. Spoon-bait			3	1	101	897
Allegretti, Giacomo, Chicago, Ill. Cooling or refrigerating apparatus	712,470	Nov. 4		175	98	707
Allegretti, Tony L., Chicago, Ill. Water-bag	702,759	June 17	2704	621	99	2708
Allen, Aaron E., Pueblo, Colo. Securing device for railway-ties	694,343	Mar. 4	5	2	98	1713
Allen, Alonzo W. (See Schlachter and Allen.)						
Allen, Arthur M., West New Brighton, N. Y. Velocipede	713,781	Nov. 18	2457	548	101	1436
Allen, Arthur S., Boston, Mass. Tympan-surface for printing-presses	705,011	July 22	3154	681	100	689
Allen, Arthur S., Boston, Mass. Bed for tympan-surfaces	705,012	July 22	3156	681	100	689
Allen, Arthur S., Brookline, Mass. Make-ready for printing	711,147	Oct. 14	1434	310	101	314
Allen, Bona, Jr., Buford, Ga. Horse-collar	715,353	Dec. 9	1310	280	101	2121
Allen, Bona, Jr., and W. C. Buford, Ga. Tanning apparatus	716,358	Dec. 23	4323	426	101	2575
Allen, Boyd W., Boston, Mass. Wall-plate or shield for electric wires	704,423	July 8	1962	426	100	413
Allen, Boyd W., Boston, Mass. Junction-box for electric wires in buildings	704,424	July 8	1963	427	100	413
Allen, Boyd W., Boston, Mass. Junction-box for electric wires in buildings	704,425	July 8	1964	427	100	413
Allen, Charles B., Wadsworth, Ohio. Automatic injector	697,770	Apr. 15	2585	573	99	578
Allen, Charles C., Kansas City, Mo. Polishing-strip	708,000	Sept. 2	1	1	100	1981
Allen, Charles F., Hueneeme, Cal. Vaginal syringe	701,124	May 27	3915	900	99	2034
Allen, Charles F., Hueneeme, assignor of one-half to L. B. Hogue and W. C. Hewitt, Santa Paula, Cal. Driving-gear	696,704	Apr. 1	500	133	99	128
Allen, Charles J., San Francisco, Cal. Conveyor	717,063	Dec. 30	4806	1042	101	2015
Allen, Charles R., San Francisco, Cal. Mechanical stoker	713,191	Nov. 11	1380	311	101	1196
Allen, Charles W., Merriman, Nebr. Horn fender	713,373	Nov. 11	1777	399	101	1278
Allen, Clile C., Chicago, Ill. Optical objective	696,788	Apr. 1	746	1169	99	159
Allen, David H. (See Gamble, William H., assignor.)						
Allen, Edward A., Rumford Falls, Me., and H. K. Moore, Lynn, Mass., assignors, by mesne assignments, to Moore Electrolytic Company, Portland, Me., and Boston, Mass. Apparatus for producing caustic soda by electrolysis	716,804	Dec. 23	4191	918	101	2757
Allen, Edward B., Elizabeth, N. J., assignor to Singer Manufacturing Company. Thread-controlling device for sewing-machines	709,456	Sept. 23	2823	684	100	2607
Allen, Edward B., Elizabeth, N. J., assignor to Singer Manufacturing Company. Thread-controlling device for sewing-machines	713,534	Nov. 18	2185	497	101	1377
Allen, Elward B., and W. B. Salmon, Flemington, N. J., assignors to Allen and Van Nest Company, Flemington, N. J., and New York, N. Y. Automatic regulating device for steam-heaters	696,789	Apr. 1	748	170	99	160
Allen, Edward I., Beaumont, Tex. Non-refillable bottle	707,068	Aug. 19	2047	457	100	1569
Allen, Everett P., assignor to R. M. Wilbur, Chicago, Ill. Air and vacuum valve	703,886	July 1	937	205	100	188
Allen, Frank C., et al. (See Billings, John W., assignor.)				918 919 920 921 922 923		
Allen, Frederick E., Boston, Mass. Drier	698,617	Apr. 29	4175	920 921 922 923	99	945
Allen, Frederick E., assignor to Improvements Manufacturing Company, Boston, Mass. Self-contained extension-table	695,092	Mar. 25	3078	698 699	98	2402
Allen, Frederick E., assignor to Improvements Manufacturing Company, Boston, Mass. Weather-strip	695,093	Mar. 25	3082	699	98	2403
Allen, Frederick E., Boston, and R. H. Danforth, Salem, assignors to Improvements Manufacturing Company, Boston, Mass. Steering mechanism	705,892	July 29	4953	1078	100	1062
Allen, George E., San Francisco, Cal. Coat and hat rack	710,400	Oct. 7	3	1	101	3
Allen, George G., Malden, Mass., assignor to Stenotype Company, Portland, Me. Keyboard	706,002	Aug. 5	1	1	100	1117
Allen, Herbert B., assignor to J. D. Spreckels, San Francisco, Cal. Printing-press	706,709	Aug. 12	1360	303 304	100	1410
Allen, Herbert F. L., assignor to American Military Equipment Co., Washington, D. C. Combined ammunition and water carrier and litter	704,426	July 8	1965	427 428	100	413
Allen, Herbert F. L., assignor to American Military Equipment Co., Washington, D. C. Portable ammunition and water carrier and litter	704,427	July 8	1968	428	100	414
Allen, Herbert H., Chicago, Ill. Attachment for plows or the like	706,875	Aug. 12	1605	379 380	100	1480
Allen, Homer L. (See O'Brien and Allen.)						
Allen, James B., Detroit, Mich., assignor to J. H. Bevington, Cleveland, Ohio. Magazine for pipe-cane	709,457	Sept. 23	2824	634	100	2607
Allen, James E., assignor of one-half to J. C. Zulauf, Uby, Mich. Mirror-hangmg	710,335	Sept. 30	4351	978	100	2699
Allen, James M., assignor of eleven and one-half twentieths to G. H. Price and I. H. Nelson, St. Louis, Mo. Electric safe-lock	715,334	Dec. 9	1311	280	101	2124
Allen, James W. (See Allen, William W. and J. W.)						
Allen, John C., Gloversville, N. Y. Glove	707,069	Aug. 19	2048	457	100	1569
Allen, John D., Atlanta, Ga. File	706,630	Aug. 12	1219	270	100	1378
Allen, John F., assignor of one-half to F. B. Finney, Portsmouth, Ohio. Lock	703,514	July 1	252	58	100	51
Allen, John H., East Orange, N. J. Insulated rail joint or connection	711,411	Oct. 14	1940	422	101	410
Allen, John M., assignor of one-half to C. W. Swingley, St. Louis, Mo. Feed-trough	702,686	June 17	2564	589	99	2074
Allen, John S., Los Angeles, Cal. Insulating support for metallic circuits	705,811	July 29	4812	1044	100	1033
Allen, Joseph C., Plainfield, assignor to Consolidated Fruit Jar Company, New Brunswick, N. J. Receptacle for tooth-powder or other material	706,710	Aug. 12	1362	304	100	1410
Allen, Le Roy B., Norwalk, Ohio. Harness track-saddle	708,514	Sept. 9	931	211	100	2182
Allen, Margaret A., Longmont, Colo. Combined window-shade guide, shield, and curtain-pole bracket	711,455	Oct. 21	2639	442	101	453
Allen, Mary A., Fitzgerald, Ga. Combination cane and whip	696,705	Apr. 1	592	133	99	129
Allen, Patrick A., and J. W. McKenzie, Toledo, Ohio. Water-closet receptacle for railway-cars	700,719	May 27	3141	714	99	1873
Allen, Robert, Bigtimber, Mont. Type-writer word-counter	717,151	Dec. 30	4970	1078	101	2950
Allen, Robert T., Fernando, Cal. Press	716,359	Dec. 23	3324	726	101	2576
Allen, Samuel L., Moorestown, N. J. Cultivator	712,232	Oct. 28	3540	775	101	780
Allen, Samuel L., Moorestown, N. J. Cultivator	712,232	Oct. 28	3540	775	101	780
Allen, Samuel W., Chicago, Ill. Animal-shears	697,771	Apr. 15	2587	574	99	579
Allen, Thomas C., Sydney, New South Wales, Australia. Hair-pin	714,431	Nov. 25	3828	848	101	1737
Allen and Van Nest Company. (See Allen and Salmon, assignors.)						
Allen, Wesley P., and J. E. H. Browne, assignors of one-third to M. E. Becker, Albuquerque, N. Mex. Ter. Spark-arrestor	694,228	Feb. 25	3834	849	98	1646



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Allen, William C. (See Allen, Bona, Jr., and W. C.)						
Allen, William D. (See Curlett, Lewis K., assignor.)						
Allen, William H. (See Padgett, Cowham, and Allen.)						
Allen, William K., Newberg, Oreg. Fruit-dipping machine	711,612	Oct. 21	2340	511 512	101	516
Allen, William P., Hawesville, Ky., assignor, by mesne assignments, of one-half to C. W. Cook, Evansville, Ind. Rotary engine	715,983	Dec. 16	2482	547	101	2386
Allen, William W. and J. W., Cornell, Ill. Railway-gate	694,815	Mar. 4	913	204	98	1905
Allen, William Y., Newton, Mass. Device for grinding tapers	704,428	July 8	1969	428	100	414
Allen, Willis E., Baltimore, Md. Fountain-spittoon	703,221	June 24	3594	825	99	2898
Allender, Walter S., and T. Stocker, Marietta, Ohio. Mattress-stuffing machine	717,064	Dec. 30	4808	1043 1043	101	2915
Allendorfer, John H., Westmont, Pa. Ladle-stopper	712,111	Oct. 28	3323	728	101	736
Allendorfer, John H., Westmont, Pa. Refractory stopper	712,450	Oct. 28	3938	862	101	864
Allenou, Charles, Sevrès, France. Apparatus for discharging inflammable or other liquids from storage-tanks at the outbreak of fire	710,091	Sept. 30	4067	917 918	100	2878
Allderding, Cletus N., assignor to Park, Colville & Herrick Company, Mount Vernon, Ohio. Machine for bending shafts	716,612	Dec. 23	3849	839 839	101	2687
Allderton, Francis M. (See Cribbs and Allderton.)						
Alldfree, James B., Indianapolis, Ind. Steam-engine governor	696,918	Apr. 8	1015	226	99	235
Alldfree, James B., Indianapolis, Ind. Oil-filtering and lubricating apparatus	696,919	Apr. 8	1017	226	99	235
Alldfree, James B., Indianapolis, Ind. Piston guiding and packing device	696,920	Apr. 8	1019	226	99	236
Alldfree, James B., Indianapolis, Ind. Reversing mechanism	696,921	Apr. 8	1021	227	99	236
Allis-Chalmers Company. (See Gates, Albert J., assignor.)						
Allis-Chalmers Company. (See Gates and Capen, assignors.)						
Allis-Chalmers Company. (See Hanna, Elmer E., assignor.)						
Allis-Chalmers Company. (See Luck, Gustave J., assignor.)						
Allis-Chalmers Company. (See Mather, Allan G., assignor.)						
Allis-Chalmers Company. (See Walton, John, assignor.)						
Allis, Thomas V., Bridgeport, Conn. Furnace for rolling-mills	699,127	May 6	4	1	99	1177
Allis, Thomas V., Bridgeport, Conn. Feeding metal strips in furnaces	699,128	May 6	6	2	99	1178
Allis, Thomas V., Bridgeport, Conn. Rolling metal sheets	699,129	May 6	8	2	99	1178
Allis, Thomas V., Bridgeport, Conn. Furnace for progressively heating metal plates or packs	699,130	May 6	9	2	99	1178
Allis, Thomas V., Bridgeport, Conn. Hot-rolling metal sheets in packs	699,131	May 6	11	2, 3	99	1178
Allis, Thomas V., Bridgeport, Conn. Feeding and heating metal plates or packs	699,132	May 6	12	3	99	1179
Allis, Thomas V., Bridgeport, Conn. Conveyor and guide for rolling-mills	699,133	May 6	14	3, 4	99	1179
Allis, Thomas V., Bridgeport, Conn., assignor, by mesne assignments, to International Tin Plate Corporation. Furnace	693,771	Feb. 18	2043	647	98	1450
Allis, Thomas V., Bridgeport, Conn., assignor, by mesne assignments, to International Tin Plate Corporation. Feeding packs of thin metal strips from heating-furnaces	693,819	Feb. 18	3031	669	98	1468
Allis, Thomas V., Bridgeport, Conn., assignor, by mesne assignments, to International Tin Plate Corporation. System for continuous heating and metal-rolling	702,084	June 10	1458	337	99	2425
Allis, Thomas V., Bridgeport, Conn., assignor, by mesne assignments, to International Tin Plate Corporation. Compound for use in reducing metal sheets in packs	704,285	July 8	1718	.....	100	361
Allis, Thomas V., Bridgeport, Conn., assignor, by mesne assignments, to International Tin Plate Corporation. Furnace for progressive metal-heating	701,296	July 8	1719	375	100	361
Allis, Thomas V., Bridgeport, Conn., assignor, by mesne assignments, to International Tin Plate Corporation. Producing metal sheets	704,287	July 8	1722	375	100	362
Allison, Asa H., New Vienna, Ohio, assignor to J. C. Bowe, Indianapolis, Ind. Mop-wringer	694,517	Mar. 4	345	76	98	1785
Allison, Benjamin A., McPherson, Kans. Invoice and balance sheet	708,291	Sept. 2	548	124	100	2038
Allison, Charles R., Port Carbon, Pa. Safety controller and indicator for hoisting-engines or elevators	697,772	Apr. 15	2589	574	99	579
Allison, Fletcher D., Chicago, Ill. Combined ladder and settee	703,633	July 1	465	106	100	91
Allison, Hugh B., Des Moines, Iowa. Duplex propeller	715,191	Dec. 2	1036	223	101	2048
Allison, James F., Chicago, Ill. Device for removing corns, &c.	702,170	June 10	1613	363	99	2458
Allison, James J., Rockfalls, Ill. Bottle-stopper	707,195	Jan. 9	2286	512	100	1621
Allison, Mary E. (See Allison, Samuel B. and M. E.)						
Allison, Norris, Hendersonville, N. C. Tobacco-pipe	708,852	Sept. 9	1584	361	100	2318
Allison, Samuel B., deceased, Galveston, Tex.; C. A. Dorrestein, administrator. Machine for separating fiber from stalks	690,817	Jan. 7	869	192 226	98	184
Allison, Samuel B., deceased, Galveston, Tex.; C. A. Dorrestein, administrator. Fiber-separating machine	699,638	May 13	979	227 228	99	1391
Allison, Samuel B., deceased, (C. A. Dorrestein, administrator,) and M. E. Allison, New Orleans, La. Fiber-cleaning machine	715,736	Dec. 16	2055	459 460	101	2294
Almanna Svenska Elektriska Aktiebolaget. (See Lindström, Karl A., assignor.)						
Allmendinger, G. Frank. (See Edwards, Thomas E., assignor.)						
Allston Foundry Company. (See Ansley, John D., assignor.)						
Allyn, Eunice G. (See Graham, Joseph B., assignor.)						
Alman, John C., Gibsonton, assignor of one-half to J. S. Rodgers, Charleroi, Pa. Lock-and-latch	715,934	Dec. 16	2483	547 548	101	2386
Alonso-Consoli, Alfredo, Catania, Italy. Retort for subliming sulfur	711,811	Oct. 21	2730	604	101	599
Alpers, William C., Bayonne, N. J. Sodium sulfoguaicolate and making same	692,588	Feb. 4	661	.....	98	934
Alphin, Gilbert E., Mount Olive, N. C. Combined fumigator and refrigerator	715,335	Dec. 9	1312	280 281	101	2124
Alsasser, Joseph, Chicago, Ill. Bottle-stopper	716,165	Dec. 16	2931	544	101	2479
Alsop, Charles R., Middletown, Conn. Reversing-clutch	692,754	Feb. 4	940	214	98	991
Alsop, William, Newcastle, near Sydney, New South Wales, Australia. Rotary engine	706,372	Aug. 5	733	160	100	1264
Alsted, Edward P., Truesdell, Wis. Pneumatic stacker	717,312	Dec. 30	5281	1147 1148	101	3017
Alsop, Ben, Bluffcreek, Iowa. Riding-harrow	690,451	Mar. 4	218	48, 49	98	1759
Altare, Mason M. (See Warren and Altare.)						
Altenefer, Ferdinand A., Glenside, Pa. Drawing implement	697,594	Apr. 15	2254	502	99	512
Altermatt, John F., and D. T. Van Tine, Centralia, Wash. Tablet	697,773	Apr. 15	3591	574	99	580
Altham, George J., Fall River, Mass. Valve mechanism for explosive-engines	712,171	Oct. 28	3436	752 753	101	758
Althaus, Frederick D., New York, N. Y. Multitubular steam-boiler	694,048	Feb. 25	3518	774	98	1584
Althaus, Maximilian C. L., Billwärdar-an-der-Bille, near Hamburg, assignor to Fabrik Chemischer Präparate von Dr. Richard Stahmer, Hamburg, Germany. Making acetyl-cellulose	692,497	Feb. 4	485	.....	98	808
Althaus, Maximilian C. L., Billwärdar-an-der-Bille, near Hamburg, assignor to Fabrik Chemischer Präparate von Dr. Richard Stahmer, Hamburg, Germany. Cellulose lakes and making same	692,775	Feb. 4	981	.....	98	908
Althouse, Joseph M., Reading, Pa. Electric cigar-lighter	694,311	Feb. 25	4052	900	98	1634

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Altimus, Ellsworth, Atwood, Pa. Match-box	710,551	Oct. 7	303	66	101	61
Altman, Charles, Wilber, Nebr. Car-coupling	695,704	Mar. 18	2557	578	98	2381
Altman, Dellmer L., Pittsburg, Pa. Curtain-pole	694,710	Mar. 4	715	157	98	1802
Altman, Israel S., New York, N. Y. Necktie-fastener	702,010	June 17	2436	553	99	2644
Altman, Charles P., Lyons-Vaise, France. Steam-boiler	703,362	July 1	1	1	100	3
Altman, Charles P., Lyons-Vaise, France. Water-tube boiler	715,737	Dec. 16	2057	460	101	2394
Alton, Lee T., Brooklyn, N. Y. Incandescent gas-lamp	703,978	July 8	1127	244	100	239
Altpeter, Louis F. and R. C., Chicago, Ill. Vehicle-wheel and tire therefor	701,279	June 3	3	1	99	2109
Altpeter, Robert C. (See Altpeter, Louis F. and R. C.)						
Aluminum-Cork Seal Company. (See Gay, Herman T., assignor.)						
Aluminum Plate and Press Company. (See North, Thomas M., assignor.)						
Aluminum Press Company (See North, Thomas M., assignor.)						
Alves, John. (See Anderson, Andrew, assignor.)						
Alves, John, London, England. Smoke-consuming appliance for furnaces	707,534	Aug. 26	2926	662	100	1770
Alvey, Benjamin H., assignor to Alvey-Ferguson Co., Louisville, Ky. Skid	698,095	Apr. 22	3194	698	99	727
Alvey, Benjamin H., assignor to Alvey-Ferguson Co., Louisville, Ky. Conveyor	714,432	Nov. 25	3829	848	101	1737
Alvey-Ferguson Co. (See Alvey, Benjamin H., assignor.)						
Alvisi, Ugo, Rome, Italy. Detonating compound	707,493	Aug. 19	2833		100	1734
Alvord, Clinton, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pattern mechanism for looms	713,042	Nov. 4	1073	250	101	1115
Alvord, Elmer S., assignor of one-half to M. J. Doyle, Danbury, Conn. Hat-paring machine	700,283	May 20	2288	522	99	1680
Alvord, Sophie W., Phillipsburg, N. J. Legging	715,935	Dec. 16	2486	548	101	2387
Alz, Urban S., Baltimore, Md. Non-refillable bottle	714,656	Dec. 2	4	2	101	1838
Alz, Urban S., assignor of thirteen-twentieths to A. M. and F. Denhard and W. R. Engel, Baltimore, Md. Non-refillable bottle						
Alzugaray, Joseph B. de, London, England. Extracting precious metals from their ores	701,987	June 10	1262	287	99	2386
Alzugaray, Joseph B. de, London, England. Extracting precious metals from their ores	701,002	May 27	3681		99	1981
Amann, John F., Madisonville, Ohio. Stamp moistener and affixer	701,243	May 27	4119	947	99	2075
Ambacher, Jacob F. (See Obermeyer and Ambacher.)						
Amberson, Linton C., Youngstown, Ohio. Nut and bolt	715,192	Dec. 2	1037	224	101	2048
Ambler, James A., Natick, Mass. Stencil-printing machine	696,393	Apr. 1	1	1	99	3
Ambler, Levi, Lebanon, Pa. Culinary vessel	700,398	May 20	2527	578	99	1725
Amborn, George, Jr., assignor to J. H. Williams and Company, Brooklyn, N. Y. Chain wrench	698,779	Apr. 29	4511	997	99	1021
Amborn, George, Jr., assignor to J. H. Williams and Company, Brooklyn, N. Y. Chain pipe-wrench	698,780	Apr. 29	4514	998	99	1022
Ambrose, Fred M., et al. (See Corey, Charles W., assignor.)						
Ambrose, George E. (See Norford and Ambrose.)						
Ambrose, Robert L., Tarrytown, assignor to Rand Drill Company, New York, N. Y. Valve-balancing device	693,484	Feb. 18	2405	526	98	1341
Ambrosius, Carl A., East Orange, N. J., assignor of one-half to C. H. and J. E. Shanger, Adjustable form for stair-builders	699,057	Apr. 29	5048	1116	99	1138
Ambuster, William, assignor of one-half to B. J. Harris, St. Louis, Mo. Breath-perfume cabinet	713,931	Nov. 18	2844	631	101	1515
Ambuhl, Andrew, Decatur, Ill. Ice-cutter for trolley-wheelers	690,818	Jan. 7	871	192	98	184
Ambuhl, Andrew, Decatur, Ill., assignor to Garton-Daniels Company, Keokuk, Iowa. Pick-up tongs for live wires	700,002	May 13	1691	389	99	1536
Amburn, Otis F., Galva, Ill., assignor to J. T. Clark and J. G. Martz, Big Rapids, Mich. Collar or cuff button	701,244	May 27	4121	948	99	2075
Amend, Otto P., New York, N. Y. Mordanting animal fiber	700,284	May 20	2293		99	1680
Amend, Otto P., New York, N. Y. Tanning hides or other animal tissues	713,046	Nov. 11	1089		101	1137
Amend, Otto P., New York, N. Y. Solution for tanning hides, pelts, or other animal tissues	714,433	Nov. 25	3832		101	1737
American Amalgamating Company. (See Knappe, Paul A., assignor.)						
American Automatic Change Maker Company. (See Butcher and Hartwig, assignors.)						
American Automatic Loom Company. (See Erskine, William B., assignor.)						
American Automatic Photograph Company. (See Pifer, George N., assignor.)						
American Autumusic Company. (See Davis, George H., assignor.)						
American Bank Note Company. (See Reid, Alexander, assignor.)						
American Bell and Chime Company. (See Schippers, Frank, assignor.)						
American Bell Telephone Company. (See Bullard, Albert M., assignor.)						
American Bell Telephone Company. (See Bullard and Rorty, assignors.)						
American Bell Telephone Company. (See Hulfish, David S., assignor.)						
American Bicycle Company. (See Copeland, James S., assignor.)						
American Bicycle Company. (See Dannenberg and Morgan, assignors.)						
American Bicycle Company. (See Harris, Nelson G., assignor.)						
American Bicycle Company. (See Morgan, Ralph L., assignor.)						
American Brake Company. (See Wahlert, Henry A., assignor.)						
American Brake Shoe & Foundry Company. (See Sargent, William D., assignor.)						
American Brake Shoe and Foundry Company. (See Snow, Elmer J., assignor.)						
American Brass Company. (See Dick, George A., assignor.)						
American Can Company. (See Hanson, John G., assignor.)						
American Can Company. (See Hodgson and Norton, assignors.)						
American Can Company. (See Hodgson and Taliferro, assignors.)						
American Can Company. (See Larkin, Bernard H., assignor.)						
American Can Company. (See Leavitt, Frank M., assignor.)						
American Can Company. (See Lee, John, assignor.)						
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American Can Company. (See Norton, Horatio N., assignor.)						
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American Can Company. (See Norton and Kennedy, assignors.)						
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American Can Company. (See Wilcox, George, assignor.)						
American Can Company. (See Williams, Charles E., assignor.)						
American Can Company. (See Williams, Harry E., assignor.)						
American Can Company. (See Wing, John F., assignor.)						
American Car and Foundry Company. (See King, George I., assignor.)						
American Car and Foundry Company. (See Pancoast, Albert, assignor.)						
American Car & Foundry Company. (See Rogers and Shotwell, assignors.)						
American Car & Foundry Company. (See Wolff and Lipschutz, assignors.)						
American Chemical Fire Extinguishers Company. (See Martin, Robert M., assignor.)						
American Clay Working Machinery Company. (See Cunningham, William R., assignor.)						
American Clay-Working Machinery Company. (See Wallace, William W., assignor.)						



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American Clock Company. (See Hubbard, Frank W., assignor.)						
American Concrete-Steel Company. (See Simpson and Shoemaker, assignors.)						
American Construction Company. (See Beecher, Lina, assignor.)						
American Construction Company. (See Green, Edward A., assignor.)						
American Cotton Company. (See Svenson, Magnus, assignor.)						
American Cotton Improvement Company. (See McPherson, Charles J., assignor.)						
American Cotton Improvement Company. (See McPherson, Charles J., assignor.) (Re-issue.)						
American Cotton Oil Company. (See Phillips, Cecil O., assignor.)						
American Deatal Manufacturing Company. (See Holtz, Gustav, assignor.)						
American Electric Company. (See Miller, Albert W. W., assignor.)						
American Electric Telephone Company. (See Carliss, Albert, assignor.)						
American Electric Telephone Company. (See Clausen, Henry P., assignor.)						
American Electric Telephone Company. (See Yaxley, Ernest E., assignor.)						
American Electrical Manufacturing Company. (See Maines, Potter F., assignor.)						
American Elevated Railroad Company. (See Congelton, Osborn, assignor.)						
American Encaustic Tiling Company. (See Alcan, Felix, assignor.)						
American Equipment Company. (See Freymann and Tolman, assignors.)						
American Expansion Pulley Company. (See Temple, Robert, assignor.)						
American Faucet Company. (See Handy, Lucien H., assignor.)						
American Filtering Funnel Company. (See Rudner, Samuel, assignor.)						
American Fire Hose Signal Company. (See Deters, Jerome H., assignor.)						
American Folding Box Company. (See Klein, Moses, assignor.)						
American Frog & Switch Company. (See Harden, Rabbe, and Dempsey, assignors.)						
American Frog & Switch Company. (See Rabbe, Harden, and Dempsey, assignors.)						
American Furnace Company. (See Wilmore, William F., assignor.)						
American Gas Furnace Company. (See Reichhelm, Edward P., assignor.)						
American Graphophone Company. (See Macdonald, Thomas H., assignor.)						
American Hat-Sweat Sewing Machine Company. (See O'Donnell, Edmond G., assignor.)						
American Incandescent Lamp Company. (See Thurnau, George W., assignor.)						
American Interlaced Horse Collar Company. (See Maussner, Friedrich, assignor.)						
American Key Can Company. (See McCall, Francis P., assignor.)						
American Key Can Company. (See Wiedenbauer, Alois, assignor.)						
American Knitting Machine Company. (See Young, William P., assignor.)						
American Lithographic Company. (See Imhof, Joseph A., assignor.)						
American Lithographic Company. (See Pancoast, George E., assignor.)						
American Locomotive Company. (See Player, John, assignor.)						
American Loom Company. (See Harriman, Henry L., assignor.)						
American Loom Company. (See Martin, Fay H., assignor.)						
American Lubricator Company. (See Deare and Leckner, assignors.)						
American Manufacturing Co. (See Hozan, Bertice P., assignor.)						
American Match Machine Company. (See Calkins, Almon B., assignor.)						
American Mechanical Cashier Company. (See Dement, Isaac S., assignor.)						
American Mechanical Cashier Company. (See Dement and Hull, assignors.)						
American Mechanical Cashier Company. (See Dement and King, assignors.)						
American Mechanical Cashier Company. (See Hull, Foster J., assignor.)						
American Mechanical Warp Stop Company. (See Gunniff, John V. and E., assignors.)						
American Metal Hose Company. (See Frankenberg, Frederick G., assignor.)						
American Military Equipment Co. (See Allen, Herbert F. L., assignor.)						
American Mining and Metal Extraction Company. (See Dolbear, Clinton E., assignor.)						
American Motor Carriage Company. (See Winkes, Edward H., assignor.)						
American Motor and Power Company. (See Dougherty, William H., assignor.)						
American Multoscope Company. (See Dickson, William K. L., assignor.)						
American Nut and Bolt Fastener Company. (See Bartley, Milton, assignor.) (Reissue.)						
American Otophone Company. (See Mellett, Lemuel, assignor.)						
American Paper Feeder Company. (See Cross, Frank L., assignor.)						
American Patent Kid Company. (See McKay, Harry C., assignor.)						
American Pedometer Company. (See Kuhn, Edmond, assignor.)						
American Pin Company. (See Rowbottom, George, assignor.)						
American Pneumatic Service Company. (See Cowley, James T., assignor.)						
American Pneumatic Service Company. (See Danley, Willis W., assignor.)						
American Pneumatic Service Company. (See Forslund, Hugo W., assignor.)						
American Pulley Company. (See Brinley, Charles A., assignor.)						
American Pulley Company. (See Zimmermann, John E., assignor.)						
American Road Machine Co. (See Phillips, Edwin S., assignor.)						
American Rubber Works Company. (See Greene, Edgeworth, assignor.)						
American S. enic Railway and Amusement Company. (See Pfutner and Cole, assignors.)						
American Sola Fountain Company. (See Fleische, Hall, and Doherty, assignors.)						
American Sola Fountain Company. (See Lippincott, Fisher H., assignor.)						
American Steam Gage Company. (See Jerauld, William E., assignor.)						
American Steam Heating Specialty Company. (See Atkins, Charles H., assignor.)						
American Steam Heating Specialty Company. (See Davis, James H., assignor.)						
American Steam Heating Specialty Company. (See Serrell, John A., assignor.)						
American Steam Heating Specialty Company. (See Serrell and Donnelly, assignors.)						
American Steam Heating Specialty Company. (See Webster, Warren, assignor.)						
American Steam Pump Company. (See Metcalf, Foster M., assignor.)						
American Steel-Body Double-Bolster Co. (See Floyd, George G., assignor.)						
American Steel-Body Double-Bolster Co. (See McAdam, John V., assignor.)						
American Steel & Wire Company. (See Daniels and Wyman, assignors.)						
American Steel & Wire Company. (See Daniel, Marshall, and Trotz, assignors.)						
American Steel and Wire Company of New Jersey. (See Vaughan, Edwin W., assignor.)						
American Stoker Company. (See Smith, Martin V., assignor.)						
American Sugar Refining Company. (See Mahoudeau, Frederic, assignor.)						
American Sugar Refining Company. (See Niese, Henry E., assignor.)						
American Suspender Company. (See Sherer, Joseph S., assignor.)						
American Telegraphophone Company. (See Pedersen, Peder O., assignor.)						
American Telephone and Telegraph Company. (See Colwell, Edwin H., assignor.)						
American Telephone and Telegraph Company. (See Fell, John M., assignor.)						
American Telephone and Telegraph Company. (See Hulfish, David S., assignor.)						
American Telephone and Telegraph Company. (See Lee and Colpitts, assignors.)						
American Telephone and Telegraph Company. (See Lyons, Joseph, assignor.)						
American Telephone and Telegraph Company. (See Stetson, Almon B., assignor.)						
American Thread Company. (See Ber, Dickerson G., assignor.)						
American Thread Company. (See Miller, George H., assignor.)						
American Tin Plate Company. (See Bray, Charles W., assignor.)						
American Tin Plate Company. (See Phillips, James R., assignor.)						



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American Tin Plate Corporation. (See Bray, Charles W., assignor.)						
American Tobacco Company. (See Harnisch, Karl, assignor.)						
American Tobacco Company. (See Tyberg, Oluf, assignor.)						
American Tobacco Company. (See Williams, George M., assignor.)						
American Tool Works Company. (See Mill, Anton, assignor.)						
American Turbine Engine Company. (See Ingham, Charles R., assignor.)						
American Type Founders' Company. (See Fiske, Wilson, assignor.)						
American Type Founders' Company. (See Ziegler, George H., assignor.)						
American Washboard Company. (See Joeken, Peter J., assignor.)						
American Wireless Telephone and Telegraph Company. (See Ehret, Cornelius D., assignor.)						
American Wireless Telephone & Telegraph Company. (See Shoemaker, Harry, assignor.)						
American Wireless Telephone and Telegraph Company. (See Shoemaker and Pickard, assignors.)						
American Wireless Telephone and Telegraph Company <i>et al.</i> (See Ehret, Cornelius D., assignor.)						
American Wireless Telephone and Telegraph Company <i>et al.</i> (See Pickard, Greenleaf W., assignor.)						
American Wireless Telephone and Telegraph Company <i>et al.</i> (See Shoemaker, Harry, assignor.)						
Amerman, Isaac W., and R. L. Johannes, Nevada, Mo. Invalid reclining chair	701,836	June 10	967	215	99	2327
Ames, Alden T., (See Fulton and Ames.)						
Ames, Alden T., and S. M. Fulton, Galt, Cal.; said Fulton assignor to said Ames. Centrifugal pump	695,871	Mar. 18	2860	648 649 452 453 454	98	2345
Ames, Franklin, Chicago, Ill. Apparatus for displaying samples of carpet, &c	691,431	Jan. 21	2024	453	98	457
Ames, Irving H., Hudson, Mich. Fly-killer	695,189	Mar. 11	1627	361	98	2073
Ames, John F., Portland, Oreg. Bag-making machine	700,451	Sept. 16	2794	629 630	100	2580
Ames, John F., Portland, Oreg. Font of type	715,936	Dec. 16	2489	548	101	2387
Ames, William H., <i>et al.</i> (See Hubbell, Thomas J., assignor.)						
Ames, William H., Watsonville, Cal. Refrigerator-case	700,720	May 27	3143	714	99	1873
Ames, William H., Watsonville, Cal. Refrigerator-case	700,721	May 27	3145	714	99	1874
Amidon, Charles H., Buffalo, N. Y. Steam-cooker	710,552	Oct. 7	304	66	101	61
Ampere Electro-Chemical Company. (See Bradley, Read, and Jacobs, assignors.)						
Ampere Electro-Chemical Company. (See Haft, Max M., assignor.)						
Ampere Electro-Chemical Company. (See Jacobs, Charles B., assignor.)						
Ams, Max. (See Brenzinger, Julius, assignor.)						
Amsden, Charles S., Greenwich, Mass. Convertible tool	699,941	May 13	1580	368	99	1516
Amspacher, Charles E. (See Kelly and Amspacher.)						
Anstutz-Osborn Co. (See Osborn, Henry C., assignor.)						
Amwake, Harry S., Camden, N. J., assignor to C. H. Graham and G. D. Bouton, Philadelphia, Pa. Electrochemical generator	702,760	June 17	2705	621	99	2703
Amwake, Harry S., Camden, N. J., assignor to C. H. Graham and G. D. Bouton, Philadelphia, Pa. Electrochemical generator. (Reissue)	12,019	Aug. 12	2043	456	100	1551
Amwake, Harry S., Camden, N. J., assignor to C. H. Graham and G. D. Bouton, Philadelphia, Pa. Electrochemical generator	707,372	Aug. 19	2614	590	100	1689
Anchise, Cappelletti. (See Alberini, Anchise, and Ganucci-Cancellieri.)						
Anderegg, Christian, Indianapolis, Ind. Wheel-hub	706,008	Aug. 5	3	1	100	1117
Anderegg, David. (See Pillmore and Anderegg.)						
Andersen, Anders C. (See Nielsen and Andersen.)						
Andersen, Johan M., assignor of one-half to A. Anderson, Boston, Mass. Rail-bond	697,962	Apr. 22	2931	647	99	673
Andersen, Johan M., assignor of one-half to A. Anderson, Boston, Mass. Section-insulator	716,978	Dec. 30	4644	1007	101	2879
Andersen, Laurits S. (See Nielsen and Andersen.)						
Anderson, Albert. (See Andersen, Johan M., assignor.)						
Anderson, Albert, Brooklyn, N. Y., assignor to R. H. McClelland and L. E. Sawrie, Nashville, Tenn. Coin-holder	704,731	July 15	2529	547	100	544
Anderson, Albert S., Piqua, Ohio. Card-holder	715,532	Dec. 9	1676	366	101	2196
Anderson, Alexander P., New York, N. Y. Treating starch material	707,892	Aug. 26	3695	830	100	1924
Anderson, Alfred B., assignor to himself and M. I. Schlesinger, New York, N. Y. Automatic pumping mechanism	697,595	Apr. 15	2255	503	99	512
Anderson, Alfred O., Levis, Canada. Safety-envelope	710,731	Oct. 7	637	133	101	130
Anderson, Anders, Quimby, Colo. Calendar	716,166	Dec. 16	2932	644 645	101	2479
Anderson, Anders G., assignor to E. Converse, Worcester, Mass. Bicycle	692,811	Feb. 11	1061	238	98	1041
Anderson, Anders G., assignor to E. Converse, Worcester, Mass. Cap-nut	692,812	Feb. 11	1062	238	98	1041
Anderson, Anders G., assignor to E. Converse, Worcester, Mass. Bicycle	704,288	July 8	1733	376	100	362
Anderson, Andreas, and M. B. S. E. Packness, Denver, Colo. Vaginal injector	705,371	July 22	3339	853	100	846
Anderson, Andrew, Burnett, Cal. Wood-pipe machine	694,452	Mar. 4	221	49	98	1759
Anderson, Andrew, Medo, Minn. Draft-equalizer	707,893	Aug. 26	3698	830	100	1924
Anderson, Andrew, London, assignor to J. Alves, Tunbridge Wells, England. Smoke-consuming apparatus for furnaces	714,434	Nov. 25	3834	848	101	1737
Anderson, Andrew P., assignor of one-half to J. Dahlgren, New York, N. Y. Electric switch	703,515	July 1	254	59	100	51
Anderson, Arthur L., Grundy Center, Iowa. Gripper for platen printing-presses	706,876	Aug. 12	1636	380	100	1431
Anderson-Barngrover Mfg. Co. (See Anderson, William C., assignor.)						
Anderson, Beaver B., Cleveland, Ohio. Coin-case	709,656	Sept. 23	3198	714	100	2685
Anderson, Carl O., assignor to H. Herman, Des Moines, Iowa. Clothes-line reel and stretcher	700,003	May 13	1692	380	99	1536
Anderson, Charles, Chicago, Ill. Garment-fitting device	716,613	Dec. 23	3852	839	101	2688
Anderson, Charles, assignor to S. Inlander, Chicago, Ill. Dish-making machine	696,922	Apr. 8	1022	228 227	99	236
Anderson, Charles A., Pittsburg, Pa. Cage	714,657	Dec. 2	6	2	101	1838
Anderson, Charles A., E. A. Erickson, and J. Wickstrom, assignors to Chicago Motorcycle Company, Chicago, Ill. Combined hot-air and gas engine	714,352	Nov. 25	3684	812	101	1708
Anderson, Charles A., E. A. Erickson, and J. Wickstrom, assignors to Chicago Motorcycle Company, Chicago, Ill. Combined hot-air and gas engine	714,353	Nov. 25	3689	812 813	101	1709
Anderson, Charles A. M., London, England. Garment-stretcher	698,887	Apr. 29	4773	1049	99	1080
Anderson, Charles J. (See Patenaude and Anderson.)						
Anderson, Charles M., Minneapolis, Minn. Combined billiard and dining table	693,679	Feb. 18	2782	612	98	1417
Anderson, Charles O., Anaconda, Mont. Money arm-band	710,732	Oct. 7	639	133	101	130
Anderson, Charles W., assignor of one-half to W. W. Wood, Los Angeles, Cal. Ironing-machine	694,906	Mar. 4	1092	241	98	1943
Anderson, Claude O., Los Angeles, Cal. Combined easement and point-protector	696,320	Mar. 25	3558	796	98	2501

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Anderson, D. F., <i>et al.</i> (See Armstrong, George A., assignor.)						
Anderson, David W., Richmond, Va. Combined brick and tile for walls, &c.	707,815	Aug. 26	3539	798	100	1893
Anderson, Edward. (See Christopher, James B., assignor.)						
Anderson, Edward L., assignor to J. A. Gilliam, trustee, St. Louis, Mo. Chemical generator of electricity	706,681	Aug. 12	1219	270	100	1378
Anderson, Edward L., assignor to J. A. Gilliam, trustee, St. Louis, Mo. Purifying aluminum	716,977	Dec. 30	4643		101	2870
Anderson, Edward W. (See Hosmer and Anderson.)						
Anderson, Edward W., <i>et al.</i> (See Cullen, Orlan C., assignor.)						
Anderson, Emanuel, Somerville, assignor to A. L. Wood, Boston, Mass. Car-ventilator	697,135	Apr. 8	1398	311	99	317
Anderson, Ernest D., New York, N. Y. Gas-lighter	698,437	Apr. 29	3800	839	99	869
Anderson, Frank A. (See Cantrell, William B., assignor.)						
Anderson, Frank C., assignor of two-thirds to G. W. Zapf and G. P. Giltz, Cincinnati, Ohio. Railway-rail joint	700,714	May 20	3125	710	99	1853
Anderson, Frank C., assignor of one-half to A. E. Lloyd and G. P. Giltz, Cincinnati, Ohio. Frog-operating mechanism	703,035	June 24	3233	743	99	2827
Anderson, Frank E., New York, N. Y. Means for cashing sales accounts	704,168	July 8	1506		100	317
Anderson, Frank H., Walhalla, N. D. Pedal-balance	701,245	May 27	4192		99	2076
Anderson, Frank O., Jamestown, N. Y. Drawer-support	702,889	June 17	1997	456	99	2355
Anderson, Frank S., Easton, Md. Stair-rod	715,937	Dec. 16	2499	549	101	2388
Anderson, Fred A., and A. A. Brown, Rawlins, Wyo.; said Anderson assignor to said Brown. Automatic signal and alarm	712,892	Nov. 4	806	187	101	1062
Anderson, George. (See De Cew, Cortland, assignor.)						
Anderson, George H., J. W. Stevens, and A. Lutz, assignors to United States Sanitary and Utility Sewage Disposal Company of New Jersey, New York, N. Y. Sewage-disposal plant	701,827	June 10	968	215 216	99	2327
Anderson, Gus W., Bloomington, Ill. Sash-lock	694,816	Mar. 4	917	205	98	1906
Anderson, Gustaf B., Chicago, Ill. Pneumatic motor	706,004	Aug. 5	3	1, 2	100	1117
Anderson, Gustave E., assignor to Fairmount Machine Company, Philadelphia, Pa. Automatic slack-cable stop mechanism for power-elevators	696,231	Mar. 25	3559	797	98	2501
Anderson, Gustave E., assignor of one-half to Fairmount Machine Company, Philadelphia, Pa. Self-closing elevator-gate	698,385	Apr. 22	3722	823	99	837
Anderson, Hakon. (See Scott and Anderson.)						
Anderson, Hannah, Elgin, Ill. Garment-stretcher	692,101	Jan. 28	3277	741	98	729
Anderson, Homer, assignor of two-thirds to C. W. McCutchen, Peekskill, and A. H. Elliott, Flushing, N. Y. Water-heater	714,354	Nov. 25	3693	818	101	1710
Anderson, Hugh, assignor of one-half to C. C. Lawson, Wellsville, Ohio. Nut-lock	705,812	July 29	4812	104	100	1094
Anderson, Huldah, <i>et al.</i> (See Nilson, Lars G., assignor.)						
Anderson, Isaac, Saginaw, Mich. Steam-whistle	712,293	Oct. 28	3541	776	101	780
Anderson, Isaac N., Bettie, Tex. Mop-holder	693,773	Feb. 18	2944	648	98	1451
Anderson, Jacob S., Brooklyn, N. Y. Station-indicator	709,298	Sept. 16	2475	557 558	100	2522
Anderson, James A., Brooklyn, assignor of one-half to W. A. Price, New York, N. Y. Water-tube boiler	692,223	Feb. 4	1	1	98	799
Anderson, James A., and C. M. Hollingsworth, Ottawa, Ill., assignors of one-third to J. R. Johnston, Hartford City, Ind. Glass flattening and annealing apparatus	694,711	Mar. 4	715	157 158	98	1863
Anderson, James C., Highland Park, Ill. Liquid-meter	711,191	Oct. 14	1539	330 331 332	101	335
Anderson, James C., Highland Park, Ill. Liquid-meter	711,192	Oct. 14	1541	332 333	101	335
Anderson, James C., Highland Park, Ill. Spectacle-frame	715,533	Dec. 9	1677	366	101	2196
Anderson, James V., Clarkson, Nebr. Wire-stretcher	700,285	May 20	2294	523	99	1680
Anderson, James W. (See Bristol, Horace F., assignor.)						
Anderson, John. (See Day and Anderson.)						
Anderson, John. (See Norstrom, Nils E., assignor.)						
Anderson, John, assignor to Draper Company, Hopedale, Mass. Gear-molding apparatus	698,618	Apr. 29	4182	923 924	99	946
Anderson, John, assignor to Draper Company, Hopedale, Mass. Molding-machine	718,047	Nov. 11	1091	253	101	1137
Anderson, John A. (See Patenaude and Anderson.)						
Anderson, John A., Munson, Ill. Planter	698,349	Apr. 22	3655	808	99	823
Anderson, John A., Wauneta, Nebr. Guard for barb-wire fences	715,738	Dec. 16	2058	460	101	2294
Anderson, John C. (See Sackett, Edward A., assignor.)						
Anderson, John C. (See Sackett, Anderson, and Betts.)						
Anderson, John E., assignor of one-half to U. J. Beumee, Muskegon, Mich. Type-writer cabinet	705,509	July 22	4190	911	100	895
Anderson, John H., Littlefalls, Minn. Bob-sled	714,435	Nov. 25	3835	849	101	1738
Anderson, John W., Lancaster, Pa. Damper	691,736	Jan. 28	2587	580	98	589
Anderson, Lee, assignor of one-half to H. S. Bettis, Paris, Tex. Nursing-bottle	714,552	Nov. 25	4045	895	101	1780
Anderson, Louis C. (See Weis and Anderson.)						
Anderson, Louis F., Quincy, Ill. Trousers-former	704,811	July 15	2703	584 585	100	578
Anderson, Mildred, Olyphant, Pa. Hose-supporter	697,596	Apr. 15	2258	503	99	512
Anderson, Mont. (See Levy and Anderson.)						
Anderson, Neal L., Montgomery, Ala. Type-writer	695,779	Mar. 18	2686	610 611	98	2308
Anderson, Nils F., Conway, Kans. Rail-joint	711,456	Oct. 21	2040	442	101	453
Anderson, O. E., <i>et al.</i> (See Dahlén, Andrew, assignor.)						
Anderson, Oscar, Kearney, N. J. Milk-testing bottle	710,533	Oct. 7	306	67	101	61
Anderson, Oscar, Iron Mountain, Mich. Storing or shipping vessel	712,234	Oct. 28	3543	776	101	781
Anderson, Oscar H., Stockholm, Sweden, assignor, by mesne assignments, to Silicate Brick Syndicate, Montreal, Canada. Manufacture of artificial stone or brick and the preparation of lime therefor	702,611	June 17	2427		99	2645
Anderson, Richard R., Albion, Iowa. Educational chart and support therefor	710,653	Oct. 7	492	103	101	99
Anderson, Robert S., Toronto, Canada. Machine for cutting cork disks	691,432	Jan. 21	2029	434	98	457
Anderson, Robert S., Toronto, Canada. Bicycle-motor	710,381	Oct. 7	835	181	101	170
Anderson, Samuel C. (See Griffin and Anderson.)						
Anderson, Sary E., Xenia, Ohio. Corn-harvester	695,023	Mar. 11	1323	292	98	2009
Anderson, Stewart D., <i>et al.</i> (See Ross, Delmar G., assignor.)						
Anderson, Theodore, Junction, N. J. Automatic oscillating skid or support for razor-hones	694,229	Feb. 25	3835	849 850	98	1646
Anderson, Theodore, Junction, N. J. Envelop-opener	694,817	Mar. 4	919	205	98	1906
Anderson, Theodore M., New Whatcom, Wash. Clothes-drier	696,128	Mar. 25	3365	759	98	2494
Anderson, Theodore M., New Whatcom, Wash. Heating-stove	697,428	Apr. 15	1967	435	99	454
Anderson, Tury E., assignor to D. P. McDonald, Denver, Colo., and Fairbanks, Morse & Co., Chicago, Ill. Automatic bucket-dumping mechanism	713,932	Nov. 18	2844	631 632	101	1516
Anderson, William, Ballard, assignor of one-half to A. Holman, Seattle, Wash. Stump-puller	710,360	Dec. 23	3326	727	101	2576



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Anderson, William B., Pontiac, Mich. Account-file.....	698,350	Apr. 22	3658	808	99	824
Anderson, William C., Detroit, Mich. Seat for water-closets.....	706,791	Aug. 12	1539	315	100	1417
An Ierson, William C., assignor to Buckley-Hart Manufacturing Company, Detroit, Mich. Hose-mender.....	690,819	Jan. 7	872	192	98	184
Anderson, William C., assignor, by mesne assignments, to Anderson-Barngrover Mfg. Co., San Jose, Cal. Fruit-grader.....	703,887	July 1	941	206	100	189
Anderson, William G., assignor of one-half to P. Bigelow, Boston, Mass. Saw.....	709,857	Sept. 30	3585	808	100	2779
Anderson, William R. (See Choate, Charles N., assignor.)						
Andersson, Gustaf L. (See Kjellman and Andersson.)						
Andersson, Hjalmar E., Stockholm, Sweden. Electric clock.....	708,112	Sept. 2	205	49	100	2024
Andersson, Sven P. A., Backasands back, Ödeshög, Sweden. Churn.....	694,126	Feb. 25	3640	805	98	1609
Andlauer, Raymond. (See Fink and Andlauer.)						
André, William E., assignor to Nelson & Kreuter, Chicago, Ill. Mangle.....	702,687	June 17	2565	589	99	2674
Andres, George S., assignor to Octomobile Company, San Francisco, Cal. Multiple-cylinder explosive-engine.....	706,711	Aug. 12	1303	304	100	1411
Andress, Bert E., Port Allegany, Pa. Device for delivering train-orders.....	694,453	Mar. 4	225	49	98	1760
Andrew, Alexander G., Calumet, Mich. Furnace-grate.....	705,191	July 22	3516	763	100	763
Andrew, Barnet, <i>et al.</i> (See Andrew, Oren, assignor.)						
Andrew, Oren, Townsend, assignor of one-half to B. Andrew and C. H. Lockwood, Monterey, N. Y. Wire-strutcher.....	711,651	Oct. 21	2406	530	101	530
Andrew, Thomas, Richmond, and T. K. Bellis, London, England. Manufacturing steel.....	695,264	Mar. 11	1770		98	2102
Andrew, Walter E. (See Saylor, Franklin G., assignor.)						
Andrews, Arthur H., Elmira, N. Y. Fire-escape.....	693,065	Feb. 11	1619	353	98	1158
Andrews, Arthur H., and E. I. Morrison, Harrisburg, Pa. Lace-fastener.....	697,064	Apr. 8	1292	287	99	293
Andrews, Curt C. (See Fisher, Charles A., assignor.)						
Andrews, Frank O., Christchurch, New Zealand. Potato-digging machine.....	704,169	July 8	1510	923	100	317
Andrews, George E., Providence, R. I. Automatic cut-out.....	707,894	Aug. 26	3700	831	100	1924
Andrews, Harvey T. (See Snyder, Ward B., assignor.)						
Andrews, Jacob R., Bath, Me. Combined windlass and warping-winch.....	696,394	Apr. 1	4	1	99	3
Andrews, Jacob R., assignor to Hyde Windlass Company, Bath, Me. Windlass and capstan and means for driving same.....	695,994	Mar. 25	3082	699	98	2403
Andrews, James C., assignor to Bay State Corset Co., Springfield, Mass. Corset.....	698,166	Apr. 22	3340	730	99	756
Andrews, John and S. Belfast, Ireland. Aging and bleaching flour.....	693,207	Feb. 11	1800	408	98	1211
Andrews, John and S. Belfast, Ireland. Aging and bleaching flour.....	698,240	Apr. 22	3482	766	99	787
Andrews, John M., <i>et al.</i> (See Wever, La Fayette T., assignor.)						
Andrews, John M., Andrews, Tenn., assignor of two-fifths to A. P. and C. P. Roberts, Pneumatic straw-stacker. (Reissue).....	11,994	May 27	4190	961	99	2088
Andrews, John T., <i>et al.</i> (See Gasper, Frank W., assignor.)						
Andrews, Peter. (See Nisbett and Andrews.)						
Andrews, Sydney. (See Andrews, John and S.)						
Andriano, Albert K., San Francisco, Cal. Secret-service telephone system.....	698,386	Apr. 22	3723	823	99	837
Andriano, Albert K., assignor to Automatic Interconnecting Telephone Company, San Francisco, Cal. Switching mechanism for interconnecting telephone-lines.....	692,189	Jan. 28	3423	775	98	760
Andriano, Albert K., and H. Herbstritt, assignors to Automatic Interconnecting Telephone Company, San Francisco, Cal. Individual telephone switch and lock-out mechanism for interconnecting lines.....	691,229	Jan. 14	1598	365	98	348
Andros, Randall B., assignor of one-half to C. A. Rideout, Boston, Mass. Automatic corkscrew.....	701,791	June 3	911	203	99	2298
Androvette, George E., Brooklyn, N. Y. Prism-glass for skylights.....	705,372	July 22	3941	854	100	846
Angell, Edmund R., Derry, N. H. Acetylene-gas generator.....	714,125	Nov. 25	3222	711	101	1615
Angell, Hans, and T. Berntson, assignors of one-third to V. J. Evans, Washington, D. C. Firearm.....	696,294	Mar. 25	3689	825	98	2529
Angell, Hans, and T. Berntson, assignors of one-third to V. J. Evans, Washington, D. C. Cartridge.....	696,295	Mar. 25	3692	826	98	2530
Angell, John, St. Louis, Mo. Drainage system for steam plants.....	690,546	Jan. 7	343	69.70	98	71
Angell, John, St. Louis, Mo. Heater and separator for steam-generating plants.....	696,296	Mar. 25	3694	826	98	2530
Angell, John, St. Louis, Mo. Purge-feeding apparatus for steam plants.....	704,469	July 8	2059	446	100	433
Angell, John, St. Louis, Mo. Steam-separator.....	710,654	Oct. 7	494	103	101	100
Angell, John, St. Louis, Mo. Steam-separator.....	710,655	Oct. 7	496	104	101	101
Angell, Joseph P., Pine Bluff, Ark. Jewelry-display tray.....	702,853	June 17	2873	664	99	2728
Anger, John E. (See Stanley and Anger.)						
Anger, Walter A. (See Brackley and Anger.)						
Angerer, Victor, Ridley Park, assignor to William Wharton, Jr., & Company, Incorporated, Philadelphia, Pa. Railway-track structure.....	713,333	Nov. 19	2848	632	101	1517
Angerer, Victor, and E. Samuel, deceased; W. Selfridge, executor, Philadelphia, Pa. Railway-track structure.....	693,210	Feb. 11	1898	410	98	1213
Angers, Joseph N. (See Walsh and Angers.)						
Angle, John W., Nevada, Mo. Wire-gripper.....	711,372	Oct. 14	1877	110	101	406
Angle, William, Milford, Pa. Axle-gage.....	691,999	Jan. 28	3085	693	98	691
Anilin Colour and Extract Works, formerly John R. Geigy. (See Ris, Christopher, assignor.)						
Aniline Colour and Extract Works, formerly John R. Geigy. (See Sandmeyer, Traugott, assignor.)						
Ank, George A., Mount Carroll, Ill. Folding table, shelf, or desk.....	701,666	June 3	801	155	99	2255
Annable, George A. (See Storm, Edwin R., assignor.)						
Annable, Warren W., assignor to Appliance Company, Limited, Grand Rapids, Mich. Trolley-wheeler.....	708,451	Sept. 2	810	185	100	2146
Annan, Roger P. (See Rawlings, Budd M., assignor.)						
Annett, Archie D. (See McIntyre, Samuel, assignor.)						
Anrep, Aleph, Moscow, Russia. Life-boat.....	690,685	Jan. 7	607	132	98	129
Anshutz, Frank, Allegheny, assignor to J. C. Bartlett Company, Pittsburg, Pa. Stove, range, &c.....	702,274	June 10	1777	406	99	2191
Ansley, John D., Everett, Mass., assignor, by mesne assignments, to Allston Foundry Company, Sash-weight.....	705,992	July 29	5131	1119	100	1099
Ansley, Joseph, Scranton, Pa. Vinegar-faucet.....	712,353	Oct. 28	3747	819	101	823
Ansley, William A., Branchport, N. Y. Combined planter, cultivator, and harrow.....	710,832	Oct. 7	836	181	101	170
Anslinger, Eugene L., Milwaukee, Wis. Printer's quoin.....	711,633	Oct. 14	1298	285	101	206
Ansonia Electrical Company. (See Spencer, Albert F., assignor.)						
Anthony, Daniel E., assignor of one-half to E. E. Mellen, Akron, Iowa. Corn-harvester. (Reissue).....	12,014	Oct. 11	2033	440	101	438
Anthony, Edgar W. (See Rollins, Charles H., assignor.)						
Anthony, Edgar W., Brookline, Mass. Cooking stove or range.....	693,343	Feb. 11	2124	467	98	1293



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Anthony, Edgar W., Brookline, assignor to Smith and Anthony Company, Boston, Mass. Cooking stove or range	698,096	Feb. 11	1622	354	98	1159
Anthony, Edgar W., Brookline, assignor to Smith and Anthony Company, Boston, Mass. Stove-shelf	696,896	Apr. 1	969	217	99	205
Anthony, Mark, New York, N. Y., assignor, by mesne assignments, to Diamond Match Company. Printing-press	705,631	July 29	4485	973 974	100	968
Anthony, Mary. (See Northrop, Herbert N., assignor.)						
Anthony & Scovill Company. (See Mathehn, Josef, assignor.)						
Anthracite Separator Company. (See Rice, James N., assignor.)						
Antiaqua Company. (See Mann, Henry A., assignor.)						
Antisale, Edwin S., Chicago, Ill. Bookholder	702,761	June 17	2706	621	99	2703
Antisdel, Egbert M. (See Watkins, Henry, assignor.)						
Antisdel, Egbert M., assignor to Foster Bros. Manufacturing Company, Utica, N. Y. Bed-coupling	710,733	Oct. 7	639	183	101	131
Anton, Paul R., Topeka, Kans., assignor to Topeka Tent and Awning Company. Foldable stool	705,893 706,311	July 29 Aug. 5	4955 400	1078 85	100	1063 1198
Appel, Rudolph H., Boston, Mass. Trolley-wheel						
Apollo Acetylene Gas Company. (See Caldwell, Charles W., assignor.)						
Appel, Daniel, Cleveland, Ohio, assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper-bag machine	699,639	May 13	983	225 226 230	99	1392
Appel, Daniel, Cleveland, Ohio, assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper-bag-making appliance	700,467	May 20	2656	608	99	1753
Appel, Daniel, Cleveland, Ohio, assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper-bag-delivery device	700,722	May 27	3146	715	99	1874
Appel, Daniel, Cleveland, Ohio, assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Making paper bags	708,001	Sept. 2	1	1	100	1841
Appel, Daniel, Cleveland, Ohio, assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper-bag machine	712,633	Nov. 4	324	76, 77	101	965
Appert Glass Company. (See Appert, Leon, assignor.)						
Appert, Léon, Paris, France. Roller for rolling and ornamenting sheet or plate glass	697,229	Apr. 8	1582	354	99	355
Appert, Léon, Paris, France, assignor to Appert Glass Company. Machine for making glass plates	710,032 697,963	Sept. 30 Dec. 2	9499 2983	891 647	100	2853 974
Apple, Vincent G., Dayton, Ohio. Magneto-electric generator	715,336	Dec. 9	1314	281	101	2124
Apple, Vincent G., Dayton, Ohio. Machine for packing pulverulent and mastic substances						
Apple, Vincent G., Dayton, Ohio, assignor to Dayton Electrical Manufacturing Company. Electric igniting device for explosion-engines	696,297	Mar. 25	3697	827	98	2531
Apple, Vincent G., Dayton, Ohio, assignor to Dayton Electrical Manufacturing Company. Electric igniter for gas-engines	696,298	Mar. 25	3699	827	98	2531
Apple, Vincent G., assignor to Dayton Electrical Manufacturing Company, Dayton, Ohio. Speed-regulator	698,888	Apr. 29	4774	1049	99	1080
Appleby, David, Jr., Wilmington, Del. Clay-mixer	692,774	Feb. 4	980	223	98	987
Appleby, Ernest L., Bradford, Pa. Revolving phonograph-record case	692,411	Feb. 4	332	80, 81	98	809
Appleby, James P., Hopkins, Minn. Molding-machine	707,535	Aug. 26	2927	662 663	100	1770
Appleby, John F., Chicago, Ill. Mower	698,167	Apr. 22	3341	730 731	99	757
Appleby, John F., Chicago, Ill. Automatic grain-binder	708,002	Sept. 2	3	1, 2	100	1981
Appleby, John F., assignor to Deering Harvester Company, Chicago, Ill. Automatic grain-binder	697,429	Apr. 15	1968	435 436	99	454
Appleby, John F., Chicago, assignor to Harvester King Company, Harvey, Ill. Reaping-machine	701,251	May 27	4133	951	99	2077
Applegate, John M., Indianapolis, Ind. Elevator and carrier	694,818	Mar. 4	920	205	98	1906
Appleton, Charles J., Long Island City, assignor, by mesne assignments, to J. J. Shaw, trustee, Mamaroneck, N. Y. Knitting-machine	691,888	Jan. 28	2881	648 649 650 651	98	652
Appleyard, William P., New Haven, Conn., assignor to Metal Plated Car and Lumber Company. Machine for covering strips of timber with metal	700,468	May 20	2659	608 609	99	1753
Appliance Company. (See Annable, Warren W., assignor.)						
Arana, Victor M., Notre Dame, Ind. Table-desk	695,132	Mar. 11	1539	340	98	2054
Arbenz, Frederick A., Hoboken, N. J. Necktie	708,192	Sept. 2	363	86	100	2055
Arbeter, Wolf, Chelsea, Mass. Sewing-machine for felling	690,385	Jan. 7	1	1	98	3
Arbogast, Charles V. (See Arbogast, John L. C. V., F. J., P. R., and F. L.)						
Arbogast, Francis J. (See Arbogast, John L. C. V., F. J., P. R., and F. L.)						
Arbogast, Frederick L. (See Arbogast, John L. C. V., F. J., P. R., and F. L.)						
Arbogast, John L. C. V., F. J., P. R., and F. L., Pittsburg, Pa. Manufacturing hollow glassware	699,058	Apr. 29	5050	1117	99	1138
Arbogast, Philip R. (See Arbogast, John L. C. V., F. J., P. R., and F. L.)						
Archambeault, Arthur L., Stockton, Cal. Winker-stay fastener and holder	696,538	Apr. 1	250	56 429	99	57
Archambeault, Joseph E., South Bend, Ind. Adjustable chair	711,412	Oct. 14	1941	423	101	419
Archer, Capelle H., assignor of one-half to H. S. Winston, Richmond, Va. Dado-cutter	708,751	Sept. 9	1362	310	100	2271
Archer, Gaines B., Birmingham, Ala. Oil-can	699,059	Apr. 29	5052	1117	99	1138
Archer, George E., Nutley, N. J. Time damper mechanism	706,373	Aug. 5	737	160	100	1265
Arcioni, Vittorio, Spoleta, assignor to C. Olivetti, Ivrea, Italy. Electrical measuring instrument	700,111	May 13	1882	438	99	1574
Arcioni, Vittorio, Stoleta, assignor to C. Olivetti, Ivrea, Italy. Wattmeter	713,934	Nov. 18	2849	633 632	101	1517
Ardiszone, Thomas, assignor to J. Murphy, Brooklyn, N. Y. Prepared sealing-wax	709,132	Sept. 16	2155	494	100	2454
Aregood, John W., assignor of one-half to P. J. Sexton, Chicago, Ill. Brick-drier	693,359	Feb. 18	2159	474 475	98	1289
Arendell, Andrew J., Sparta, Tenn. Envelop	709,952	Sept. 30	3795	856	100	2818
Argles, Augustus C., Wimbledon, England. Exhibiting device	708,553	Sept. 9	1586	362 363	100	2321
Ariens, Henry, and J. Thompson, Brillion, Wis. Pulverizer	695,024	Mar. 11	1326	293	98	2010
Arkell, Bartlett, assignor to Beech-Nut Packing Company, Canajoharie, N. Y., W. A. Lorenz, and W. H. Honiss, Hartford, Conn. Jar-sealing apparatus	711,413	Oct. 14	1943	423	101	419
Arkell Safety Bag Company. (See Blanchard, Francis L., assignor.)						
Arkland, George W., assignor to Warnica Company, Rochester, N. Y. Photographic-plate holder	717,313	Dec. 30	5282	1148	101	8017
Arlender, Fritz, New York, N. Y. Refining resins, oils, or fats	696,322	Mar. 25	3560	797	98	2501
Arlender, Fritz, New York, N. Y., and H. Arlderter, Garston, England. Making resin size	701,125	May 27	3916	900	99	2034
Arlender, Herman. (See Arlderter, Fritz and H.)						
Arlington Company. (See Schultz, Emmet, assignor.)						
Armeny, Gyulo, New York, N. Y. Diamond-cross-cutting machine	697,280	Apr. 8	1583	354	99	355

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Armitage, Albert, Fairport, assignor to Ontario Drill Company, Despatch, N. Y. Grain-drill.	694,598	Mar. 4	503	109 110	98	1819
Armour & Company. (See Kirby, Thomas B., assignor.)						
Armour & Company. (See Sharp, William E., assignor.)						
Armour & Company. (See Steinhäuser, Elliott, assignor.)						
Armour, James A., Sedgwick, Kans. Wire stretcher and cutter.	696,395	Apr. 1	4	1	99	3
Armstrong, Albert H., Schenectady, N. Y., assignor to General Electric Company. Armature-winding for induction-motors.	706,508	Aug. 12	1007	221	100	1335
Armstrong, Albert H., Schenectady, N. Y., assignor to General Electric Company. Armature-winding for induction-motors.	706,632	Aug. 12	1230	271	100	1379
Armstrong, Albert H., Schenectady, N. Y., assignor to General Electric Company. Protective system.	714,355	Nov. 25	3695	813	101	1710
Armstrong, Benjamin L. (See Wilde, Henry, assignor.)						
Armstrong Bros. Tool Co. (See Welter and Armstrong, assignors.)						
Armstrong, Charles C., Columbus, Ohio. Sealing attachment.	704,493	July 15	2112	457	100	457
Armstrong, Charles G., Chicago, Ill., assignor, by mesne assignments, to Automatic Heating Company, Jersey City, N. J. Regulating heating systems.	716,361	Dec. 23	3328	727	101	2576
Armstrong, Charles M., Hopkinsville, Ky. Tobacco-steamer.	702,123	June 10	1518	942 943	99	2439
Armstrong, David G., Akron, Ohio. Cuff-holder.	710,734	Oct. 7	641	133	101	131
Armstrong, Edward, Brooklyn, N. Y. Necktie-holder.	711,812	Oct. 21	2730	604	101	559
Armstrong, Edwin J., Erie, Pa. Governor.	700,004	May 13	1694	389	99	1536
Armstrong, Edwin J., Erie, Pa. Valve mechanism.	701,667	June 3	703	155	101	2255
Armstrong, Ernest, Camden, N. J., assignor to Universal Car Journal Oilier Company. Oilier for car-journals.	714,272	Nov. 25	3540	778	101	1681
Armstrong, Ernest P., Colorado Springs, Colo. Sash-lock.	708,611	Sept. 9	1097	246 408 410	100	2314
Armstrong, Frank H., Auburn, N. Y. Type-writer.	693,208	Feb. 11	1891	409	98	1211
Armstrong, Frederick M., Pawtucket, R. I., and J. A. Clark, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Electric filling-changing mechanism for looms.	695,363	Mar. 11	1938	492	98	2136
Armstrong, George A., assignor of two-thirds to D. F. Anderson and D. P. Cooper, Youngstown, Ohio. Automatic card-serving machine.	714,553	Nov. 25	4046	895 880 881	101	1780
Armstrong, Harry Y., Elgin, Ill. Caramel cutting and wrapping machine.	691,737	Jan. 28	2590	583 584 585 461 462 463 464 465	98	589
Armstrong, Harry Y., Hanna City, Ill., assignor, by mesne assignments, to National Biscuit Company, Jersey City, N. J., and Chicago, Ill. Machine for cutting and wrapping caramels.	715,739	Dec. 16	2059	442	101	2294
Armstrong, James, Kansas City, Mo. Vault-cover.	711,457	Oct. 21	2041	442	101	453
Armstrong, John. (See Welter and Armstrong.)						
Armstrong, John, London, England. Apparatus for obtaining zinc or other volatile metals from ores or mattes.	701,457	June 3	313	69	99	2174
Armstrong, John, London, England. Obtaining zinc or other volatile metals from ores or mattes.	701,458	June 3	315	69	99	2174
Armstrong, John, London, England. Furnace or forge.	705,312	July 22	3767	823	100	818
Armstrong, John, London, England. Smelting and refining volatile metals.	713,043	Nov. 4	1074	250	101	1115
Armstrong, John E., Santa Cruz, Cal. Life-preserver.	715,938	Dec. 16	2492	549	101	2388
Armstrong, Peter M. (See Stainton, Armstrong, and Prowse.)						
Armstrong, Robert G. (See Larsen, Ivert, assignor.)						
Armstrong, Thomas F. (See Noll, Arthur B., assignor.)						
Armstrong, Thomas S., North Plainfield, N. J. Cooling appliance.	700,005	May 13	1694	390	99	1537
Armstrong, Walter S., Ruthven, Iowa. Package fastener and seal.	698,619	Apr. 29	4186	924	99	946
Armstrong, William, and W. R. O. Chambers, Gateshead, England. Combined photo-printing and vignetting frame.	699,739	May 13	1174	273	99	1428
Armstrong, William B., San Francisco, Cal. Electric log-register.	703,601	July 1	503	131 132	100	117
Armstrong, William T., San Jose, Cal. Apparatus for assaying ores.	697,774	Apr. 15	2592	375	99	580
Arn, John, Columbus, Ohio. Beistead.	713,374	Nov. 11	1778	400	101	1378
Arndt, Louis, Jersey City, N. J. Former for air-chambers for dental plates.	691,092	Jan. 14	1358	398	98	238
Arndt, Max, Aix-la-Chapelle, Germany. Apparatus for measuring and recording oscillating movements of bodies.	693,990	Feb. 25	3401	747 748	98	1560
Arndt, Max, Aix-la-Chapelle, Germany. Instrument for indicating the pressure of gas.	703,753	July 1	698	154	100	139
Arndt, Max, Aix-la-Chapelle, Germany. Air or vacuum motor.	714,273	Nov. 25	3541	779	101	1681
Arner, Calvin E. (See Arner, Joseph and C. E.)						
Arner, Harry W., and C. M. Goodwin, Culpeper, Va. Cake cooker and turner.	702,325	June 17	2255	513	99	2610
Arner, Joseph and C. E., Weissport, assignors to Keyless Lock Company, Lehigh, Pa. Permutation-lock.	698,781	Apr. 29	4188	998	99	1022
Arnhold, Robert, Cleveland, Ohio. Hernial truss.	694,599	Mar. 4	508	110	98	1821
Arns, Henry. (See Atchison, Samuel H., assignor.)						
Arns, McKenzie, Bristol, Va. Mineral compound.	703,516	July 1	255	100	51	
Arns, McKenzie, assignor to M. B. McKinney, Glade Spring, Va. Artificial granite.	691,711	Jan. 21	2529	98	502	
Arno, Riccardo, Milan, Italy. Filament for incandescent electric lamps known as Nerst lamps.	713,586	Nov. 18	2188	487	101	1377
Arnold, Anna M. (See Arnold, Satterlee, assignor.)						
Arnold, Benjamin F., C. B., and C. D., Dayton, Ohio. Keying-clamp for flooring or siding.	701,784	June 3	890	300	99	2206
Arnold, Carolus, Hamburg, Germany. Illuminated watch-box.	712,112	Oct. 28	3324	729	101	736
Arnold, Carroll B. (See Arnold, Benjamin F., C. B., and C. D.)						
Arnold, Charles, assignor to J. E. Macdonald, Chicago, Ill. Mat-cutter.	701,828	June 10	971	217	99	2328
Arnold, Clayton D. (See Arnold, Benjamin F., C. B., and C. D.)						
Arnold, Cyrus M., assignor of two-thirds to L. S. Wilborne and J. Brown, Nursery, Tex. Baling-press.	701,783	June 3	900	200 201	99	2207
Arnold, Cyrus M., assignor of three-fourths to O. L. Lozano and J. A. Arnold, Nursery, Tex. Draft appliance.	710,833	Oct. 7	838	182 183	101	171
Arnold, David B., Terra Haute, Ind. Drive-gear for traction-engines.	705,894	July 29	4957	1078 1079	100	1063
Arnold, David B., assignor of one-half to E. Ellis, Terra Haute, Ind. Ratchet-wrench.	702,762	June 17	2768	623	99	2704
Arnold, Engelbert, O. S. Bragstad, and J. L. La Cour, Karlsruhe, Germany. Distributing electric currents.	717,065	Dec. 30	4813	1043	101	2916
Arnold, Engelbert, O. S. Bragstad, and J. L. La Cour, Karlsruhe, Germany. Generating independent electric currents.	717,152	Dec. 30	4972	1078	101	2950



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Arnold, Francis C., Canton, Ohio. Nut-lock.....	713,585	Nov. 18	2187	487	101	1877
Arnold, Frank K., Everett, assignor to Carter, Rice & Company, Corporation, Boston, Mass. Die for cutting cards from paper-stock.....	711,752	Oct. 21	2614	575	101	575
Arnold, Frederic E., Salt Lake City, Utah. Device for arresting runaways.....	702,375	June 10	1779	406	99	2491
Arnold, Harry B., New Britain, Conn. Apparatus for agitating and separating articles.....	716,979	Dec. 30	467	1007	101	2880
Arnold, Harry H., assignor of one-half to F. Bauer, Cincinnati, Ohio. Hose-protector for railway-tracks.....	714,126	Nov. 25	3224	712	101	1616
Arnold, Henry B., assignor of one-half to M. L. Taul, Midland, Tex. Double-acting cylinder-pump.....	698,387	Apr. 22	3727	824	99	838
Arnold, George W., and W. M. Cranston, assignors of one-third to J. E. Lutz, Philadelphia, Pa. Cigar-bunch-rolling machine.....	707,536	Aug. 26	2929	663	100	1770
Arnold, James A., Allegheny, Pa. Apparatus for forming glass articles.....	705,813	July 29	4813	1045 (1046)	100	1034
Arnold, James A., Allegheny, Pa. Valve.....	710,735	Oct. 7	641	184	101	131
Arnold, James M. (See Donne, Emma, assignor.)						
Arnold, John A., et al. (See Arnold, Cyrus M., assignor.)						
Arnold, John M. (See Cannon and Arnold.)						
Arnold, Julius, Bradshaw, Canada. Fly-trap.....	714,992	Dec. 2	689	144	101	1974
Arnold, Lewis T., St. Louis, Mo. Marking-tag.....	699,302	May 6	441	101	99	1265
Arnold, Lucius F., assignor to Mossberg & Granville Manufacturing Company, Providence, R. I. Roller-bearing.....	698,351	Apr. 22	3660	809	99	824
Arnold, Philip C., assignor to Blevin Brothers Manufacturing Company, East Hampton, Conn. Bell.....	708,332	June 24	3770	868	99	2937
Arnold, Satterlee, assignor to A. M. Arnold, Verona, N. J. Seam for uniting fabrics.....	702,350	June 17	1998	456	99	2555
Arnold, Walter. (See Wetmore, Henry H., assignor.)						
Arnold, Wilber E., Madisonville, Ohio. Safe.....	706,877	Aug. 12	1698	380	100	1481
Arnold, Wilber E., Madisonville, Ohio. Door-screw-door sates.....	710,554	Oct. 7	307	67	101	61
Arnold, William, Patterson, N. J. Die for cutting mosaic blocks.....	702,391	June 17	2001	456	99	2555
Arnold, William B. (See Dunn, George F., assignor.)						
Arnold, William B., North Abington, Mass. Last.....	716,511	Dec. 23	3636	794	101	2640
Arnold, William E., Dallas, Tex. Scaffold-bracket.....	694,230	Feb. 25	3836	850	98	1647
Arnold, William H., Oakland, Cal. Actuating mechanism for awnings.....	706,005	Aug. 5	5	2	100	1117
Arnold, William R., Sawyer, Nebr. Vent-hole closure.....	718,935	Nov. 18	2855	633	101	1519
Arnot, Cephas W., Ypsilanti, Mich. Dish-washing machine.....	704,494	July 15	2114	457 (458)	100	457
Arnott, Alfred A., assignor to Arnott Light and Burner Company, New Haven, Conn. Hydrocarbon-burner.....	706,486	Aug. 5	968	212	100	1312
Arnott Light and Burner Company. (See Arnott, Alfred A., assignor.)						
Aron, Hermann, Charlottenburg, Germany. Apparatus for electrically winding up driving-springs.....	700,597	May 20	2884	662 (663)	99	1801
Aron, Hermann, Charlottenburg, Germany. Electric meter.....	701,280	June 8	4	1,2	99	2109
Aronson, Morris, et al. (See Dement, Wallace E., assignor.)						
Aronstein, Richard, Goldfield, Colo. Exercising apparatus.....	712,634	Nov. 4	332	78	101	967
Arper, George W., Oakland, Cal. Oil-burner.....	708,691	Sept. 9	1246	286	100	2245
Arper, George W., Oakland, Cal. Steam-generator for hydrocarbon-burners.....	718,048	Nov. 11	1096	253	101	1138
Arper, George W., Oakland, Cal. Asphatium-collector for oil-burners.....	715,234	Dec. 9	1124	241	101	2083
Arrau, John H. (See Tinker and Arrau.)						
Arrott, Charles F. (See Danver, James H., assignor.)						
Art Stove Company. (See Robinson, William V., assignor.)						
Arter, Arthur M., Hammersmith, England. Electric arc lamp.....	704,495	July 15	2117	458	100	458
Arth and Fricke, Firm of. (See Tresenreuter, Gustav, assignor.)						
Arthaud, Daniel, et al. (See Savage, Thomas A., assignor.)						
Arthur, Albert, assignor of nine-twentieths to W. Lautenslager, East Pittsburg, Pa. Automatic weighing-machine.....	690,830	Jan. 7	873	193	98	185
Arthur, Ernest L., Fayetteville, W. Va. Log measurer and register.....	700,836	May 20	2296	524	99	1681
Arthur, Henry R., Longmont, Colo. Furnace-blower.....	712,235	Oct. 28	3545	776	101	781
Arthur, John E., Lane, Ill. Rotary engine.....	699,740	May 13	1175	273 (274)	99	1428
Arthur, John M. (See Flatley and Arthur.)						
Arthur, Nicol S., Glasgow, and J. S. Binnie, Kilmacolm, Scotland. Mechanical stoker.....	710,171	Sept. 30	4231	954 (955)	100	2912
Arthurs, Biddle, Pittsburg, Pa. Measuring and emptying device for bottles.....	709,858	Sept. 30	3586	808	100	2779
Artman, Albert O., Greenville, Pa. Wheel-adjusting device for plows.....	712,031	Oct. 28	3172	693	101	708
Artos, Frederick, and M. Jackson, Detroit, Mich. Adjustable clamping device for ironing-boards.....	711,373	Oct. 14	1878	410	101	406
Asbell, Sylvester J., Paterson, N. J. Tank-valve.....	704,230	July 8	1615	349	100	1385
Ash, Alfred J., Peterswood, England. Spelter-furnace.....	702,526	June 17	2257	514	99	2611
Ashcraft, William, and J. C. Lubbes, assignors of one-third to E. G. Swartz, Greenville, Mo. Automatic toggle-chain release for log-rars.....	711,271	Oct. 14	1679	362	101	363
Ashcroft, Edgar A. (See Swinburne and Ashcroft.)						
Ashcroft, Robert H., Dunedin, New Zealand. Filling or refilling fountain-pens.....	709,731	Sept. 23	3329	749	100	2713
Ashland Sieve Company. (See Hixson, Frank, assignor.)						
Ashley, Edward G., Rochester, N. Y., assignor, by mesne assignments, to Sager Gear Company. Gear-cutter.....	691,738	Jan. 28	2598	1584 (1585)	98	592
Ashley, Frank M., Brooklyn, N. Y. Water-gage.....	705,192	July 22	3518	763	100	763
Ashley, Frank M., Brooklyn, N. Y., assignor to General Electric Company. Electric railway.....	690,886	Jan. 7	4	1	98	4
Ashley, Frank M., Brooklyn, N. Y., assignor to General Electric Company. Electric railway.....	690,887	Jan. 7	6	2	98	4
Ashley, Frank M., Brooklyn, N. Y., assignor to General Electric Company. Electric railway.....	713,274	Nov. 11	1578	357 (423)	101	1235
Ashley, James K., Rushville, Ill. Case and box machine.....	695,364	Mar. 11	1941	433	98	2137
Ashley, John T., Brooklyn, N. Y. Wheel.....	694,231	Feb. 25	3837	850	98	1647
Ashman, David B., Baltimore, Md. Neckband-shaper.....	712,752	Nov. 4	524	122	101	1005
Ashton, George T., and J. F. Bainter, Pittsburg, Pa. Adjustable window-shade and curtain-pole holder.....	705,543	July 29	4341	939	100	939
Ashton, Orrell, Lawrence, Mass. Coin-controlled vending apparatus.....	708,193	Sept. 2	365	86, 87	100	2056
Asmos, William C., Philadelphia, Pa., assignor to Casey and Cutler, assignors.)						
Ashurst, John L., Havana, assignor to L. B. Ashurst, Kibbourne, Ill. Furrow-opener for planters.....	692,000	Jan. 28	3087	694	98	692
Ashurst, Lewis B. (See Ashurst, John L., assignor.)						
Ashwell, James H., Nottingham, England. Glossing yarn.....	713,936	Nov. 18	2857	-----	101	1519
Ashworth, William D., assignor to Philadelphia Textile Machinery Company, Philadelphia, Pa. Garment-stretcher.....	691,573	Jan. 21	2270	510	98	508
Asimov, William C., Philadelphia, Pa., assignor to Bridesburg Machine Company. Shedding-motion for looms.....	690,888	Jan. 7	7	2	98	4
Asling, Charles H., Springfield, Mo. Automatic cistern device.....	691,230	Jan. 14	1602	366	98	349



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Ashing, Charles H., Springfield, Mo. Dust-spraying machine.....	699,435	May 6	589	133 134	99	1297
Asper, Albert, Linden, S. D. Machine for gathering and husking corn.....	717,153	Dec. 30	4973	1079 1080	101	2951
Aspin, Robert J., and J. A. Erickson, Lorain, Ohio. Bucket.....	716,980	Dec. 30	4648	1007 1008	101	2880
Aspinwall, Charles V., <i>et al.</i> (See Wiseman, Daniel E., assignor.)						
Aspinwall, Henry C. (See Wilkins and Aspinwall.)						
Aspinwall, Lewis A., assignor to Aspinwall Manufacturing Company, Jackson, Mich. Liquid-sprayer.....	701,668	June 3	704	156	99	2255
Aspinwall, Lewis A., assignor to Aspinwall Manufacturing Company, Jackson, Mich. Pea-sheller.....	709,657	Sept. 23	3200	714 715	100	2685
Aspinwall, Lewis A., assignor to Aspinwall Manufacturing Company, Jackson, Mich. Potato-sorter.....	709,658	Sept. 23	3203	715 716	100	2686
Aspinwall, Lewis A., assignor to Aspinwall Manufacturing Company, Jackson, Mich. Potato-digger.....	709,659	Sept. 23	3206	716	100	2687
Aspinwall, Lewis A., assignor to Aspinwall Manufacturing Company, Jackson, Mich. Potato-planter.....	709,660	Sept. 23	3210	716	100	2688
Aspinwall, Lewis A., assignor to Aspinwall Manufacturing Company, Jackson, Mich. Liquid-sprayer.....	717,314	Dec. 30	5283	1148 1149	101	3018
Aspinwall Manufacturing Company. (See Aspinwall, Lewis A., assignor.)						
Asplen, Bernard, Harwich, England. Road-scarifier and trench-cutter.....	703,168	June 24	3495	803	99	2878
Assau, William F., <i>et al.</i> (See Scheele, Walter T., assignor.)						
Assel, Jacob, assignor to Berbecker & Rowland Manufacturing Company, Waterville, Conn. Curing-pole.....	696,534	Apr. 1	252	57	99	57
Assorati, Antenor, New York, N. Y. Game-board.....	709,661	Sept. 23	3212	717	100	2688
Astarita, Raffaello, New York, N. Y. Toy game.....	705,632	July 29	4487	974	100	968
Aston, Alfred A. (See Molloy, James F., assignor.)						
Aston, William H., London, England. Passenger or goods elevator or conveyer.....	701,459	June 3	318	70	99	2174
Aston, William H., London, England. Driving-chain for continuous elevators.....	710,334	Oct. 14	1013	234	101	223
Astor, John J., New York, N. Y. Marine propulsion.....	690,821	Jan. 7	875	136 138	98	185
Atchison, Samuel H., assignor to H. Arnke, San Francisco, Cal. Apparatus for dispensing liquors at high pressure and at various degrees of temperature.....	715,534	Dec. 9	1678	367	101	2196
Aten, James F. (See Gernert and Aten.)						
Atha, Benjamin, <i>et al.</i> (See Barnard, John H., assignor.)						
Atha, C. G., <i>et al.</i> (See Barnard, John H., assignor.)						
Atha, H. B., <i>et al.</i> (See Barnard, John H., assignor.)						
Atha, H. G., <i>et al.</i> (See Barnard, John H., assignor.)						
Atha, Herbert B., East Orange, N. J. Preparing sand molds for steel castings.....	698,889	Apr. 29	4776		99	1080
Athens Foundry & Machine Co. (See Jennings, Ebenezer S., assignor.)						
Atherton, Abel T., <i>et al.</i> (See Marshall, John, assignor.)						
Atherton, Charles T., <i>et al.</i> (See Marshall, John, assignor.)						
Atherton, Edmond F., Cleveland, Ohio. Hoisting device.....	702,908	June 24	2981	686	99	2778
Atherton, Edmond F., Cleveland, Ohio. Hoisting device.....	702,909	June 24	2982	687	99	2779
Atherton, Fisher C., and C. Happ, Buffalo, N. Y.; said Happ assignor to said Atherton. Back-pedaling brake.....	699,781	May 13	1259	292	99	1446
Atherton, Robert, Paterson, N. J. Swivel-loom.....	691,927	Jan. 28	2948	663 664	98	665
Atkin, Arthur C., Auckland, New Zealand. Combined axle-nut and oil-cap for wheels.....	702,612	June 17	2429	554	99	2645
Atkins, Charles H., Springfield, Mass. Paper-making machine.....	690,686	Jan. 7	610	133	98	129
Atkins, Charles H., Springfield, Mass. Feed-water heater.....	717,494	Dec. 30	5608	1217 1218	101	3083
Atkins, Charles H., Chicago, Ill., assignor, by mesne assignments, to J. McWilliams, Louisville, Ky. Pump.....	695,133	Mar. 11	1540	340 341	98	2054
Atkins, Charles H., Chicago, Ill., assignor to W. Webster, Merchantville, N. J. Steam heating apparatus.....	702,352	June 10	1918	438	99	2518
Atkins, Charles H., Chicago, Ill., assignor to W. Webster, Merchantville, N. J. Water and air relief-valve for steam-passages.....	702,353	June 10	1920	438	99	2519
Atkins, Charles H., Chicago, Ill., assignor, by mesne assignments, to American Steam Heating Specialty Company, Camden, N. J. Steam-trap.....	711,272	Oct. 14	1680	362 357	101	363
Atkins, Charles M., New York, N. Y., assignor to Ping Pong Pool Co. Game.....	713,275	Nov. 11	1579	358	101	1296
Atkins, George J., London, England. Electrolytic apparatus for manufacturing certain salts suitable for the subsequent production of chlorine.....	699,907	May 13	1521	350	99	1503
Atkins, Joseph L., <i>et al.</i> (See Stickel, Jacob, assignor.)						
Atkinson, Arthur, Winnipeg, Canada. Apparatus for handling grain.....	700,886	May 27	3469	795 796	99	1940
Atkinson, Claude W., Cardiff, England. Electrical measuring instrument.....	714,127	Nov. 25	3225	712	101	1616
Atkinson, Edward E., assignor of one-half to I. Oberlin, Ada, Ohio. Drill.....	701,732	June 3	912	204	99	2290
Atkinson, Henry C., Louisville, Ky. Door signal or alarm.....	706,788	Aug. 12	1700	380 381	100	1482
Atkinson, Henry C., assignor of one-half to W. Miller, Louisville, Ky. Dinner-pail.....	696,790	Apr. 1	750	171	99	160
Atkinson, James. (See Crossley and Atkinson.)						
Atkinson, James E., Stonewall, Canada. Hose-coupling.....	701,660	June 3	707	156	99	2256
Atkinson, Joseph J., Houston, Tex. Baling-press.....	698,352	Apr. 22	3660	809	99	824
Atkinson, Joseph J., Houston, Tex. Baling-press.....	698,353	Apr. 22	3665	809 810	99	825
Atkinson, Llewelyn B., London, England. Mechanism for recording or registering the maximum movement of any mechanism.....	706,146	Aug. 5	282	50	100	1175
Atkinson & Mentzer. (See Mentzer, John P., assignor.)						
Atkinson, William H. (See Preston and Atkinson.)						
Atlantic Coast Amusement Company. (See Cronin, William D., assignor.)						
Atlantic Gulf and Pacific Company. (See Perry, Raymond A., assignor.)						
Atlantic Terra Cotta Company. (See Frerichs, William D., assignor.)						
Atlas Engine Works. (See Moore, Matthew R., assignor.)						
Atlas Match Company. (See Hutchinson, William F., assignor.)						
Atlas Portland Cement Company. (See Carpenter, Rola C., assignor.)						
Atlas Tack Company. (See Giles, Isaac W., assignor.)						
Atmospheric Products Company. (See Bradley and Lovejoy, assignors.)						
Atteberry, Henry E., Springfield, Ill. Stove.....	694,712	Mar. 4	717	158	98	1863
Atwater, Henry P., Houston, Tex. Toy fountain.....	715,337	Dec. 9	1316	282	101	2125
Atwater, S. I., trustee. (See Harris, Charles B., assignor.)						
Atwater, William C. (See Taylor and Atwater.)						
Atwood, Irving H., Amesbury, Mass. Carriage-lamp.....	711,929	Oct. 28	2974	654	101	669
Atwood, Leonard, Philadelphia, Pa. Locomotive.....	693,200	Feb. 11	1896	410	98	1213
Atwood, Leonard, Philadelphia, Pa. Machine for extracting liquid from brewers' grains, &c.....	696,889	Apr. 1	935	213	99	197
Atwood, Leonard, Philadelphia, Pa. Drying apparatus.....	697,312	Apr. 8	1731	386	99	388

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Atwood, Leonard, Philadelphia, Pa. Paper or pulp-board making machine.	698,428	Apr. 20	3802	839	99	809
Atwood, Leonard, Philadelphia, Pa. Continuous hydro-extractor.	700,112	May 13	1888	438	99	1576
Atwood, Leonard, Philadelphia, Pa. Fishing-reel.	703,223	June 24	3602	827	99	2900
Atwood, Leonard, Philadelphia, Pa. Locomotive.	708,292	Sept. 2	550	125	100	2093
Atwood, Leonard, Philadelphia, Pa. Spark-arrester.	712,236	Oct. 28	3546	776	101	781
Atwood, William H., Lincoln, Nebr. Game apparatus.	695,431	Mar. 18	2042	461	98	2179
Aubry, Eugene F. (See Schenker and Aubry.)						
Aubry, Raymond, Dijon, France. Coffee-alter.	713,192	Nov. 11	3882	311	101	1107
Audetle, Joseph, Detroit, Mich. Grinding attachment for carding-machines.	700,164	May 20	2047	468	99	1629
Audiger, Emile. (See Greil and Audiger.) (Reissue.)						
Audley, Francis H., New York, N. Y. Holder for policemen's clubs.	710,236	Sept. 30	4351	978	100	2940
Aue, Ferdinand, New York, N. Y. Barrel-washer.	715,451	Dec. 9	1523	330	101	2165
Auer, Frederick, Newark, N. J. Shade-roller bracket.	694,049	Feb. 25	3520	774	98	1584
Auer, George, Toledo, Ohio. Hot-air side-wall register. (Reissue.)	12,004	June 24	3851	886	99	2953
Auerbach, Julius, and F. Gubing, New York, N. Y., assignors to Stanley Electric Manufacturing Company. Electric arc lamp.	698,388	Apr. 22	3730	824	99	838
Auerbach, Louis. (See Oppenheimer, David, assignor.)						
Auger, Michel, <i>et al.</i> (See Whitcomb, Horatio N., assignor.)						
Aughuey, William H., and W. Clifton, Billings, Mont. Stirrup.	699,472	May 6	658	152	99	1312
Augur, Wayland B., Deer Harbor, Wash. Bell.	704,289	July 8	172	376	100	362
August, Edward A., Chicago, Ill. Attachment for beer-pumps.	706,792	Aug. 12	1540	345	100	1447
Augustus, Willis, Centerville, Iowa. Hammock frame or support.	714,554	Nov. 25	4049	896	101	1781
Auld, Hugh R., Boston, assignor, by mesne assignments, of one-half to J. J. McGlinchy, Chelsea, Mass. Rubber-tire setter.	704,953	July 15	3025	649	100	648
Ault, Edwin. (See Shone and Ault.)						
Aultman Company. (See Wright, Edgar A., assignor.)						
Aultman, Thomas G., assignor to Wagner Palmros Manufacturing Company, Fairmont, W. Va. Link for chains.	697,190	Apr. 8	1518	339	99	342
Auman, Harvey E., assignor to Harvey Burner and Furnace Company, Reading, Pa. Smelting-furnace.	692,776	Feb. 4	983	223	98	998
Auringer, Tracy C., Cohoes, N. Y. Combined bevel and square.	716,851	Dec. 30	4395	953	101	2829
Aurness, Peter A., Minneapolis, Minn. Bicycle-mirror.	702,763	June 17	2709	622	99	2704
Ausfehrungen fuer Eisenbahn Oberbau, Abth. Stossfangschienen, Siegm. Eppenstein. (See Barschall, Max, assignor.)						
Ausley, Charles M., <i>et al.</i> (See Wever, La Fayette T., assignor.)						
Austin Cartridge Company. (See Morris, William L., assignor.)						
Austin, Charles E. and G. M., Rollinsford, N. H. Bake-pan.	711,813	Oct. 21	2731	604	101	599
Austin and Crow. (See Crow, Frank C., assignor.)						
Austin, David E., assignor of two-thirds to J. E. Foley and J. C. McGregor, Detroit, Mich. Steam separator.	690,389	Jan. 7	11	3	98	6
Austin, Eber C. (See Miller and Austin.)						
Austin, Frederick C. (See Bi-bee, Frank M., assignor.)						
Austin, Frederick C. (See Bunnell, Morton G., assignor.)						
Austin, Frederick C. (See Johnson, Victor D., assignor.)						
Austin, Frederick C. (See Judd, William J., assignor.)						
Austin, Frederick C. (See Morenus, William H., assignor.)						
Austin, George M. (See Austin, Charles E. and G. M.)						
Austin, George S. and W. D., Cerulean, Ky. Wire stretcher and reeling machine.	692,412	Feb. 4	333	81	98	809
Austin, Henry K., Reading, Mass. Tire-inflator.	697,597	Apr. 15	2239	503	99	513
Austin, Henry M., Bellows Falls, Vt. Ash-sifter.	690,134	May 6	16	4	99	1179
Austin, Herbert, Erdington, England. Motor-car.	698,890	Apr. 29	4777	1050	99	1080
Austin, Herbert, Erdington, near Birmingham, England. Brake mechanism for motor-cars.	713,937	Nov. 18	2857	1634	101	1519
Austin, Herbert, Erdington, near Birmingham, England. Ball-bearing.	714,852	Dec. 2	421	90	101	1919
Austin, James E., Coldwater, Miss. Automatic vehicle-brake.	700,287	May 20	2297	524	99	1681
Austin, John, Pitkin, Colo. Wagon-gear.	695,780	Mar. 18	2692	611	98	2309
Austin, Joseph M., <i>et al.</i> (See Bloodgood, James, assignor.)						
Austin, Permillia J. (See Austin, William J., assignor.)						
Austin, Robert H., San Francisco, Cal. Jar-closure.	691,696	Jan. 21	2508	561	98	558
Austin, Stephen J., Terre Haute, Ind. Platform-scale.	714,555	Nov. 25	4051	896	101	1781
Austin, Thomas R., Coleman, Tex. Type-writer.	699,473	May 6	660	153	99	1312
Austin, William D. (See Austin, George S. and W. D.)						
Austin, William J., Milwaukee, Wis., assignor to P. J. Austin. Railway-rail joint.	703,979	July 8	1129	244	100	239
Austin, Willis R., and W. N. Crow, South Norwalk, Conn. Propelling-spring for target games.	702,910	June 24	2983	687	99	2779
Austrian, Bernard S., <i>et al.</i> (See Benary, Frank J., assignor.)						
Austrian, Joseph E. (See Harris, Charles R., assignor.)						
Austwick, Henry L., Chicago, Ill. Tobacco-pipe.	705,193	July 22	3519	763	100	763
Auto, Joseph, Covington, Ky. Shuttle for looms.	713,587	Nov. 18	2189	488	101	1377
Auto Construction Co. (See Newman and Borsodi, assignors.)						
Auto Electric Air Pump Company. (See Muller, Taze, assignor.)						
Auto Postergraph Syndicate. (See Vining, Robert W., assignor.)						
Auto Vehicle Company. (See Hain, Ralph B., assignor.)						
Automatic Boiler Feed-Water Regulator Co. (See Cummings, Charles, assignor.)						
Automatic Heating Company. (See Armstrong, Charles G., assignor.)						
Automatic Interconnecting Telephone Company. (See Andriano, Albert K., assignor.)						
Automatic Interconnecting Telephone Company. (See Andriano and Herbstreit, assignors.)						
Automatic Portable Bowling Alley Company. (See Downey, Richard F., assignor.)						
Automatic Racking Machine Company. (See Colby, Harry W., assignor.)						
Automatic Railway Mail Pouch Company. (See Slagle and Pywell, assignors.)						
Automatic Railway Mail Pouch Delivery Company. (See Slagle, Robert L., assignor.)						
Automatic Scale Company. (See Sherwood, Harry B., assignor.)						
Automatic Street Indicator Company. (See Morgan, Charles E., assignor.)						
Automatic Target Machine Company. (See McCullough, John L., assignor.)						
Automatic Tray Catcher and Controller Company. (See Milloy, Peter D., assignor.)						
Automatic Twisting In Machine Company. (See Krey and Dupler, assignors.)						
Automatic Vacuum Canning Company. (See Hodgson, John G., assignor.)						
Automatic Vacuum Canning Company. (See Larkin, Bernard H., assignor.)						
Automatic Vacuum Canning Company. (See Norton and Hodgson, assignors.)						
Automobile and Cycle Parts Company. (See Smith, Arthur O., assignor.)						
Auxer, Frederick P., <i>et al.</i> (See Auxer, Perrie H., assignor.)						
Auxer, Perrie H., assignor to F. P. Auxer and C. P. Seyler, Cleveland, Ohio. Cable-hanger.	716,654	Dec. 23	3927	853	101	2703



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Auxer, Perry H. (See Seyler and Auxer.)						
Avalon Knitwear Company. (See Crouse, Beecher M., assignor.)						
Averill, Henry L., Piermont, N. H. Box	711,374	Oct. 14	1880	410	101	407
Averly, Georges, Lyons, France. Pulley-block	712,471	Nov. 4	1	1	101	897
Avery, Addison, Lowell, Mass. Rock-drill	710,935	Oct. 14	1034	224	101	223
Avery, Colby M., Chicago, Ill., assignor to Chisholm, Boyd & White Company. Machine for pulverizing and separating lime	696,396	Apr. 1	6	2	99	4
Avery Drill Company. (See Avery, Russell, assignor.)						
Avery, Edward R., assignor of one-half to C. E. Morris and P. H. Gohn, Pony, Mont. Rail-joint for railways	707,494	Aug. 19	2833	640	100	1734
Avery, Frank, Orin, Wyo. Check-perforating machine	709,458	Sept. 23	2826	634	100	2607
Avery, Frederick C., Chicago, Ill. Handle attachment for dust-pans	717,315	Dec. 30	5287	1149	101	3019
Avery, Frederick R., administrator. (See Avery, Robert H.)						
Avery, Henry W., Cleveland, Ohio. Non-refillable receptacle	706,712	Aug. 12	1367	305	100	1411
Avery, Henry W., assignor to Avery Stamping Company, Cleveland, Ohio. Metallic railway-tie	710,172	Sept. 30	4234	955	100	2913
Avery, Henry W., assignor to Avery Stamping Company, Cleveland, Ohio. Joist-hanger	717,316	Dec. 30	5288	1149	101	3019
Avery Manufacturing Company. (See Avery, Robert H., assignor.)						
Avery Manufacturing Company. (See Bartholomew, John B., assignor.)						
Avery, Mary L., assignor to M. Crowell, Oakland, Cal. Dress-chart	705,194	July 22	3520	764	100	763
Avery, Robert H., deceased; F. R. Avery, administrator, assignor to Avery Manufacturing Company, Peoria, Ill. Cultivator	694,819	Mar. 4	921	205 206	98	1907
Avery, Russell, Sausalito, assignor to Avery Drill Company, San Francisco, Cal. Rock-drill	709,191	Sept. 16	2275	517	100	2478
Avery Stamping Company. (See Avery, Henry W., assignor.)						
Avery Stamping Company. (See Judd, Wallace S., assignor.)						
Avery Wall Paper Machine Company. (See Sproul, Jacob P., assignor.)						
Avey, Samuel. (See Dickinson, John E. T., assignor.)						
Avril, Paul V., Paris, France. Embossing and printing machine	690,822	Jan. 7	877	193	98	185
Avril, Paul V., assignor to himself and La Société Marinier, Navoit et Jeanson, Paris, France. Electromagnetic device for controlling the rotation of shafts	710,311	Sept. 30	4476	1010	100	2965
Avril, Paul V., assignor to himself and La Société Marinier, Navoit et Jeanson, Paris, France. Engraving-machine	711,273	Oct. 14	1659	363 364 365	101	364
Axelton, Andrew, Graettinger, Iowa. Animal-poke	696,850	Apr. 1	852	197	99	180
Axlund, Nels, Knudsen, S. B.	694,618	Mar. 4	346	76	98	1786
Axtell, Andrew S., Castle, N. Y. Window-shade holder	711,930	Oct. 28	2976	654	101	669
Ayars, Charles H., Salem, N. J., assignor to Ayars Machine Company. Can-filling machine	695,365	Mar. 11	1944	433	98	2137
Ayars Machine Company. (See Ayars, Charles H., assignor.)						
Aydelotte, William E. (See Hammond, John E., assignor.)						
Aye, Gottfried, Canning, Pa. Trolley head or wheel	699,640	May 13	990	230	99	1393
Ayer, Albert E., East Boston, assignor of one-half to H. B. Newton, Haverhill, Mass. Machinist's scale	697,701	Apr. 15	2463	549	99	552
Ayer, James I., Malden, assignor to Simplex Electrical Company, Boston, Mass. Combination plug-switch	695,366	Mar. 11	1946	434	98	2138
Ayer, James I., Malden, assignor to Simplex Electrical Company, Boston, Mass. Operating mechanism for motor-rheostats	700,715	May 20	3127	710	99	1854
Ayer, James I., Malden, assignor to Simplex Electric Heating Company, Boston, Mass. Reversing-switch controller for electric motors	715,235	Dec. 9	1125	242	101	2083
Ayer, Walter R., Raccourci, La. Whiffletree-cup	706,879	Oct. 12	1701	381	100	1482
Ayers, Albert M. (See Ayers, John W. and A. M.)						
Ayers, James R., Petersburg, Va. Fertilizer-distributor	711,274	Oct. 14	1692	365 366	101	365
Ayers, John W. and A. M., New York, N. Y. Badge or button back	699,436	May 6	591	134	99	1397
Ayling, Arthur W., and P. P. Reichert, Toledo, Ohio. Float-ball	699,641	May 13	991	239	99	1393
Aylmer Drill Manufacturing Company. (See Aylmer, Henry, assignor.)						
Aylmer, Henry. (See Prevost, Honore, assignor.)						
Aylmer, Henry, Sherbrooke, Canada. Refrigerator	710,173	Sept. 30	4235	955	100	2913
Aylmer, Henry, Sherbrooke, assignor to Aylmer Drill Manufacturing Company, Montreal, Canada. Interchangeable-bit rock-drill	692,755	Feb. 4	945	214	98	991
Aylsworth, Jonas W., East Orange, and W. H. Miller, assignors to National Phonograph Company, Orange, N. J. Dipping-tank for phonographic duplication processes	698,429	Apr. 20	3804	839	99	870
Aylward, Henry W. (See Schoffel and Aylward.)						
Aylworth, Daniel W., South Haven, Mich. Wire-tie	708,612	Sept. 9	1098	217	100	2214
Ayrault, John, Hamburg, N. Y. Roofing	713,588	Nov. 18	2190	488	101	1378
Ayres, Edward W., deceased, Washington, D. C.; S. P. Ayres, executrix. Alimentary product and making same	693,485	Feb. 18	2406		98	1341
Ayres, Horace B., Allamuchy, N. J. Removing cores from tree-trunks	715,631	Dec. 9	1890	411	101	2230
Ayres, James L., Atlantic, Iowa. Combined saddle-tree and elastic checkrein and back-strap holder	716,512	Dec. 23	3638	795	101	2640
Ayres, John, assignor to Oregon Rafting Company, Portland, Oreg. Log-raft	715,339	Dec. 16	2493	519	101	2388
Ayres, Sallie P., executrix. (See Ayres, Edward W.)						
Ayvad, Hachig A., Hoboken, N. J. Blank for life-preservers	703,363	July 1	2	1	100	3
Azadian, Harutin B., Syracuse, N. Y. Rack-and-pinion mechanism	714,771	Dec. 2	237	47	101	1885
Aztec Tempered Copper Company. (See Renstrom, Carrie, assignor.)						
B. F. Avery & Sons. (See Hobbs and Wilford H., assignor.)						
B. F. Sturtevant Company. (See Balcome, Herbert A., assignor.)						
Baackes, Michael, Cleveland, Ohio. Mill for rolling tapering bodies	697,964	Apr. 22	2934	647	99	674
Baarsen, Carl E., Bergen, Norway. Life-boat, &c.	696,621	Apr. 1	414	96	99	90
Baase, Henry C., assignor to Speed Changing Pulley Company, Indianapolis, Ind. Transmission mechanism	713,375	Nov. 11	1780	400	101	1278
Babbitt, George, Bensboro, Ky. Canopy	694,292	Feb. 25	3838	850	98	1647
Babcock, Bertha G., administrator. (See Babcock, William G.)						
Babcock, Henry C., Jr., et al. (See Lurch, Edward, assignor.) (Reissue.)						
Babcock, Solon E., Plateau City, Colo. Brush	701,829	June 10	972	217	99	2328
Babcock & Wilcox Company. (See Rosenthal, James H., assignor.)						
Babcock, William G., deceased, Brooklyn, N. Y.; B. G. Babcock, administratrix. Escapement mechanism for type-writers	702,613	June 17	2429	554	99	2645
Babé, Jules L., and A. Tricart, Paris, France. Extracting zinc	702,704	June 17	2711	590	99	2704
Bachand, Levi N., Chicago, Ill. Bed	702,688	June 17	2567	590	99	2674
Bachand, Levi N., Chicago, Ill. Bed	702,689	June 17	2569	591	99	2675
Bachand, Levi N., Chicago, Ill. Bed	702,690	June 17	2571	591	99	2675
Bachand, Levi N., Chicago, Ill. Davenport bed	702,691	June 17	2572	592	99	2675



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Bachand, Levi N., Chicago, Ill. Bed .....	702,692	June 17	2573	592	99	2676
Bachand, Levi N., assignor of one-half to W. J. Garvy, Chicago, Ill. Folding bed .....	693,211	Feb. 11	1869	411	98	1214
Bache, William H., Boundbrook, N. J. Sheet for roof-covering .....	702,614	June 17	2432	554	99	2646
Bache, William H., Boundbrook, N. J. Package .....	713,938	Nov. 18	2858	634	101	1510
Bacher, Peter, Canton, Ohio. Cupola-furnace .....	712,472	Nov. 4	4	1, 2	101	888
Bachmann, John F., Greensburg, Pa. Tool-holder .....	709,953	Sept. 30	3796	856	100	2821
Bachmann, Josef F., and A. Vogt, Vienna, Austria-Hungary, assignors to Electric Resistance and Heating Company, Limited, London, England. Electric heater .....	692,413	Feb. 4	335	81	98	869
Bachmann, Josef F., and A. Vogt, Vienna, Austria-Hungary, assignors to Electric Resistance and Heating Co., Ltd., London, England. Electrical heating appliance .....	695,995	Mar. 25	3084	700	98	2403
Bachner, Adolf, Berlin, Germany. Gas-lighting device .....	692,589	Feb. 4	662	155	98	984
Bachner, Adolf, Frankfurt-on-the-Main, Germany. Apparatus for use in catching flies or insects .....	716,655	Dec. 23	3928	858	101	2704
Bachofen, Fritz. (See Chuit and Bachofen.) .....						
Bachrach, David, Baltimore, Md. Nitrocellulose .....	692,102	Jan. 28	3278		98	730
Bachrach, Isaac, et al. (See Howe, John C., assignor.) .....						
Bachus, Lucius A. and L. J., Louisville, Ky. Eyeglasses .....	690,741	May 13	1177	274	99	1429
Bachus, Lucius J. (See Bachus, Lucius A. and L. J.) .....						
Back, John R., assignor to F. E. Reed Company, Worcester, Mass. Tool-post .....	700,698	Sept. 23	3271	732	100	2700
Back, Julius. (See Glass, Abraham B., assignor.) .....						
Backus, Charles F. (See Barker, James, assignor.) .....						
Backus, Henry N., Detroit, Mich. Animal-crate .....	698,782	Apr. 29	4519	999	99	1022
Backus, Senate, Pittsburg, Pa. Match-machine .....	690,437	May 6	592	135 136	99	1297
Bacon Air Lift Company. (See Young and Shaw, assignors.) .....						
Bacon, Byron R. (See Duncan, Max E., assignor.) .....						
Bacon, Byron R., South Orange, N. J. Can or bottle opener .....	692,045	Jan. 28	3175	716	98	709
Bacon, Byron R., South Orange, N. J. Key-guard .....	706,006	Aug. 5	7	2	100	1118
Bacon, Charles F., et al. (See Rice, Jesse T., assignor.) .....						
Bacon, Charles F., Daniels, Conn. Rod-hanger for window-shades .....	697,313	Apr. 8	1734	386 387	99	359
Bacon, Charles N., et al. (See Prescott, Joseph D., assignor.) .....						
Bacon, Earle C., New York, N. Y. Roller-support for conveyer-belts .....	710,936	Oct. 14	1016	224	101	238
Bacon, Ebenezer S. (See Sullivan and Bacon.) .....						
Bacon, Henry K. and H. A., Pontiac, Mich. Combined hand seed-drill and cultivator .....	697,191	Apr. 8	1519	339	99	342
Bacon, Henry S., Worcester, Mass. Location-tracer .....	706,713	Aug. 12	1369	305	100	1412
Bacon, Herbert J. (See Parker, Frank W., assignor.) .....						
Bacon, Hiram A. (See Bacon, Henry K. and H. A.) .....						
Badeau, Charles C., Schenectady, N. Y., assignor to General Electric Company. Circuit-breaker .....	695,134	Mar. 11	1544	342	98	2055
Badeau, Charles C., Schenectady, N. Y., assignor to General Electric Company. Fuse .....	713,831	Nov. 18	2639	588	101	1472
Badeau, Charles C., Schenectady, N. Y., assignor to General Electric Company. High-potential switch .....	714,436	Nov. 25	3837	849	101	1738
Badiendick, John A., et al. (See Kolt, Max, assignor.) .....						
Badger, Arthur C., Boston, Mass. Range-boiler .....	690,628	Jan. 7	501	108	98	107
Badger, Arthur C., Boston, Mass. Mail-chute .....	708,950	Sept. 9	1763	406	100	2355
Badger, George L., Quincy, Mass., assignor to Equitable Auto-Truck Power and Burner Company, Portland, Me., and Lynn, Mass. Burning oil .....	698,354	Apr. 22	3670	810	99	826
Badische Anilin & Soda Fabrik. (See Abel, Julius, assignor.) (Reissue.) .....						
Badische Anilin & Soda Fabrik. (See Abel and Kalkow, assignors.) .....						
Badische Anilin & Soda Fabrik. (See Bally, Oscar, assignor.) .....						
Badische Anilin & Soda Fabrik. (See Bazlen, Max, assignor.) .....						
Badische Anilin & Soda Fabrik. (See Bohn, René, assignor.) .....						
Badische Anilin & Soda Fabrik. (See Ducat, Marnas, and Dehoff, assignors.) .....						
Badische Anilin & Soda Fabrik. (See Holt, Henry S. A., assignor.) .....						
Badische Anilin & Soda Fabrik. (See Isler, Max H., assignor.) .....						
Badische Anilin & Soda Fabrik. (See Julius, Paul, assignor.) .....						
Badische Anilin & Soda Fabrik. (See Julius and Günther, assignors.) .....						
Badische Anilin & Soda Fabrik. (See Julius and Jahrmarkt, assignors.) .....						
Badische Anilin & Soda Fabrik. (See Julius and Tkatsch, assignors.) .....						
Badische Anilin & Soda Fabrik. (See Knietseh, Rudolf, assignor.) .....						
Badische Anilin & Soda Fabrik. (See Knietseh and Scharff, assignors.) .....						
Badische Anilin & Soda Fabrik. (See Meiser, Georg W., assignor.) .....						
Badische Anilin & Soda Fabrik. (See Müller and Schmid, assignors.) .....						
Badische Anilin & Soda Fabrik. (See Reubold, Friedrich, assignor.) .....						
Badische Anilin & Soda Fabrik. (See Schraube and Bucherer, assignors.) .....						
Badische Anilin & Soda Fabrik. (See Schraube and Voigtlaender-Tucher, assignors.) .....						
Badische Anilin & Soda Fabrik. (See Schraube, Schleicher, and Bucherer, assignors.) .....						
Badische Anilin & Soda Fabrik. (See Seidel, Paul, assignor.) .....						
Badische Anilin & Soda Fabrik. (See Stieglmann, Armand J., assignor.) .....						
Badt, Francis B., and G. M. Willis, Chicago, Ill. Rail-bond .....	690,060	Apr. 29	5053	1117 1118	99	1139
Baechler, Carl, Zurich, Switzerland. Filtering apparatus .....	707,537	Aug. 26	2930	663	100	1771
Baechlin, Frederick G., Newark, N. J. Tobacco stripping, booking, and selecting machine .....	717,317	Dec. 30	5288	1150	101	3010
Baechtold, Charles A. (See Corvill and Baechtold.) .....						
Baechtold, Charles A., and H. N. Corvill, Brooklyn, assignors to Lidgerwood Manufacturing Company, New York, N. Y. Rope-operating apparatus .....	715,338	Dec. 9	1317	282 283	101	2125
Baehr, George, McKeesport, assignor to National Tube Company, Pittsburg, Pa. Booster system .....	715,236	Dec. 9	1126	242	101	2084
Baehr, George, McKeesport, assignor to National Tube Company, Pittsburg, Pa. Draw-bench .....	715,740	Dec. 16	2067	465	101	2297
Baer, Abraham L., Milwaukee, Wis. Fountain-holder for pens .....	704,691	July 15	2455	530	100	528
Baer, Ivan F., Monson, assignor to Carlow & Putnam Company, Worcester, Mass. Coat-hat .....	713,376	Nov. 11	1781	400	101	1270
Baethig, Henry, Buffalo, N. Y. Sanitary attachment for telephone-transmitters .....	715,455	Dec. 9	1525	331	101	2166
Bauerle, Jerome A., Kalamazoo, Mich. Oil-can .....	705,013	July 22	3157	681	100	689
Bagasse Pulp Company. (See Lee, Charles T., assignor.) .....						
Baggaley, Ralph, Pittsburg, Pa. Railway-track adjuster .....	692,498	Feb. 4	486	113	98	893
Bagge, Walter, assignor of one-half to H. C. Huppert, New York, N. Y. Clothes-rack .....	716,614	Dec. 23	3554	840	101	2088
Baggs, Clarence A., and A. B. Cummin, San Jose, Cal. Saw-set .....	695,135	Mar. 11	1545	342	98	2056
Bailey, Charles H., assignor of one-half to L. Bender, Hoboken, N. J. Milk-can .....	691,093	Jan. 14	1359	308	98	298
Bagley, John, Tacoma, Wash. Grader .....	693,781	Mar. 18	2693	612	98	2309
Bagnall, Edward, Pittsburg, Pa. Apparatus for grinding, smoothing, and polishing plate-glass .....	716,981	Dec. 30	4651	1008 1009	101	2281
Bahl, William G., Pittsburg, Pa. Ice-cream disher .....	693,360	Feb. 18	2162	475	98	1290

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Bahr, Ewald E. (See Hodges, John W. K., assignor.)	705,895	July 29	3959	1079	100	1063
Bahr, Jacob G., Brooklyn, N. Y. Covering for demijohns	701,126	May 27	3918	900	99	2034
Bahrman, Fritz, Berlin, Germany. Tent						
Bahrs, George H. (See Goodrich, Alfred K., assignor.)						
Baier, Joseph, and E. Clark, London, England. Elastic tire	691,574	Jan. 21	2271	510	98	508
Baiersdorf & Biach. (See Koffler, Friedrich W., assignor.)						
Bailer, Otto A., Philadelphia, Pa. Producing a composition of matter to be used as a substitute for rubber	708,003	Sept. 2	7		100	1982
Bailey, Alexander S., Crawford, Ga. Shaft-tug attachment	691,231	Jan. 14	1603	366	98	349
Bailey, Alva S., assignor of one-half to J. H. Thies, Lovelock, Nev. Disk plow	692,190	Jan. 23	3426	775	98	760
Bailey, Charles A., Cromwell, Conn. Cartridge	694,713	Mar. 4	718	158	98	1863
Bailey, Charles A., Cromwell, Conn. Cartridge	695,996	Mar. 25	3086	700	98	2404
Bailey, Charles A., Cromwell, Conn. Cartridge	699,461	Apr. 29	5056	1118	99	1139
Bailey, Charles C. (See Hurd, Frederick A., assignor.)	715,632	Dec. 9	1851	411	101	2231
Bailey, Charles H., assignor to Fuller & Warren Company, Troy, N. Y. Skirted stove-base	717,318	Dec. 30	5291	1150	101	3020
Bailey, Charles O., Ogdensburg, N. Y. Eyeglasses or spectacles	707,046	Aug. 12	1989	446	100	1540
Bailey, David M., Caldwell, Kans. Wireworking-tool	708,613	Sept. 9	1099	247	100	2215
Bailey, Edward L., Streator, Ill. Waste-bucket and stand therefor	692,103	Jan. 28	3273	741	98	730
Bailey, Edwin W. M., Amesbury, Mass. Mounting for whiffletrees	708,004	Sept. 2	8	2	100	1982
Bailey, Frederick O., Portland, Me. Adjustable hub-runner	704,290	July 8	1725	376	100	362
Bailey, Henry F., assignor of one-half to L. E. Steele and H. E. Sims, Denver, Colo. Non-refillable bottle	708,981	Sept. 16	1842	424	100	2389
Bailey, Herbert L., assignor to Handy Things Company, Chicago, Ill. Vegetable-slicer	712,753	Nov. 4	525	123	101	1006
Bailey, Howard S., and W. E. Wild, Denver, Colo. Ore-concentrator	706,793	Aug. 12	1542	345	100	1447
Bailey, James A. (See Woodward, James W., assignor.)						
Bailey, John R., assignor to M. Laupheimer, Baltimore, Md. Steam-boiler furnace	707,495	Aug. 19	2835	640	100	1735
Bailey, John R., assignor to M. Laupheimer, Baltimore, Md. Steam-boiler furnace	707,496	Aug. 19	2836	641	100	1735
Bailey, John W., Jersey City, N. J. Apparatus for the combustion of finely-divided solid fuel	710,033	Sept. 30	3950	891	100	2851
Bailey, John W., Jersey City, N. J., assignor to General Lead Company. Apparatus for producing white lead	709,934	Sept. 30	3797	857	100	2821
Bailey, John W., Jersey City, N. J., assignor to Union Lead and Oil Company. Producing white lead	709,955	Sept. 30	3803	858	100	2823
Bailey, John W., Jersey City, N. J., assignor to Union Lead and Oil Company. Apparatus for producing white lead	709,956	Sept. 30	3810	858	100	2824
Bailey, John W., Jersey City, N. J., assignor to Union Lead and Oil Company. Producing white lead	709,957	Sept. 30	3814	859	100	2825
Bailey, Leonard C. (See Carter, Frank L., assignor.)						
Bailey, Leonard C. (See Richey, Charles V., assignor.)						
Bailey, Moses E., near Fountain City, Ind. Adjustable truck	696,535	Apr. 1	252	57	99	58
Bailey, Robert W. H., Kingston-upon-Thames, and A. W. Brightmore, Egham, England; said Bailey assignor to said Brightmore. Steering and driving gear for motor vehicles	698,891	Apr. 29	4779	1050	99	1081
Bailey, Samuel R., Amesbury, Mass. Shaft-shackle for vehicles	703,363	July 1	3	1	100	3
Bailey, Samuel R., Amesbury, Mass. Shaft-shackle for vehicles	703,363	July 1	4	2	100	3
Bailey, Samuel R., Amesbury, Mass. Shaft-shackle for vehicles	716,513	Dec. 23	3339	795	101	2641
Bailey, Theodorus S., Elizabeth, N. J. Non-refillable bottle	698,241	Apr. 22	3482	766	99	787
Bailey, Theodorus S., Elizabeth, N. J. Air-valve for ships	713,834	Nov. 18	2644	589	101	1473
Bailey, Thomas, New York, N. Y. Machine for dovetail-corrugating sheet metal	696,358	Mar. 25	3651	856	98	2562
Bailey, Thomas, New York, N. Y. Sheet-metal-corrugating machine	696,359	Mar. 25	3653	857	98	2562
Bailey, Thomas, New York, N. Y. Fireproof building	704,771	July 15	2907	564	100	559
Bailey, Walter H., North Andover, Mass., and I. Snow, Philadelphia, Pa., assignors to Draper Company, Hopedale, Mass. Shuttle-check	716,514	Dec. 23	3640	795	101	2641
Bailey, William, et al. (See Brooker, Albert, assignor.)						
Bailey, William J., Newark, N. J. Garment fastener or clasp	713,833	Nov. 18	2642	589	101	1473
Bailey, William J., assignor to Climax Manufacturing Co., Newark, N. J. Lamp-support	713,832	Nov. 18	2640	589	101	1473
Bailard, Edward V., Brooklyn, N. Y., assignor to O. H. Lee and A. Hanson, Milwaukee, Wis. Type-writing machine	710,401	Oct. 7	4	1, 2, 3	101	4
Bailargeon, Octav, Colhees, N. Y. Nut-lock	706,213	Aug. 5	401	86	100	1198
Bail, Elbert T., Mount Kisco, N. Y. Insulator pin and bracket	701,240	May 27	4124	949	99	2076
Bain, Benjamin F., New Brighton, Pa. Explosive engine	716,615	Dec. 23	3855	840	101	2680
Bain, Forcé, assignor to J. G. McMichael, Chicago, Ill. Railway-rail joint	690,823	Jan. 7	878	194	98	186
Bain, Forcé, assignor to J. G. McMichael, Chicago, Ill. Rail joint and chair	713,835	Nov. 18	2646	590	101	1474
Bain, George H. (See Bauer, Charles F., assignor.)						
Bain, James A. (See Quist and Bain.)						
Bain, John H., Marion, Ohio. Barbed-wire fence	699,062	Apr. 29	5058	1118	99	1139
Bain, Robert E. M., St. Louis, Mo. Ventilator	717,819	Dec. 30	5292	1151	101	3020
Bainbridge, William M., Elkton, Colo. Elevator-gear	693,212	Feb. 11	1091	412	98	1214
Baines, Joseph L., Mauch Chunk, and J. E. Waaser, East Mauch Chunk, Pa. Track brake	716,616	Dec. 23	3857	841	101	2680
Baines, Joseph E., assignor of one-half to J. W. Latshaw, Pittsburg, Pa. Threading tool	696,290	Mar. 25	3702	827	98	2351
Bainter, Jesse F. (See Ashton and Bainter.)						
Bainville, Auguste H., Nanterre, France. Electrode for secondary batteries	696,157	Mar. 25	3440	772	98	2478
Bair, Michael M., assignor to Société Anonyme le Carbone, Levallois-Perret, near Paris, France. Primary battery	700,598	May 20	2886	668	99	1801
Baird, Charles W., Millersburg, Iowa. Side-delivery hay-rake	694,344	Mar. 4	7	3	98	1714
Baird, Hugh, Glasgow, Scotland. Apparatus for cleaning windows	708,854	Sept. 9	1387	369	100	2319
Baird, John R., Buffalo, N. Y. Cloth-cutting machine	703,696	June 24	3234	744	99	2827
Baird, Orley R., Newton, Mich. Glove	692,224	Feb. 4	2	1	98	799
Baisch, Wilhelm, Stolberg II, Rhineland, Germany. Machine for forming bars or similar articles	696,923	Apr. 8	1023	228	99	237
Bajohr, Carl, St. Louis, Mo. Anchor-fastener for lightning-conductors	693,213	Feb. 11	1902	412	98	1214
Bakeman, Charles H., Shenandoah, Wash. Drawer-opening device	695,432	Mar. 18	2050	461	98	2179
Baker, Albert E., et al. (See Henry, Curtis B., assignor.)						
Baker, Andrew C., Albion, Mich. Cultivator	714,903	Dec. 2	691	144	101	1974
Baker, Charles A., Waukesha, Wis., assignor, by mesne assignments, to Stewart Hartshorn Company. Shade roller and bracket therefor	698,620	Apr. 29	4188	924	99	947
Baker, Charles H., Topia, Mexico. Water-gate	697,538	Apr. 15	2261	504	99	513
Baker, Charles H., Portland, Me. Washboard-holder	703,224	June 24	3203	827	99	2900
Baker, Daniel A., Schenectady, N. Y. Closing and locking device for dental flasks	702,276	June 10	1789	406	99	2491



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Baker, David, Chicago, Ill. Charging mechanism for blast-furnaces	696,129	Mar. 25	3967	760	98	2464
Baker, Dickerson G., Williamsport, Conn., assignor to American Thread Company, of New York. Packing and holding device for bobbins, cops, &c	710,937	Oct. 14	1017	225	101	223
Baker, Eber, <i>et al.</i> (See Richards, Jesse D., assignor.)						
Baker, Edward F., Passaic, N. J. Sticky fly-paper	693,536	Feb. 18	2503	551	98	1360
Baker, Elmer G., Pleasantville, Pa. Device for joining railway-rails	715,339	Dec. 9	1321	233	101	2126
Baker, Frank J., St. Cloud, Minn. Fish-hook	712,032	Oct. 23	3173	693	101	708
Baker, Franklin, Jr., and E. J. Fritsch, Philadelphia, Pa.; said Fritsch assignor to said Baker. Machine for cutting cocoanuts	709,811	Sept. 23	3511	732	100	2749
Baker, Fred L. (See Carpenter and Baker.)						
Baker, Frederick, <i>et al.</i> (See Blackwell, Edwin O., assignor.)						
Baker, Frederick H. (See Baker, Shevlin, and Baker.)						
Baker, Fulton T., Andrews, Ind. Folding reel for harvesting-machines	710,402	Oct. 7	12	3	101	5
Baker, G. W. (See Flint, William G., assignor.)						
Baker, George S., London, England. Grinding apparatus	692,414	Feb. 4	337	51, 82	98	869
Baker, George S., London, England. Conveyer apparatus	694,519	Mar. 4	347	6, 77	98	1786
Baker, George S., London, England. Wheel-gear	707,672	Aug. 26	3214	721	100	1829
Baker, George S., London, England. Sugar-wafer-biscuit machine	712,473	Nov. 4	7	2, 3 4, 5 57 58	101	808
Baker, George S., London, and W. T. Carr, Carlisle, England. Apparatus for automatically coating biscuits, &c	696,536	Apr. 1	251	59 60	99	58
Baker, H. E., <i>et al.</i> (See Carroll and Roberts, assignors.)						
Baker & Hamilton. (See Gilchrist, Vincent T., assignor.)						
Baker & Hamilton. (See Jurs, Henry F., assignor.)						
Baker, Harry W., Oakmont, Pa. Hot-air furnace	691,094	Jan. 11	1361	306	98	298
Baker, Howard A., Clarksville, Tex. Sash-lock	703,634	July 1	467	106	100	92
Baker, James, Melbourne, Victoria. Bicycle driving mechanism	693,214	Feb. 11	1903	412	98	1215
Baker, James, Carroll, Nebr. Shovel-support	709,192	Sept. 16	2379	518	100	2479
Baker, James H., Chicago, Ill. Mechanism for converting motion	691,697	Jan. 21	2509	562	98	558
Baker, James H., Allegheny, assignor to Jas. H. Baker Manufacturing Co., Pittsburg, Pa. Brake-beam	690,547	Jan. 7	348	70	98	75
Baker, James H., Allegheny, assignor to Jas. H. Baker Manufacturing Company, Pittsburg, Pa. Brake-beam	690,548	Jan. 7	349	71	98	76
Baker, James H., Allegheny, assignor to Jas. H. Baker Manufacturing Company, Pittsburg, Pa. Brake-beam	690,824	Jan. 7	880	194	98	186
Baker, James H., Allegheny, assignor to Jas. H. Baker Manufacturing Company, Pittsburg, Pa. Brake-beam	690,825	Jan. 7	882	195	98	186
Baker, James H., Allegheny, assignor to Jas. H. Baker Manufacturing Company, Pittsburg, Pa. Brake-beam	690,826	Jan. 7	881	196	98	187
Baker, James H., Allegheny, assignor to Jas. H. Baker Manufacturing Company, Pittsburg, Pa. Brake-beam	691,095	Jan. 11	1362	309	98	299
Baker, James H., Allegheny, assignor to Jas. H. Baker Manufacturing Company, Pittsburg, Pa. Brake-beam	691,096	Jan. 14	1364	309	98	299
Baker, James H., Allegheny, assignor to James H. Baker Manufacturing Company, Pittsburg, Pa. Metal wagon-gear	699,642	May 13	992	230 231	99	1394
Baker, James H., Saratoga Springs, N. Y., assignor to Baker and Shevlin Company.	700,469	May 20	2662	610	99	1754
Baker, James H., G. F. Shevlin, and F. H. Baker, assignors to Baker and Shevlin Company, Saratoga Springs, N. Y. Centrifugal pulp-screen	693,215	Feb. 11	1904	413	98	1215
Baker, James K., Ottumwa, Iowa. Book-shelf support	716,852	Dec. 30	4396	953	101	2829
Baker, John, Meacham, Ill. Rim and felly for rubber vehicle-tires	707,538	Aug. 26	2931	163	100	1771
Baker, Joseph B., Boston, Mass. Signal	701,460	June 3	320	71	99	2175
Baker, Joseph G., Philadelphia, Pa. Saw-set	692,225	Feb. 4	3	1	98	799
Baker, Joseph G., Philadelphia, Pa. Saw-set	692,226	Feb. 4	5	1	98	800
Baker, Lyman S., Camden, Mich. Heating-furnace	696,791	Apr. 1	752	171	99	160
Baker, Malcolm H., Newark, N. J., assignor to Manhattan General Construction Company. Circuit and cut-out for electric arc lamps	702,392	June 17	2002	457	99	1556
Baker, Malcolm H., East Liberty, Pa., assignor to Westinghouse Electric & Manufacturing Company. Interchangeable direct and alternating current arc-lamp	715,741	Dec. 16	2072	465	101	2297
Baker, Milton M., Stockton, assignor to Sunshine Water Heater Co., San Francisco, Cal. Solar water-heater	695,136	Mar. 11	1546	342	98	2056
Baker, Patrick J. (See Perkins, Berton S., assignor.)						
Baker, Riley. (See Daily and Baker.)						
Baker, Robert, Bury St. Edmunds, England. Box for containing eggs or the like	694,520	Mar. 4	356	78	98	1789
Baker, Robert L., Somerville, Mass. Cover-lifting device for pails, &c	708,263	Sept. 2	351	123	100	2003
Baker, Samuel A., Springfield, Vt. Drilling-machine	698,242	Apr. 22	3483	766 767	99	787
Baker and Shevlin Company. (See Baker, James H., assignor.)						
Baker and Shevlin Company. (See Baker, Shevlin, and Baker, assignors.)						
Baker Smith and Company. (See Mallen, Edward J., assignor.)						
Baker, Thomas C., Washington, Kans. Automatic weighing-machine	694,935	Mar. 11	1153	252	98	1975
Baker, Thomas C., Washington, Kans. Automatic weighing-machine	694,936	Mar. 11	1156	253	98	1975
Baker, Thomas K., Minneapolis, Minn. Coffee-maker	710,132	Sept. 30	4157	936	100	2897
Baker, Thomas K., Minneapolis, Minn. Coffee-maker	710,133	Sept. 30	4158	937	100	2897
Baker, Thomas R., Winterpark, Fla. Blackboard-trough	713,377	Nov. 11	1782	400	101	1279
Baker, Wallace L., Painesville, Ohio. Trolley	701,247	May 27	4126	949	99	2076
Baker, Wallace L., Painesville, Ohio. Trolley	716,362	Dec. 23	3332	737	101	2577
Baker, Walter C., Cleveland, Ohio. Motor-vehicle	709,850	Sept. 30	3386	808	100	2770
Baker, Walter C., Cleveland, Ohio. Voltmeter-scale	710,938	Oct. 14	1018	225	101	224
Baker, Willard D., Rogers, Ark., assignor to E. B. Harrington, trustee, Kansas City, Mo. Preserving food products	709,431	Sept. 16	2750	619	100	2580
Baker, Willard D., Rogers, Ark., assignor to E. B. Harrington, trustee, Kansas City, Mo. Preserving food products	709,432	Sept. 16	2751	619	100	2580
Baker, William H., Boston, Mass. Mangle	699,063	Apr. 29	5060	1119	99	1140
Baker, William H., New York, N. Y. Lock-valve	712,237	Oct. 28	3517	777	101	782
Baker, William H., Detroit, assignor of one-half to C. F. Tunstead, Oxford, Mich. Detachable link	691,433	Jan. 21	2030	455	98	458
Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J. Weft-replenishing mechanism for looms	692,590	Feb. 4	663	155	98	984



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Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J. Detector mechanism for weft-replenishing looms	692,591	Feb. 4	666	156	98	935
Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J. Weft-replenishing mechanism for looms	714,274	Nov. 25	3542	779	101	1081
Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J., assignors to Kip-Armstrong Company. Electrical warp stop-motion for looms	713,836	Nov. 18	2647	590	101	1474
Baker, William J., Scarborough, England. Apparatus for separating grease from steam	692,415	Feb. 4	339	83	98	870
Baker, William J., Cleveland, Ohio. Screw-plate	698,430	Apr. 29	3806	840	99	870
Baker, William O., assignor to Thomas Manufacturing Company, Springfield, Ohio. Hay-loader	710,403	Oct. 7	13	4	101	5
Baker, William S. G., Baltimore, Md. Car-truck	692,499	Feb. 4	488	114	98	898
Baker, William S. G., Baltimore, Md. Car-truck	703,108	June 24	3872	775	99	2854
Bakken, Thore A., De Soto, Wis. Trace-fastener	702,527	June 17	2257	514	99	2611
Balbian, Lillian M., Tiffin, Ohio. Puzzle	698,892	Apr. 29	4780	1051	99	1081
Balch, Frank. (See Browne and Balch.)						
Balch, Samuel W. (See Pupin and Balch.)						
Balcom, Clark. (See Fancost, Richard M., assignor.)						
Balcome, Herbert A., Jamaica Plain, assignor to B. F. Sturtevant Company, Boston, Mass. Brush-holder support	713,559	Nov. 18	2191	488	101	1378
Baldner, Jacob, Xenia, Ohio. Starting mechanism	694,454	Mar. 4	226	50	98	1760
Baldner, Jacob, Xenia, Ohio. Combined reversing mechanism and brake	712,893	Nov. 4	808	187	101	1063
Baldrige, James A. (See Thompson, Oscar, assignor.)						
Baldrige, James A. (See Thompson and Baldrige.)						
Baldrige, Robert, Covina, Cal. Ridge-breaker	698,486	Feb. 18	2408	536	98	1341
Baldry, Henry O., Southwell, England. Crane	710,555	Oct. 7	309	67	101	62
Baldszun, Georg, Weimar, Germany. Combination-garment	700,601	May 20	2891	664	99	1802
Baldt, Frederick, Chester, Pa. Ladle	694,937	Mar. 11	1157	253	98	1976
Baldt, Frederick, Sr., Chester, Pa. Molding	703,169	June 24	3497		99	2878
Baldt, Frederick, Sr., Chester, Pa. Casting chains	703,170	June 24	3198	803	99	2878
Baldt, Frederick, Sr., Chester, Pa. Casting	703,171	June 24	3499	804	99	2879
Baldt, Frederick, Sr., Chester, Pa. Molding	703,172	June 24	3500		99	2879
Baldwin, A. S., et al., assignors to Johnson and Matthews, assignors.						
Baldwin, Alonzo, assignor to Royal Brush and Broom Company, Chicago, Ill. Brush-broom	692,592	Feb. 4	669	156	98	935
Baldwin, Alonzo, assignor to Royal Brush and Broom Company, Chicago, Ill. Brush or broom	692,593	Feb. 4	671	156	98	936
Baldwin, Charles B., Brooklyn, N. Y. Box	699,438	May 6	597	136	99	1298
Baldwin, Charles B., Brooklyn, N. Y. Box-covering machine	708,515	Sept. 9	932	211	100	2182
Baldwin, Charles C., assignor of one-fourth to L. J. Tiffany, Mokense, Ill. Lubricant-atomizer	715,940	Dec. 16	2495	550	101	2389
Baldwin, Charles L., and O. A. Green; said Baldwin assignor to M. E. Baldwin, New York, N. Y. Elevator	709,732	Sept. 23	3329	749	100	2713
Baldwin, Chester M., assignor of one-half to J. H. Shaw, Bronson, Mich. Barrel-tongs	693,097	Feb. 11	1623	354	98	1159
Baldwin, Cyrus W., deceased, Yonkers, N. Y.; M. E. Baldwin, administratrix, assignor to Otis Elevator Company, East Orange, N. J. Elevator	696,706	Apr. 1	593	133	99	129
Baldwin, Edward S., Peabody, assignor to Boston Pump Company, Boston, Mass. Controller for beer or other pumps	710,736	Oct. 7	645	134	101	132
Baldwin, Edwin E., Branford, Conn. Piston	697,965	Apr. 22	2936	648	99	674
Baldwin, Eugene N., and I. M. Schellinger, Royersford, Pa. Glass-ladle	708,113	Sept. 2	209	50	100	2025
Baldwin, Frank S., Newark, N. J. Measuring device	692,756	Feb. 4	496	214	98	99
Baldwin, Frank S., Newark, N. J. Calculating-machine	706,375	Aug. 5	740	162	100	1266
Baldwin, George A., assignor of one-half to J. W. Carmack, Walnutgrove, Mo. Sound-conducting horn	715,237	Dec. 9	1129	242	101	2085
Baldwin, Henry F. (See Mansfield, George L., assignor.)						
Baldwin, Horace O., deceased, New Brighton, Pa.; M. E. Baldwin, administratrix. Rail-joint	706,374	Aug. 5	738	161	100	1266
Baldwin, Judson A., assignor of one-half to James McCrea & Co., Chicago, Ill. Automatic pump-governor valve	714,994	Dec. 2	692	145	101	1974
Baldwin, Judson A., assignor of one-half to James McCrea & Co., Chicago, Ill. Automatic boiler-feed-controlling valve	716,982	Dec. 30	4656	1009	101	2382
Baldwin, Mary E., administratrix. (See Baldwin, Cyrus W.)						
Baldwin, Mary E., administratrix. (See Baldwin, Horace O.)						
Baldwin, Maud E. (See Baldwin and Green, assignors.)						
Baldwin, Miles C., assignor of one-half to T. B. Stevenson, Elmira, N. Y. Artificial leg	708,005	Sept. 2	10	2	100	1983
Baldwin, Orrin K., Detroit, Mich. Cultivator	698,783	Apr. 29	4521	999	99	1022
Baldwin, Richard D., assignor of one-half to H. H. Wright, Chicago, Ill. Brake-shoe-lubricating filler	706,147	Aug. 5	284	59	100	1175
Baldwin, Rollin A., South Norwalk, Conn. Railway-signal	712,754	Nov. 4	528	123	101	1006
Baldwin, Stephen G., Marion, Ind. Ink	709,133	Sept. 16	2156	494	100	2455
Baldwin, William D., New York, and A. Sundh, Yonkers, N. Y., assignors to Otis Elevator Company, East Orange, N. J. Shifting device for piers, &c	700,470	May 20	2664	610	99	1754
Baldwin, William D., New York, and A. Sundh, Yonkers, N. Y., assignors to Otis Elevator Company, East Orange, N. J. Shifting device for piers, &c	700,599	May 20	2888	663	99	1801
Baldwin, William D., New York, and A. Sundh, Yonkers, N. Y., assignors to Otis Elevator Company, East Orange, N. J. Shifting device for piers, &c	700,600	May 20	2889	664	99	1801
Baldwin, William D., New York, and A. Sundh, Yonkers, N. Y., assignors to Otis Elevator Company, East Orange, N. J. Shifting device for piers, &c	702,393	June 17	2004	457	99	2556
Baldwin, William I., and E. A. Kline, Chagrin Falls, Ohio. Paper-bag machine	709,890	Sept. 30	3588	808	100	2773
Balinger, Lewis C., Shirleysville, Pa. Trace-fastener	703,635	July 1	468	107	100	92
Ball, Augustus A., Jr., Lynn, Mass. Vapor-burner	691,575	Jan. 21	2273	511	98	508
Ball, Augustus A., Jr., Lynn, assignor to E. Thomson, Swampscott, Mass. Frame for self-propelled vehicles	716,167	Dec. 16	2935	645	101	2480
Ball, Augustus A., Jr., Lynn, assignor to E. Thomson, Swampscott, Mass. Vehicle-brake	696,397	Apr. 1	0	3	99	4
Ball Brothers Glass Manufacturing Company. (See Ball, Edmund B., assignor.)	716,168	Dec. 16	2937	645	101	2480
Ball, Charles A., et al. (See Normand, Joseph E., assignor.) (Reissue.)						
Ball, Charles A., Washington, D. C. Fitting for steam-heating systems	702,336	June 10	1887	431	99	2511
Ball, Charles A., Washington, D. C. Drier	712,894	Nov. 4	812	188	101	1064

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Ball Check Light Company. (See Compton, Melvin D., assignor.)						
Ball, Edmund B., assignor to Ball Brothers Glass Manufacturing Company, Muncie, Ind.	692,813	Feb. 11	1063	238	98	1041
Glass-blowing machine.	708,294	Sept. 2	552	125	100	2094
Ball, Farlen F., Sonora, Cal. Cuspidor-rack						
Ball, Henry P. (See Leonard and Ball.)						
Ball, Henry P., New York, N. Y., assignor to General Incandescent Arc Light Company, of New York. Circuit-breaker	698,096	Apr. 22	3195	699	99	728
Ball, Henry P., New York, N. Y., assignor to General Incandescent Arc Light Company, of New York. Electrical insulator	698,097	Apr. 22	3197	699	99	728
Ball, Henry P., Mount Vernon, assignor, by mesne assignments, to H. W. Leonard, Bronxville, N. Y. Rheostat, electric heater, &c.	699,064	Apr. 29	5061	1119	99	1140
Ball, Henry P., Brooklyn, assignor, by mesne assignments, to H. W. Leonard, Bronxville, N. Y. Electric rheostat or heater	707,194	Aug. 19	2288	512	100	1621
Ball, Henry P., New York, N. Y., assignor to General Incandescent Arc Light Company. Electric switch	708,006	Sept. 2	11	3	100	1983
Ball, Henry P., New York, N. Y., assignor to General Incandescent Arc Light Company. Time-limit device for circuit-breakers	708,007	Sept. 2	13	3	100	1983
Ball, Henry P., New York, N. Y., assignor to General Incandescent Arc Light Company. Reverse-current device for circuit-breakers	708,008	Sept. 2	15	4	100	1984
Ball, Henry P., and L. Wintner, New York, N. Y., assignors to General Incandescent Arc Light Company. Electric switch	693,636	Feb. 18	2705	597	98	1402
Ball, John M., Auburn, Ill. Mail-box	692,814	Feb. 11	1065	239	98	1041
Ball, Elzabeth City, N. C. Straddle-row cultivator	693,680	Feb. 18	2783	612	98	1418
Ball, Robert M., et al. (See Miller, Jacob B., assignor.)						
Ball, Royal E., New York, N. Y. Rotary transformer	693,098	Feb. 11	1624	355	98	1150
Ball, Royal E., New York, N. Y. Charging accumulators	697,192	Apr. 8	1520	340	99	343
Ball, Royal E., New York, N. Y. Means for charging accumulators	697,193	Apr. 8	1523	340	99	343
Ball & Socket Fastener Company. (See Richardson, William S., assignor.)						
Ball and Socket Manufacturing Company. (See Williams, James P., assignor.)						
Ball, William E., Zanesville, Ohio. Index-file	698,621	Apr. 29	4190	924 925	99	947
Ball, William E., Zanesville, Ohio. Railway-rail brace	717,320	Dec. 30	5293	1151	101	3020
Ball, William E., Zanesville, Ohio. Nut-lock	717,321	Dec. 30	5294	1151	101	3020
Ballantyne, Brigham, Sumpter, Oreg. Automatic circuit-breaker	704,496	July 15	2120	458	100	459
Ballard, George E., Philadelphia, Pa. Latch	691,620	Jan. 21	2185	490	98	490
Ballard, George W. (See Cooper, Maxey, assignor.)						
Ballard, Harrie A. (See Copeland, Jones, and Ballard.)						
Ballard, Harrie A., Ashland, assignor to Turner Tanning Machinery Company, Boston, Mass. Leather-working machine	691,302	Jan. 14	1746	397	98	378
Ballard, Harrie A., Ashland, Mass., assignor to Copeland Boot and Shoe Treering Company, Portland, Me. Tree for boots or shoes	691,304	Jan. 14	1753	399 400	98	380
Ballard, Harrie A., Ashland, Mass., assignor to Copeland Boot and Shoe Treering Company, Portland, Me. Machine for treering boots or shoes	691,576	Jan. 21	2274	511 512	98	509
Ballard, Harrie A., Ashland, and W. A. Copeland, Melrose, assignors to Turner Tanning Machinery Company, Boston, Mass. Leather-treating machine	691,303	Jan. 14	1750	398 399	98	379
Ballard, Harrie A., Ashland, and W. A. Copeland, Melrose, Mass., assignors to Copeland Boot and Shoe Treering Company, Portland, Me. Tree for boots or shoes	691,305	Jan. 14	1757	400 401	98	381
Ballard, Isaac N. (See Halstead, Elliott N., assignor.)						
Ballard, Milton H., assignor to G. W. Emerson and Company, Lynn, Mass. Buffing-machine	690,549	Jan. 7	351	71	98	76
Ballard, Nilton B., assignor to G. W. Emerson & Co., Lynn, Mass. Polishing-machine	705,550	July 29	4343	939	100	939
Ballard, Nelson B. (See Coyle, Frank, assignor.)						
Ballbach, Louis, Detroit, Mich. Meat-cutting machine	692,594	Feb. 1	673	157	98	936
Ballbach, Louis, Detroit, Mich. Lacing-eye for shoes, &c.	706,213	Aug. 5	402	86	100	1198
Balliet, Herbert S., Bethlehem, Pa. Signal device	705,549	July 29	4341	939	100	939
Balliet, Byron J., Mansfield, Ohio. Suspender-link	692,595	Feb. 4	675	157	98	936
Ballou, Joseph N. (See McManama and Ballou.)						
Ballou, Alvin M., Denver, Colo. Rock-drill	690,687	Jan. 7	614	134	98	130
Ballou, Eugene H., Pawtucket, R. I. Leno-loom	708,951	Sept. 9	1764	407 408	100	2355
Ballou, James N., and J. J. Shirley, Buffalo, N. Y. Steel grain-bin	699,439	May 6	599	136	99	1299
Balluff, Albert G., Chicago, Ill. Temporary binder	699,279	May 6	278	65	99	1231
Bally, Oscar, Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen, Germany. Anthracene dye and making same	707,373	Aug. 19	2616	-----	100	1689
Bally, Oscar, Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen, Germany. Anthracene dye and making same	707,374	Aug. 19	2618	-----	100	1689
Balon, Andrew, Elizabeth, N. J. Car-brake	698,784	Apr. 29	4523	999	99	1023
Baltimore Ball Bearing Company. (See Norwood, John E., assignor.)						
Baltz, Charles E., Rahway, N. J. Protecting-rail for open cars	711,753	Oct. 21	2615	575	101	576
Bambauer, Tillie, Volta, Cal. Pillow-sham holder	702,765	June 17	2712	622	99	2705
Bamberg, Godfrey, London, England. Making detergents	700,602	May 20	2892	-----	99	1202
Bamberger, Alfred P., New Cumberland, Pa. Metallic railway-tie	694,600	Mar. 4	509	110 111	98	1821
Bamford, Charles F., Bedford, England. Wind-motor	705,195	July 22	3321	764	100	764
Bamford, Thomas, St. Joseph, Mo. Dress and skirt adjuster	693,361	Feb. 18	2163	475	98	1290
Bancroft, C. C. (See Myers, Ephraim, assignor.)						
Bancroft, Charles S., et al. (See Stephenson, Levi T., assignor.)						
Bancroft, Edgar A., trustee. (See Friedman, Charles S., assignor.)						
Bancroft, Frank H., assignor of one-half to H. M. Rich, Gardner, Mass. Embossing-machine	693,362	Feb. 18	2164	476	98	1290
Bancroft, John S., Philadelphia, Pa., assignor, by mesne assignments, to Lanston Monotype Machine Company, Washington, D. C. Record-strip-feeding mechanism	700,289	May 20	2306	525	99	1683
Bancroft, John S., Philadelphia, Pa., assignor, by mesne assignments, to Lanston Monotype Machine Company, Washington, D. C. Pump-actuating mechanism for type-machines	700,290	May 20	2308	526	99	1683
Bancroft, John S., Philadelphia, Pa., assignor, by mesne assignments, to Lanston Monotype Machine Company, Washington, D. C. Record-strip-feeding mechanism of automatic type-casting or other machines	700,291	May 20	2310	526	99	1683
Bancroft, John S., and M. C. Indahl, Philadelphia, Pa., assignors, by mesne assignments, to Lanston Monotype Machine Company, Washington, D. C. Automatic leader for type-composing machines	700,288	May 20	2298 524 525	-----	99	1681
Bandemer, Louis J., Plato, Minn. Wire-stretcher	691,521	Jan. 21	2186	490	98	491
Bandler, Henry, assignor to M. Liveright, Philadelphia, Pa. Garment	701,252	May 27	4135	952	99	2078
Bane, James O., Waseca, Minn. Pump-spring connection	706,149	Aug. 5	287	60	100	1175
Banfil, William H., Boston, Mass. Fire-extinguisher	700,608	May 20	2893	664	99	1802



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Bangley, Joseph L., assignor of one-half to T. J. Eley and H. W. Campbell, Suffolk, Va. Heating-stove.....	695,872	Mar. 18	2862	649	98	2345
Bangley, Joseph L., assignor of one-half to T. J. Eley and H. W. Campbell, Suffolk, Va. Heating-stove.....	704,470	July 8	2061	447	100	493
Bangs, Edwin D., assignor of two-thirds to A. L. Rodoe and E. Q. Bangs, Milwaukee, Wis. Horseshoe.....	708,982	Sept. 16	1844	424	100	2389
Bangs, Edwin Q., et al. (See Bangs, Edwin D., assignor.)						
Bangs, Stephen E., Booneville, Ark. Fifth-wheel.....	696,300	Mar. 25	3708	828	98	2532
Bangs, William F., Baton Rouge, La. Rotary engine.....	701,531	June 8	445	100	99	2199
Bangs, William H., assignor to R. L. Campbell, Atlanta, Ga. Coil-taping machine.....	715,941	Dec. 16	2496	550	101	2389
Banish, William V., Sheldon, N. D. Windmill-controller.....	706,714	Aug. 16	1370	805	100	1412
Baukert, John G., Wilkinsburg, Pa. Envelop.....	698,622	Apr. 29	4191	925	99	947
Banks, Adam J., Norfolk, Va. Mirror-adjuster.....	704,497	July 15	2121	459	100	459
Banks, Charles E. (See Lennon and Banks.)						
Banks, Charles J., Washington, England. Micrometer.....	706,148	Aug. 5	235	60	100	1175
Banks, Daniel B. (See Della Torre and Banks.)						
Banks, Oscar H., et al. (See Punzelt, Edward E., assignor.)						
Banks, Robert L. (See Smith, Robert P., assignor.)						
Banks, William C. (See Lockwood and Banks.)						
Banks, William C., Brooklyn, N. Y. Battery.....	696,024	Apr. 8	1024	228	99	237
Banning, Joseph O. (See Lombard and Banning.)						
Bannon, John F., Central Falls, R. I. Electric alarm for cloth-finishing machines.....	701,248	May 27	4128	949	99	2077
Banovits, Cajetan, Budapest, Austria-Hungary. Engaging or disengaging device for automatic railway-carriage couplings.....	695,505	Mar. 18	2369	537	98	2245
Banta, Thomas W., New Richmond, Ind. Draft-equalizer.....	707,333	Aug. 26	2393	664	100	1771
Bany, Jacob, Sr., St. Henry, Ohio. Swing.....	705,014	July 22	3158	682	100	690
Bappe, George T., Moline, Iowa. Coil-spring weed-hook.....	702,528	June 17	2259	514	99	2011
Baptiste, Louis. (See Laporte and Baptiste.)						
Baran, Paul, New Kensington, Pa. Rail-joint.....	697,775	Apr. 15	2593	575	99	580
Barbee, James, Columbus, Ga. Extension stove-leg.....	706,377	Aug. 5	750	164	100	1267
Barber, Arthur J., Rochester, N. Y. Sleeve-holder.....	703,366	July 1	6	2	100	4
Barber Asphalt Paving Company. (See Greene and Dollar, assignors.)						
Barber Asphalt Paving Company. (See Lober, William H., assignor.)						
Barber, Charles A., Montreal, Canada. Automatic fireproof door, &c.....	698,785	Apr. 29	4523	999 (1000)	99	1023
Barber, Charles A., Montreal, Canada. Safe.....	716,853	Dec. 30	4397	953	101	2820
Barber, Charles W. L., Colorado Springs, Colo. Skirt-elevator.....	709,459	Sept. 23	2828	634	100	2098
Barber, Daniel F., Newton, assignor to Chandler & Barber, Boston, Mass. Portable work-bench.....	694,312	Feb. 25	4053	901	98	1684
Barber, Everett A., Quincy, assignor to Standard Rivet Company, Boston, Mass. Stapling-machine.....	692,757	Feb. 4	948	215 216	98	902
Barber, George T. (See Pilling and Barber.)						
Barber, Jeremiah A. (See Diehl and Barber.)						
Barber, Jeremiah A., Butler, Ind. Carbureter.....	715,942	Dec. 16	2497	550 551	101	2389
Barber, John C., St. Paul, Minn., assignor to Standard Car Truck Company, Chicago, Ill. Car-truck.....	708,855	Sept. 9	1588	363 364	100	2319
Barber, Maximilian T., Manchester, England. Apparatus for feeding separate sheets of paper in printing or like machines.....	716,983	Dec. 30	4659	1010	101	2883
Barber, William, Brooklyn, N. Y. Exhaust-muffler.....	714,128	Nov. 25	3228	712 713	101	1616
Barber, William M., Somerville, assignor of one-half to Smith and Anthony Company, Boston, Mass. Paper-drying machine.....	690,629	Jan. 7	502	109 110	98	107
Barbier, Alexandre, Lyons, France. Apparatus for operating guided shuttles in looms.....	708,752	Sept. 9	1363	310 311	100	2272
Barbieri, Romeo A. (See Tillberg and Barbieri.)						
Barbour, Erwin H., Lincoln, Nebr. Temporary binder.....	712,238	Oct. 28	3549	777	101	782
Barbour, Martha E., Scranton, Pa. Ash-sifter.....	691,522	Jan. 21	2187	490	98	491
Barclay, George E., Joliet, Ill. Stovepipe.....	698,623	Apr. 29	4192	925	99	948
Barclay, James, assignor to Deere and Mansur Company, Moline, Ill. Corn-planter.....	709,294	Sept. 16	2478	558	100	2522
Barclay, Robert, assignor of one-fourth to J. Cornwell, Newark, N. J. Fire-escape.....	692,191	Jan. 28	3427	776 634	98	761
Barclay, Walter C., New York, N. Y. Printing-press.....	713,933	Nov. 18	2859	635 636	101	1519
Bard, James F., Wayne, Pa. Attachment for automatic circular-knitting machines.....	706,509	Aug. 12	1008	221 222	100	1335
Barden, George F., Springfield, Mass. Puzzle.....	702,615	June 17	2434	555	99	2646
Bardill, John O., St. Louis, Mo. Chair for mangle.....	694,135	May 6	16	4.5	99	1179
Bardin, Emile, Nangis, France. Double or step ladder.....	701,533	June 3	446	100	99	2200
Bardsley, Henry. (See Davenport and Bardsley.)						
Bardsley, Henry, assignor to Crompton & Knowles Loom Works, Providence, R. I. Loom-shuttle.....	691,577	Jan. 21	2279	512	98	509
Bardsley, Henry, assignor to Crompton & Knowles Loom Works, Providence, R. I. Loom-shuttle.....	691,578	Jan. 21	2281	512	98	510
Bardsley, Henry, assignor to Crompton & Knowles Loom Works, Providence, R. I. Clutch.....	693,318	Feb. 11	2073	453	98	1250
Bardsley, Henry, assignor to Crompton & Knowles Loom Works, Providence, R. I. Shuttle-box-operating mechanism for looms.....	693,681	Feb. 18	2784	613	98	1418
Bardsley, Henry, Providence, R. I., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom-shuttle.....	705,898	July 20	4965	1081	100	1065
Bardsley, Joseph. (See Rosentreter, Albert J., assignor.)						
Bardsley, Joseph, Montclair, N. J. Spring-hinge.....	695,526	Mar. 18	2218	503	98	2213
Bardwell, Arthur F., Mount Vernon, assignor to Daimler Manufacturing Company, Long Island City, N. Y. Carburetor for explosive-engines.....	693,773	Feb. 18	2945	648	98	1451
Bardwell, Arthur F., Springfield, assignor to F. A. Bardwell, Boston, Mass. Voting-machine.....	695,925	Apr. 8	1025	224 229 230	99	237
Bardwell, Frederick A. (See Bardwell, Arthur F., assignor.)						
Barrenz, Adam, New York, N. Y. Illuminating device for bakers' ovens.....	711,931	Oct. 28	2976	655	101	670
Barfus, Edward G., et al. (See Gibbons, Pierce F., assignor.)						
Barz, Byron L., Columbus, Ohio. Garment-supporter.....	707,070	Aug. 19	2049	457	100	1569
Barzer, Robert N., Hopedale, Ill. Smoking-pipe.....	711,691	Oct. 21	2194	547	101	550
Barzer, William M. and F. J. Burs, Hebron, Nebr. Combined letter-file and copy-holder.....	692,971	Feb. 11	1397	303	98	1112
Barginde, Ewald, Chicago, Ill. Device for muting violins.....	714,658	Dec. 12	7	2	101	1838
Baringer, Irvin V. (See Widenhofer, Michael J., assignor.)						
Bark, Henry, Yonkers, N. Y. Horse-muzzle.....	691,097	Jan. 14	1365	310	98	299



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Barker, Charles L., Norwalk, Conn. Bearing-support for engines .....	712,895	Nov. 4	814	189	101	1064
Barker, England J., Morgan Park, Ill. Roller for winding paper on pasteboard tubes ..	697,776	Apr. 15	2594	575	99	580
Barker, Fred, Paterson, N. J. Manhole-cover .....	694,455	Mar. 4	228	50	98	1761
Barker, Gerald, Westminster, England. Overhead railway, elevated track, bridge, &c. ....	712,896	Nov. 4	815	189	101	1064
Barker, James, Philadelphia, Pa. Grate-bar .....	694,601	Mar. 4	511	111	98	1821
Barker, James, Detroit, Mich. Arm-rest for books .....	700,006	May 13	1937	390	99	1537
Barker, James, assignor to C. F. Backus, Detroit, Mich. Loose-leaf ledger .....	700,604	May 20	2894	665	99	1803
Barker, John, Seattle, Wash. Apparatus for raising sunken vessels .....	692,001	Jan. 28	3088	694	98	692
Barker, John C., assignor of one-half to W. H. Hawkes, Seattle, Wash. Window-shade bracket .....	714,854	Dec. 2	425	91	101	1920
Barker, Lewis W., Clinton, Iowa. Mail-pouch crane and hanger .....	712,897	Nov. 4	816	190	101	1064
Barker, Ruben F., <i>et al.</i> (See Prescott, De Witt C., assignor.) .....						
Barker, Ruben F., assignor of one-half to M. Corry, Marinette, Wis. Pawl-and-ratchet mechanism .....	693,344	Feb. 11	2127	467	98	1264
Barker, Ruben F., assignor of one-half to M. Corry, Marinette, Wis. Band-saw mill .....	716,169	Dec. 16	2940	645 646	101	2481
Barker, Ruben F., and M. Corry, Marinette, Wis. Steam set-works for sawmills .....	698,243	Apr. 22	3488	767 768	99	788
Barker, Thomas. (See Hoyle and Barker.) .....						
Barker, Walter H., Leytonstone, England. Engine or motor .....	696,663	Apr. 1	503	116	99	100
Barker, William, <i>et al.</i> (See Tittle, Horatio S., assignor.) .....						
Barker, William B., Liverpool, England. Marine signaling apparatus .....	716,617	Dec. 23	3858	841	101	2689
Barkhausen, Karl G., Hanover, Germany. Distributing-tank .....	690,390	Jan. 7	12	3	98	6
Barkley, Charles W., Seward, Nebr. Penholder .....	691,098	Jan. 14	1366	310	98	300
Barkley, James. (See Moore, Otto C., assignor.) .....						
Barkley, Samuel W. (See Foss, William W., assignor.) .....						
Barlet, Frédéric, St. Etienne, France, assignor to W. T. P. Hollingsworth, Paterson, N. J. Loom .....	706,376	Aug. 5	746	163 164	100	1267
Barley, Joseph C., York, Pa. Lifting-jack .....	706,880	Aug. 12	1702	381	100	1482
Barlow, Howard E., Providence, R. I., assignor of one-half to L. H. Schneider, Boston, Mass. Igniter for explosive-engines .....	710,312	Sept. 30	4479	1011	100	2966
Barmer Bank-Verein, Hunsberg, Fischer & Comp. (See Szczepanik, Jan, assignor.) ..						
Barnard, Charles A. (See Ewert, Philo C., assignor.) .....						
Barnard, Charles M., assignor of one-fourth to M. Gruber, St. Louis, Mo. Smoke-consuming furnace .....	700,605	May 20	2896	665	99	1803
Barnard, Davis, assignor to Dave Barnard & Co., Bakersfield, Cal. Acetylene-gas generator .....	712,474	Nov. 4	12	5	101	899
Barnard, Fayette B., Dayton, Ohio, assignor, by mesne assignments, to National Cash Register Company, Jersey City, N. J. Cash-register .....	707,195	Aug. 19	2290	512 513	100	1621
Barnard, Frank L., Saugus, Mass. Garment-supporter .....	712,475	Nov. 4	14	5	101	899
Barnard, Harry, Hamilton, Canada. Wheel-trie .....	712,033	Oct. 28	3174	693	101	708
Barnard, John H., assignor of one-half to B. H. G., H. B., and C. G. Atha, Newark, N. J. Transmitting power for performing useful work .....	696,301	Mar. 25	3703	823 829	98	2532
Barnard and Leas Manufacturing Company. (See Cornwall, John B., assignor.) ..						
Barnard, Percy A., <i>et al.</i> (See Bryant, John M., assignor.) .....						
Barnard, Thomas K., Hammersmith, London, England. Photochromoscopic apparatus. ....	710,337	Sept. 30	4354	978 979	100	2940
Barnd, Nicholas J., and W. H. Busse, Morris, Minn. Rein-holder .....	692,416	Feb. 4	310	84	98	870
Barnes, Albert M. (See Rose, Gwynn, and Barnes.) .....						
Barnes, Charles, and F. Mawer, Lincoln, England. Draft-preventer .....	712,240	Oct. 28	3552	778	101	782
Barnes, Charles H., Ilion, assignor to G. B. Barnes, Gouverneur, N. Y. Bevel-protractor. ....	716,170	Dec. 16	2944	616	101	2482
Barnes, Clarence J., Liverpool, N. Y. Combination-wrench .....	690,688	Jan. 7	615	133	98	130
Barnes, Clarence J., Liverpool, N. Y. Wrench .....	707,895	Aug. 26	3701	831	100	1925
Barnes, Edwin M., assignor of one-half to R. Graham and E. R. M. Pierce, Sacramento, Cal. Truing device for triple cylinders of air-brakes .....	714,631	Nov. 25	4197	928	101	1810
Barnes & Erb Company. (See Benjamin, Dana H., assignor.) .....						
Barnes, Francis S., <i>et al.</i> (See Tripp, Bradford H., assignor.) .....						
Barnes, George A. (See Musgrave and Barnes.) .....						
Barnes, George B. (See Barnes, Charles H., assignor.) .....						
Barnes, Guy, Milton, Kans. Animal-poke .....	712,241	Oct. 28	3553	778	101	782
Barnes, James. (See Cone, John W., assignor.) .....						
Barnes, James A., Oshkosh, Wis. Tenoning-machine .....	696,537	Apr. 1	259	60	99	58
Barnes, James C., Sydney, New South Wales, Australia, assignor to R. H. W. Biggs, London, England. Method of and apparatus for driving the cutters in machine sheepshears or other like machines .....	713,378	Nov. 11	1784	401	101	1279
Barnes, James P., Elma, assignor of one-half to F. M. Bennett and J. L. Hall, Emma, Miss. Plow .....	697,389	Apr. 8	1876	419	99	419
Barnes, James W., Beaverton, Oreg. Feed-trough .....	705,896	July 29	4961	1079	100	1064
Barnes, John A. (See Tilton, Ralph, assignor.) .....						
Barnes, John H. (See Gates, William, assignor.) .....						
Barnes, John H. (See Gates, William and L. W., assignors.) .....						
Barnes, John I., Blooming Grove, Tex. Animal-poke .....	703,367	July 1	7	2	100	4
Barnes, John M., Fresno, Cal. Fertilizing-vine cutter .....	715,535	Dec. 9	1682	367	101	2186
Barnes, John S., Detroit, Mich. Mold for collar-buttons .....	700,606	May 20	2898	666	99	1804
Barnes, John W. (See Croker, Samuel H., assignor.) .....						
Barnes, John W., San Francisco, Cal. Plow .....	711,091	Oct. 14	1332	289	101	290
Barnes, Jonathan, R. W. and W. H. Kenyon, Accrington, England. Carpet-sweeper .....	698,098	Apr. 22	3198	670	99	728
Barnes, Jonathan, R. W. and W. H. Kenyon, Accrington, England. Carpet-sweeper .....	708,614	Sept. 9	1101	247	100	2215
Barnes, Lewis E., Methuen, Mass. Folding-machine .....	702,085	June 10	1459	327 328	99	2426
Barnes, Mortimer G. (See Rickey and Barnes.) .....						
Barnes, Norman A., <i>et al.</i> (See Pearce, William, assignor.) .....						
Barnes, Vincent E., Westfield, Mass. Metallic railway-tie .....	695,433	Mar. 18	2051	461	98	2179
Barnes, Wilbur L. (See Wolfe, Andrew C., assignor.) .....						
Barnes, William F., assignor to W. F. & John Barnes Company, Rockford, Ill. Tool-carriage for lathes .....	699,440	May 6	599	137	99	1299
Barnes, William T. S. (See Hughes and Barnes.) .....						
Barnett, Berita, London, England. Smoke-bell .....	710,834	Oct. 7	840	183	101	171
Barnett, Bertram, St. Louis, Mo. Rail-joint .....	694,988	Mar. 11	1158	253	98	1976
Barnett, George W., Keokuk, Iowa. Display-rack .....	692,500	Feb. 4	491	115	98	899
Barnett, Henry B., assignor to Nashawannuck Mfg. Co., East Hampton, Mass. Loop for suspender-ends .....	710,092	Sept. 30	4072	918	100	2878

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Barnett, James E. (See Davis, Augustus H., assignor.)						
Barnett, Mildred T., San Francisco, Cal. Abdominal supporting-bandage	706,715	Aug. 12	1371	306	100	1412
Barnett, Morris, Washington, D. C. Floor-covering	691,434	Jan. 21	2032	455	98	458
Barnett, Morris, Washington, D. C. Suspenders	695,909	Mar. 25	2914	660	98	2370
Barney, Alice P., Washington, D. C. Parlor-car chair	697,777	Apr. 15	2595	575	99	581
Barney, Alice P., Washington, D. C. Wardrobe	697,778	Apr. 15	2597	576	99	581
Barney, Alice P., Washington, D. C. Chair-fastening device	712,808	Nov. 4	819	191	101	1065
Barney, Nathan, New York, N. Y. Ash-cart	697,779	Apr. 15	2599	576	99	582
Barney & Smith Car Company, (See Tesseymann, Henry, assignor.)						
Barnhart, Aaron E., assignor to O. Z. Barnhart, Millersburg, Pa. Oil-sand flooder	692,758	Feb. 4	953	216	98	992
Barnhart, Oscar Z. (See Barnhart, Aaron E., assignor.)						
Barnhart, Robert L., Charleroi, Pa. Motor	705,897	July 29	4962	1080	100	1064
Barnick, Frank L., assignor to C. W. Ostertag, New York, N. Y. Hinge	692,175	Jan. 28	3392	768	98	753
Barnickol, Karl, Rome, N. Y. Sash-holder	715,536	Dec. 9	1684	368	101	2197
Barnum, Paul, San Francisco, Cal. Window-sash	698,168	Apr. 22	3343	731	99	757
Barnum, Paul, San Francisco, Cal. Sash-cord fastener	700,292	May 20	2312	526	99	1684
Baron, Robert (See McCullough, Blaney, and Baron)						
Barr, Addison, assignor of three-fourths to E. J. A. Drennen and E. E. Moore, Martins Ferry, Ohio. Rail-joint	693,812	Feb. 18	3012	666	98	1465
Barr, Alexander, Partickhill, Scotland. Pipe-coupling	691,346	Jan. 21	1872	422	98	424
Barr, Archibald, Glasgow, Scotland, and W. Stroud, Leeds, England. Mounting for range-finders	710,737	Oct. 7	648	135	101	132
Barr, Charles, et al. (See Into, John M., assignor.)						
Barr, Frederick, New York, N. Y. Vegetable or meat cutter	706,881	Aug. 12	1705	381	100	1488
Barr, Henry M., Wadsworth, Nev. Tube-expander	707,292	Aug. 19	2472	554	100	1659
Barr, Jason R. (See Saxton, Thomas G., assignor.)						
Barr, John H., and C. V. Pyke, Kansas City, Mo. Mail-marking machine	692,176	Jan. 28	3394	769	98	754
Barr, Mark, Broadheath, assignor to Linotype Company, Ltd., London, England. Pantograph engraving-machine	706,007	Aug. 5	8	2	100	1118
Barr, Ralph W. (See Young and Barr.)						
Barr, Richard, Ravine, Pa. Combination measuring instrument	703,109	June 24	3375	775	99	2855
Barracough, Arthur and H., Halifax, England. Making colored designs on textile goods	713,837	Nov. 18	2651		101	1475
Barracough, Harry. (See Barracough, Arthur and H.)						
Barrard, John B., et al. (See Miller, John S., assignor.)						
Barrar, William H., Boston, Mass. Floor construction	702,616	June 17	2435	555	99	2646
Barrath, Edward, assignor of one-half to H. F. Mayer, Philadelphia, Pa. Non-refillable bottle	712,172	Oct. 28	3438	754	101	758
Barrath, Edward, assignor of two-thirds to J. J. Keller and A. Beitney, Philadelphia, Pa. Manufacturing artificial ice	704,772	July 15	2609	565	100	560
Barrath, Edward, assignor of two-thirds to J. J. Keller and A. Beitney, Philadelphia, Pa. Congealing body or plate for ice-making machines	705,015	July 22	3159	682	100	690
Barrath, Edward, assignor of two-thirds to A. Beitney and J. J. Keller, Philadelphia, Pa. Manufacturing plate-ice	706,510	Aug. 12	1011	222	100	1335
Barrath, Edward, assignor of two-thirds to A. Beitney and J. J. Keller, Philadelphia, Pa. Apparatus for manufacturing plate-ice	706,511	Aug. 12	1012	223	100	1336
Barrath, Edward, assignor of two-thirds to A. Beitney and J. J. Keller, Philadelphia, Pa. Apparatus for the manufacture of plate or block ice	710,656	Oct. 7	498	104	101	101
Barrelle, Almond. (See Barrelle, Orlando, assignor.)						
Barrelle, Orlando, South Hartford, N. Y., assignor of one-half to A. Barrelle, Memphis, Tenn. Weeding-hoe	702,911	June 24	2984	687	99	2779
Barrett, Albert, Kansas City, Mo. Coin alarm and registering apparatus	704,954	July 15	3026	650	100	648
Barrett Brothers. (See Barrett, Frederick W., assignor.)						
Barrett, Charles E., and J. E. Horne, assignors to J. H. Horne & Sons Company, Lawrence, Mass. Paper-making machine	691,333	Jan. 14	1846	418	98	403
Barrett, Charles E. (See Phillips, Elwood C., assignor.)						
Barrett, Charles B., and E. C. Phillips, Chicago, Ill. Valve for pneumatic tires	693,991	Feb. 25	3403	748	98	1561
Barrett, Charles W., Raleigh, N. C. Lock	697,590	Apr. 15	2262	504	99	513
Barrett, Frederick W., assignor to Barrett Brothers, Springfield, Ohio. Temporary binder	716,363	Dec. 23	3334	728	101	2577
Barrett, Glenn J. (See Fox and Barrett.)						
Barrett, Glenn J., assignor to Fox Machine Company, Grand Rapids, Mich. Type-writing machine	697,430	Apr. 15	1970	436	99	454
Barrett, James, Boston, Mass. Washstand-fixture	690,550	Jan. 7	352	72	98	76
Barrett, James F., Carbondale, Pa. Wrench	712,239	Oct. 28	3551	777	101	782
Barrett, Miles, assignor of one-half to F. H. Hutton, Grand Forks, Canada. Tapping jacket	701,670	June 3	709	157	99	2256
Barrett, Roy, Palmyra, N. Y. Burglar and fire alarm	694,456	Mar. 4	229	50	98	1761
Barrett, Roy, Palmyra, N. Y. Traveling rocking-horse	699,280	May 6	283	65, 66	99	1232
Barrett, William L., Bristol, Conn. Glass-cutter	702,277	June 10	1781	407	99	2492
Barriack, Christopher C. (See Harris and Barriack.)						
Barron, George F., assignor of one-fourth to F. Holway, Palmyra, N. Y. Game device	700,887	May 27	3471	796	99	1940
Barron, James, San Francisco, Cal. Wire-splicing machine	713,940	Nov. 18	2866	636	101	1530
Barron, Walter J., Brooklyn, N. Y. Machine for separating gold, &c	710,738	Oct. 7	649	135	101	132
Barron, Walter J., Brooklyn, assignor to Densmore Typewriter Company, Syracuse, N. Y. Type-writing machine	694,602	Mar. 4	512	111	98	1882
Barron, Walter J., Brooklyn, assignor to Densmore Typewriter Company, Syracuse, N. Y. Type-writing machine	708,792	Sept. 9	1450	331	100	2291
Barron, Walter J., Brooklyn, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine	715,943	Dec. 16	2499	551	101	2390
Barrow, Jacob, Winfall, Ind. Sash-balance	706,008	Aug. 5	10	3	100	1118
Barrow, Thomas, Cleveland, Ohio, assignor, by mesne assignments, to Chicago Pneumatic Tool Company. Pneumatic drill	694,714	Mar. 4	720	158	98	1863
Barrows, Charles S., Rochester, N. Y., assignor, by mesne assignments, to Albaugh Bros., Dover and Company, Chicago, Ill. Sash-holder	699,066	Apr. 29	5107	1129	99	1149
Barry, Andrew L. (See Barry, Mack C., assignor.)						
Barry, Charles E., Schenectady, N. Y., assignor to General Electric Company. Train-control system	705,016	July 22	3161	682	100	690
Barry, Charles E., Schenectady, N. Y., assignor to General Electric Company. Insulator for high-potential lines	717,322	Dec. 30	5295	1152	101	3021
Barry, Henry, San Francisco, Cal. Folding railway velocipede	704,672	July 15	2426	524	100	523
Barry, Herbert A. L., Westminster, England. Means for dumping or discharging materials from buckets	702,912	June 24	2985	687	99	2779
Barry, Herbert A. L., Westminster, England. Means for raising or lowering materials	707,542	Aug. 26	2937	665	100	1772



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Barry, Herbert A. L., Westminster, England. Winch.....	715,742	Dec. 16	2073	465	101	2298
Barry, James H., London, England. Pedal for velocipedes.....	697,780	Apr. 15	2600	576	99	582
Barry, Mack C., assignor of one-half to A. L. Barry, Atlanta, Ga. Crossing-gate.....	703,754	July 1	699	155	100	140
Barry, Robert J., Westboro, Canada. Controlling attachment for trolley-poles.....	699,643	May 13	994	231 232	99	1394
Barry, Thomas J. (See Busch, Gull, and Barry.)						
Barry, Walter F., Orange, N. J. Tie-table holder.....	698,893	Apr. 29	4781	1051	99	1081
Barsaleaux, Joseph, and R. C. Hall, Sandyhill, N. Y. Steering-gear for automobiles.....	691,519	Jan. 21	2184	489	98	490
Barschall, Max, New York, N. Y., assignor to Ausfuhrungen fuer Eisenbahn Oberbau, Abth. Stossfangschiene, Siegm. Epsteinstein, Berlin, Germany. Rail-joint.....	708,009	Sept. 2	17	4	100	1984
Barson, Fred, Sheffield, England. Door for railway-wagons or the like.....	709,193	Sept. 16	2281	518	100	2479
Barstow, Holland M. (See Painter, Arthur, assignor.)						
Barsteavitz, Victor, Chicago, Ill. Bottle.....	710,314	Sept. 30	4481	1011	100	2967
Bartel, William P., Waltham, Mass. Lacing-hook.....	704,609	July 15	2324	504	100	501
Bartel, William P., assignor to Judson L. Thomson Manufacturing Company, Waltham, Mass. Tubular-rivet cap.....	695,265	Mar. 11	1771	392	98	2162
Bartell, Reinhold, Philadelphia, Pa. Pocket.....	709,460	Sept. 23	2828	635 636	100	2608
Bartelt, Friedrich L., Brislington, England. Metal can or receptacle for packing soap or other soluble materials.....	698,169	Apr. 22	3348	732	99	758
Barth, George E., Redlake Falls, Minn. Plow.....	701,127	May 27	3919	900	99	2085
Barth, Gustav A., Stapleton, N. Y. Duplex wafer.....	699,065	Apr. 29	5063	1119	99	1140
Barth, Henry, Cincinnati, Ohio. Type-casting.....	708,010	Sept. 2	18	4	100	1985
Barth, William C. (See Brock and Barth.)						
Barth, William L., Batllecreek, Mich. Automatic releasing device for burial apparatus.....	710,406	Oct. 7	18	4	101	6
Barthel, Paul. (See Kaschewitz and Barthel.)						
Barthels, Philipp. (See Mehlfeld, Wilhelmine, assignor.)						
Bartholomew, J. B. (See Motsinger, Homer N., assignor.)						
Bartholomew, John B., assignor to Avery Manufacturing Company, Peoria, Ill. Cultivator.....	701,003	May 27	3682	845	99	1982
Bartholomew, John B., assignor to Avery Manufacturing Company, Peoria, Ill. Cultivator.....	701,004	May 27	3686	845	99	1983
Bartholomew, John B., assignor to Avery Manufacturing Company, Peoria, Ill. Cultivator.....	701,005	May 27	3692	846	99	1985
Bartholomew, John B., assignor to Avery Manufacturing Company, Peoria, Ill. Cultivator.....	701,006	May 27	3694	846	99	1985
Bartholomew, John B., assignor to Avery Manufacturing Company, Peoria, Ill. Cultivator.....	701,007	May 27	3697	847 848	99	1986
Bartholomew, John B., assignor to Avery Manufacturing Company, Peoria, Ill. Cultivator.....	701,008	May 27	3700	848 849	99	1987
Bartholomew, John B., assignor, by mesne assignments, to Avery Manufacturing Company, Peoria, Ill. Pneumatic stacker.....	702,786	June 17	2713	623 624	99	2705
Bartholomew, John B., assignor, by mesne assignments, to Avery Manufacturing Company, Peoria, Ill. Straw-stacker.....	706,214	Aug. 5	403	86	100	1199
Bartholomew, William S., Wyncote, Pa., assignor to Adams & Westlake Company, of Illinois. Knob attachment.....	707,375	Aug. 19	2619	590	100	1689
Bartholomew, William S., Wyncote, Pa., assignor to Adams & Westlake Company, of Illinois. Latch.....	712,899	Nov. 4	821	191	101	1065
Bartle, Newton D. (See Sharpe, John E., assignor.)						
Bartle, Rudolph F., Falls Church, Va., and A. B. Hoen, Baltimore, Md. Producing designs or delineations on metal surfaces.....	702,693	June 17	2575	593	99	2676
Bartleson, George A., et al. (See Hemphill, Henry B., assignor.)						
Bartlett, Charles C. (See Kellond, Robert A., assignor.)						
Bartlett, Edwin D., South Tottenham, England. Photographic camera.....	695,527	Mar. 18	2225	503 504	98	2215
Bartlett, Edwin D., South Tottenham, London, England. Photographic camera.....	701,786	June 3	942	201 202	99	2297
Bartlett, Frank L., Canon City, Colo. Furnace for refining lead and zinc fume.....	692,972	Feb. 11	1400	303	98	1113
Bartlett, Frank L., Canon City, Colo., assignor to United States Smelting Company. Refining lead and zinc fumes.....	715,298	Dec. 9	1130	242	101	2085
Bartlett, George F., Jr., Denver, Colo. Box-car loader.....	711,193	Oct. 14	1548	333	101	336
Bartlett, James F., Mayfair, Ill. Waterproof artificial fuel.....	712,635	Nov. 4	333	101	101	968
Bartlett, John, Brooklyn, N. Y. Overshoe for horses.....	708,983	Sept. 16	1845	424	100	2389
Bartlett, Sylvester J. (See Hale and Bartlett.)						
Bartlett, William W., assignor of one-half to F. Lamphier, Wheeler, Mich. Beet-blocker.....	691,579	Jan. 21	2383	512 513	98	510
Bartley, Milton, Polk, assignor of three-tenths to J. M. Murdoch, H. F. McDowell, Pittsburgh, and G. L. Weaver, Philadelphia, Pa. Nut-lock. (Reissue).....	11,963	Jan. 28	3500	791 792	98	776
Bartley, Milton, Polk, assignor to American Nut and Bolt Fastener Company, Pittsburgh, Pa. Nut-lock. (Reissue).....	12,006	July 1	1120	242	100	222
Bartliff, Charles A., St. Louis, Mo. Treating air for forcing malt liquors from kegs.....	708,984	Sept. 16	1846	425	100	2390
Bartliff, Charles A., St. Louis, Mo. Treating air for forcing malt liquors from kegs.....	710,404	Oct. 7	15	4	101	6
Bartliff, Charles A., St. Louis, Mo. Tank for storing compressed hop-air.....	710,405	Oct. 7	16	4	101	6
Bartliff, Charles A., St. Louis, Mo. Apparatus for drawing beer.....	710,739	Oct. 7	652	136	101	133
Bartliff, Charles A., St. Louis, Mo. Dispensing malt liquors.....	712,431	Oct. 28	3908	855	101	858
Barto, Frank, Islip, N. Y. Automatic weighing-machine.....	704,429	July 8	1970	429 430	100	415
Barton, Arthur D., assignor of one-half to B. J. Sanford, Ravenna, Ohio. Trolley-wheel retainer.....	695,997	Mar. 25	3087	700	98	2404
Barton, Charles T. (See Barton, John W., and C. T.)						
Barton, Delbert E., Racine, Wis. Self-locking springless hook.....	703,368	July 1	8	2, 3	100	4
Barton, Elbert W., Windsor, N. Y. Rotary engine.....	700,007	May 13	1698	390 391	99	1537
Barton, Everett A. (See Barton, Harvey E., assignor.)						
Barton, George F., Elmira, assignor of one-half to F. F. Weston, New York, N. Y. Coaster-brake.....	710,556	Oct. 7	311	68	101	62
Barton, Harvey E., Attleboro, Mass., assignor to E. A. Barton, Providence, R. I. Tumbling-machine.....	713,379	Nov. 11	1786	401	101	1279
Barton, Henry J., and A. C. La Bud, Oakbar, Cal. Mining-dredge.....	709,733	Sept. 23	3332	750 751	100	2713
Barton, John W., and C. T., Ellsworth, Kans. Sash-cord pulley.....	697,431	Apr. 15	1973	437	99	455
Barton, Percy C., Childers, via the township of Thorpdale, Victoria, Australia. Wash-board.....	711,275	Oct. 14	1696	366	101	366



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Barton, Robert J., Philadelphia, Pa. Steam-generator.	710,313.	Sept. 30	4480	1011	100	2966
Barton, Robert W., assignor to Holmes-Barton Company, Chicago, Ill. Rotary engine.	691,603	Mar. 4	519	113	98	1823
Barton, Silas H., Enon, Ohio. Magazine-firearm.	713,276	Nov. 11	1582	358	101	1236
Barton, William A., Jersey City, N. J., assignor, by mesne assignments, to W. J. Smart, Brooklyn, N. Y. Atomizing apparatus.	696,158	Mar. 25	3441	772	98	2478
Barton, William C., et al. (See Schulz, Otto C., assignor.)						
Barton, William C., and C. F. Hanson, Chicago, Ill. Safety coat-hook.	697,781	Apr. 15	2601	577	99	582
Bartron, Stockton, Stroudsburg, Pa. Clutch-operating mechanism for winding drums.	712,242	Oct. 28	3554	778	101	783
Bartusch, Oswald G., Brooklyn, assignor to New York Stencil Works, New York, N. Y. Consecutive-numbering apparatus.	708,295	Sept. 2	554	126	100	2094
Baruch, Alphons, Hamburg, Germany. Printing-press.	707,540	Aug. 26	2934	664	100	1771
Baruch, Alphons, Hamburg, Germany. Producing printed matter.	707,541	Aug. 26	2936	665	100	1772
Barwis, Thomas S., Vancouver, Canada. Water-wheel.	706,150	Aug. 5	288	60	100	1176
Bary, Alberto T. de, Buenos Aires, Argentina. Rods for wire fencing.	713,941	Nov. 18	2870	636	101	1521
Bary, Paul, Paris, France. Electrically pulverizing metals.	700,390	May 20	2538	579	99	1726
Basch, David, New York, N. Y. Means for attaching dress-shields to waists.	713,193	Nov. 11	1383	311	101	1197
Basch, David, New York, N. Y. Dress-shield.	715,743	Dec. 16	2074	466	101	2298
Bascom, Silas H., Chicago, Ill. Button-cleaning shield.	702,278	June 10	1782	407	99	2492
Baseman, Ernest. (See Heath and Baseman.)						
Baseman, Ernest, assignor to Bickford and Huffman Company, Macedon, N. Y. Speed mechanism.	717,154	Dec. 30	4977	1080	101	2951
Baseman, Ernest, assignor to Bickford and Huffman Company, Macedon, N. Y. Furrow-opener for seedling-machines.	717,155	Dec. 30	4979	1080	101	2952
Baseman, Ernest, and J. S. Heath, assignors to Bickford and Huffman Company, Macedon, N. Y. Bearing for wheels of agricultural machines or other vehicles.	717,156	Dec. 30	4981	1080	101	2952
Baskett, Thomas J., Dexter, Me. Cooking-crane.	699,066	Apr. 29	5064	1120	99	1111
Basle Chemical Works. (See Bischer, Augustus, assignor.)						
Basle Chemical Works. (See Brack, Johann J., assignor.)						
Basom, Jerome S., assignor to E. K. Thompson & Company, Wilmington, Del. Paper holder.	701,281	June 3	6	2	99	2109
Bass, James M., Sr., Houston, Tex. Combined cotton chopper and cultivator.	692,237	Feb. 4	7	2	98	800
Bass, William E., and A. C. Chase, Lawrence, Mass. Bobbin-holder for spindles.	691,604	Mar. 4	523	113	98	1824
Bassett, Charles A., Anderson, Ind. Watchmaker's tweezers.	696,302	Mar. 25	3708	829	98	2532
Bassett, Elmer C., assignor to P. T. Maguire, Milton, Mass. Stone dressing or polishing tool.	716,171	Dec. 16	2945	646	101	2482
Bassett, George B., Buffalo, N. Y. Water meter.	708,296	Sept. 2	555	126	100	2094
Bassett, Nathan, Philadelphia, Pa., and W. S. Phoenix, Camden, N. J., assignors of one-half to L. Eysenbach, Jr. Intercommunicating telephone-switch.	701,282	June 3	7	2	99	2110
Bassett, Norman C., Boston, Mass., assignor to General Electric Company. Belt-tightener.	706,009	Aug. 5	11	3	100	1118
Bassett, Norman C., Lynn, Mass., assignor to General Electric Company. Brush-holder.	712,477	Nov. 4	17	6	101	900
Bassett, Norman C., Lynn, Mass., assignor to General Electric Company. Controlling-motors from distant points.	713,380	Nov. 11	1787	401	101	1280
Bassett, Norman C., and J. W. Hill, Lynn, Mass., assignors to General Electric Company. Brush-holder.	697,432	Apr. 15	1974	437	99	455
Bassitt, Melvin O., et al. (See Jewell, Danford W., assignor.)						
Bässler, Theodor, Neuss, Germany. Pulp-engine.	716,172	Dec. 16	2946	647	101	2482
Bassoff, Morris, Brooklyn, N. Y. Stem-winding watch.	708,985	Sept. 16	1817	425	100	2390
Bassoff, Morris, Brooklyn, N. Y. Stop-watch.	708,986	Sept. 16	1849	425	100	2390
Bastado, George, Brooklyn, N. Y. Electric-battery compound.	716,636	Dec. 23	3929	101	101	2704
Bastian, Charles L., Chicago, Ill. Siphon-bottle.	711,458	Oct. 21	2043	442	101	453
Bastian, Charles L., Chicago, Ill. Apparatus for carbonating liquids in bottles or other receptacles.	711,459	Oct. 21	2045	443	101	454
Bastian, Charles L., Chicago, Ill. Automatic solution-feeder for carbonating or other machines.	711,460	Oct. 21	2049	444	101	455
Bastian, Charles L., Chicago, Ill. Siphon head.	711,461	Oct. 21	2051	444	101	455
Bastian, Charles O., London, England. Electrolytic electricity-meter.	693,216	Feb. 11	1906	413	98	1215
Bastianello, Pietro, Perth Amboy, N. J. Fire ladder and escape.	692,104	Nov. 28	3280	742	98	730
Bastie, Antoine and J. B., Tarare, France. Embroidering-machine.	714,129	Nov. 25	3290	713	101	1617
Bastie, Jean B. (See Bastie, Antoine and J. B.)						
Bastie, John A., and H. H. Weber, Chicago, Ill. Egg-case.	708,011	Sept. 2	19	4	100	1985
Bastow, Harry, Steubenville, Ohio. Manufacture of handled glassware.	695,782	Mar. 18	2694	612	98	2310
Batault, Emile, Geneva, Switzerland. Electrical commutator.	691,739	Jan. 29	2612	585	98	507
Batault, Emile, Geneva, Switzerland. Alternating-current electric meter.	693,537	Feb. 18	2504	551	98	1361
Batault, Emile, Geneva, Switzerland. Folding opera-glass.	706,512	Aug. 12	1015	221	100	1336
Batchelder, Andrew R., Portsmouth, N. H. Car-replacer.	717,323	Dec. 30	5296	1152	101	3021
Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company. Armature-coil.	696,398	Apr. 1	11	4	99	5
Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company. Support for light-tension trolley-wires.	717,324	Dec. 30	5297	1152	101	3021
Batchelder, Charles A., assignor to D. A. Miller, Brockton, Mass. Hinged split follower.	690,689	Jan. 7	618	135	98	131
Batchelder, Chester S., Spokane, Wash. Furnace.	712,636	Nov. 4	334	78	101	968
Batchelder, Herbert G., Allston, Mass. Bathing apparatus.	714,059	Dec. 2	11	3	101	1839
Batcheller, Birney C., Philadelphia, Pa. Sending apparatus for pneumatic-despatch systems.	700,607	May 20	2900	666	99	1804
Batcheller, Birney C., Philadelphia, Pa. System and apparatus for transmitting carriers in pneumatic-despatch tubes.	706,291	Aug. 5	582	127	100	1233
Batcheller, Birney C., Philadelphia, Pa. Pneumatic time-lock for pneumatic-tube systems.	707,071	Aug. 19	2030	457	100	1509
Batcheller, Walter B., Chicago, Ill., assignor to G. G. Hunter, Des Moines, Iowa. Electric instrument for cutting.	703,369	July 1	10	3	100	4
Batchelor, Edward W., Hammon, N. J. Insulated joint for electrical conductors.	695,705	Mar. 18	2558	579	98	2281
Batchelor, George T., et al. (See Hancock, Henry J., assignor.)						
Batchelor, John A., and F. E. Hall, London, England. Feed mechanism for sewing-machines.	705,633	July 29	4488	974	100	968
Batdorf, Charles S., Brooklyn, N. Y. Coin counting, registering, and wrapping machine.	691,435	Jan. 21	2082	455	98	458
Bate, James R., Baltimore, Md. Machine for making excelsior.	691,523	Jan. 21	2188	490	98	491
Bate, Walter G. (See Rose, Gwynn, and Barnes, assignors.)						
Bateman, Frank, assignor to Bateman Manufacturing Company, Grenloch, N. J. Combined seed-drill and fertilizer distributor.	715,633	Dec. 9	1853	412	101	2331
Bateman, George E., Grand Forks, N. D. Jar attachment.	697,314	Apr. 8	1785	387	99	389
Bateman Manufacturing Company. (See Bateman, Frank, assignor.)						
Bateman, Talbot O., and H. T. Wilson, Fort Worth, Tex. Crude-oil burner.	714,995	Dec. 2	695	145	101	1975

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Bates, A. J. (See Estey, Walter S., assignor.)						
Bates, Adelman M., Chicago, Ill. Making and filling bags.	693,820	Feb. 18	3083	670	98	1468
Bates, Adelman M., Chicago, Ill. Machine for filling bags.	707,514	Aug. 26	2942	666 667	100	1773
Bates, Adelman M., Cleveland, Ohio. Sack, bag, or other flexible receptacle. (Re-issue)	12,062	Dec. 16	3312	723	101	2556
Bates, Alonza M., assignor of one-half to E. A. Bates, Chicago, Ill. Foot-rest and pedal extension for pianos	704,498	July 15	2123	459	100	459
Bates, Arthur C., San Francisco, Cal. Rock-drill.	690,630	Jan. 7	505	110	98	108
Bates, Charles E., Rush, Ky. Plow	710,557	Oct. 7	313	98	101	63
Bates, Darwin, Huyton, and G. W. Peard, Prescott, England. Apparatus for annealing.	716,618	Dec. 23	3860	841 842	101	2600
Bates, E. A. (See Bates, Alonza M., assignor.)						
Bates, Edward C., assignor to Crosby Steam Gage & Valve Company, Boston, Mass. Pressure-gage	701,793	June 3	914	204	99	2299
Bates, Francis C., assignor to Bates-Hawley Postal Box Signals Company, San Jose, Cal. Postal box and signal	707,196	Aug. 19	2293	513 230	100	1622
Bates, Francis G., Philadelphia, Pa. Rotary engine	696,026	Apr. 8	1036	121	99	239
Bates, Francis G., Philadelphia, Pa. Rotary engine	711,092	Oct. 14	1333	289	101	290
Bates, Francis G. and F. H., Philadelphia, Pa. Steam-boiler	691,580	Jan. 21	2285	513	98	510
Bates, Francis G., and B. A. Williams, Philadelphia, Pa. Gas or vapor engine	714,853	Dec. 2	423	90	101	1919
Bates, Frank H. (See Bates, Francis G. and F. H.)						
Bates, Frank H., assignor, by mesne assignments, to W. W. Bates, Philadelphia, Pa. Speed regulating and reversing device for power-transmitting mechanism	704,430	July 8	1974	430	100	415
Bates, Franklin P., assignor to Indianapolis Drop Forging Company, Indianapolis, Ind. Machine for making tubular tool-shanks	690,591	Jan. 7	13	3	98	6
Bates, George A., Brooklyn, N. Y., assignor to Mergenthaler Linotype Co. Linotype-machine	706,513	Aug. 12	1016	224	100	1836
Bates, George L., Nottingham, England. Cock	712,755	Nov. 4	530	123 124	101	1007
Bates-Hawley Postal Box Signals Company. (See Bates, Francis C., assignor.)	713,838	Nov. 18	2652	921	101	1475
Bates, John W., Halesville, Ala. Fender attachment for cultivator-plows	698,624	Apr. 29	4193	595	99	948
Bates, Lindon W., Chicago, Ill. Mouthpiece for suction-dredges	692,815	Feb. 11	1066	239	98	1042
Bates, Lindon W., Chicago, Ill. Hydraulic dredge	692,973	Feb. 11	1401	303 304	98	1113
Bates, Lindon W., Chicago, Ill. Hydraulic dredge	704,231	July 8	1616	350	100	338
Bates, Lindon W., Chicago, Ill. Hydraulic dredge	707,293	Aug. 19	2473	555	100	1659
Bates, Lindon W., Chicago, Ill. Cutter-head for hydraulic dredgers.	709,861	Sept. 30	3589	809	100	2779
Bates, Lindon W., Chicago, Ill. Hydraulic dredge	714,996	Dec. 2	696	146	101	1975
Bates, Lindon W., Chicago, Ill. Suction-dredge	716,173	Dec. 16	2947	647	101	2482
Bates, Madison F., Lansing, Mich. Automobile	706,882	Aug. 12	1707	382	100	1483
Bates, Samuel, North Liberty, Ind. Wire-stretcher	705,634	July 29	4490	974	100	969
Bates, William H., Jackson, Mich. Spring-cushion and its support	701,461	June 3	321	71	99	2175
Bates, William W. (See Bates, Frank H., assignor.)						
Bath, Abraham, New York, N. Y., assignor to Bloomer Vehicle Company. Vehicle frame or running-gear	697,966	Apr. 22	2937	648	99	674
Bath, John, Waltham, Mass. Grinding-machine	707,543	Aug. 26	2938	665 666	100	1772
Batte, Peter P., Petersburg, Va. Sawing-machine	704,170	July 8	1512	324	100	218
Batten, Edward, Kirkcaldy, Scotland. Machinery for use in the manufacture of mosaic or inlaid floor-cloth.	694,233	Feb. 25	3839	851	98	1647
Batten, George B., Dulwich, England. Apparatus for rectifying electric currents	711,276	Oct. 14	1096	366	101	366
Battenfeld, John N., Cleveland, Ohio, assignor to Cleveland Automatic Moulding Machine Company. Machine for molding	706,487	Aug. 5	970	213	100	1312
Battersby, Robert H., Southport, England. Kite	713,381	Nov. 11	1759	402	101	1280
Batterson, Jane E., Grandview, Ohio. Sleeping-car	716,854	Dec. 30	4938	953 954	101	2829
Battistini, Timoleone, Genoa, Italy. Fluid for promoting combustion.	700,888	May 27	3472		99	1940
Battle Creek Iron Works Company. (See Burns, Henry H., assignor.)						
Battle Creek Novelty Company. (See Stoddard, Oscar, assignor.)						
Battle, S. Westray, et al. (See Buchanan, William A., assignor.)						
Battles, William W., San Jose, Cal. Sash-fastener	694,234	Feb. 25	3842	851	98	1648
Batzel, Seth L., Reading, Pa. Crane	692,596	Feb. 4	676	157	98	937
Baucus, Joseph D. (See Ruckmick, Alban V., assignor.)						
Baudry, Albert, Kiev, Russia. Purifying sugar-juice by means of electrodialysis	711,375	Oct. 14	1882	410 411	101	407
Bauer, Aleck, assignor to Bauer & Black, Chicago, Ill. Folding display-box.	710,407	Oct. 7	19	5	101	7
Bauer & Black. (See Bauer, Aleck, assignor.)						
Bauer & Black. (See McAllister, Elbert W., assignor.)						
Bauer & Black. (See Müller, Walter J., assignor.)						
Bauer, Charles F., assignor of one-half to G. H. Bain, McConnellsville, Ohio. Pipe-tongs.	700,008	May 13	1700	391	99	1578
Bauer, Charles L., assignor to Warder, Bushnell & Glessner Co., Springfield, Ohio. Painting apparatus	703,370	July 1	11	3	100	5
Bauer, Frank. (See Arnold, Harry H., assignor.)						
Bauer, Heinrich, New York, N. Y. Catamenial bandage	696,538	Apr. 1	262	61	99	59
Bauer, John, New York, N. Y. Fender or guard for tramway-cars	705,814	July 29	4319	1046	100	1035
Bauer, Martin, Cleveland, Ohio. Combined ladder and scaffold.	715,944	Dec. 16	2505	551 552	101	2391
Bauer, William, Loyal, Wis. Windmill	696,622	Apr. 1	415	96	99	91
Bauermeister, William, assignor to Hayden-Corbett Chain Company, Columbus, Ohio. Power-hammer	706,151	Aug. 5	289	60.61	100	1176
Bauers, Richard, Johnstown, Pa. Ice-cream can	705,551	July 29	4345	939	100	940
Baughman, Charles W., Baltimore, Md. Skirt-holder	709,862	Sept. 30	3591	810	100	2780
Baughman, Edson C., Topeka, Kans. Ice-cream dipper	708,987	Sept. 16	1851	425 426	100	2391
Baughman, Ella M. (See Baughman, Henry C., assignor.)						
Baughman, Henry C., assignor to E. M. Baughman, Baltimore, Md. Drying apparatus	708,516	Sept. 9	941	213	100	2184
Baughman, Jacob S., Burlington, Iowa. Indicator	702,913	June 24	2987	688	99	2780
Baughman, Milo W. (See Carman, Elijah A., assignor.)						
Baughman, Ves, Marysville, Ohio. Combination sheep-feeding rack and shearing-table.	708,297	Sept. 2	558	126 127	100	2095
Baughn, Samuel C., Jr., Comer, assignor to T. W. Cooper, Beechgrove, Ky. Nut-lock	709,433	Sept. 16	2753	617	100	2581
Baum, Clarence M., deceased; H. C. Baum, Reading, Pa. administrator. Steam-separator.	692,597	Feb. 4	678	158	98	937



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Baum, Frank G., Stanford University, Cal., assignor to Stanley Electric Manufacturing Company, Pittsfield, Mass. Compensation of generators or motors.....	698,244	Apr. 22	3491	768	99	789
Baum, Frank G., Stanford University, Cal., assignor to Stanley Electric Manufacturing Company, Pittsfield, Mass. Means for compensating generators or motors.....	698,245	Apr. 22	3492	768	99	789
Baum, Howard C., administrator. (See Baum, Clarence M.)						
Baum, William C., et al. (See Garson, Julius H., assignor.)						
Bauman, William, Waterloo, Iowa. Buckle-chafe.....	697,433	Apr. 15	1978	437	99	456
Baummann, Erhard, Amberg, Germany. Locking device for swinging handles.....	696,927	Apr. 8	1039	231	99	239
Baumeister, Auguste, Hagenau, Germany. Dental floss-holder.....	691,551	Jan. 21	2287	514	99	511
Baumeister, Wilhelm, and S. Adler, assignors to Winter & Adler, Vienna, Austria-Hungary. Device for holding cigars and cigarettes.....	710,537	Oct. 7	500	105	101	101
Baumgart, August, Cornlea, Nebr. Life-boat.....	701,128	May 27	3922	901	99	2035
Baumgarten, Albert. (See Coombes, James, assignor.)						
Baumgarten, Albert, Freeport, Ill. Cork-extractor.....	696,390	Apr. 1	12	4	99	5
Baumgarten, Albert, Freeport, Ill. Lemon-squeezer.....	703,517	July 1	2556	59	100	52
Baumgarten, Albert, Freeport, Ill. Squeezer.....	703,518	July 1	2558	59	100	52
Baumgarten, Albert, Freeport, Ill. Coin-controlled apparatus.....	705,017	July 22	3164	683	100	691
Baumgarten, Albert, Freeport, Ill., assignor to McNeely Bros., Marshalltown, Iowa. Mat.....	690,551	Jan. 7	353	72	98	77
Baumgarten, Carl G., Sweet Home, Tex. Mat for presses.....	695,266	Mar. 11	1772	392	98	2102
Baumgarten and Company. (See Carroll, Arthur B., assignor.)						
Baumgartner, Ernest, Fairview, Pa. Device for promoting and controlling combustion.....	705,635	July 29	4491	975	100	969
Baur, Albert, Mulhouse, assignor to Fabriques de Produits Chimiques de Thann & de Mulhouse, Thann, Germany. Separating orthotoluenesulfochlorid.....	692,598	Feb. 4	679		98	937
Baur, Carl. (See Kempf and Baur.)						
Baur, Charles E., Cripple Creek, Colo. Curtain-fixture.....	696,308	Mar. 25	877	829	98	2532
Baur, Eugen. (See Kempf and Baur.)						
Bausch, Edward, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Knife for microtomes.....	708,298	Sept. 2	558	127	100	2095
Bausch, Edward, and G. Hommel, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Binocular telescope.....	712,113	Oct. 23	3325	729	101	737
Bausch & Lomb Optical Company. (See Bausch, Edward, assignor.)						
Bausch & Lomb Optical Company. (See Bausch and Hommel, assignors.)						
Bausch & Lomb Optical Company. (See Klein, Rudolph, assignor.)						
Bausen, Andreas, Würzburg, Germany. Apparatus for drying hair.....	692,105	Jan. 28	3281	742	98	730
Baush, William H., Springfield, Mass. Machine-tool construction.....	699,233	Sept. 16	2398	542	100	2505
Baxter, Daniel N., assignor of one-half to J. A. Ray, Wichita, Kans. Boiler-cleaner.....	702,599	Feb. 4	680	158	98	938
Baxter, William D., Ewing, Nebr. Draft-equalizer.....	710,558	Oct. 7	314	68	101	68
Bay, John S., Denver, Colo. Spring-motor.....	712,482	Oct. 28	3910	856	101	858
Bay State Corset Co. (See Andrews, James C., assignor.)						
Bay State Electric Heat & Light Company. (See Porter, Edwin F., assignor.)						
Bayard, Hyram J., Chicago, Ill. Toy bow.....	695,596	Mar. 18	2373	537	98	2245
Bayard, Jean, Lyons, France. Water-supplying device or the like.....	695,367	Mar. 11	1949	434	98	2138
Bayler, Christian, New York, N. Y. Lock.....	711,376	Oct. 14	1884	411	101	408
Bayerdorfer, Frank, assignor to P. Whitney, New York, N. Y. Speed-recording apparatus.....	716,364	Dec. 23	3335	728	101	2577
Bayes, William. (See McKee, Bayes, and Heyer.)						
Bayler, Adolph, assignor to T. Adams, Sr., Brooklyn, N. Y. Wrapping-machine.....	693,099	Feb. 11	1626	355	98	1160
Bayley, Perry H., Sidney, Ohio. Soldering-iron heater.....	698,894	Apr. 29	4781	1051	99	1081
Baylis, Robert N., Englewood, N. J. Antifluctuating device for gas-service pipes.....	699,231	May 6	284	66	99	1232
Bayne, Lester H., Washington, assignor of one-fourth to T. B. Crouch, Bower Hill, Pa. Tramway-switch.....	692,759	Feb. 4	935	216	98	993
Bayne, William S., Chillicothe, Ohio. Table.....	699,634	May 13	996	232	99	1394
Baynes, Edward G., Buffalo, N. Y. Caster.....	713,839	Nov. 18	2632	591	101	1475
Baynes, James B. (See Bodman, Walter L., assignor.)						
Bayno, Maurice, Cedarhurst, N. Y. Electrical cooking-range and broiler.....	716,365	Dec. 23	3338	729	101	2578
Bayno, Maurice, Cedarhurst, N. Y. Electrical cooking apparatus.....	716,366	Dec. 23	3340	730	101	2578
Bazlen, Max, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen, Germany. Making hydrosulfites.....	692,760	Feb. 4	937		98	994
Bazlen, Max, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen, Germany. Making aromatic aldehyde and acid.....	698,355	Apr. 22	3672		99	826
Bazlen, Max, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen, Germany. Solid alkaline hydrosulfites and making same.....	711,377	Oct. 14	1885		101	408
Bazley, William H., Whitman, Mass. Acetylene-gas generator.....	699,645	May 13	998	232	99	1394
Bazzell, Samuel K. S. (See Penn, John D., assignor.)						
Beach, Charles L., Ann Arbor, Mich. Top plate for stoves.....	715,945	Dec. 16	2508	552	101	2392
Beach, Clarence E., Binghamton, N. Y., assignor to Star Electric Company. Apparatus for the transmission of signals.....	697,065	Apr. 8	1293	287	99	203
Beach, Edward. (See Hartley, Rivers, and Beach.)						
Beach, Fred H. (See Knowlton and Beach.)						
Beach, H. H. (See Brightwell, Amazon W., assignor.)						
Beach, Harry E., Newark, assignor, by mesne assignments, to G. H. Davis, Llewellyn Park, West Orange, N. J. Electrical self-playing musical instrument.....	709,295	Sept. 16	2483	559	100	2523
Beach, Harry E., Newark, assignor, by mesne assignments, to G. H. Davis, Llewellyn Park, West Orange, N. J. End-fastener for perforated music-sheets.....	709,296	Sept. 16	2484	559	100	2524
Beach, Harry L., assignor, by mesne assignments, to Meek and Beach Company, Coshocot, Ohio. Advertising device.....	701,249	May 27	4129	950	99	2077
Beach, Isaac D., assignor of two-thirds to R. W. Fisher and F. M. Wells, Marblehill, Mo. Dowel-plate.....	695,267	Mar. 11	1773	392	98	2102
Beach, Milo D., Litchfield, Conn., assignor to Sharples Company, Chicago, Ill. Acid mixer for facilitating the testing of milk and cream.....	709,461	Sept. 23	2831	696	100	2098
Beacon Trust Company, trustee. (See Sturckler, John D., assignor.)						
Beadle, Clayton. (See Cross, Bevan, and Beadle.)						
Beaule, George M., Shickshinny, Pa. Spinning-band.....	708,988	Sept. 16	1853	426	100	2391
Beal, Francis R., Northville, Mich. Refrigerator.....	705,510	July 22	4192	912	100	896
Beal, John, Denver, Colo. Surveying instrument.....	702,354	June 10	1922	438	99	2519
Beal, Warren V., and S. Smith, Redwood, Nebr. Metal railway-tie.....	692,949	Feb. 4	681	158	98	938
Beale, Joseph G., Leechburg, Pa. Bicycle-support.....	711,462	Oct. 21	2153	444	101	435
Beall, Edmund N., St. Louis, Mo. Rubber-dam holder.....	702,394	June 17	2405	457	99	2557
Beall, Thomas H. C., Cicero, Ind. Washing-machine.....	707,072	Aug. 19	2053	458	100	1570



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Beals, Erl V., Boston, Mass. Machine for producing printing-bars.....	696,360	Mar. 25	3854	857 858 859 860	98	2562
Beals, Erl V., Boston, Mass. Indicator.....	698,356	Apr. 22	3674	811	99	826
Beals, Erl V., Boston, Mass. Spacing attachment for type-writing machines.....	700,608	May 20	2905	685	99	1805
Beam, Aron M., Denver, Colo. Ore crushing and pulverizing machinery.....	691,582	Jan. 21	2288	514	98	511
Beam, Aron M., Denver, Colo. Ore-roasting apparatus.....	708,615	Sept. 9	1102	247	100	2215
Beam, Eli, Vancouver, Canada. Coping tool or chisel.....	695,733	Mar. 18	2095	612	98	2310
Beam, George W., assignor of one-half to J. A. Parker, Robinson, Ill. Pitman-rod connection.....	698,357	Apr. 22	3676	811	99	827
Beam, Jacob B. (See Campbell and Beam.).....						
Beam, John A., Baden, Canada. Threshing-machine.....	690,690	Jan. 7	619	135	98	131
Beam, Mathew M., Oldforge, Pa. Non-refillable bottle.....	712,173	Oct. 28	3439	754	101	758
Beam, William D., assignor to W. D. Elger, New York, N. Y. Overseaming and blind-stitching attachment for sewing-machines.....	704,291	July 8	1726	376	100	363
Beamer, Frank, Logansport, Ind. Lemon-juice extractor.....	713,382	Nov. 11	1790	402	101	1281
Beamon, Frank L., Sutton-Coldfield, England. Pneumatic tread or tire.....	706,293	Aug. 5	587	403	100	1234
Beam, Alfred, Guildford, England, assignor to Mergenthaler Linotype Company. Composing mechanism of type-setting or linotype machines.....	691,583	Jan. 21	2289	515	98	511
Bean, Edwin E., Warner, N. H., assignor to Loop-Lock Machine Company, Portland, Me., and Boston, Mass. Shoe-sewing machine.....	697,600	Apr. 15	2264	505 506	99	513
Bean, James E., (by judicial change of name now Edward Bean Parkhurst,) Milwaukee, Wis. Sparking mechanism for gas or gasoline engines.....	713,194	Nov. 11	1384	312	101	1197
Bean, John, Los Gatos, Cal. Nozzle.....	700,000	May 13	1701	391	99	1538
Bean, James M. G., Fruita, Colo. Pole-changer.....	703,325	June 24	3604	828	99	2000
Beardsley, Gregory, and Kirshner, et al. (See Bumbarger, Clarence R., assignor.).....						
Beardsley, Henry W., Buffalo, N. Y. Step structure.....	697,434	Apr. 15	1979	438	99	456
Beardsley, Otis L., Austin, Ill. Chair.....	694,457	Mar. 4	231	50, 51	98	1761
Bearer, Albert J., New Kensington, assignor to C. A. Schilling, Pittsburg, Pa. Vaginal speculum.....	693,345	Feb. 11	2123	468	98	1624
Bearman, Thomas, Windsor, Canada. Ditching-machine.....	708,616	Sept. 9	1104	248	100	2216
Beasley Brush Company. (See Beasley, George H., assignor.).....						
Beasley, George H., assignor to Beasley Brush Company, Canton, Mass. Brush.....	699,474	May 6	661	153	99	1313
Beaton, Allan J., Southington, Conn. Pipe-hanger.....	706,292	Aug. 5	585	127	100	1233
Beaton and Corbin Manufacturing Company. (See Muus, Arthur H., assignor.).....						
Beattie, Frank D., South Hartford, N. Y. Cigarette-machine.....	700,010	May 13	1702	392	99	1538
Beattie, Peter, Leete Island, Conn. Torpedo-setting device.....	704,499	July 15	2124	469 450	100	450
Beattie, Walter J. (See Maitland and Beattie.).....						
Beatty, Albert H. C. (See Oblinger and Beatty.).....						
Beatty, Claudius F., New York, N. Y. Hat tip or lining.....	695,853	Mar. 18	2827	642	98	2387
Beatty, Edward, New York, N. Y. Stove or range.....	713,383	Nov. 11	1792	403	101	1281
Beatty, Frank E. (See Chambers, Fred D., assignor.).....						
Beatty, John D., Klondike, N. C. Indicator for sawmill-knees.....	710,238	Sept. 30	4356	979	100	2941
Beatty, Ross J., trustee. (See Long, Frederic H., assignor.).....						
Beaudette, Wilfred A. (See Daigneault, Joseph C., assignor.).....						
Beaudin, Napoleon J., and N. R. Thibert, Worcester, Mass.; said Beaudin assignor to said Thibert. Sanitary spittoon.....	698,786	Apr. 20	4526	1000	99	1023
Beaudry, Joseph A. U. (See Ferguson and Beaudry.).....						
Beaumont, George H. (See Porter and Beaumont.).....						
Beaumont, Robert H. (See Fiez and Beaumont.).....						
Beauregard, Armand T., Stamford, Conn. Calculator.....	693,774	Feb. 18	2946	648 649	98	1451
Beauregard, Victor, assignor of one-half to C. S. Gooding, Boston, Mass. Door check and spring.....	703,371	July 1	13	4	100	5
Bebb, Maurice J., Xenia, and E. G. Eaton, Athens, Ohio. Curtain-display rack.....	710,408	Oct. 7	20	5	101	7
Bebout, James M., assignor of one-half to H. G. Pollock, Madison, Ind. Boltless rail joint and fish-plate.....	694,086	Feb. 25	3575	790	98	1596
Bechman, Henry F., Battle-creek, Mich. Running or shifting tympan.....	694,907	Mar. 4	1094	242	98	1943
Bechman, Henry F., assignor to Duplex Printing Press Company, Battlecreek, Mich. Multicolor-printing.....	708,012	Sept. 2	20	5	100	1985
Bechman, Henry F., assignor to Duplex Printing Press Company, Battlecreek, Mich. Machine for multicolor-printing.....	708,013	Sept. 2	22	5	100	1985
Becht, Albert L., Paris, France. Rotary motor.....	709,254	Sept. 16	2400	544	100	2506
Bechtel, Byron E., Waterloo, Canada. Brick plant.....	690,475	May 6	662	154	99	1313
Bechtold, August C., Brooklyn, N. Y. Dropping attachment for medicine-bottles.....	705,018	July 22	3167	684	100	692
Bechtold, Edmund E. (See Berg and Bechtold.).....						
Bechtold, William S., Newark, N. J. Hair-pin.....	709,255	Sept. 16	2402	544	100	2506
Beck, Alexander, Atlanta, Ga. Fender.....	700,716	May 20	3129	710 711	99	1854
Beck, Ambrose J., Williamsport, Pa. Saw-filing device.....	705,899	July 29	4967	1001	100	1065
Beck, Arthur E., Earlswood, assignor to Perrins, Limited, Warrington, England. Rolling metal tubes or other hollow or solid bodies.....	709,958	Sept. 30	3818	859	100	2826
Beck, Charles W., New York, N. Y., and W. C. Homan, assignors to Edward Miller & Company, Meriden, Conn., and Acetylene Generator Manufacturing Company of West Virginia, New York, N. Y. Acetylene-gas generator.....	710,559	Oct. 7	315	69	101	83
Beck, Ferdinand J., Chicago, Ill. Printer's quoin.....	694,313	Feb. 25	4055	931	98	1684
Beck, Fritz, New York, N. Y. Conveyor.....	708,294	Aug. 5	588	128	100	1234
Beck, Israel, Phillipsburg, Pa. Fruit or vegetable cutter.....	693,775	Feb. 18	2048	649	98	1451
Beck, John R., Terminus, Canada. Door-check.....	711,463	Oct. 21	2054	445	101	455
Beck, Joseph C., et al. (See Schoonover, Noah E., assignor.).....						
Beck, Matthias A., assignor to Pawling and Harnischfeger, Milwaukee, Wis. Automatic brake.....	690,532	Jan. 7	355	72	98	77
Beck, Matthias A., assignor to Pawling and Harnischfeger, Milwaukee, Wis. Trolley for electric cranes.....	690,533	Jan. 7	357	73	98	77
Beck, Matthias A., assignor to Pawling and Harnischfeger, Milwaukee, Wis. Automatic brake.....	697,393	Apr. 8	1883	420	99	420
Beck, Michael, Minneapolis, Minn. Continuous-combustion turbine.....	698,895	Apr. 29	4783	1052	99	1082
Beck, William, Lawrence, Mass., assignor, by mesne assignments, to Preston Hose and Tire Company. Woven tubular fabric.....	697,390	Apr. 8	1877	419	99	419
Beck, William, Lawrence, and J. F. Preston, Boston, assignors to Preston Hose and Tire Company, Everett, Mass. Woven tubular fabric.....	697,391	Apr. 8	1879	419	99	419
Beck, William, Lawrence, and J. F. Preston, Boston, assignors to Preston Hose and Tire Company, Everett, Mass. Weaving tubular fabrics.....	697,392	Apr. 8	1881	420	99	419

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Beck, William A. (See Keller, Peter, assignor.)						
Beck, William H., Griffin, Ga. Sewing-machine	696,400	Apr. 1	15	5	99	6
Becker, Arnold, Seattle, Wash. Racket	703,519	July 1	260	59	100	52
Becker, Brainerd Milling Machine Company. (See Edgar, John, assignor.)						
Becker, Edmund, Washington, D. C. Erecting marine structures.	710,658	Oct. 7	501	105	101	102
Becker, Frederick, New York, N. Y. Brush	700,400	May 20	2529	579	99	1726
Becker, Jacob, et al. (See Bluff, John T., assignor.)						
Becker, Johann H., Ohligs, Germany. Safety-razor	693,062	Feb. 25	3404	748	98	1561
Becker, Julius, assignor to F. Krupp, Essen, Germany. Ammunition conveyer or rammer for guns	691,584	Jan. 21	2292	515 516	98	512
Becker, Julius, assignor to F. Krupp, Essen, Germany. Loading-tray for transferring ammunition	697,126	Apr. 8	1399	311	99	318
Becker, Julius, assignor to F. Krupp, Essen, Germany. Sight for guns	701,787	June 3	905	202	99	2298
Becker, Julius F., Hamburg, Germany. Boat or vessel	700,011	May 13	1703	392	99	1588
Becker, Martin, Albany, N. Y. Dumping-wagon	702,617	June 17	2436	555 556	99	2646
Becker, Max E. (See Allen and Browne, assignors.)						
Becker, Otto, Berlin, Germany. Machine for grinding knives, principally those of saw-sage-machines or the like	700,293	May 20	2313	526 527	99	1684
Becker, Philip. (See Thompson and Becker.)						
Becker, Philip A., Brooklyn, N. Y. Display-box	714,855	Dec. 2	426	91	101	1920
Becker, Theodor. (See Eichengrün and Becker.)						
Becker, Wilhelmine, Chicago, Ill. Shoe-fastening device	714,190	Nov. 25	3235	714	101	1618
Beckers, Alexander, Hoboken, N. J. Dredge or grapple	692,417	Feb. 4	340	87	98	870
Becking, George, Chattanooga, Tenn. Tank	691,585	Jan. 21	2297	517	98	512
Beckley, John H., Lebanon, Pa. Engineer's leveling-rod	695,528	Mar. 18	2228	504	98	2215
Beckman, Claus R. (See Hoag and Beckman.)						
Beckwith, Arthur K., Dowagiac, Mich. Stove	696,664	Apr. 1	506	117	99	110
Beckwith, Edwin F., Ionia, Mich. Photographic light-screen	714,356	Nov. 25	3696	814	101	1710
Beckwith, Giles A., Waterford, and C. L. Lamphere, Norwich, Conn. Sash-weight	707,197	Aug. 19	2295	513	100	1622
Beckwith, Harry H., Quincy, Mass. Box-toe	710,239	Sept. 30	4357	979	100	2941
Beckwith, Harry H., and C. Pease, Lynn, Mass., assignors to Xpedite Machine Company, Berwick, Me. Machine for wax-treating parts of boots or shoes, &c.	699,476	May 6	665	154	99	1314
Beckwith, Summers F., Charleston, W. Va. Paper-file	694,235	Feb. 25	3843	852	98	1648
Beckwith, Summers F., Charleston, W. Va. Latch	713,942	Nov. 18	2871	637	101	1521
Beckwith, Warren. (See Stubbs, James C., assignor.)						
Bédarides, Paul, Paris, France. Elevator for granular substances	692,106	Jan. 28	3282	742 743	98	730
Beddow, William C. (See Torrey, Earl G., assignor.)						
Bedell, Frederick, Ithaca, N. Y. System of electrical transmission	695,529	Mar. 18	2228	504	98	2215
Bedell, Frederick, Ithaca, N. Y. Composite system of electrical transmission	715,537	Dec. 9	1685	368 369	101	2917
Bedell, John E., St. Louis, Mo. Curbstone	696,792	Apr. 1	753	171	99	160
Bedell, Thomas H., Marion, Ind. Carpet-sweeper	695,434	Mar. 18	2032	461	98	2179
Bedell, Thomas H., Marion, Ind. Wringer-camp	695,435	Mar. 18	2033	462	98	2179
Bedell, Thomas H., Marion, Ind. Device for packing sweepers or the like	695,436	Mar. 18	2054	462	98	2180
Bedell, William F., Kaslo, assignor of one-half to D. McPhail and T. F. Adams, Kaslo, British Columbia, Canada. Amalgamator	715,538	Dec. 9	1692	369	101	2198
Bédet, Henri, La Plaine St. Denis, France. Steam-generator	694,236	Feb. 25	3844	852	98	1648
Bedford, James W., San Francisco, Cal. Life-boat-launching device	701,009	May 27	3704	849	99	1988
Bedford, Milton T. (See Hall and Bedford.)						
Bedford, Robert, Jr. (See Smith and Bedford.)						
Bedworth, Arthur H. and J. A., Boston, Mass., assignors of one-third to F. S. Webster Company, Boston, Mass.; New York, N. Y.; Chicago, Ill., and London, England. Tool-holder	693,346	Feb. 11	2130	468	98	1264
Bedworth, Arthur H. and J. A., Boston, Mass., assignors of one-third to F. S. Webster Company, Boston, Mass.; New York, N. Y.; Chicago, Ill., and London, England. Tool-holder	710,174	Sept. 30	4297	956	100	2913
Bedworth, John A. (See Bedworth, Arthur H. and J. A.)						
Bee, William E., Aurora, Ill., assignor to Stephens, Adamson & Co. Conveyer-belt-roller	699,477	May 6	668	154 155	99	1315
Bee, William E., assignor to Stephens, Adamson & Co., Aurora, Ill. Belt-tightener	703,856	Sept. 9	1591	364	100	2820
Beebe, Auren M., Banner, Ill. Wheel-fastener	691,039	Jan. 14	1367	310	98	300
Beebe, Charles S., Racine, Wis. Tank-lug	696,793	Apr. 1	754	171	99	161
Beebe, Charles S., Racine, Wis. Wire fence	706,883	Aug. 12	1708	382	100	1483
Beebe, Dillon, Newark, N. J. Racking apparatus	704,292	July 8	1728	387	100	363
Beebe, Dillon, Newark, N. J. Valved bung and connection for beer-barrels	706,884	Aug. 12	1711	382 383	100	1483
Beebe, Eugene W., Milwaukee, Wis. Optometer	695,998	Mar. 25	388	700	98	2404
Beebe, Joseph E., Harlan, Iowa. Dust-cap for vehicle-hubs	713,732	Nov. 18	2459	548	101	1436
Beebe, Murray C., assignor to E. Weinghouse, Pittsburg, Pa. System of distribution for electric lamps connected in series	695,900	Mar. 25	2015	660	98	2370
Beebe, Walter H., New York, N. Y. Equalizer for cable-ropes	707,816	Aug. 26	3540	798	100	1894
Beebe, William, assignor of twenty-one thirtieths to J. M. Doremus, Brooklyn, N. Y. Permutation-lock	706,152	Aug. 5	200	61 62	100	1176
Beech, John M. and L. P., Norwood, Ohio. Hydrocarbon-burner	693,682	Feb. 18	2786	613	98	1418
Beech, John M., Cincinnati, and L. P. Beech, Norwood, Ohio. Hydrocarbon-burner	716,174	Dec. 16	3949	648	101	2483
Beech, Luke P. (See Beech, John M. and L. P.)						
Beech-Nut Packing Company et al. (See Arkell, Bartlett, assignor.)						
Beech-Nut Packing Company et al. (See Honiss, William H., assignor.)						
Beech-Nut Packing Company et al. (See Lorenz, William A., assignor.)						
Beech-Nut Packing Company et al. (See Lorenz and Honiss, assignors.)						
Beecher, Elmer C., East Norwalk, Ohio. Folding hat-box	696,928	Apr. 8	1040	231	99	240
Beecher, Henry W., Jr., Port Townsend, Wash. Electric lamp	704,831	July 15	2765	597	100	592
Beecher, Lina, Batavia, assignor, by mesne assignments, to American Construction Company, New York, N. Y. Monorailway	695,137	Mar. 11	1517	342	98	2056
Beecher, Lina, Batavia, assignor, by mesne assignments, to American Construction Company, New York, N. Y. Rail	695,188	Mar. 11	1548	343	98	2056
Beeching, George N., Summit, N. J. Barrel hook or handle	705,815	July 29	4820	1046	100	1035
Beeching, William H., Boston, Mass. Stem-holding cap for bottles or cans	710,619	Dec. 23	3861	842	101	2690
Beek, Arthur. (See Mattwie, Rochet, and Beek.)						
Beeghly, Uriah F., Dayton, Ohio. Switch-throwing device	709,134	Sept. 16	2157	495	100	2155
Beeler, Esten B., Chicago, Ill. Window-cleaner	708,299	Sept. 2	560	127	100	2907



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Beeman, Lucas A., Mannsville, N. Y. Whiffletree-hook.....	714,997	Dec. 2	697	146	101	1976
Beermer, Dennis, assignor of one-fourth to O. Rosenbush, Detroit, Mich. Air-brake.....	701,988	June 10	1264	287	99	2386
Beenk, William H., and H. Reinhold, Davenport, Iowa. Ice-chipping machine.....	712,637	Nov. 4	836	78	101	968
Beerbower, George M., New York, N. Y. Telephone-receiver support.....	695,268	Mar. 11	1774	392	98	2102
Beerbower, Theodore, Adams county, Ind. Metal fence-post.....	714,275	Nov. 25	3546	780	101	1682
Beers, Alexander W., Bayonne, N. J. Folding box.....	707,073	Aug. 19	2055	459	100	1570
Beers, Henry H., Middlebury, and A. L. Griffin, Topeka, Ind. Tank-heater.....	700,294	May 20	2315	527	99	1684
Beery, Edwin, <i>et al.</i> (See Raff, James E., assignor.)						
Beesley, Joseph L., <i>et al.</i> (See Porter, James A., assignor.)						
Begeer, Bastiaan W., assignor of one-half to J. M. Hower, Jr., Florence, Colo. Cyanid process of extracting precious metals from ores.....	694,521	Mar. 4	356	78	98	1789
Beger, Richard, Deuben, Germany. Type-writing machine.....	695,699	Mar. 25	3092	701	98	2405
Beggs, Charles S., Ashland, Ill. Gear for windmills.....	696,000	Mar. 25	3092	701	98	2405
Begole, Gordon W., Ypsilanti, Mich. Checkrein-hook.....	691,836	Jan. 28	2798	629	98	634
Begole, Joshua F., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Synchronism-indicator.....	712,174	Oct. 28	3440	754	101	759
Béha, Joseph, Thann, Germany. Water-purifying apparatus for steam-boilers.....	703,888	July 1	944	206	100	1990
Behm, Joseph, San Francisco, Cal. Oil and air mixing and gas-generating apparatus.....	704,732	July 15	2531	547	100	544
Behn, Mary E., assignor of one-half to G. M. Bond, Baltimore, Md. Toy.....	716,175	Dec. 16	2552	648	101	2483
Behnke, Otto, assignor to F. Krupp, Essen, Germany. Fluid-brake for guns.....	695,854	Mar. 18	2828	642	98	2387
Behnke, Otto, assignor to F. Krupp, Essen, Germany. Gun-carriage.....	707,376	Aug. 19	2621	590	100	1689
Behnke, Otto, assignor to F. Krupp, Essen, Germany. Means for installing the recuperating-springs in guns having recoil-barrels.....	711,814	Oct. 21	2732	605	101	599
Behr, Claus F. G., Brooklyn, N. Y. Combination-chair.....	710,409	Oct. 7	22	5	101	7
Behr, Fritz B., Twickenham, England. Electrically-propelled vehicle for single-rail elevated railways.....	700,609	May 20	2909	669	99	1806
Behr, Fritz B., Twickenham, England. Apparatus for automatically block-signaling on railways.....				670		
Behrend, Ernst R. and O. F., Erie, Pa. Device for watermarking paper.....	717,325	Dec. 30	5298	1152	101	3021
Behrend, Otto F. (See Behrend, Ernst R. and O. F.)	711,815	Oct. 21	2734	605	101	600
Behrend, Samuel K., Washington, D. C., assignor to H. Evans, Philadelphia, Pa. Twyer converter.....	698,431	Apr. 29	3807	840	99	870
Behrend, Samuel K., Washington, D. C., assignor to H. Evans, Philadelphia, Pa. Steel-converter.....	698,787	Apr. 29	4527	1000	99	1023
Behrend, Samuel S., Chicago, Ill. Starching-machine.....	690,942	May 13	1591	364	99	1517
Behrendt, Bruno F., Dresden, assignor to Pfäum & Gerlach, Schöneberg, near Berlin, Germany. Sectional hot-water boiler.....	699,186	May 6	20	5, 6	99	1180
Behrens, Albert J., San Francisco, Cal. Tank-hoop lug.....	704,773	July 15	2610	365	100	560
Behrens, Edward C. H., Charleston, S. C. Plant-protector.....	705,019	July 22	3169	684	100	692
Behrens, Erich W., Milwaukee, Wis. Book-supporter.....	701,010	May 27	3707	849	99	1989
Behrens, Heinrich, Oberhausen, Germany. Fire-escape.....	691,928	Jan. 28	2950	664	98	665
Behrens, Hermann L., assignor of one-half to C. M. Lamping, St. Louis, Mo. Sewer-trap.....	692,418	Feb. 4	342	85	98	871
Behrens, Walter, and J. P. Tihon, Paris, France. Electric railway.....	705,373	July 22	3942	854	100	840
Behrman, Martin, assignor of fifty-one to hundredths to E. McVicker, New York, N. Y.						
Behrman, Theodore F., Fort Wayne, Ind. Hay-loading apparatus.....	713,195	Nov. 11	1987	312	101	1198
Beider, Peter, Paterson, N. J. Lifting device.....	700,723	May 27	3151	716	99	1875
Beidleman, William D., and E. G. Cameron, Union, Oreg. Harness appliance.....	704,692	July 15	2456	580	100	529
Beier, Frank J., assignor of two-thirds to B. S. Austrian and C. S. Rosenthal, Chicago, Ill. Vending-machine.....	715,635	Dec. 9	1856	412	101	2232
Beiermeister Bros. & Co. (See Beiermeister, John M., assignor.)	715,539	Dec. 9	1693	389	101	2199
Beiermeister, John M., Troy, assignor to Beiermeister Bros. & Co., Cohoes, N. Y. Garment-folding device.....				370		
Beierstorf, Charles, St. Louis, Mo. Lifting-jack or elevator.....	703,110	June 24	3376	776	99	2855
Beil, August C. (See Down, Ernest U., assignor.)	698,896	Apr. 29	4785	1053	99	1082
Beiluss, Richard A. F., Lansing, Mich. Speed-regulator for explosive-engines.....	700,401	May 20	2530	579	99	1726
Beisch, John, assignor of one-half to W. C. Richardson, Adams, Kans. Band-cutter and feeder.....	714,632	Nov. 25	4199	928	101	1810
Beise, Richard J., Pine Island, Minn. Poultry drinking fountain.....	712,243	Oct. 28	3555	776	101	783
Beisel, Peter J., assignor of one-half to H. F. Smith, Allentown, Pa. Door-operating device.....	703,372	July 1	15	4	100	5
Beist, Ernst, Magdeburg, Germany. Dilator.....	708,452	Sept. 2	811	185	100	2146
Beitler, Joseph C., Lancaster, Ohio. Non-refillable bottle.....	716,657	Dec. 23	3930	858	101	2704
Beitney, Augustus, <i>et al.</i> (See Barrath, Edward, assignor.)						
Beitzel, Georg G., Copenhagen, Denmark. Tension mechanism for the lower threads of sewing-machines.....	699,067	Apr. 29	5066	1120	99	1141
Beitzel, Georg G., Copenhagen, Denmark. Motion-transmitting device.....	713,285	Nov. 11	1797	404	101	1282
Bekker, Ernst and M., Paterson, N. J. Revolving photograph-cabinet.....	716,267	Dec. 23	3841	730	101	2578
Bekker, Max. (See Bekker, Ernst and M.)						
Beland, George A., Centralia, Ill. Boiler-tube cutter.....	695,597	Mar. 18	2373	538	98	2245
Beller, Henry S. (See Stout, William H. A., assignor.)						
Belden, Edward H., Dayton, Ohio. Gas-cap for arc-lamps.....	710,650	Oct. 7	504	105	101	102
Beldsmeyer, Henry W., St. Louis, Mo. Butter-tub, <i>etc.</i> .....	693,217	Feb. 11	1908	413	98	1215
Belser, Adolf, assignor of two-fifths to F. Hartley, Pittsburg, and C. H. Parsons, Sharon, Pa. Fluid-pressure-regulated gas-valve.....	706,153	Aug. 5	298	63, 64	100	1177
Belser, Adolf, assignor of two-fifths to F. Hartley, Pittsburg, and C. H. Parsons, Sharon, Pa. Gas-burner.....	706,633	Aug. 12	1221	271	100	1379
Belser, Adolf, Pittsburg, Pa., assignor of two-fifths to C. H. Parsons, Jenifer, Ala., and F. Hartley, Pittsburg, Pa. Gas-burner.....	716,176	Dec. 16	2953	648	101	2484
Belfield, A. Miller, <i>et al.</i> (See Davis, Charles L., assignor.)						
Belfield, Gamaliel. (See Belfield, Shearer, Findlay, and Belfield.)						
Belfield, William, R. Shearer, J. Findlay, and G. Belfield, assignors of one-fifth to G. Gleason, Minooka, Ill. Lock-nut for vehicle-axles.....	710,240	Sept. 30	4359	980	100	2341
Belfry, Alfred W. (See Smith, James M., assignor.)						
Belknap, Frank D., Inwood, N. Y. Addressing-machine.....	699,742	May 13	1178	1274	99	1429
Belknap, Hiram L., assignor to Creamery Package Manufacturing Company, Chicago, Ill. Bottle-washing machine.....	701,129	May 27	3924	902	99	2035
Belknap, Willis H., Summit, N. J. Paper-roll holder.....	710,034	Sept. 30	3953	891	100	2854
Bell, Arthur F. L., Carpinteria, assignor to Alcatraz Company, San Francisco, Cal. Extruding and refining asphaltum.....	700,889	May 27	3473	796	99	1940
Bell, Carroll M. (See Blake and Bell.)				797		
Bell, Chester L., and J. Halstead, El Paso, Tex. Fluid-operated signal.....	710,397	Sept. 30	4629	1044	100	2997



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Bell, Enos T. (See Forsyth and Bell.)						
Bell, George F., Sistersville, W. Va. Knife for cutting ropes used in boring Artesian or oil wells	692,816	Feb. 11 1907	240	98	1042	
Bell, George F., Sistersville, W. Va. Temper-screw	700,610	May 20 1907	670	99	1806	
Bell, George H. (See Lemaire, Timothy, assignor.)						
Bell, Gertrude M., Germantown, Pa. Duster for cleaning walls, &c.	693,100	Feb. 11 1908	356	98	1601	
Bell, Harry W., New York, N. Y. Partition for mold-flasks.	701,830	June 10 1907	217	99	2328	
Bell, Henry. (See Prescott, Thomas D. J. C., and H. A., assignors.)						
Bell, Henry, et al. (See Prescott, Thomas D. J. C., and H. A., assignors.)						
Bell, Isaac T., assignor of one-half to M. Umstadter, Norfolk, Va. Display device or exhibitor.	701,250	May 27 1907	4131	950 951	99	2077
Bell, J. Foster, et al. (See McPherson, Frank G., assignor.)						
Bell, Jason J., assignor of one-half to A. G. White, Garden Prairie, Ill. Combined chuck and countersink	716,177	Dec. 16 1905	649 287	101	2484	
Bell, Jerome B., Wilmington, Del. Linotype-machine.	701,989	June 10 1906	1266 288 289 290	99	2387	
Bell, Jerome B., Wilmington, Del. Linotype-machine.	701,990	June 10 1906	1271 290 291 292	99	2387	
Bell, John. (See Bell, John C. and J.)						
Bell, John C. and J., Eskridge, Kans. Draft-equalizer	695,855	Mar. 18 1908	2830	643	98	2337
Bell, Martha. (See Abrahams, Mary E., assignor.)						
Bell, Maximilian F., Smithsburg, Md. Non-refillable bottle	712,638	Nov. 4 1907	337	79	101	968
Bell Organ and Piano Company. (See Warren, Charles, assignor.)						
Bell, Robert. (See Powell, James H., assignor.)						
Bell, Robert A., assignor to C. A. Rutter, Philadelphia, Pa. Machine for making blue-prints.	704,292	July 8 1907	1617	350	100	338
Bell, Robert A., assignor to C. A. Rutter, Philadelphia, Pa. Machine for making prints.	708,989	Sept. 16 1907	1833	426	100	2391
Bell, Thomas. (See Metcalfe and Bell.)						
Bell, Virgil S., Hayesville, Iowa. Incubator	691,837	Jan. 28 1907	2799	629	98	634
Bell, Walter H., Dayton, Ohio, assignor, by mesne assignments, to National Cash Register Company, Jersey City, N. J. Cash-register	705,552	July 29 1906	4346	940	100	940
Bell, Walter J., assignor of one-half to L. F. Moss, Los Angeles, Cal. Wing for flying-machines.	693,943	Feb. 25 1908	723	98	1537	
Bell, Walter J., assignor of one-half to L. F. Moss, Los Angeles, Cal. Street-railway switch	693,944	Feb. 25 1908	724	98	1538	
Bell, Walter J., assignor of one-half to L. F. Moss, Los Angeles, Cal. Street-railway switch	703,037	June 24 1907	3237	744 745	99	2828
Bell, Watson H., Brooklyn, N. Y. Sand-distributor for railways	716,134	Sept. 30 1907	4150	937	100	2868
Bell, Willard J., Newaygo, Mich. Cement railway-tie	711,277	Oct. 14 1909	367	101	3697	
Bell, William D., Clayton, Minn. Weight-motor and governor mechanism	707,377	Aug. 19 1907	3622	591	100	1090
Bell, William J., Baraboo, Wis. Combined switch and lightning-arrester	693,680	July 8 1907	1131	245	100	249
Bellandé, Gaston, Arcachon, France. Safety contact-interrupter for electric wires.	705,020	July 22 1907	3170	684	100	692
Belledin-Gras, Edouard, and F. S. de Mondran, Paris, France. Tire for vehicle-wheels	707,378	Aug. 19 1907	2626	592	100	1690
Belledin, Victor E., Paris, France. Manufacture of sheets of flexible elastic material which cannot be readily punctured	707,732	Aug. 26 1907	3408		100	1867
Belles, William H. (See George, Benjamin F., assignor.)						
Bellis, David C., Elizabeth, N. J., assignor to R. W. Scott, Philadelphia, and L. N. D. Williams, Ashbourne, Pa. Knitted fabric	709,734	Sept. 23 1907	3334	751 752	100	2714
Bellis, David C., Elizabeth, N. J., assignor to R. W. Scott, Philadelphia, and L. N. D. Williams, Ashbourne, Pa. Knitting-machine	714,998	Dec. 2 1907	697	146 147	101	1976
Bellis, Thomas K. (See Andrew and Bellis.)						
Bellows, Arthur B., Pittsburg, Pa. Steel car	693,218	Feb. 11 1908	414	98	1216	
Bellows, Arthur B., Pittsburg, Pa. Truck-frame	693,219	Feb. 11 1908	415	98	1216	
Bellows, Arthur B., Pittsburg, Pa. Truck-bolster	693,220	Feb. 11 1908	416	98	1216	
Bellows, Arthur B., Pittsburg, Pa. Metal car	694,715	Mar. 4 1908	724	159 160	98	1864
Bellows, Arthur B., Pittsburg, Pa. Brake-beam	698,788	Apr. 29 1908	4530	1062	99	1024
Bellows, Arthur B., Pittsburg, Pa. Car-door mechanism	698,789	Apr. 29 1908	4531	1062	99	1024
Bellows, Arthur B., Pittsburg, Pa. Gondola car	710,175	Sept. 30 1907	4239	956	100	2914
Bellows, Arthur B., Pittsburg, Pa. Gondola car	710,176	Sept. 30 1907	4240	956	100	2914
Bellows, Arthur B., Pittsburg, Pa. Steel gondola car	710,177	Sept. 30 1907	4241	956	100	2914
Belmer, Charles G., Chelsea, assignor of one-half to A. A. Briggs, Haverhill, Mass. Rotary-cutter holder	695,630	Mar. 18 1907	2337	550	98	2257
Belmont Stable Supply Company. (See Michelson, Hans A., assignor.)						
Belot, Emile, Paris, France. Machine for packeting tobacco or other like materials	715,340	Dec. 9 1907	1823	283 284 285	101	2126
Belt, J. M. (See Mervin, Charles R., assignor.)						
Belt, William L., Washington, D. C. Grain-separating machine	702,279	June 10 1907	1784	407	99	2492
Belt, William O., Chicago, Ill. Brake-shoe	715,341	Dec. 9 1907	1826	286	101	2127
Beltz, Harry, Frankford, Pa. Machine for grinding trowels	701,831	June 10 1907	976	217 218	99	2329
Bement, Marion C., and M. L. Black, Donlan, W. Va. Device for withdrawing keys from shafts.	716,368	Dec. 23 1907	3343	730 731 732	101	2579
Bemis, Thomas, Indianapolis, Ind. Pneumatic-despatch-tube system	696,305	Mar. 25 1907	3716	831	98	2534
Bemis, Thomas, Indianapolis, Ind. Pneumatic-despatch-tube system	712,478	Nov. 4 1907	17	7, 8	101	900
Bemis, Thomas, Indianapolis, Ind. Pneumatic-despatch-tube system	712,479	Nov. 4 1907	28	8, 9	101	903
Benbow Company. (See Benbow, William C., assignor.)						
Benbow, William C., assignor to Benbow Company, Columbus, Ohio. Wire-insulator	696,695	Apr. 1 1907	507	117	99	110
Bender, Andrew, Washington, D. C. Spring-motor	703,373	July 1 1907	17	4	100	6
Bender, Daniel W., assignor of one-half to L. L. De Haven, Bluffton, Ind. Set-screw guard	702,805	June 17 1907	2893	669	99	2743
Bender, Edward J. (See Tilden and Bender.)						
Bender, George L., assignor of one-half to W. A. Bender, San Francisco, Cal. Tie-plate-machine	703,755	July 1 1907	701	155 156	100	140
Bender, Henry, Reserve, Ind. Cider and fruit press	692,228	Feb. 4 1907	10	2, 3	98	800
Bender I. Firm Carl. (See Bender, Philipp, assignor.)						
Bender, Jacob H., Campbelltown, Pa. Railway-tie	691,586	Jan. 21 1908	517	98	513	
Bender, Jacob S., Kansas City, Mo. Combined grain-door and loading and unloading platform for box-cars.	708,390	Sept. 2 1907	561	127	100	2696
Bender, John T., Canton, Ohio. Cultivator	696,623	Apr. 1 1907	417	97	99	91
Bender, Louis. (See Bagley, Charles H., assignor.)						
Bender, Philipp, assignor to Firm C. Bender I. Dotzheim, near Wiesbaden, Germany. File-handle	706,378	Aug. 5 1907	751	164	100	1267

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Bender, W. A. (See Bender, George L., assignor.)						
Bender, Wilhelm, assignor to Zellstofffabrik Düren Hermann Maria Schoeller & Co., Düren, Germany. Evaporator	709,297	Sept. 16	2487	559	100	2524
Bendix, Vincent H., New York, N. Y. Motor-cycle frame	696,001	Mar. 25	3094	701	98	2405
Bencke, Adelbert O. (See Weston and Bencke.)						
Benedict, Charles W. (See Johnson and Benedict.)						
Benedict, Frederic E., Oakpark, Ill. Windmill-head	711,148	Oct. 14	1436	311	101	814
Benedict Furniture Clamp Company (See Benedict, Jacob, assignor.)						
Benedict, Jacob, assignor to Benedict Furniture Clamp Company, Grand Rapids, Mich. Double-acting vise	716,805	Dec. 23	4194	919	101	2758
Benedict, Lewis. (See Leiger, George F., assignor.)						
Benedict, Michael, New York, N. Y. Apparatus for testing the volume of air from the lungs	701,130	May 27	3925	902 903 904	99	2036
Benefield, Chauncey R., Alpika, Miss. Cotton elevator and separator	705,374	July 22	3944	854	100	847
Benét, Laurence V., Paris, France. Semi-automatic gun	696,851	Apr. 1	854	197 881 832 834 835	99	180
Benét, Lawrence V., and H. A. Mercié, Paris, France. Automatic gun	696,306	Mar. 25	3723	833 834 835	98	2536
Bengtson, Berndt E., Axtell, and A. A. Gustafson, Divide township, Nebr. Boot or shoe cleaner	711,194	Oct. 14	1549	333	101	337
Benham, Walter, assignor to J. and J. Dobson, Philadelphia, Pa. Woven pile carpet	691,889	Jan. 28	2891	651	98	653
Benitz, Leo C., Philadelphia, Pa. Lead-pencil	705,900	July 29	4968	1081	100	1065
Benjamin, Alfred N. (See Edge, William, assignor.)						
Benjamin, Bert R. (See Fridmore and Benjamin.)						
Benjamin, Bert R., and J. W. Fridmore, assignors to International Harvester Company, Chicago, Ill. Corn-shocker	714,999	Dec. 2	699	147	101	1976
Benjamin, Charles A., McPherson, Kans. Drag-saw	713,943	Nov. 18	2873	637	101	1521
Benjamin, Dana H., Ionia, Mich., assignor to Barnes & Erb Company, Philadelphia, Pa. Ironing-machine	695,901	Mar. 25	2916	660	98	2371
Benjamin, Dana H., Lebanon, Pa., assignor to Barnes and Erb Company. Ironing-machine	713,384	Nov. 11	1793	403 404	101	1281
Benjamin, George H. (See Wood, William A., assignor.)						
Benjamin, Orrin C. (See Clawson and Benjamin.)						
Benjamin, Walter R., St. Louis, Mo. Air-gun	693,823	Feb. 25	3047	673	98	1491
Benjamin, Walter R., St. Louis, Mo. Air-gun	695,025	Mar. 11	1328	293	98	2010
Benjamins, Israel, New York, N. Y. Windmill	711,193	Oct. 14	1551	333 334	101	337
Benke, Herman. (See Alexander, Jesse, assignor.)						
Benmosche, Herman and M., assignors of one-half to C. Friedlander, Norfolk, Va. Ratchet-drill	714,437	Nov. 25	3838	849	101	1738
Benmosche, Moses. (See Benmosche, Herman and M.)						
Benn, Alonzo N. (See Preston and Atkinson, assignors.)						
Benner, Lorenzo D., Peoria, assignor to L. G. Fisher, Chicago, Ill. Bag-machine	699,611	May 6	913	213	99	1364
Benner, William O., Leighton, Pa. Gravity-motor	702,036	June 10	1460	328	99	2426
Bennett, Alexander M., Charlevoix, Mich. Combined plumb, level, and square	715,946	Dec. 16	2509	552	101	2592
Bennett, Charles R., Tullytown, assignor of three-fourths to P. G. Edwards, Bristol, T. L. Eyre, Westchester, Pa., and R. Wright, Washington, D. C. Mail-bag catching and delivering device	694,908	Mar. 4	1096	242	98	1944
Bennett, Delbert F., Redding, Cal. Receptacle for papers and letters	708,617	Sept. 9	1106	248	100	2216
Bennett, Dwight W., assignor to W. E. Devlin, Philadelphia, Pa. Expansion-bolt	694,345	Mar. 4	9	3	98	1714
Bennett, Edwin, London, England. Apparatus for roasting coffee	698,246	Apr. 22	3493	768 769	99	789
Bennett, Emmet M., Boston, Mass., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine	707,817	Aug. 26	3541	799	100	1894
Bennett, Emmett G., Atlanta, Ga. Hame-fastener	707,497	Aug. 19	2838	641 642	100	1735
Bennett, F. M., et al. (See Barnes, James P., assignor.)						
Bennett, Frederick D. (See Sanford, William W., assignor.)						
Bennett, George E., Croydon, England. Brake mechanism for cycles, motor-cars, &c.	702,337	June 10	1890	432	99	2511
Bennett, George H., New York, N. Y. Tiling	708,194	Sept. 2	368	87	100	2056
Bennett, George M., assignor of one-half to T. Forgham, Kenosha, Wis. Friction-clutch	709,194	Sept. 16	2282	518	100	2480
Bennett, George S., assignor to J. W. Thatcher, San Francisco, Cal. Battery	701,253	May 27	4136	952	99	2678
Bennett, George S., and J. W. Thatcher; said Bennett assignor to said Thatcher and A. Meyenberg, San Francisco, Cal. Dental mouth-mirror	709,812	Sept. 23	3513	732	100	2750
Bennett, J. H. (See Mills, Warren F., assignor.)						
Bennett, James E., Monaca, Ill. Running-gear for wagons	707,896	Aug. 26	3704	831	100	1925
Bennett, James F., and H. S. Moorhead, Sheffield, England. Carbureter	705,021	July 22	3170	685	100	692
Bennett, John H., and M. L. Zimmermann, Philadelphia, Pa. Game or puzzle	701,832	June 10	978	218	99	2330
Bennett, Lydia A., Cleveland, Ohio. Envelop	707,074	Aug. 19	2057	460	100	1570
Bennett, Richard O., Branchville, Conn. Strainer	713,733	Nov. 18	2460	548	101	1436
Bennett, Robert A., Riverdale, Md. Bed	701,131	May 27	3931	904	99	2037
Bennett, Theodore J., Orange, assignor to himself, and H. Berg, Orange Valley, N. J. Magazine-pistol	696,539	Apr. 1	263	61, 62	99	59
Bennett, Thomas G. (See Burns and Bennett.)						
Bennett, Thomas G., and W. Mason, assignors to Winchester Repeating Arms Co., New Haven, Conn. Automatic firearm	695,784	Mar. 18	2696	612 613 614	98	2310
Bennett, Thomas G., and T. C. Johnson, assignors to Winchester Repeating Arms Co., New Haven, Conn. Semi-automatic gun	710,660	Oct. 7	505	106	101	102
Bennett, Thomas S., Providence, R. I. Bands for bracelets, &c., and manufacturing same	709,195	Sept. 16	2233	518 519	100	2480
Bennett, Thomas S., assignor to D. F. Brigg Company, Attleboro, Mass. Tubular-rivet-setting machine	709,196	Sept. 16	2236	519	100	2481
Bennett, Walter E., Portsmouth, N. H., assignor to Morley Button Manufacturing Company, Saco, Me., and Boston, Mass. Furniture-button	714,660	Dec. 2	13	3	101	1899
Bennett, Wilbur, Waynesboro, Va. Sash-lock	709,591	Sept. 23	3093	689	100	3664
Bennett, William B., Grand Rapids, Mich. Saw-guard	713,196	Nov. 11	1387	312	101	1198
Bennett, William S., New York, N. Y. Railway-signal	705,313	July 22	3799	823 824	100	818
Benninghofen, Ernest A., Hamilton, Ohio. Trowel	706,514	Aug. 12	1018	225	100	1337
Bennis, Edward, Bolton, England. Furnace	691,100	Jan. 14	1365	1311	98	300
Bennis, Edward, Bolton, England. Apparatus for supplying fuel to furnaces	691,232	Jan. 14	1604	367	98	350



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Bennison, Samuel, Galveston, Tex. Tool for withdrawing casings from wells.....	711,378	Oct. 14	1886	411	101	408
Benoit, Elie, Worcester, Mass. Multiplying-gearing .....	706,794	Aug. 12	1548	347	100	1449
Benoit, Michel. (See Désy, Louis A., assignor.)						
Benseth, Peder M., Fairhaven, Wash. Fish-trap .....	711,379	Oct. 14	1889	411	101	409
Bensinger, Carl, Mannheim, Germany. Manufacturing celluloid combs. (Reissue) ..	11,976	Mar. 25	3939	872	98	2579
Bensinger, Moses, assignor to Brunswick-Balke-Collender Company, Chicago, Ill. Billiard-table cushion .....	701,254	May 27	4138	952	99	2078
Benson, Andrew. (See Eaton and Benson.)						
Benson, Andrew, assignor of one-half to H. W. Eaton, Jr., Bradford, Pa. Sand-reel for oil or Artesian wells .....	712,480	Nov. 4	31	9	101	904
Benson, James C., Alcony, Ohio. Grain cleaner and separator .....	713,049	Nov. 11	1097	253	101	1138
Benson, Olaf, Red Wing, Minn. Rake attachment .....	695,139	Mar. 11	1549	343	98	2057
Benson, Simon W., Denver, Colo. Window-screen .....	693,993	Feb. 25	3405	748	98	1561
Benson, Sivert, Springvalley, Minn. Nut-lock .....	697,394	Apr. 8	1885	421	99	420
Benson, William W., Philadelphia, Pa. Pipe-bending apparatus .....	706,010	Aug. 5	13	3	100	1119
Benson, William W., Philadelphia, Pa. Pipe-bending apparatus .....	715,000	Dec. 2	702	148	101	1977
Benstead, Thomas. (See Fowler and Benstead.)						
Benster, Joshua G., Moline, Ill. Windmill .....	716,658	Dec. 23	3932	859	101	2705
Benster, Menzo M., Gettysburg, S. D. Fence-wire fastener .....	703,756	Jan. 1	704	156	100	141
Bent, Peter. (See Mau and Paesel, assignors.)						
Bentley, Alfred D., Vancouver, Canada. Ventilator for cooking vessels .....	699,068	Apr. 29	5067	1120	99	1141
Bentley, Calvin E., Jamestown, N. Y. Railway-rail joint .....	691,347	Jan. 21	1872	422	98	424
Bentley, Charles E. (See Tiffin and Bentley.)						
Bentley, Charles E., New York, N. Y. Sofa pillow or cushion .....	690,914	Jan. 14	1093	232	98	233
Bentley, Charles E., New York, N. Y. Embroidery-seam .....	696,540	Apr. 1	269	62	99	61
Bentley, Charles E., New York, N. Y. Embroidery-seam .....	696,541	Apr. 1	270	62	99	61
Bentley, Frank D., Sanborn, N. D. Fly-screen .....	692,501	Feb. 4	493	115	98	899
Bentley, Harriet A., Glens Falls, N. Y. Coating preparation .....	690,915	Jan. 14	1095	232	98	233
Bentley, Harry, Whitehaven, England. Machinery for breaking pig-iron .....	708,301	Sept. 2	563	128	100	2096
Benton, Abba, Palatka, Ga. Fertilizer or seed distributor .....	713,481	Nov. 4	32	10	101	904
Benton, Charles H., Cleveland, Ohio. Engine. (Reissue) .....	12,009	July 15	3136	678	100	669
Benton, George P., Mattawan, assignor of one-half to I. E. Hamilton, Lawton, Mich. Music rack and tuner .....	692,220	Feb. 4	16	4	98	801
Benton, John L. (See Tucker, Frank W., assignor.)						
Benton, Nathan J., New Decatur, assignor of one-half to W. P. Thomas, Birmingham, Ala. Fluid-pressure brake apparatus .....	702,124	June 10	1520	343	99	2439
Bentsen, Fischer. (See Nielsen, Anton E., assignor.)						
Bentsen, Fischer. (See Nielsen and Bentsen.)						
Bentson, Hans J., Chicago, Ill., assignor to F. Howard. Excavating-machine. (Reissue) ..	12,010	July 15	3140	678	100	670
Bentz, John J., Brooklyn, N. Y. Non-refillable bottle .....	708,302	Sept. 2	565	128	100	2096
Benwell, George A., Jr. (See Evans, John W., assignor.)						
Benzinger, Frederick, Union Hill, N. J., assignor to General Incandescent Arc Light Company. Circuit-breaker .....	707,952	Aug. 26	3796	853	100	1945
Berauer, Joseph M., et al. (See Huff, George S. and J. J., assignors.)						
Berbecker & Rowland Manufacturing Company. (See Assel, Jacob, assignor.)						
Berck, Henry P., Chicago, Ill. Tipping shelf for the preservation of garbage or trash cans ..	695,425	Mar. 11	3088	457	98	2157
Berck, Henry P., Chicago, Ill. Garbage-receptacle .....	710,835	Oct. 7	841	183	101	171
Berendes, Rudolf, Elberfeld, Germany. assignor to Farbenfabriken of Elberfeld Co., New York, N. Y. Alkaline salts of methylene citric acid and making same .....	715,239	Dec. 9	1132		101	2085
Berens, Stanislaus, Lagrange, assignor of one-half to F. J. Lodeski, Chicago, Ill. Hydrocarbon-burner .....	710,410	Oct. 7	23	5.6	101	7
Berford, Victor, Tara, Canada. Weed-cutting and ballast-dressing apparatus .....	693,363	Feb. 18	2168	477	98	1291
Berford, Victor, Tara, Canada. Ballast-dressing mechanism .....	695,530	Mar. 18	2232	505	98	2216
Berford, Victor, Tara, Canada. Weed-destroying mechanism .....	701,283	June 3	9	2	99	2110
Berford, Victor, Tara, Canada. Sod-line-cutter mechanism for railway-track appliances ..	706,515	Aug. 12	1019	225	100	1337
Berg, Adolph N. and E. E. Bechtold, Chicago, Ill. Insulator .....	697,782	Apr. 15	2662	577	99	583
Berg, Bernard, San Francisco, Cal. Pneumatic maling-kiln .....	706,716	Aug. 12	1372	306	100	1412
Berg, Ernst J., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine .....	697,783	Apr. 15	2604	577	99	583
Berg, Ernst J., Schenectady, N. Y., assignor to General Electric Company. Regulating rotary converters .....	712,639	Nov. 4	339	79	101	968
Berg, Ernst J., Schenectady, N. Y., assignor to General Electric Company. Regulating rotary converters .....	712,991	Nov. 4	985	230	101	1098
Berg, Frederick O., Spokane, Wash. Feeding mechanism for sewing-machines .....	695,269	Mar. 11	1775	393	98	2103
Berg, Henry. (See Bennett, Theodore J., assignor.)						
Berg, Henry. (See Gibbs, William E., assignor.)						
Berg, Henry. (See Mellen, Edward J., assignor.)						
Berg, Joseph, et al. (See Wagner, Daniel, assignor.)						
Berg, Rudolf, assignor of one-half to F. Wenig, Pittsburg, Pa. Valve mechanism .....	706,885	Aug. 12	1714	383	100	1484
Berg, Viktor, Abo, Russia. Horizontal paddle-wheel for propelling ships .....	696,666	Apr. 1	508	117	99	110
Bergdoll, Louis J., Philadelphia, Pa. Means for inserting cords or the like into underground conduits .....	697,315	Apr. 8	1736	387	99	389
Berger, Albert W., Canton, Ohio. Head for fodder-shredders .....	692,601	Feb. 4	682	159	98	988
Berger, Charles W., Milwaukee, Wis. Combination storm and screen window .....	710,661	Oct. 7	510	106	101	103
Berger, Christian L., Boston, Mass. Lateral adjuster for surveying instruments .....	696,401	Apr. 1	16	5	99	6
Berger, Emile, Paris, France. Binoocular magnifying-glass .....	701,788	June 3	946	202	99	2208
Berger Manufacturing Company. (See Schaffly, Julius H., assignor.)						
Berger, Max, assignor to Firm of C. Zeiss, Jena, Germany. Slide-changing mechanism ..	712,034	Oct. 28	3175	694	101	708
Bergeron, Henry J. (See Moresi and Bergeron.)						
Bergesen, John, New York, N. Y. Protective tumbling-hood for ships' hatches .....	700,012	May 13	1704	392	99	1538
Bergfeth, Henry, New York, N. Y. Boiler .....	702,694	June 17	2577	593	99	2676
Bergh Clarified Milk Company. (See Bergh, Jefferson L., assignor.)						
Bergh, Jefferson L., assignor to Bergh Clarified Milk Company, New York, N. Y. Froth-condenser for centrifugal machines .....	715,947	Dec. 16	2511	553	101	2392
Berghauer, John H. (See Norman and Berghauer.)						
Bergin, Daniel S., Chicago, Ill. Electric system for railways .....	692,817	Feb. 11	1068	240	98	1042
Bergin, Daniel S., Chicago, Ill. Combined underground and overhead electric railway ..	692,974	Feb. 11	1403	304	98	1113
Bergin, Daniel S., Chicago, Ill. Mechanism for electric propulsion of road-vehicles .....	703,374	July 1	19	4.5	100	7
Bergin, Daniel S., Chicago, Ill. Combined overhead and underground electric railway ..	707,075	Aug. 19	2058	460	100	1571
Berglund, Nils, assignor to M. E. Johnson, Fitchburg, Mass., executrix of Iver Johnson, deceased. Bicycle-fork .....	697,435	Apr. 15	1979	483	99	456

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Bergman, Adam. (See Willmarth, Robert I., assignor.)						
Bergman, Amos C., New York, N. Y. Practice-clavier	712,900	Nov. 4	822	191	101	1065
Bergman, Erick P., and A. E. Renard, Concordia, Kans. Magazine-firearm	703,520	July 1	260	60	100	52
Bergmann, Nora E. P., New York, N. Y. Handkerchief-holder	705,196	July 22	3523	764	100	764
Bergmann, Theodor, Gaggenu, Germany. Firearm	710,411	Oct. 7	25	6	101	8
Bergner, Hugo, Frankfurt-on-the-Main, Germany. Gas-igniter	716,855	Dec. 30	499	954	101	2880
Bergsøe, Paul, Copenhagen, Denmark. Regaining tin	691,101	Jan. 14	1370		98	300
Bergstraesser, Otto, H. L. Händel, and J. D. Mues, Dresden, Germany. Cigarette-machine	715,744	Dec. 16	2076	466	101	2298
Bergstrom, Carl A., Tacoma, Wash. Adjustable rocking-chair	710,085	Sept. 30	3954	892	100	2855
Berlinger, George M., Camden, N. J. Vaccine-shield	695,270	Mar. 11	1776	393	98	2103
Berliner, Peter F., Jennerstown, Pa. Rail-joint	715,002	Dec. 2	704	148	101	1977
Berkin, John. (See Sanders, Wilbur E., assignor.)						
Berkstresser, Robert H., York, Pa. Gate	695,581	Mar. 18	2235	545	98	2216
Berlin, Frederick, Detroit, Mich. Seed-planter	712,175	Oct. 28	3442	755	101	759
Berliner, Emile. (See Sanders, Joseph, assignor.)						
Berliner, Emile, Washington, D. C. Gramophone	692,502	Feb. 4	494	116	98	890
Berliner, Emile, and J. Sanders, Washington, D. C. Sound-box for recording and reproducing apparatus	715,003	Dec. 2	706	149	101	1978
Berliner Maschinenbau-Actien-Gesellschaft, vorm. L. Schwartzkopf. (See Ziehl, Emil, assignor.)						
Berly, Gaston H. de, and E. G. Rassinier, Paris, France. Brake for vehicles	693,776	Feb. 18	2949	1649	98	1451
Bernadac, Charles, Paris, France. Manufacture of nitrocellulose-and-casein compounds	700,471	May 20	2665	650	99	1755
Bernard, George. (See Garfield, Julius D., assignor.)						
Bernard, George, et al. (See Hanford, Orin A., assignor.)						
Bernard, George E., St. Louis, Mo. Oil-measure	702,767	June 17	2718	624	99	2706
Bernard, William A., assignor to William Schollhorn Company, New Haven, Conn. Hand-punch	712,482	Nov. 4	34	10	101	904
Bernard, Joseph A., Salem, Oreg. Domestic boiler	706,886	Aug. 12	1716	383	100	1485
Bernardin, Frank, Antwerp, assignor of three-fourths to F. J. Macklin, G. Fox, and W. H. Murphy, Columbus, Ohio. Automatic fire-alarm	713,050	Nov. 11	1099	254	101	1138
Bernasconi, Charles. (See Grobet and Bernasconi.)						
Berneck, Rudolph M. von. (See Krauss and Berneck.)						
Berner, Paul B. T., Brooklyn, N. Y. Fish-hook	701,132	May 27	3933	904	99	2037
Bernhard, George, assignor, by mesne assignments, to Canby, Ach & Canby Company, Dayton, Ohio. Base-delivery caddy	694,237	Feb. 25	3845	852	98	1648
Bernhard, Morris. (See Hozeland, Israel, assignor.)						
Bernhard, Morris, and R. T. Vent, Buffalo, N. Y. Fastener for ends of cord, &c.	698,247	Apr. 22	3494	769	99	790
Bernhardt, Wilhelm, Vienna, Austria-Hungary. Explosive-engine	705,022	July 22	3171	685	100	693
Bernier, Peter. (See Sebastian, Daniel S., assignor.)						
Berninger, Adam, Pittsburg, Pa. Tobacco-pipe	710,740	Oct. 7	654	136	101	133
Berninger, Adam, Pittsburg, Pa. Embossed picture	710,741	Oct. 7	656	136	101	133
Bernstein, Dolph, New York, N. Y. Vialstand	694,820	Mar. 4	930	206	98	1009
Bernstein Electric Manufacturing Company. (See Gardner, Edgar S., assignor.)						
Bernstein, Henry, Philadelphia, Pa. Manufacture of artificial silk	712,756	Nov. 4	532		101	1007
Bernstein, William, New York, N. Y. Veil-fastener	701,133	May 27	3934	905	99	2037
Bernthrop, Johan C., and M. L. Q. V. Hulsebosch, Amsterdam, Netherlands. Manufacturing a solid combustible from petroleum, sulfuric acid, and lime	711,380	Oct. 14	1892		101	409
Bernston, Thomas. (See Angell and Bernston.)						
Bernz, Otto, Newark, N. J. Handle or pull for flushing-tanks	692,107	Jan. 28	3938	743	98	731
Berquist, Thomas, St. Croix Falls, Wis. Sash lock and lift	691,348	Jan. 21	1873	422	98	424
Berri, William, Brooklyn, N. Y. Device for justifying lines of type or matrices	697,968	Apr. 22	2948	648	99	675
Berrien, George R., Princeton Junction, N. J. Mail-bag deliverer and catcher	698,358	Apr. 22	3637	811	99	827
Berrigan, John J., East Orange, N. J. Centrifugal machine	696,130	Mar. 25	3870	761	98	2465
Berrigan, John J., East Orange, N. J., assignor to De Laval Separator Company. Centrifugal liquid separator	715,001	Dec. 2	702	141	101	1977
Berringer, George, Blanco Tex. Cotton-chopper	691,102	Jan. 14	1371	311	98	300
Berringer, Mathias, Carrick, Pa. Metallic tie and rail-fastener	694,716	Mar. 4	726	161	98	1865
Berry, Benjamin D., assignor of one-half to W. H. Berry, Chester, Pa. Sash-holder	703,880	July 1	946	207	100	190
Berry, Benjamin W., Monticello, Fla. Vehicle-pole	711,613	Oct. 21	2343	512	101	516
Berry Buoyant Soap Company. (See Berry, Washington, assignor.)						
Berry, Charles H., Manchester, England. Steam-trap	699,646	May 13	1000	223	99	1395
Berry, Charles L., et al. (See Quist, John and C. assignors.)						
Berry, Charles M., assignor to F. Hofmann, New York, N. Y. Clasp or buckle	710,412	Oct. 7	26	7	101	8
Berry, Cyrus M. (See Putnam and Berry.)						
Berry, Edwin, Oxtou, Birkenhead, assignor to J. Storey, Liverpool, England. Steam or other piston	693,777	Feb. 18	2950	650	98	1452
Berry, Elmer E., Hamilton, Ohio. Cushion-stuffing device	705,088	June 24	3239	745	99	3828
Berry, James O., Pelham, N. Y. Wire-bent tool	692,118	Feb. 11	1071	241	98	1043
Berry, John W., Tacoma, Wash. Split pulley	715,694	Dec. 9	1855	412	101	2231
Berry, John W., assignor to Tacoma Automatic Scales Co., Tacoma, Wash. Split-pulley hanger	698,359	Apr. 22	3681	812	99	828
Berry, Washington, Chicago, Ill. Apparatus for inserting floats in cakes of soap	695,026	Mar. 11	1331	293	98	2010
Berry, Washington, Chicago, Ill. Soap-mold	695,027	Mar. 11	1333	294	98	2011
Berry, Washington, Chicago, Ill. Soap-mold	695,028	Mar. 11	1334	294	98	2011
Berry, Washington, assignor to Berry Buoyant Soap Company, Chicago, Ill. Soap cake	710,599	Oct. 14	1019	225	101	224
Berry, William H. (See Berry, Benjamin D., assignor.)						
Berst, Charles, New Albany, Ind. Funching-register	691,587	Jan. 21	2939	518	98	513
Bersted, Martin C., Chicago, Ill. Spring-hinge	691,838	Jan. 28	2901	629	98	635
Bertelsen, Jesse T. (See Unkefer and Bertelsen.)						
Bertheau, Ferdinand, Morgan Park, Ill. Mitten	699,137	May 6	21	6	99	1180
Bertheau, Henrik A., Stockholm, Sweden. Four-stroke petroleum-motor	700,295	May 20	2317	527	99	1685
Berthold, George H. E. (See Waterman and Berthold.)						
Bertholf, Psalm T., Loch Sheldrake, N. Y. Fish-hook	715,342	Dec. 9	3237	286	101	2127
Bertier de Sauvigny, Léon de, Paris, France. Machine for coal-breaking	707,945	Aug. 26	3787	849	100	1943
Bertogliatti, Charles E., New York, N. Y. Music-sheet turner	705,023	July 22	3173	686	100	693
Bertrand, Ernst, Kladno, Austria-Hungary, assignor to Wellman-Seaver Engineering Company, Cleveland, Ohio. Blast-furnace	698,248	Apr. 22	3495	769	99	790
Bertrand, Léon, Paris, France. Apparatus for quenching or cooling coke	707,379	Aug. 19	2626	592	100	1690



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Bertrand, Léon, Paris, France. Apparatus for discharging retorts.....	715,004	Dec. 2	708	149 150	101	1978
Bertsch, Charles A., Cambridge City, Ind. Gate shearing-machine.....	712,244	Oct. 28	3557	779	101	783
Bertsch, John C., Atlanta, Ga. Apparatus for distilling liquors.....	714,438	Nov. 25	3840	849	101	1738
Berube, Mary, Wilson, Mich. Safety-pin.....	694,238	Feb. 25	3846	853	98	1649
Berwald, Bennet J. (See Hall and Berwald.)						
Beskow, Bernhard, Stockholm, Sweden. Traction-wheel.....	694,303	Feb. 25	3972	884 885	98	1676
Besly, Charles H. (See Gardner, Frederick N., assignor.)						
Besly, Irving, Denver, Colo. Wheel-bearing.....	690,916	Jan. 14	1036	233	98	233
Besse, Daniel D. (See Wheeler and Besse.)						
Besse, Emile, and L. Lubin, Paris, France. Filling preserve-boxes.....	695,271	Mar. 11	1771	393	98	2103
Besson, Jules A., Caen, France. Defecating sugar-juice.....	710,413	Oct. 7	287	101		
Best, Charles J., Denver, Colo. Treating ores.....	701,131	May 27	3934	905	99	2037
Best, Daniel, San Leandro, Cal. Carbureter.....	699,830	May 13	1353	314	99	1467
Best, Daniel, San Leandro, Cal. Traction-engine.....	709,592	Sept. 23	3995	689	100	2604
Best, Ezra, <i>et al.</i> (See Best, William N., assignor.)						
Best, Ezra, <i>et al.</i> (See Gibson and Best, assignors.)						
Best, John H., <i>et al.</i> (See Best, William N., assignor.)						
Best, John H., <i>et al.</i> (See Gibson and Best, assignors.)						
Best, Louis H., Pueblo, Colo. Safety vehicle-brake.....	696,159	Mar. 25	3445	772	98	2479
Best, Thomas C., Chicago, Ill. Cheek-expanding pad.....	712,354	Oct. 28	3749	820	101	823
Best, William N. (See Gibson and Best.)						
Best, William N., Los Angeles, Cal., assignor of one-half to C. H. Siliman, Fort Worth, Tex. Coach-equalizing suspender.....	694,346	Mar. 4	11	3	98	1715
Best, William N., assignor of one-half to W. A. Cooper, Los Angeles, Cal. Hydrocarbon-burner.....	708,453	Sept. 2	813	185	100	2146
Best, William N., Los Angeles, Cal., assignor of two-thirds to J. H. and E. Best, Quincy, Ill. Apparatus for supplying air and hydrocarbon.....	702,529	June 17	2260	515	99	2611
Best, William N., Los Angeles, Cal., assignor of two-thirds to J. H. and E. Best, Quincy, Ill. Perfect-combustion furnace.....	709,571	Sept. 23	3961	682	100	2657
Bethea, Clarence and R. L. Littlelock, S. C. Washer for vehicle-axes.....	706,215	Aug. 5	406	87	100	1199
Bethea, Robert L. (See Bethea, Clarence and R. L.)						
Bethel, Walter C., Seattle, Wash. Electric alarm-clock.....	704,738	July 15	2533	547 548	100	545
Bethlehem Steel Company. (See Meigs, John F., assignor.)						
Bethlehem Steel Company. (See Meigs and Hammar, assignors.)						
Bethlehem Steel Company. (See Meigs and Stout, assignors.)						
Bethlehem Steel Company. (See Mixsell, Leighton N. D., assignor.)						
Bettendorf Metal Wheel Company. (See Einfield, Emil, assignor.)						
Bettendorf, William P., Davenport, Iowa. Car-bolster.....	700,402	May 20	2532	580	99	1726
Bettendorf, William P., Davenport, Iowa. Truss-beam.....	712,483	Nov. 4	33	101	905	
Bettendorf, William P., Davenport, Iowa. Metal wheel.....	712,484	Nov. 4	38	101	905	
Bettendorfe, Albert J., assignor to International Silver Co., Meriden, Conn. Tilting vessel.....	706,795	Oct. 12	1550	347	100	1450
Bettes, Harrison S. (See Anderson, Lee, assignor.)						
Bettini, Gianni, New York, N. Y. Phonograph or graphophone.....	697,969	Apr. 22	2945	649	99	676
Bettmann, Charles F., and S. Talkington, New Albany, Ind. Wrench.....	701,462	June 3	324	71	99	2176
Betts, Anson G., Troy, N. Y. Treating anode residues.....	712,540	Nov. 4	342	101	909	
Betts, Anson G., Lansingburg, N. Y. Electrolytic refining of lead and lead alloys.....	713,277	Nov. 11	1383	359	101	1237
Betts, Anson G., Lansingburg, N. Y. Electrodeposited lead.....	713,278	Nov. 11	1589	359	101	1238
Betts, Frank J., East Orange, assignor of one-half to C. C. Copeland, South Orange, N. J. Slide-opening.....	697,436	Apr. 15	1920	438	99	457
Betts, George P. (See Sackett, Anderson, and Betts.)						
Betts, Hobart D., Englewood, and R. M. Thomas, Elizabeth, N. J. Interior-conduit out-let-box.....	713,286	Nov. 11	1798	404	101	1282
Betts, John A., Smith Center, Kans. Cultivator.....	699,138	May 6	22	7	99	1181
Betts, John D., and C. J. Whitaker, Pendleton, Oreg. Safety railway-spike.....	712,245	Oct. 28	3559	779	101	784
Betts, Roger L., Double Springs, Miss. Extension-bedstead.....	711,551	Oct. 21	2226	484	101	492
Betz, Ernest, assignor to Columbian Hydro-Carbon Burner Company, Washington, D. C. Hydrocarbon-burner.....	709,387	Sept. 16	2674	600	100	2564
Betzell, William F., Portsmouth, assignor of one-half to R. T. Thorp, Norfolk, Va. Carbureter.....	707,897	Aug. 26	3706	831 832	100	1926
Beugle, John V., assignor of two-thirds to J. Manheimer and C. A. Wimpfheimer, New York, N. Y. Non-refillable bottle.....	711,692	Oct. 21	2495	547	101	550
Beumee, Ulrich J. (See Anderson, John E., assignor.)						
Beust, Anton von, Orange, and F. M. Potter, Newark, N. J. Tire.....	694,821	Mar. 4	931	207	98	1909
Beuzard, Ellis C., Jr., <i>et al.</i> (See McKenzie, Andrew, assignor.)						
Bevan, Edward J. (See Cross, Bevan, and Beadle.)						
Bevans, William H., Washington, D. C. Semi-automatic breech-loading ordnance.....	703,375	July 1	21	5	100	7
Beveridge, James, Brooklyn, N. Y. Buckle.....	715,948	Dec. 16	2512	553	101	2392
Beverly, James A. (See Smith, Jonas P., assignor.)						
Bevington, James H. (See Allen, James B., assignor.)						
Bevington, James H., Cleveland, Ohio. Detonating device.....	700,197	Sept. 16	2288	519	100	2481
Bevington, Thomas. (See Mascare and Bevington.)						
Beyer, Alois, Chicago, Ill. Watchman's clock-key holder.....	697,066	Apr. 8	1310	289	99	297
Beyer, Alois, Chicago, Ill. Watchman's clock.....	711,712	Oct. 21	2529	565	101	557
Beyer, Herman E. L. (See Starmer, Harry G., assignor.)						
Bezer, Henry, New Rochelle, N. Y. Railway signaling system.....	716,178	Dec. 16	2955	649	101	2484
Bezer, Henry, Kingsland, N. J. Railway signaling system.....	716,179	Dec. 16	2964	650 652	101	2487
Bianchi, Joseph, Philadelphia, Pa. Apparatus for animated pictures.....	708,303	Sept. 2	566	129	100	2097
Bianchini, Guglielmo, Milan, Italy. Apparatus for treatment of grain preparatory to grinding.....	700,472	May 20	2667	610	99	1755
Biberfeld, Josua A., Hamburg, Germany. Machine for filling and linking sausages.....	715,949	Dec. 16	2513	553	101	2393
Bicalky, Charles H., Oneida, N. Y. Sheet-metal pulley.....	691,923	Jan. 28	2931	661	98	666
Bicalky, Charles H., Oneida, N. Y. Wheel.....	692,062	Feb. 4	682	159	98	938
Bicalky, Charles H., Oneida, N. Y. Wheel.....	695,532	Mar. 18	2236	506	98	2217
Bicalky, Charles H., Oneida, N. Y. Split pulley.....	715,950	Dec. 16	2515	554	101	2398
Bickel, John E., Harrisburg, Pa. Coffee-pot.....	692,761	Feb. 4	959	217	98	994
Bickelhaupt, George, New York, N. Y. Skylight-opener.....	701,135	May 27	3936	905	99	2038
Bickelmann, Conrad O. (See Crum, Fred H., assignor.)						
Bickerstaff, James P., assignor of one-half to J. A. Miller, Rochester, Pa. Railway-tie.....	690,691	Jan. 7	621	135	98	131

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Bickford, Frank H., Dayton, Ohio, assignor to National Cash Register Company, Jersey City, N. J. Cash-register	690,554	Jan. 7	359	73	98	78
Bickford, Frank H., Dayton, Ohio, assignor, by mesne assignments, to National Cash Register Company, Jersey City, N. J. Cash-register	707,380	Aug. 19	2627	593	100	1691
Bickford, Frank H., and E. B. Lock, Dayton, Ohio, assignors to National Cash Register Company, Jersey City, N. J. Cash-register	713,387	Nov. 11	1799	404	101	1283
Bickford and Huffman Company. (See Baseman, Ernest, assignor.)						
Bickford and Huffman Company. (See Baseman and Heath, assignors.)						
Bickford and Huffman Company. (See Colley, Frederick G., assignor.)						
Bickford and Huffman Company. (See Heath, James S., assignor.)						
Bickford and Huffman Company. (See Heath and Baseman, assignors.)						
Bickford, James A., et al. (See Wynn, John P., assignor.)						
Bickford, John E., Whitman, Mass. Peg-cutting for horns of pegging-machines	703,951	July 1	1056	290	100	210
Bickford, John E., Whitman, Mass. Pegging-machine	707,498	Aug. 19	2839	642	100	1736
Bickford, John H., Salem, Mass. Controlling device for electric generating systems	708,195	Sept. 2	370	87, 88	100	2057
Bickford, John H., Salem, Mass. Valve	708,990	Sept. 16	1855	426 427	100	2391
Bickford, John H., Salem, Mass. Controlling device for electric generators	710,414	Oct. 7	28	7	101	8
Bickford, John H., Salem, Mass. Valve	712,485	Nov. 4	39	11	101	905
Bickford, John H., Salem, Mass. Valve	715,745	Dec. 16	2078	447	101	2299
Bickford, John H., W. N. Patten, and W. H. Downs, Salem, Mass. Putting-out machine.	711,034	Oct. 14	1209	205 206	101	266
Bickford, John S. V., Camborne, England. Automatic feed-regulator for steam-boilers.	703,757	July 1	705	156	100	141
Bicking, Jules. (See Brun and Bicking.)						
Bicknell, John O., Weymouth, Mass. Walts for boots or shoes	707,076	Aug. 19	2060	461	100	1579
Biddle, John P., McKeesport, Pa. Amusing apparatus	693,581	Feb. 18	2597	574	98	1371
Bidgood, J. W. (See Broach, Jefferson T., assignor.)						
Bidle, William S. (See Costello and Bidle.)						
Bidstrup, Niels P. (See Marchbank and Bidstrup.)						
Bidwell, Charles B., Metropolitan, assignor, by mesne assignments, to Nordlinger-Charl- ton Fireworks Company, New York, N. Y. Machine for loading fire-crackers	691,103	Jan. 14	1373	311 312 313	98	301
Bieber, Robert S., Brooklyn, N. Y. Gem-setting	706,379	Aug. 5	751	165	100	1267
Biedermann, George O., et al. (See Meyer, Henry L., assignor.)						
Bielefelder Maschinenfabrik vormals Dürrkopf & Co. (See Kuehans and Püschel, as- signors.)						
Bielhen, Fredrick, St. Joseph, Mo. Fire-escape	695,140	Mar. 11	1550	343	98	2057
Bienenstok, Edgar A., St. Louis, Mo. Stamp-affixer	707,198	Aug. 19	2296	513	100	1623
Bierley, Henry A., assignor to Household Manufacturing Company, Indianapolis, Ind. Insect-trap	704,293	July 8	1730	377	100	363
Bierley, Henry A., Portsmouth, assignor of one-half to W. C. Safford, Columbus, Ohio. Shaft-tug	699,441	May 6	600	137	99	1299
Bierley, Henry A., Portsmouth, Ohio, assignor to Pittsburg Catchem Company, Pitts- burg, Pa. Fly-trap	713,388	Nov. 11	1801	405	101	1283
Biernbaum, Charles, Newark, assignor to A. Degerdon, Jersey City, N. J. Egg-separa- tor	703,111	June 24	3377	776	99	2855
Biersach, Louis, assignor of one-half to K. Mueller, Milwaukee, Wis. Letter-press-copy- ing cloth and frame	707,753	Aug. 26	3409	768	100	1867
Biersach, Louis D., Milwaukee, Wis. Fireproof window	690,392	Jan. 7	15	3	98	6
Biersach, Louis D., Milwaukee, Wis. Fireproof window	714,131	Nov. 25	3236	714	101	1618
Bietenholz, Alfred, Blumenthal, Germany. Draw-off or stretching rollers for textile machinery	709,694	Sept. 23	3272	732	100	2701
Bigelow, Frank E. (See Bigelow, Russel and F. E.)						
Bigelow, Julian F. (See Crannell, Orlo G., assignor.)						
Bigelow, Kennard & Co. (See Fox, Thomas J., assignor.)						
Bigelow, Lyman G., St. Joseph, Mo. Photographic flash-light machine	696,402	Apr. 1	18	5	99	6
Bigelow, Prescott. (See Anderson, William G., assignor.)						
Bigelow, Russel and F. E., Vanwert, Ohio. Chair-truck	695,368	Mar. 11	1950	434	98	2139
Biggs, Russell H. W. (See Barnes, James C., assignor.)						
Bigsby, Myron H., Kirksville, Mo. Support for limbs	705,024	July 22	3174	686	100	693
Bilat, Edward, assignor to Dubois Watch-Case Company, Brooklyn, N. Y. Watchcase	700,473	May 20	2668	611	99	1755
Bildt, Carl W., Worcester, Mass. Apparatus for continuous rolling direct from fluid/ metal	690,917	Jan. 14	1037	233 234	98	234
Biles, Henry, Ealing Dean, assignor to J. H. Osborne, London, England. Horseshoe-pad	712,641	Nov. 4	343	79	101	969
Bilkowitz, William, Kansas City, Mo. Street-car fender	717,326	Dec. 30	5299	1153	101	3032
Bill, Louis H., San Francisco, Cal., assignor to Duck Brake Company of New York, New York, N. Y. Roller-brake	708,114	Sept. 2	211	50	100	2025
Billings, John J., Philadelphia, Pa. Repeating mechanism for phonographs	695,272	Mar. 11	1779	393	98	2103
Billings, Frank E. (See Lowery and Billings.)						
Billings, Fred W., Petersburg, N. D. Grain-threshing machine	713,734	Nov. 18	2461	549	101	1437
Billings, Frederick C., Macon, Mo. Flange	713,944	Nov. 18	2875	637	101	1522
Billings, John A., Rockland, Mass. Hypodermic syringe	701,671	June 3	710	157	99	2257
Billings, John, assignor to W. Bosworth and H. Fishbach, Beatrice, Nebr., and F. C. Allen. Cooling apparatus	713,590	Nov. 18	2194	488	101	1378
Billings, Swan. (See Stille and Billings.)						
Billings, William J. (See Maurer and Billings.)						
Bills, Charles A., St. Joe Station, Ind. Derrick	691,349	Jan. 21	1875	422 423	98	424
Bills, Frank H., Springfield, Mass. Dandy-roll	694,717	Mar. 4	727	161	98	1865
Bilsborough, John, assignor, by mesne assignments, to M. M. Bilsborough, Bristol, R. I. Top-roll saddle	702,618	June 17	2437	556	99	2647
Bilsborough, Mary M. (See Bilsborough, John, assignor.)						
Bilyeu, Adam A. (See Bledsoe and Bilyeu.)						
Binn, Joseph E., assignor to Pasteur-Chamberland Filter Company, Dayton, Ohio. Combined filter and cooler	713,197	Nov. 11	1389	312	101	1198
Binet, Joseph, St. Constant, Canada. Breech-loading firearm	703,304	Sept. 2	569	129	100	3097
Binder, Carl. (See Storch, Ernst, assignor.)						
Binder, Gottlieb, assignor of one-half to C. H. Yost, Jr., Louisville, Ky. Machine for making brushes for street-sweeping machines	692,230	Feb. 4	18	4	98	801
Bing, Alexander, assignor of two-thirds to M. Manne and L. Goldstein, New York, N. Y. Cleaning and waxing pad	715,951	Dec. 16	2517	555	101	2393
Bingham, Mary E., New York, N. Y. Washboard	693,364	Feb. 18	2173	477	98	1292
Bingham, Charles D., Watertown, assignor to Prentiss Vise Company, New York, N. Y. Vise	703,376	July 1	24	5	100	8
Bingham, Charles F., Buffalo, N. Y. Manhole-casing	692,231	Feb. 4	19	5	98	801



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Binker, Aaron T., Petrolia, Pa. Saw-clamp	694,718	Mar. 4	729	161	98	1866
Binkley, William R., New Bedford, Mass. Automatic electric exchange system	717,327	Dec. 30	5302	1153	101	3022
Binnie, John S. (See Arthur and Binnie.)						
Binnie, Robert, Bolivar, Pa. Drill	694,822	Mar. 4	932	207	98	1909
Binnie, Robert, Bolivar, Pa. Drill	694,823	Mar. 4	933	207	98	1910
Binnix, Benjamin F., Seabrook, Md. Smoke-consuming furnace	716,369	Dec. 23	3344	731	101	2579
Binnus, Pickles, Shipley, England. Bottle filling and stoppering machine	704,171	July 8	1574	325	100	318
Birk, Frank, Flatwillow, Mont. Shepherd's crook	713,279	Nov. 11	1330	359	101	1238
Binsse, Henry B., New York, N. Y. Feed mechanism for machine-tools	695,665	Mar. 18	2492	566	98	2269
Binz, Charles A. (See Linderman and Binz.)						
Bippart, Achill, Newark, N. J. Veil-fastener	701,991	June 10	1276	292	99	2388
Birch, Frank. (See Perks and Birch.)						
Birchall, George W., et al. (See Justen, Joseph M., assignor.)						
Birchmore, Woodbridge H. (See Hooker and Birchmore.)						
Birchmore, Woodbridge H., Brooklyn, assignor of one-half to C. A. Collins, New York, N. Y. Preserving liquids	713,840	Nov. 18	2651	591	101	1475
Birchmore, Woodbridge H., Brooklyn, assignor of one-half to C. A. Collins, New York, N. Y. Preserving milk	713,841	Nov. 18	2656	592	101	1475
Birchmore, Woodbridge H., Brooklyn, assignor of one-half to C. A. Collins, New York, N. Y. Vessel for containing and distributing liquids	714,092	Nov. 18	3159	699	101	1582
Bird, Burney B. (See Wagner and Bird.)						
Bird, Charles S., Walpole, Mass. Lining material	694,522	Mar. 4	358	78	98	1789
Bird, Charles S., Walpole, Mass. Paper	696,131	Mar. 25	3372	761	98	2466
Bird, Charles S., and J. B. Hanscom, assignors to F. W. Bird and Son, East Walpole, Mass. Package	694,304	Feb. 25	3973	885	98	1676
Bird, Charles S., and J. B. Hanscom, assignors to F. W. Bird and Son, East Walpole, Mass. Waterproofing paper	708,454	Sept. 2	816	186	100	2147
Bird, Joseph M., Washington, D. C. Hat-box	704,431	July 8	1976	430	100	416
Bird and Son, F. W. (See Bird and Hanscom, assignors.)						
Bird and Son, F. W. (See Hanscom, John B., assignor.)						
Bird & Son, F. W. (See Wyman, George R., assignor.)						
Bird, William, St. Louis, Mo. Folding coop	712,992	Nov. 4	988	231	101	1098
Bird, William M., Jr. (See Eckert, Charles F., assignor.)						
Bird, Willie G., Oxford, Tex. Windmill	691,524	Jan. 21	2190	491	98	491
Birdsey and Somers. (See Doolittle, James E., assignor.)						
Birely, Samuel M., Thurmont, Md. Mail-box	715,240	Dec. 9	1133	243	101	2085
Biren, Simon, assignor to F. Katz, Brooklyn, N. Y. Match-box	697,601	Apr. 15	2270	506	99	514
Birge, William H., Franklin, Pa. Hot-air furnace	698,170	Apr. 22	3349	732	99	758
Birkenstock, John W., assignor to Empire Pneumatic Tool Company of the State of New York, New York, N. Y. Pneumatic cutting-tool	691,334	Jan. 14	1848	418	98	404
Birkenstock, John W., assignor to Empire Pneumatic Tool Company, New York, N. Y. Pneumatic polishing-tool	691,740	Jan. 28	2614	585	98	597
Birkenstock, John W., assignor to Empire Pneumatic Tool Company, New York, N. Y. Pneumatic motor	696,387	Mar. 25	3990	871	98	2577
Birkenstock, John W., and R. W. Funk, assignors to Empire Pneumatic Tool Company, New York, N. Y. Pneumatic riveting-tool	703,758	July 1	706	156	100	141
Birkery, Cornelius, Hartford, Conn. Ball-cock	703,521	July 1	296	60	100	54
Birkholz, Anna, et al. (See Birkholz, Richard, assignor.)						
Birkholz, August J. (See Hamburger and Birkholz.)						
Birkholz, Edwin R., et al. (See Birkholz, Richard, assignor.)						
Birkholz, Irma, et al. (See Birkholz, Richard, assignor.)						
Birkholz, Julius W., administrator. (See Birkholz, Richard.)						
Birkholz, Richard, deceased; J. W. Birkholz, administrator, assignor to Galland-Henning Pneumatic Maltin Drum Manufacturing Company, Milwaukee, Wis. Press	714,856	Dec. 2	427	91	101	1920
Birkholz, Richard, deceased; J. W. Birkholz, administrator, assignor to A., J. W., E. R., and I. Birkholz, Milwaukee, Wis. Bottle-washing machine	710,742	Oct. 7	656	137	101	133
Birling, George M., Mason City, Ill. Pulley-covering machine	714,556	Nov. 25	4052	897	101	1781
Birmingham, Grant C., Milwaukee, Wis. Calf-weaner	696,929	Apr. 8	1042	231	99	240
Birmingham, John P., assignor to D. C. Humphreys, trustee, Lexington, Va. Nut-lock	707,499	Aug. 19	2840	642	100	1736
Birn, Ludwig J. W., Chicago, Ill. Illuminating-tile	713,591	Nov. 18	2195	489	101	1378
Birnbaum, Theodore, Berlin, Germany. Driving mechanism for rotary gramophone turn or supporting plates	705,636	July 29	4492	975	100	969
Birnie, Alfred, Springfield, and C. W. Gay, West Springfield, Mass. Paper box or carton	695,273	Mar. 11	1780	394	98	2104
Birnie, Alfred, Springfield, and C. W. Gay, West Springfield, Mass. Paper-box machine	695,360	Mar. 11	1951	435	98	2139
Birrell, John M., assignor to M. L. Toole, J. E. Johnston, A. Kennedy, J. E. Nelson, and J. Carlie, Coal Lake, Minn. Folding ear-lock	713,551	Nov. 11	2115	474	101	1347
Bisbee, Frank M., assignor to F. C. Austin, Chicago, Ill. Sprocket-wheel	711,932	Oct. 28	2979	655	101	670
Bisbee, Fred T. (See Smith and Bisbee.)						
Bisclier, Augustus, assignor to Basle Chemical Works, Basle, Switzerland. Making phthalic and benzoic acids	702,171	June 10	1614		99	2458
Bischoff, Richard, New York, N. Y. Brake for street-cars	692,046	Jan. 28	3176	716	98	709
Bishop, Abner W., Racine, Wis. Gun-cleaner	690,393	Jan. 7	16	4	98	7
Bishop, Albert H., Fort Dodge, Iowa. Device for administering anesthetics	712,642	Nov. 4	344	80	101	969
Bishop, Albert H., Fort Dodge, Iowa. Device for administering anesthetics	712,643	Nov. 4	345	80	101	969
Bishop, Albert T., Southington, Conn. Lantern	705,816	July 29	4821	1047	100	1036
Bishop, Alfred. (See Bishop and Passmore.)						
Bishop, Benjamin M., assignor of one-half to F. S. White, Bloomingdale, N. J. Endless-belt feed or carrying apparatus	700,474	May 20	2670	611	99	1755
Bishop, Charles B., assignor to P. & F. Corbin, New Britain, Conn. Engraving-machine	709,863	Sept. 30	3592	810	100	2780
Bishop, Charles B., assignor to P. & F. Corbin, New Britain, Conn. Engraving-machine or the like	716,370	Dec. 23	3346	732	101	2579
Bishop, David W., Lenox, Mass. Acetylene-gas generator	707,077	Aug. 19	2060	461	100	1571
Bishop, David W., Lenox, Mass. Acetylene-gas generator	707,078	Aug. 19	2064	461	100	1572
Bishop, Harry W. (See Cooley and Bishop.)						
Bishop, McKendree F., and M. A. Toline, San Jose; said Toline assignor to said Bishop and I. W. Winans, Plymouth, Cal. Thill-coupling	696,897	Apr. 1	971	217	99	216
Bishop, Walter B. and A., and F. W. Passmore, London, England; said Passmore assignor to said Walter B. and A. Bishop. Piperidin salt and making same	717,066	Dec. 30	4815		101	2917

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Bishop, William, <i>et al.</i> (See Cahill, Thomas H., assignor.)						
Bishoprick, Nicholas J. (See Haworth, William H., assignor.)						
Bissell Carpet Sweeper Company. (See Mason, Francis C., assignor.)						
Bissell Carpet Sweeper Company. (See Shanahan and Mason, assignors.)						
Bissell, Dwight, <i>et al.</i> (See Ten Winkel, August, assignor.)						
Bissell, Joseph E., Pittsburg, assignor to D. G. Knittel, Allegheny, Pa. Means for effect-	692,819	Feb. 11	1072	241	98	1043
ing noiseless discharge of guns.						
Bissell, Leavitt P., and J. Sullivan, Suffield, Conn. Tobacco-sizing device.	703,226	June 24	3605	828	99	2901
Bissell, Stanley H., <i>et al.</i> (See Ten Winkel, August, assignor.)						
Bkner, Harry, Berwyn, Ill. Banana-shipping case.	707,047	Aug. 12	1900	447	100	1540
Bitner, Harry, Berwyn, assignor to Winslow Bros. Co., Chicago, Ill. Operating device	609,363	May 6	442	101	99	1265
for elevator-doors.				102		
Bitner, Harry, Berwyn, assignor to F. Schmitz, Chicago, Ill. Banana-shipping case.	710,036	Sept. 30	3955	892	100	2855
Bitner, Frederick J. (See Hewes and Bitner.)						
Bivins, Abraham, Denver, Colo. Wrench.	703,377	July 1	25	6	100	8
Bjerkman, Ole, <i>et al.</i> (See Strommen, Peter M., assignor.)						
Bjorkner, Charles H., Lorain, Ohio. Air mixer and heater for gas-burners for blast-						
furnace stoves.	695,437	Mar. 18	2055	462	98	2180
Bjorkander, Gustaf O., Eau Claire, Wis. Leather-lace cutter.	704,294	July 8	1732	377	100	364
Bjornrud, Edvard, Christiania, Norway. Acetylene-gas generator.	691,890	Jan. 28	2892	651	98	654
Bjurlund, John F., New York, N. Y. Emergency releasing apparatus.	716,659	Dec. 23	3934	899	101	2705
Black, Alonzo C., assignor of one-half to J. Sansone, Keokuk, Iowa. Attachment for						
washboilers, &c.	699,069	Apr. 29	5068	1120	99	1142
Black, Amos R., Lamar, Colo. Sulky hay-rake.	694,719	Mar. 4	1311	161	98	1866
Black, Amos R., Lamar, Colo. Sulky hay-rake.	697,067	Apr. 8	1310	163	99	297
Black, Amos R., Lamar, Colo. Treating beet-seed.	704,610	July 15	2325	505	100	501
Black, Amos R., Lamar, Colo. Agricultural rake.	711,933	Oct. 28	2982	656	101	671
Black, Archibald P. (See Jacobs and Black.)						
Black, David G., Brooklyn, N. Y. Safety-fuse for electric circuits.	699,647	May 13	1002	233	99	1395
Black, Elisabeth J. (See Black, William C., assignor.)						
Black, George F. (See Connelly, James A., assignor.)						
Black, Henry, New York, N. Y. Thermo-electric alarm.	694,239	Feb. 25	3847	853	98	1649
Black, Henry C., Oakland, Cal. Can-body-ending machine.	697,784	Apr. 15	2605	577	99	583
Black, Henry C., Oakland, Cal. Can-body forming and soldering machine.	697,785	Apr. 15	2607	578	99	583
Black, Henry C., Oakland, Cal. Can-end-soldering machine.	700,890	May 27	3475	787	99	1941
Black, Henry C., Oakland, Cal. Can-testing apparatus.	700,891	May 27	3477	788	99	1941
Black, Henry C., assignor to A. Johnson, Oakland, Cal. Combined bottomer and crimper	697,786	Apr. 15	2611	579	99	584
for can-bodies.				580		
Black, Howard. (See Ebner, Peter, assignor.)						
Black, John A. (See Crapper, Ebenezer, Jr., assignor.)						
Black, John F., Rockwell, assignor of one-fourth to G. D. Galloway, Leonard, Tex. Mu-						
sic holder and turner.	713,051	Nov. 11	1101	254	101	1138
Black, John O., <i>et al.</i> (See Decker, John M., assignor.)						
Black, Julius, Toledo, Ohio, assignor to Hincer Manufacturing Company, Burroak,						
Mich. Garment-hanger.	702,619	June 17	2438	556	99	2647
Black, Marion L. (See Bement and Black.)						
Black, Samuel L., and H. P. Bunker, Columbus, Ohio. Coffin-protector.	696,707	Apr. 1	596	134	99	130
Black, Thomas N., De Queen, Ark. Automatic wagon-brake.	690,509	Jan. 7	376	55, 56	98	60
Black, William, and H. S. Richards, Chicago, Ill. Finishing artificial stone.	716,371	Dec. 23	3349	101	2880	
Black, William C., Mansfield, Ohio, assignor to E. J. Black. Milk-cooler.	699,097	Apr. 29	5108	1129	99	1149
Black, William C., assignor of seven-eighths to C. F. Langdon, A. R. Union, R. O. Dick-						
inson, and F. B. Gifford, Chicago, Ill. Attachment for type-writing machines.	714,132	Nov. 25	3237	715	101	1618
Black, William L., Fort McKavett, Tex. Antiriction device for sucker-rods.	712,486	Nov. 4	42	11	101	906
Black, William L., Fort McKavett, Tex. Antiriction device for sucker-rods.	712,487	Nov. 4	43	12	101	906
Black, William L., Fort McKavett, Tex. Antiriction device for sucker-rods or the like	712,488	Nov. 4	45	12	101	907
Black, William L., Fort McKavett, Tex. Antiriction device for sucker-rods and coup-						
plings.	712,901	Nov. 4	826	192	101	1066
Blackard, Harry P., Omaha, Ill. Chair.	703,227	June 24	3606	829	99	2901
Blackburn, Charles B., and G. J. Porter, Wolverhampton, England. Tap for cutting						
screw-threads.	700,892	May 27	3479	798	99	1942
Blackburn Loom and Weaving Machinery-Making Company. (See Talbot and Rosset-						
ter, assignors.)						
Blackburn, Robert B., Mayfield, Ky. Wrench.	692,062	Jan. 28	3089	694	98	692
Blackburn Smith Company. (See Smith, William B., assignor.)						
Blackhall, Charles D., Buffalo, N. Y. Paper-cutting machine.	707,294	Aug. 19	2474	555	100	1659
Blackhall, Charles D., Buffalo, N. Y. Driving mechanism for embossing-presses.	712,644	Nov. 4	346	80	101	970
Blackington and Company, V. H. (See Wilmarth, Edwin B., assignor.)						
Blackledge, John W., Chicago, Ill. Combined cradle and baby-jumper.	704,774	July 15	2611	565	100	560
Blackledge, John W., Chicago, Ill. Dynamo-electric machine or motor.	714,093	Nov. 18	3161	700	101	1383
Blackman, Edward L., Brooklyn, N. Y. Sash-coord fastener.	702,393	June 17	2406	457	99	2357
Blackman, John J., New Britain, Conn. Dovetailing-machine.	697,787	Apr. 15	2614	580	99	585
Blackman, Luman, assignor of two-thirds to L. Earnest and E. Sills, Topeka, Kans.						
Brick-kiln.	710,415	Oct. 7	33	7	101	9
Blackman, William A. (See Meeker and Blackman.)						
Blackmore, Henry S., Mount Vernon, N. Y. Making gas-purifying agents.	697,931	Apr. 15	2871		99	641
Blackmore, Henry S., Mount Vernon, N. Y. Reducing metals and producing alloys						
thereof.	699,282	May 6	286		99	1233
Blackmore, Henry S., Mount Vernon, N. Y. Making sulfuric anhydrid. (Reissue.)	11,995	May 27	4192		99	2088
Blackmore, Henry S., Mount Vernon, N. Y. Reducing metal and making metallic hy-						
droxids.	717,328	Dec. 30	5305		101	3023
Blackstone, Clarence W. (See Knapp and Blackstone.)						
Blackwell, Austin L., Leakesville, Miss. Combined harrow, cultivator, and plow.	691,741	Jan. 28	2616	586	98	597
Blackwell, Edwin O., Wrayard, Tasmania, assignor of one-half to J. S. Irvine, Caulfield,						
and F. Baker, Middle Brighton, Victoria, Australia. Lock-stitch mechanism for sew-	700,131	May 13	1945	447	99	1584
ing-machines.				448		
Blackwell, James E., Seattle, Wash. Floating dock.	711,552	Oct. 21	2227	484	101	493
Bladen, Thomas G., Vandergrift, Pa. Tack-puller.	705,554	July 29	4348	940	100	941
Blagburn, Charles, San Francisco, Cal. Caisson for subaqueous work.	694,399	Mar. 11	1159	253	98	1976
Blagden, Silliman, Boston, Mass. Oyster-opening tool.	708,014	Sept. 2	24	6	100	1886
Blaine, George E., Coshocton, Ohio. Seat-spring for vehicles.	708,115	Sept. 2	212	50	100	2025



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Blaine, George E., Decatur, Ill. Harrow-tooth fastening.....	714,661	Dec. 2	14	3	101	1839
Blaine, Otis E., assignor of one-half to L. M. Hammond, Victor, Colo. Non-refillable bottle.....	690,631	Jan. 7	508	111	98	109
Blaine, William T. (See Hunter, Jacob M., assignor.).....						
Blair, David W., assignor of one-half to J. C. McCoy, Perth Amboy, N. J. Metallurgical crane.....	697,798	Apr. 15	2618	581	99	586
Blair, Duncan R., Birmingham, England. Gas-heated sad-iron.....	695,598	Mar. 18	2371	538	98	2245
Blair, Gardner L., assignor of one-half to D. B. Hall, Redwine, Ky. Vehicle-brake.....	692,777	Feb. 4	984	223	98	998
Blair, George W., Pittsburg, Pa. Apparatus for finishing glass articles.....	713,280	Nov. 11	1591	359	101	1238
Blair, George W., Pittsburg, and F. O. Horn, Jeannette, Pa. Method of ornamenting.....	697,602	Apr. 15	2271		99	514
Blair, Henry W., et al. (See McGregor, Charles, assignor.).....						
Blair, John, New York, N. Y. Fountain-pen.....	713,735	Nov. 18	2466	549	101	1438
Blair, John C., Louisville, Ky. Fountain-spittoon.....	715,005	Dec. 2	710	150	101	1979
Blair, Sherman, McKeesport, Pa. Rail-joint.....	691,525	Jan. 21	2191	491	98	492
Blair, Thomas H., Northboro, Mass. Hydrocarbon-lamp.....	700,475	May 20	2672	612	99	1756
Blair, William H., Erie, Pa. Quadruple pump.....	710,416	Oct. 7	35	8	101	9
Blaisdell, Byron R., Chicago, Ill. Bedstead.....	698,249	Apr. 22	3497	77	99	790
Blaisdell, Hiram W., Yuma, Ariz. Ter. Apparatus for handling tailings.....	692,108	Jan. 28	3285	743	98	731
Blaisdell, Hiram W., Yuma, Ariz. Ter. Conveyor system.....	714,387	Nov. 25	3697	814	101	1711
Blaisdell, Philo C. (See Terlinde, William H., assignor.).....						
Blake, Byron S., Rochester, N. Y. Metal fastening for cross-wire.....	709,695	Sept. 23	3273	733	100	2701
Blake, Charles C., Brookline, Mass. Electrical annunciator.....	699,140	May 6	25	7	99	1181
Blake, Charles W., Port Republic, N. J. Ship's windlass.....	708,455	Sept. 2	818	186	100	2147
Blake, Francis C., London, England. Carbureter.....	705,314	July 22	3801	824	100	819
Blake, Fred J., et al. (See Harvey, Isaac, assignor.).....						
Blake, Frederick W., assignor of one-half to A. W. Russell, Mantua Station, Ohio. Furnace.....	715,952	Dec. 16	2517	555	101	2393
Blake, George A., New Bedford, Mass. Self-closing faucet.....	711,754	Oct. 21	2617	576	101	576
Blake, George A., New Bedford, Mass. Faucet.....	711,755	Oct. 21	2618	576	101	576
Blake, George E., and C. M. Bell, assignors to Greencastle Automobile Company, Greencastle, Ind. Boiler.....	706,154	Aug. 5	301	64	100	1178
Blake, John A., et al. (See Reensterna, Gustaf L., assignor.).....	691,712	Jan. 21	2530	566	98	562
Blake, John C., Toledo, Ohio, assignor to Indiana Rubber and Insulated Wire Company, Jonesboro, Ind. Rubber-tire-setting machine.....	710,135	Sept. 30	4161	937	100	2898
Blake, John F. (See Loss and Blake.).....						
Blake, John F., New York, N. Y. Name-plate or printing-machine.....	713,389	Nov. 11	1802	405	101	1284
Blake, John T., Pittsburg, Pa., assignor of two-thirds to I. F. Brainard and F. A. Schmitz. Rail-joint connection.....	690,918	Jan. 14	1041	234	98	234
Blake, Joseph S., assignor to Flexible Door and Shutter Company, Worcester, Mass. Flexible door.....	705,553	July 29	4347	940	100	940
Blake, Lucien I. (See Swart and Blake.).....						
Blake, Walter D. (See Fox and Graham, assignors.).....						
Blake, Walter D. (See Graham, David F., assignor.).....						
Blakely, Oliver, Luray, Mo. Wall-paper-display rack.....	699,478	May 6	669	155	99	1315
Blakely, Charles A., assignor to F. H. Earl Manufacturing Co., Plano, Ill. Bedstead-joint.....	703,333	June 24	3772	868	99	2937
Blakely, Horace, et al. (See Wright, James M., assignor.).....						
Blakely, James H., Homestead, assignor of one-half to J. Blakely, Oakmont, Pa. Automatic drip for steam-lines.....	697,932	Apr. 15	2878	633	99	641
Blakely, Jesse. (See Blakely, James H., assignor.).....						
Blakeman, William N., Jr., New York, N. Y. Process of effecting the drying of non-drying oils and product produced by such process.....	702,172	June 10	1616		99	2458
Blakeman, William N., Jr., New York, N. Y. Imparting drying properties to pigments.....	702,173	June 10	1617		99	2459
Blakeman, William N., Jr., New York, N. Y. Treating pigments for paints.....	702,174	June 10	1619		99	2459
Blakeman, William N., Jr., New York, N. Y. Manufacturing paints.....	702,175	June 10	1621		99	2459
Blakeman, William N., Jr., New York, N. Y. Paint compound or mixture.....	702,176	June 10	1623		99	2460
Blakeman, William N., Jr., New York, N. Y. Pigment and producing same.....	702,177	June 10	1626		99	2460
Blakeman, William N., Jr., New York, N. Y. Process of treating pigments and products produced by such process.....	702,178	June 10	1627		99	2460
Blakeslee, Edward E., Brooklyn, N. Y., assignor to E. Faber Pencil Company, Penholder.....	711,278	Oct. 14	1701	367	101	367
Blakeslee, George S., Chicago, Ill. Dish-washing machine.....	713,842	Nov. 18	2656	592	101	1476
Blakeslee, John R., Glenville, Ohio. Safety device for bolt-heading machines.....	690,919	Jan. 14	1042	234	98	234
Blakeslee, Manley H. (See Jarvis and Blakeslee.).....						
Blakeslee, Russell C. (See Lepper, John G., assignor.).....						
Blakey, George G., and R. O. Pittsburg, Pa. Skelp-bending machine.....	708,015	Sept. 2	25	6	100	1986
Blakey, James W., assignor of two-thirds to W. G. Standfield, Bradford, England. Incandescent gas-burner.....	698,432	Apr. 29	3808	840	99	871
Blakey, Robert O. (See Blakey, George G. and R. O.).....						
Blalock, James D., Cross, Ala. Excavating-machine.....	694,240	Feb. 25	3850	853	98	1650
Blanc, Frederic N., Paris, France. Accumulator.....	715,343	Dec. 9	1328	286	101	2127
Blanchard, Allen I., Chicago, Ill. Railway-ticket.....	699,139	May 6	24	7	99	1181
Blanchard, Arthur, London, England. Liquid-hydrocarbon-vapor burner.....	711,918	Oct. 21	2944	648	101	644
Blanchard, Charles H. (See Miles and Blanchard.).....						
Blanchard, Charles H., St. Louis, Mo. Trace catch and holder.....	695,785	Mar. 18	2701	614	98	2311
Blanchard, Francis L., assignor to Arkell Safety Bag Company, New York, N. Y. Lining for barrels or similar receptacles.....	698,790	Apr. 29	4531	1003	99	1024
Blanchard, George B., Tacoma, Wash. Rail-bond.....	694,250	Apr. 22	3499	771	99	791
Blanchard, George B., Tacoma, Wash. Cross-bond for rails.....	698,251	Apr. 22	3500	771	99	791
Blanchard, George I. (See Nicholson and Blanchard.).....						
Blanchard, William N., Southbridge, Mass. Eyeglasses.....	699,070	Apr. 23	5069	1121	99	1142
Blanchet, Arthur. (See Brocq and Blanchet.).....						
Blanchi, Ernesto. (See Maggiora and Bianchi.).....						
Blanchi, Paolo. (See Maggiora and Bianchi.).....						
Blanck, Henry C., Philadelphia, Pa. Bung.....	708,305	Sept. 2	573	130	100	2098
Bland, Andrew J. (See Cummins and Bland.).....						
Blandin, Walker H., Sedalia, Mo. Display-rack.....	717,157	Dec. 30	4982	1081	101	2952
Blandy, Richard R., Kensington, England. Device for transporting bananas, &c.....	691,526	Jan. 21	2192	492	98	492
Blandy, Richard R., Kensington, England. Means applicable for use in transporting fruit.....	705,637	July 29	4493	975	100	969
Blaney, Thomas. (See McCullough, Blaney, and Baron.).....						
Blanpied, David S., Newtonville, Mass. Door-holder.....	701,136	May 27	3838	906	99	2038

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Blanton, Edward A., Jr., Wallingford, Pa., assignor to Blanton Patents Syndicate, Limited, London, England. Cam-fastening for shafts of stamp-mills.	696,403	Apr. 1	19	5, 6	99	7
Blanton, Jacob L., Sharpsburg, assignor of two-thirds to R. L. Short and J. H. Hurt, Cherryville, N. C. Fertilizer-dropper.	712,489	Nov. 4	46	12, 13	101	907
Blanton Patents Syndicate. (See Blanton, Edward A., Jr., assignor.)						
Blass, Gustave. (See Cox and Blass.)						
Blast Furnace Power Syndicate. (See Thwaite, Benjamin H., assignor.)						
Blatch, Thomas G., Hazleton, Pa. Brake	690,692	Jan. 7	622	136	98	132
Blatchley, Melbourne E., assignor to H. O. Tunison, Whitehall, Ill. Lock	697,933	Apr. 15	2574	633	99	641
Bláthy, Otto T., Budapest, Austria-Hungary. Induction alternate-current meter	716,372	Dec. 23	3350	732	101	2580
Blatin, Antoine, Paris, France. Nursing-bottle.	714,133	Nov. 25	3242	716	101	1619
Blatt, Samuel. (See Hawkes, John F., assignor.)						
Blatter, Ulrich. (See Durkee, Frederick M., assignor.)						
Blau, Max. (See Hammerstein, Moritz, assignor.)						
Blaustein, Solomon, Baltimore, Md. Window-shade hanger	703,378	July 1	27	6	100	8
Blauvelt, William E., Brooklyn, assignor to himself and E. West, New York, N. Y. Book-binding machine	715,540	Dec. 9	1697	370 371 372 373 374 375 376 377	101	2199
Blaxter, George H. (See Dicks, William, assignor.)						
Bleasdale, Charles G., Detroit, Mich. Trolley-stand.	699,364	May 6	444	102	99	1265
Blechmann, Ewald, Beyenburg, Germany. Sad-iron	704,775	July 15	2612	505	100	560
Bleischmidt, Charles E., Bellevue, Ky., assignor to Victor Safe and Lock Company, Cincinnati, Ohio. Day-lock for time-lock-operated screw safe-doors	710,417	Oct. 7	35	8	101	10
Bledsoe, John C., and A. A. Bilyeu, Talala, Ind. Ter. Vehicle-hub	711,816	Oct. 21	2738	605	101	600
Blee, Charles O., and J. H. Reiding, Roanoke, Ind. Fence-post	709,735	Sept. 23	3336	732	100	2714
Bléha, William V., St. Louis, Mo. Door-stop	690,555	Jan. 7	362	73	98	79
Blenio, Guido, New York, N. Y. Fireproof composition for use on wood	716,660	Dec. 23	3936		101	2706
Bleekhorn, Harriet, Minneapolis, Minn. Clothes-drainer	706,887	Aug. 12	1717	384	100	1485
Blesch, August F., Detroit, Mich., assignor to Standard Sanitary Manufacturing Company, Pittsburg, Pa. Slow-closing valve	716,856	Dec. 30	4401	954	101	2830
Blessing, Arthur L. (See Peer, John A., assignor.)						
Blevin Brothers Manufacturing Company. (See Arnold, Philip C., assignor.)						
Blevins, David T., and D. H. Taylor, New Windsor, Colo. Clothes-line tightener and adjuster.	690,890	Jan. 7	985	223	98	207
Blevney, John C., Newark, N. J. Lubricator for steam-engine pistons	690,510	Jan. 7	277	56	98	60
Blevney, John C., Newark, N. J. Engine	690,511	Jan. 7	278	56	98	60
Blevney, John C., Newark, N. J. Power-transmitting and braking device	693,365	Feb. 18	2174	477	98	1292
Blevney, John C., Newark, N. J. Feed-pump and connection for horseless carriages	707,079	Aug. 19	2067	461	100	1573
Blevney, John C., Newark, N. J. Shaft or axle bearing	707,673	Aug. 26	3217	722	100	1830
Blevney, John C., Newark, assignor to J. S. W. Thompson, Morristown, N. J. Machine for making blanks for paper boxes	695,029	Mar. 11	1337	294	98	2012
Bleyer, Samuel T., Chicago, Ill. Furnace	694,241	Feb. 25	3852	854	98	1650
Bleizinger, Richard, Crailsheim, Germany. Cork-fastener	709,581	Sept. 23	2997	668	100	2644
Blin, Emile E. (See Malciet and Blin.)						
Blinc, Jacob F., Norman, Ohio. Harness connection for neck-yokes	714,134	Nov. 25	3243	716	101	1619
Blinn, Horace S., Omaha, Nebr. Depilating compound	707,953	Aug. 26	3797		100	1945
Blinn, Horace S., Omaha, Nebr., assignor to International Chemical Company, Iowa City, Iowa. Depilating process	707,954	Aug. 26	3798		100	1945
Blinn, Horace S., Omaha, Nebr., assignor to International Chemical Company, Iowa City, Iowa. Depilating compound	707,955	Aug. 26	3799		100	1945
Blinn, Jacob L., et al. (See Schubert, Daniel N., assignor.)						
Blish, John B., U. S. Navy. Instrument for navigating or surveying	714,276	Nov. 25	3548	781	101	1682
Bliss Bros. Company. (See Adams, Francis A., assignor.)						
Bliss, Donald M., assignor to Holtzer-Cabot Electric Company, Brookline, Mass. Sparking device	702,695	June 17	2578	594	99	2677
Bliss Electric Car Lighting Company. (See Bliss, William L., assignor.)						
Bliss, Elmer J., Boston, Mass. Shoe	714,439	Nov. 25	3841	850	101	1739
Bliss, William L., Brooklyn, assignor to Bliss Electric Car Lighting Company, New York, N. Y. Brush mechanism for dynamos	707,754	Aug. 26	3410	769	100	1968
Blizzard, Albert E., and H. Todd, Newcastle, England. Apparatus for pressing bricks or blocks	710,743	Oct. 7	663	138 139	101	135
Blocher, John, assignor of one-half to A. Grim, Franklin Grove, Ill. Voting-machine	711,919	Oct. 21	2946	648 649	101	644
Block, David L., assignor of one-half to J. Lederer, New York, N. Y. Shirt	699,365	May 6	446	102	99	1266
Block, David L., assignor of one-half to J. Lederer, New York, N. Y. Gas-pressure regulator	700,403	May 20	2534	580	99	1727
Block, Francis L., Sidney, Ill. Row-marker for agricultural machines	691,436	Jan. 21	2039	456 457	98	460
Block, Henry. (See Boley, Daniel C., assignor.)						
Block, Ike. (See Gury, John B., assignor.)						
Block, Ike, et al. (See Pickles, Charles K., assignor.)						
Block, Louis, Mamaroneck, N. Y. Can for ice manufacture	710,662	Oct. 7	511	107	101	104
Block, Sam. (See Dugger, William T., assignor.)						
Block, Wesley S. (See Carter and Block.)						
Blocker, Samuel D., assignor of one-half to W. J. Greene, Columbus, Ohio. Non-refillable bottle	707,199	Aug. 19	2298	514	100	1623
Blodgett, James Q. (See Stuart, Edwin T., assignor.)						
Blodgett, John W., Chicago, Ill. Hub	710,241	Sept. 30	4360	980	100	2941
Blodgett, John W., assignor to N. Tire Company, Chicago, Ill. Pneumatic tire and manufacturing same	708,952	Sept. 9	1767	408 409	100	2355
Blodgett, John W., assignor to N. Tire Company, Chicago, Ill. Pneumatic tire and manufacturing same	708,953	Sept. 9	1770	409	100	2356
Blodgett, John W., assignor to N. Tire Company, Chicago, Ill. Tire and manufacturing same	708,954	Sept. 9	1772	409	100	2356
Blodgett, Stephen H., Lincoln, Mass. Safety attachment for gas-burners	705,315	July 22	3803	825	100	819
Blodgett, William A., assignor of one-half to T. E. Woodley, Chicago, Ill. Machine for finishing heels and bottoms	691,104	Jan. 14	1377	313	98	302
Blodgett, William E., Faribault, Minn. Adjustable support for telephones, &c.	696,160	Mar. 25	3446	772	98	2480
Blome, Herman, Oakland, Cal. Broom-holder	696,542	Apr. 1	271	62	99	61



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Blondel, André, Paris, France. Composite carbon electrode for arc-lamps.	714,277	Nov. 25	3550	781	101	1682
Blood, Benjamin F., deceased, Forestgrove, Oreg.; J. S. Blood, administratrix. Swage-block.	700,724	May 27	3153	716	99	1875
Blood, Bryant H., Brooklyn, N. Y. Tubular transit apparatus.	690,920	Jan. 14	1043	235	98	234
Blood, Bryant H., New York, N. Y. General class of tubular despatch systems and especially to receiving apparatus for intermediate stations.	693,366	Feb. 18	2176	478	98	1292
Blood, Bryant H., New York, N. Y. Sending apparatus for tubular transit apparatus.	711,196	Oct. 14	1553	334	101	338
Blood, Charles W. H. (See Osteman and Blood.)						
Blood, Charles W. H., assignor to S. A. Woods Machine Company, Boston, Mass. Planing-machine.	694,314	Feb. 25	4056	901	98	1685
Blood, Charles W. H., assignor to S. A. Woods Machine Company, Boston, Mass. Feed-rolls.	696,307	Mar. 25	3739	835	98	2540
Blood, Charles W. H., assignor to S. A. Woods Machine Company, Boston, Mass. Feed-rolls. (Reissue.)	11,984	May 13	2028	462	99	1602
Blood, Charles W. H., assignor to S. A. Woods Machine Company, Boston, Mass. Box-setting-up machine.	705,197	July 22	3524	764	100	764
Blood, John B., Newburyport, Mass. Starting mechanism for trains.	706,295	Aug. 5	590	129	100	1234
Blood, Julia S., administratrix. (See Blood, Benjamin F.)						
Blood, Lewis P., Runnells, Iowa. Riding-harrow.	704,500	July 15	2128	461	100	461
Bloodgood, James, assignor of two-thirds to J. M. Austin and R. M. Edwards, Norfolk, Va. Grubbing-machine.	711,693	Oct. 21	2497	548	101	551
Bloom, Louisa, assignor of one-half to F. Kick, Buffalo, N. Y. Combined shade-roller and curtain-pole bracket.	696,930	Apr. 8	1044	232	99	240
Bloom, Philip J., assignor of one-half to G. E. Ellingwood, Tidoute, Pa. Suspender attachment.	692,603	Feb. 4	687	159	98	939
Bloom, Samuel S., Philadelphia, Pa. Artificial tooth and anchor.	717,158	Dec. 30	4981	1081	101	2952
Bloomberg, Casper, New York, N. Y. Suspenders.	703,981	July 8	1132	245	100	240
Bloomberg, William, New York, N. Y. Suspender-end.	702,396	June 17	2007	458	99	2557
Bloomer, Edward. (See Pardee and Bloomer.)						
Bloomer, Howard J., Norwalk, Conn. Interchangeable suspenders and belt.	698,101	Feb. 11	1631	356	98	1160
Bloomer, Reuben H., Council Bluffs, Iowa. Woven-wire fence.	715,541	Dec. 9	1709	378	101	2201
Bloomer Vehicle Company. (See Bath, Abraham, assignor.)						
Bloomingdale, Lyman G. (See Ward, Richard, assignor.)						
Blossier, Albert C., Paris, France. Manufacturing rubber.	713,736	Nov. 18	2467	.....	101	1438
Blossom, Francis, and J. E. Duncanson, Brooklyn, N. Y. Economizer system.	712,440	Nov. 4	18	13	101	907
Blossom, Willie W., Saluvia, Pa. Safety jar-holder.	712,355	Oct. 28	3750	820	101	824
Bloume, Marguerite, Paris, France. Amalgamating apparatus.	702,179	June 10	1628	364	99	2461
Blount, David P., Norfolk, Va. Automatic steam-pressure regulator.	693,231	Feb. 11	1913	416	98	1217
Blue, Chilton W., Montgomery, Ala. Handle-clasp.	695,590	Mar. 18	2376	538	98	2246
Blumel, Charles W., F. H., and E. A., London, England. Stowaway mud-guard for velocipedes or the like.	703,228	June 24	3607	829	99	2901
Blumel, Ernest A. (See Blumel, Charles W., F. H., and E. A.)						
Blumel, Frank H. (See Blumel, Charles W., F. H., and E. A.)						
Bluff, John T., assignor of two-thirds to J. McBurney and J. Becker, Seattle, Wash. Combined dinner-pail and cooker.	714,633	Nov. 25	4201	928	101	1811
Bluhm, Charles A., Michigan City, Ind. Incandescent gas-burner.	694,824	Mar. 4	935	208	98	1910
Blum, Benjamin, New York, N. Y. Electric fan.	710,940	Oct. 14	1020	225	101	224
Blum, Ferdinand, Frankfurt-on-the-Main, assignor to Firm of E. Merck, Darmstadt, Hessen, Germany. Glycosuria antidote and producing same.	705,638	July 29	4494	.....	100	969
Blume, Gustave A. (See Hodges and Blume.)						
Blumenstiel, W. L. M., et al. (See Fulghum, Frederick A., assignor.)						
Blumenthal, Max, et al. (See Chipman, William R., assignor.)						
Blumer, Arthur, La Varenne, France. Stopper for bottles.	706,634	Aug. 12	1223	271	100	1379
Blumer, James, Brooklyn, N. Y. Faucet and hose connector.	715,542	Dec. 9	1710	378	101	2202
Blun, Ferdinand S. M. (See Galsman and Ross, assignors.)						
Bly, Norman, Crownpoint, N. Y. Cutter-head.	696,794	Apr. 1	758	172	99	161
Blydenburgh, Charles M., Riverhead, N. Y. Cranberry-picker.	700,165	May 20	2049	468	99	1629
Blye, Harry C. (See Koch, Gustave, assignor.)						
Blyth, Herbert K., assignor of one-half to R. L. Nelson, Chicago, Ill. Elbow and pipe.	706,888	Aug. 12	1719	384	100	1485
Boardman, Arthur E. (See Hanson, Henshall, and Boardman.)						
Boardman, James, Philadelphia, Pa., assignor to Boardman Manufacturing Company, Wilmington, Del. Scaffold.	702,914	June 24	2989	688	99	2780
Boardman Manufacturing Company. (See Boardman, James, assignor.)						
Boas, Feodor, St. Hyacinthe, Canada. Artificial stone.	707,898	Dec. 26	3708	.....	100	1926
Boatright, Robert F., Ka, Va. Wire-stretcher.	705,555	July 29	4349	941	100	941
Boaz, John J. (See Patterson and Boaz.)						
Boaz, John J., McKeesport, assignor to National Tube Company, Pittsburg, Pa. Apparatus for handling tube-plates.	715,746	Dec. 16	2083	467	101	2309
Boazman, Washington M., Greenville, S. C. Convertible article of furniture.	715,953	Dec. 16	2518	555	101	2394
Bobbitt, William. (See Shannon and Bobbitt.)						
Bobinsky, Vladimir de. (See Eliason and Bobinsky.)						
Bochet, Adrien, Paris, France. Vibration-equalizing support for motors.	715,954	Dec. 16	2519	555	101	2394
Bock, David L., Lebanon, Pa. Car-coupling.	698,433	Apr. 29	3810	841	99	871
Bock, Emil, Dusseldorf, Germany. Apparatus for manufacturing conical tubes.	698,171	Apr. 22	3350	733	99	758
Bock, Henry L., assignor to Veeder Manufacturing Company, Hartford, Conn. Casting-machine.	698,434	Apr. 29	3811	841	99	871
Bock, William A., Chicago, Ill. Hoisting apparatus.	715,747	Dec. 16	2087	468	101	2301
Böcker, Carl, Altona-Ottensen, Germany. Apparatus for cooling or heating beverages.	702,915	June 24	2991	688	99	2780
Bockhoop, Rudolf A., Lexington, Ky. Chock.	702,180	June 10	1630	361	99	2461
Boerselski, Frank E., Springfield, Mass. Oil-cup for shaft-bearings.	694,605	Mar. 4	924	114	98	1824
Boden, George, Watertown, assignor to Oakville Company, Watertown, Conn. Safety-pin.	702,916	June 24	2991	689	99	2781
Boden, George, Watertown, assignor to Oakville Company, Watertown, Conn. Safety-pin.	702,917	June 24	2993	689	99	2781
Bodenstein, Henry, assignor to W. T. Wood & Company, Arlington, Mass. Ice-plane.	715,955	Dec. 16	2520	556	101	2394
Bodenstein, Henry, assignor to W. T. Wood & Company, Arlington, Mass. Ice-planing knife.	715,956	Dec. 16	2523	556	101	2395
Bodman, Walter L., assignor to J. B. Baynes, Buffalo, N. Y. Thill-coupling.	691,891	Jan. 28	2893	651	98	654
Bodmer, Christian, assignor of one-half to J. A. Traut, New Britain, Conn. Bevel.	710,178	Sept. 30	4242	857	100	2915
Bodmer, Christian, assignor of one-half to J. A. Traut, New Britain, Conn. Bevel.	711,464	Oct. 21	2055	445	101	455
Bodvig, Oscar O., Velva, N. D. Pneumatic stacker for threshing-machines.	712,902	Nov. 4	828	192	101	1066
Bodwell, Charles A., Jr., Lakeville, Cal. Telescoping valise.	710,037	Sep. 30	3956	892	100	2855

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Boecker, Wolfram, Barmen, Germany. Washboard.	715,957	Dec. 16	2534	557	101	2395
Boehm, Charles, Hopkins, Minn. Pneumatic horse-collar.	694,339	Feb. 25	4111	914	98	1696
Boehm, Conrad R., Charlottenburg, near Berlin, Germany. Manufacture of carbons for arc-lamps.	703,692	July 1	595	.....	100	118
Boehm, George J., Elizabeth, N. J. Rapid-fire gun.	694,606	Mar. 4	525	114	98	1824
Boehm, Herman, Youngstown, Ohio. Incandescent lamp.	693,222	Feb. 11	1914	416	98	1217
Boehm, Wilhelm, Berlin, Germany. Manufacturing contact-pieces between first and second class conductors.	695,000	Mar. 18	2377	.....	98	2346
Boehrer, Frederick W. G. F. (See Ach. Fritz, assignor.)						
Boehrer & Soehne, C. F. (See Buchner, Max, assignor.)						
Boekel, Julius. (See Boekel, William and J.)						
Boekel, William and J., Philadelphia, Pa. Nebulizer.	698,898	Apr. 29	4786	1053	99	10-2
Boeklen, Reinhold. (See Purper, Moser, and Boeklen.)						
Boelk, Frank, Waltham, Minn. Nail-holding implement.	696,852	Apr. 1	858	198	99	182
Boelk, Frank, Waltham, Minn. Tire inserter and remover.	717,329	Dec. 30	3508	1154	101	3023
Boenning, William M., Port Washington, Wis. Apparatus for edge-uniting veneers.	709,864	Sept. 30	3602	814 (815)	100	2782
Boesch, Basil W., Boston, Mass. Making cellulose acetate.	708,456	Sept. 2	833	.....	100	2148
Boesch, Basil W., Boston, Mass. Purifying cellulose esters.	708,457	Sept. 2	834	.....	100	2148
Boessneck, Paul, Glauchau, Germany. Making acetic acid.	715,748	Dec. 16	2089	468	101	2302
Boettcher, Frederick W. G., Detroit, Mich. Window-balance.	696,808	Mar. 25	3741	830	98	3540
Boettcher, Frederick W. G., Detroit, Mich. Sash adjuster and lock.	708,517	Sept. 9	942	213	100	2184
Boettcher, Hermann, Hawcreek, assignor of one-half to F. Presun, Lagrange, Tex. Fire-escape.	696,931	Apr. 8	1046	232	99	241
Boettger, Gustav, Milwaukee, Wis. Demagnetizer.	699,863	May 13	1420	380	99	1482
Boettler, Robert A., assignor of one-half to A. Haberman and P. Escheibach, Cleveland, Ohio. Street-car fender.	710,941	Oct. 14	1021	226	101	2284
Bogardus, Washington A. H., L. Collis, and G. G. Powell, New York, N. Y. Tubular despatch apparatus.	709,434	Sept. 16	2754	619 (620)	100	2581
Bogart, Walter, <i>et al.</i> (See Le Mond, George E., assignor.)						
Bogendoerfer, Conrad, Long Island City, N. Y. Candle-holder.	697,127	Apr. 8	1401	311	99	318
Bogia, Louis F., Jr., Philadelphia, Pa. Regulating-socket.	708,016	Sept. 2	26	6	100	1986
Bogia, Louis F., Jr., Philadelphia, Pa. Clip.	711,817	Oct. 21	2741	606	101	601
Bogle, Walter S., Chicago, Ill. Coal-mining machine.	716,181	Dec. 16	2986	633	101	2492
Bogle, William L., Columbus, Miss. Corn-planter.	696,543	Apr. 1	272	63	99	62
Bogue, Robert J., Honeygrove, Tex. Specific-gravity scale.	691,437	Jan. 21	2040	457	98	460
Bohl, Julius G. (See Lafferty, Erastus S., assignor.)						
Bohlender, W. F. (See Credlebaugh, Henry S., assignor.)						
Bohn, Edward, Lancaster, Pa. Garment-fastening.	699,071	Apr. 29	5070	1121	99	1142
Bohn, René, Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen, Germany. Blue sulfonated dye.	692,762	Feb. 4	960	.....	98	994
Bohnert, Mathias, San Francisco, Cal. Horse-clipper.	693,223	Feb. 11	1915	416	98	1217
Bohon, Albert B. (See Stair, Burton A., assignor.)						
Boice, Augustin. (See Wheeler, James F., assignor.)						
Boise, Frank C. (See Warner, Isaac M., assignor.)						
Boisselot, Jean B., assignor to E. Van Dam, New York, N. Y. Ignition-plug for explosive-motors.	692,975	Feb. 11	1404	304	98	1114
Botin, Louis, St. Sauveur of Quebec, Canada. Doucouping attachment.	716,857	Dec. 30	4402	955	101	2890
Bök, Nils S., and T. R. Robsahm, Stockholm, Sweden. Axial-flow turbine.	696,795	Apr. 1	759	172	99	162
Bokop, Henry D., <i>et al.</i> (See Weaver, Cornelius, assignor.)						
Bokop, Henry D., assignor of one-half to A. F. Miller, Defiance, Ohio. Collapsible crate.	698,435	Apr. 29	3825	843	99	874
Boland, Christopher G. (See Collins, Patrick J., assignor.)						
Boland, Christopher G. (See Collins and Bolland.)						
Bole, William A., Pittsburg, Pa., assignor to Westinghouse Machine Company. Chaplet for supporting cores in molds.	702,620	June 17	2439	556	99	2647
Bole, William A., Pittsburg, Pa., assignor to Westinghouse Machine Company. Engine.	710,136	Sept. 30	4162	938	100	2898
Bolen, Arthur L. (See Krause and Bolen.)						
Bolen, Arthur L. (See Krause and Bolen.) (Reissue.)						
Bolen, Brantle W., Rosebud, Tex. Nut-lock.	701,284	June 3	12	3	99	2111
Bolens, Harry W., Port Washington, Wis. Seat-spider.	693,824	Feb. 25	3052	673	98	1492
Bolens, Harry W., Port Washington, Wis. Seat-spider.	693,825	Feb. 25	3053	673	98	1492
Bolens, Harry W., Port Washington, Wis. Chair.	702,768	June 17	2720	624	99	2706
Bolens, Harry W., Port Washington, Wis. Chair-spider.	702,769	June 17	2722	625	99	2707
Boley, Daniel C., Chicago, assignor to H. Block, Pekin, Ill. Apparatus for treating pulverized ores of gold or silver.	700,593	Sept. 23	3097	690 (692)	100	2665
Bolfing, Arthur J., San Francisco, Cal. Voting-machine.	696,932	Apr. 8	1048	233 (234)	99	241
Bolgiano, Gilbert C., assignor of one-third to J. F. Lang, Baltimore, Md. Shutter fastener and bower.	711,279	Oct. 14	1702	367	101	367
Bolinger, Frank J., <i>et al.</i> (See Hart, Frank, assignor.)						
Bolinger, George H., <i>et al.</i> (See Hart, Frank, assignor.)						
Bolland, William J., Pittsburg, Pa. Ice-creamisher.	714,440	Nov. 25	3842	850	101	1739
Boller, Alexander, New York, N. Y. Window attachment for protecting food.	693,224	Feb. 11	1916	417	98	1217
Boller, Peter, Chicago, Ill. Button-holder for upholstering-machines.	704,501	July 15	2131	461	100	461
Bolles, Robert O., Bloomington, Ill. Convertible window shade and awning.	695,856	Mar. 18	2381	643	98	2338
Bollinger, Edmond, Fostoria, Ohio. Merry-go-round.	700,462	Sept. 23	2333	636 (637)	100	2609
Bollinger, Sidney W., Pittsburg, Pa. Car-haul.	707,200	Aug. 19	2300	514	100	1623
Bollinger, Simon, South Whitley, Ind. Screw-pipe-thimble.	700,611	May 20	2911	670	99	1806
Boller, Alexander, New York, N. Y. (See Tracy and Bollinger.)						
Bolser, Gilbert, Indianapolis, Ind. Burial-vault.	711,713	Oct. 21	2531	555 (556)	101	557
Bolster, John W. (See Watkins, William D., assignor.)						
Bolster, Walter E., Brockton, Mass. Mallet.	698,430	Apr. 29	3826	843	99	875
Bolton, Andrew J., Pleasant Site, Ala. Wind-wheel.	705,639	July 29	4495	975	100	970
Bolton, James D., assignor of one-half to W. W. Griswold, Trinidad, Colo. Can-opener.	700,113	May 13	1889	439	99	1576
Bolton, John T., Fall River, Mass. Wef-replenishing mechanism for looms.	716,373	Dec. 23	2352	732	101	2581
Bolton, John T., assignor of one-fourth to T. McAnuliffe, Fall River, Mass. Machine for copying patterns for jacquard-cards.	696,708	Apr. 1	597	135	99	130
Boltze, George F., Fort Madison, Iowa. Grappling device.	704,852	July 15	2767	597 (598)	100	598
Bolus, William G., assignor to Selby, Starr & Company, Peoria, Ill. Grain-drill.	695,786	Mar. 18	2702	614	98	2311
Bolz, George, New York, N. Y. Wardrobe.	703,173	June 24	3500	804	99	2879



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Bolzano, Friedrich von. (See Homolka and Bolzano.)						
Bolzano, Friedrich von, assignor to Farbwerke, vorm. Meister, Lucius & Brüning. Höchst-on-the-Main, Germany. Making formylmethylantranilic acid	712,246	Oct. 28	3560	-----	101	784
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Rubber-tip attachment for lead-pencils	703,229	June 24	3608	829	99	2901
Boman, Claes W., New York, and J. M. Reed, Brooklyn, N. Y.; said Reed assignor to said Boman. Can for holding coarse emery or the like	699,442	May 6	801	137	99	1299
Bomgren, Johan A., Stockholm, Sweden. Support for steam-turbine wheels	705,025	July 22	3155	686	100	693
Bomgren, Johan A., Jerla, Sweden. Bushing	715,066	Dec. 2	711	150	101	1979
Bomgren, Johan A., Stockholm, Sweden, assignor to De Laval Steam Turbine Company. Support for steam-turbine wheels	697,128	Apr. 8	1402	312	99	318
Bomhard, Karl, Aix-la-Chapelle, Germany. Draft-gage	697,970	Apr. 22	2948	649	99	676
Bommarius, Frederick, New Orleans, La. Filter	707,899	Aug. 26	3709	832	100	1926
Bommer, Emil, Brooklyn, N. Y. Spring-hinge	695,066	Mar. 18	2438	566	98	2269
Bommer, Emil, Brooklyn, N. Y. Spring-hinge	685,704	Mar. 18	2559	579	98	2281
Bommer, Emil, Brooklyn, N. Y. Door-strike	702,636	June 17	2579	594	99	2677
Bon Durant, Thomas N., Moundridge, Kans. Grain-door for cars	708,017	Sept. 2	28	7	100	1986
Bonar, James, Pittsburg, Pa. Steam-trap	707,295	Aug. 19	2476	1555 1556	100	1659
Bonati, Anton, assignor to Kalle and Company, Biebrich, Germany. Sulfur dye and making same	695,533	Mar. 18	2240	-----	98	2218
Bonati, Anton, assignor to Kalle and Company, Biebrich, Germany. Sulfur dye and making same	695,534	Mar. 18	2241	-----	98	2218
Bond, A. T., et al. (See Johnson and Matthews, assignors.)						
Bond, Albert, Natick, Mass., assignor of one-half to J. W. Currier, North Troy, Vt. Wrench	699,443	May 6	602	137	99	1299
Bond, Charles L., Los Angeles, Cal. Automatic weighing-scale	711,934	Oct. 28	2984	656	101	671
Bond, Frank. (See Carlisle, Charles C., assignor.)						
Bond, G. Morris. (See Behn, Mary E., assignor.)						
Bond, John W., et al. (See Heath, Clarence F., assignor.)						
Bond, Nathan O., Hyannis, Mass. Blind-fastening device	702,397	June 17	2010	458	99	2557
Bond, William A., trustee. (See Wadsworth, Frank L. O., assignor.)						
Bonds, George W., Fresno, Cal. Gas-generator for gas-engines	697,789	Apr. 15	2619	581	99	586
Bone, Frank A., Lebanon, Ohio. Retaining-wall	705,732	July 29	4675	1012	100	1005
Bone, John A., Mayers, Reg. Food-cutter	700,725	May 27	3155	716	99	1876
Bonebrake, Edward H., Roadside, Pa. Cultivator	703,089	June 24	3241	745	99	2859
Bonelli, George A., Kingman, Ariz. Ter. Hydrocarbon-burner	693,225	Feb. 11	1918	417	98	1217
Bongart, William H., Champaign, Ill. Curtain-fixture	696,404	Apr. 1	21	6	99	7
Bonham, Austin G. (See Waldo and Bonham.)						
Bonham, Guy L., Dorrance, Pa. Train-pipe coupling	701,833	June 10	979	218	99	2330
Bonham, William, Philadelphia, Pa. Car-fender	703,040	June 24	3242	745	99	2829
Bonhorst, Harry L. von, assignor of two-thirds to J. E. Kelly and N. A. Den, Los Angeles, Cal. Decorating glass, &c.	690,869	Jan. 7	984	-----	98	207
Boufface, Nonna F., New York, N. Y. Combined heater, cooler, and storage-basket	692,109	Jan. 28	3237	744	98	731
Böniger, Melchior, assignor to Chemical Works formerly Sandoz, Basle, Switzerland. Brown sulfur dye and making same	712,176	Oct. 28	3444	-----	101	760
Bonn, Charles T., Baltimore, Md. Knockdown toy battle-ship	710,560	Oct. 7	317	69	101	64
Bonnafor, Samuel A., Erie, Pa. Envelop	697,971	Apr. 22	2949	650	99	676
Bonnaud, Jean B. G., Ostend, Belgium. Pyroxilin compound	697,790	Apr. 15	2621	-----	99	587
Bonneau, Paschal. (See Gagné, Edouard, assignor.)						
Bonner, Oliver R. (See Wride, John F., assignor.)						
Bonner, Otto H., Cleveland, Ohio. Ellipsograph	695,857	Mar. 18	2832	643	98	2338
Bonner, Richard S., Little Rock, Ark. Cultivator attachment for plows	690,921	Jan. 14	1045	235	98	235
Bonner, William H., Newton, Kans. Railway tariff-book	699,479	May 6	707	155	99	1315
Bonner, William S., Indianapolis, Ind. Wrench	716,515	Dec. 23	3642	795	101	2041
Bonnet, Joseph, Paris, France. Producing explosives	695,667	Mar. 18	2495	-----	98	2269
Bonnett, Ernest W., et al. (See Harrington, Louder, assignor.)						
Bonsack, James A. (See Heckendorn, Henry C., assignor.)						
Bonsor, Hewson, Birmingham, England. Gas-stove	703,982	July 8	1134	245	100	240
Bontempi, Augusto, assignor to M. B. Scott-Uda, Naples, Italy. Sculpturing-machine	709,388	Sept. 16	2676	1600 1601	100	2564
Booe, Lex P., Chanute, Kans. Corn-planter	692,232	Feb. 4	20	5	98	802
Booher, Flavius J. (See Hankins and Booher.)						
Book, Dwight D., Brooklyn, N. Y., assignor, by mesne assignments, to Curtis Steam Turbine Company. Governor for elastic-fluid turbines	714,094	Nov. 18	3162	700 701 702	101	1588
Book, Solon D., Bagley, Minn. Rotary engine	698,860	Apr. 22	3681	812 813	99	828
Boone, Charles H., et al. (See Hoerichs, Edward, assignor.)						
Boone, William C., Boston, Mass. Rope-laying machine	697,437	Apr. 15	1981	498	99	457
Booraem, Alfred W., and F. T. Howard, Brooklyn, N. Y. Illusion apparatus	715,958	Dec. 16	2525	557	101	2395
Booraem, Alfred W., and F. T. Howard, Brooklyn, N. Y. Illusion apparatus	715,959	Dec. 16	2526	557	101	2395
Boord, Thomas E., Connellsville, Pa. Paper-hanger's tool	702,338	June 10	1891	432	99	2512
Boorman, David, and A. P. Sharp; said Sharp assignor to W. H. Glenn and J. H. Walton, Altoona, Pa. Washing-machine	702,355	June 10	1923	439	99	2519
Boos, Horace, Cincinnati, Ohio. Vegetable-cutter	690,512	Jan. 7	282	57	98	61
Boos, Joseph B., Muscatine, Iowa. Screw-door safe	708,991	Sept. 16	1859	427	100	2392
Boos, Joseph B., Muscatine, Iowa, assignor to himself, C. R. Musser, G. M. Titus, and D. V. Jackson. Screw-door safe	695,191	Mar. 11	1623	392	98	2074
Booser, Eli A., Altoona, Pa. Car-fender	704,776	July 15	2613	536	100	561
Boote, Arthur J. (See Rowley, Charles O., assignor.)						
Booth, Charles W., Milwaukee, Wis. Car-door lock	696,089	Mar. 25	3371	740	98	2441
Booth, Edward W. (See Comstock, Andrew J., assignor.)						
Booth, Franklin P. (See Kintz and Leonard, assignors.)						
Booth, Frederick, Tefft, Ind. Chainless bicycle	709,463	Sept. 23	2835	637	100	2609
Booth, Irving E. (See Booth, Quentin W. and I. E.)						
Booth, Jacob, Reynoldsville, Pa. Cuspidor	705,375	July 22	3945	855	100	847
Booth, James C., Monessen, Pa. Railway-switch-operating device	709,865	Sept. 30	3608	815	100	2783
Booth, James R., Sault Ste. Marie, Canada. Pencil-holder	715,636	Dec. 9	1857	412	101	2232
Booth, John, Central Falls, R. I. Yarn-spinning apparatus	705,733	July 29	4678	1012	100	1005
Booth, Kraft. (See Gillinder and Booth.)						
Booth, Quentin W. and I. E., Rochester, N. Y. Upper-folding machine	695,438	Mar. 18	2056	462 463 464 465	98	2180
Booth, Ralph W., New Brunswick, N. J. Faucet	709,380	Sept. 16	2681	601	100	2565

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Booth, Ralph W., New Brunswick, N. J. Jar-cover	709,390	Sept. 16	2682	601	100	2565
Booth, Thomas C., New Brunswick, N. J. Can and attaching a label thereto	706,635	Aug. 12	1225	272	100	1380
Booth, William, San Francisco, Cal. Oil-burner for furnaces	698,361	Apr. 22	3684	813	99	829
Booth, Philip H., and F. L. Woods, Collins, Miss. Well-drill	714,772	Dec. 2	238	47	101	1885
Boothroyd, Tufnell, and J. F. Johnson, Chicago, Ill. Instrument for fitting spectacles	716,516	Dec. 23	3643	796	101	2642
Boozer, Arthur G., Tucuman, S. C. Shell-rolls for spinning-machines	709,238	Sept. 16	2487	559	100	2524
Bozzer, George W., San Antonio, Tex. Wrench	703,636	July 1	469	107	100	62
Brabin, Henry F., assignor to Gus V. Brecht Butchers Supply Company, St. Louis, Mo. Motor-vehicle	708,793	Sept. 9	1454	332	100	2391
Borch, Gaston L. C., assignor of one-half to H. F. Allan, Duluth, Minn. Piano attachment	700,726	May 27	3156	717	99	1876
Borchers, Perry, Amanda, Ohio. Iron fence-post	695,439	Mar. 18	2065	465	98	2182
Borchert, William, assignor of one-half to R. J. Kelly and R. Kirman, Carson City, Nev. Wave or tide motor	694,242	Feb. 25	3856	854	98	1651
Border, Rupert L., assignor of one-half to W. H. Tudor, Pittsburg, Pa. Electrical switch	695,440	Mar. 18	2065	465	98	2182
Bordewisch, Edward. (See Wovries, Otto C., assignor.)						
Bordier, Marcel, La Rochelle, France. Coin-controlled ticket-delivering device	701,672	June 3	711	157	99	2257
Bordo, Lambert J., Philadelphia, Pa. Plug-cock	710,744	Oct. 7	667	139	101	136
Bordo, Lambert J., and L. Schutte, Philadelphia, Pa. Plug-cock	713,052	Nov. 11	1102	234	101	1139
Borel, Charles, assignor to Société Française des Câbles Electriques, (Système Berthoud, Borel et Cie.) Lyons, France. Underground electric conductor	711,414	Oct. 14	1944	423	101	420
Borell, William I. (See Johnson and Borell.)						
Boren, Nicholas, Princeton, Ind. Churn	695,190	Mar. 11	1628	361	98	2073
Borgfeldt, Nicholas H., Brooklyn, N. Y. Cigar-wrapping table	712,114	Oct. 28	3329	729	101	738
Borgfeldt, Nicholas H., Brooklyn, N. Y. Suction-valve for cigar-wrapping tables	712,115	Oct. 28	3330	730	101	738
Borgström, Arthur H., Helsingfors, Russia. Means for ventilating milk and cream during the process of separation	699,782	May 13	1263	293	99	1447
Borgwardt, John C., and W. Consoer, assignors to A. Freschl, Chicago, Ill. Tufting-machine	714,441	Nov. 25	3843	851	101	1739
Borie, Louis J., San Francisco, Cal. Electromagnetic capping-machine	694,458	Mar. 4	232	51	98	1761
Borie, Louis J., San Francisco, Cal. Electromagnetic capping-machine	703,952	July 1	1057	230	100	210
Boring, Frank M., and L. P. Chitwood, assignors to L. Rauh, Dayton, Ohio. Voting-machine	692,976	Feb. 11	1404	303	98	1114
Borland, Bruce, Cambridge, Mass. Means for compressing or liquefying gases	698,362	Apr. 22	3685	813	99	829
Bormann, Henry, Bremen, Kans. Drag-rake	715,344	Dec. 9	1329	286	101	2127
Born, George W., Graysflat, W. Va. Water-cooler	705,376	July 2	2946	855	100	847
Borner, William H. (See Gattolatti, Paul S., assignor.)						
Borner, John, Rahway, N. J. Apparatus for impregnating wood	703,522	July 1	268	61	100	54
Borman, Thomas C., Summit, Miss. Nut-lock	702,770	June 17	2723	625	99	2707
Bormann, Carl, New Haven, Conn., assignor to E. & H. T. Anthony & Co., New York, N. Y. Photographic shutter	698,172	Apr. 22	3353	734	99	759
Bormann, Carl, New Haven, Conn., assignor to E. & H. T. Anthony & Co., New York, N. Y. Camera	698,173	Apr. 22	3355	734	99	759
Borough Construction Company. (See Meem, James C., assignor.)						
Borresen, Jacob, Christiania, Norway. Steering apparatus for torpedoes	716,517	Dec. 23	3649	797	101	2643
Borrow, Alfred. (See Hickman and Borrow.)						
Borrowe, Mary E. (See Borrowe and Lumley, assignors.)						
Borrowe, William, and J. Lumley, San Francisco; said Borrowe assignor to M. E. Borrowe, Sausalito, Cal. Machine for molding plastic materials	692,778	Feb. 4	985	223	98	998
Borsch, Henry. (See Zeiser, Charles A., assignor.)						
Borsch, Henry, Chicago, Ill. Nose-piece for eyeglasses	710,418	Oct. 7	38	8	101	10
Borsch, Henry, Chicago, Ill. Nose-guard for eyeglasses	710,419	Oct. 7	39	9	101	10
Borsodi, Morris. (See Newman and Borsodi.)						
Borsu, Anatole. (See Reck and Borsu.)						
Borsum, Louis. (See Holst, Lodewyk J. R., assignor.)						
Borton, Fred S., Cleveland, Ohio. Fare-receipt slip	715,900	Dec. 16	2527	558	101	2396
Borton, Stockton, Providence, R. I. Overseaming sewing-machine	710,942	Oct. 14	1023	226	101	225
Borton, Stockton, Providence, R. I. and O. B. Brush, Bridgeport, Conn., assignors to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Driving mechanism for sewing-machines	696,933	Apr. 8	1059	234	99	245
Bos, Floris H., Hoogland, Netherlands. Keyhole-guard	707,381	Aug. 19	2630	593	100	1691
Bosch, Frank, Crescent City, assignor of one-half to W. P. Butler, San Francisco, Cal. Vehicle	697,395	Apr. 8	1887	421	99	420
Bosch, Robert. (See Simms and Bosch.)						
Boschert, Rufus E., Syracuse, N. Y. Apparatus for treating garbage	700,727	May 27	3157	717	99	1876
Bosley, Lee W. (See Landis, Johnston, and Bosley.)						
Bosmann, Nicolas, assignor of one-half to E. S. Slocum, Chicago, Ill. Refrigerator	708,992	Sept. 16	1861	428	100	2392
Boss, John C., Elkhart, Ind. Air-box for brick-kilns	712,035	Oct. 28	3176	694	101	709
Boss, Martin P., San Francisco, Cal., assignor to Hydro-Carbon Smelting Co., New York, N. Y. Iron blast-furnace	708,116	Sept. 2	213	51	100	2025
Boss, William, St. Paul, Minn. Lawn-mower	701,255	May 27	4143	952	99	2079
Bossart-Bächli, Johann, Suhr, Switzerland. Needle-compasses	710,242	Sept. 30	4363	980	100	2341
Bossart-Bächli, Johann, Suhr-Aarau, Switzerland. Dotted-pen for drawing	715,007	Dec. 2	712	151	101	1979
Bossert Electric Construction Company. (See Bossert, William F., assignor.)						
Bossert Electric Construction Company. (See Smith and Bossert, assignors.)						
Bossert, Otto H., Denver, Colo. Drill-holding chuck-bolt for rock-drills	704,502	July 15	2133	461	100	462
Bossert, William F. (See Smith and Bossert.)						
Bossert, William F., assignor of one-third to H. P. Crouse, Utica, N. Y. Three-way railway-switch	690,922	Jan. 14	1047	236	98	235
Bossert, William F., assignor to Bossert Electric Construction Company, Utica, N. Y. Making conduit outlet-boxes	696,709	Apr. 1	599	135	99	130
Bossert, William F., assignor to Bossert Electric Construction Company, Utica, N. Y. Interior-conduit outlet-box	696,710	Apr. 1	601	135	99	130
Bossert, William F., assignor to Bossert Electric Construction Company, Utica, N. Y. Interior-conduit outlet-box	701,137	May 27	3938	906	99	2039
Bossert, William F., assignor to Bossert Electric Construction Company, Utica, N. Y. Interior-conduit outlet-box	705,026	July 22	3176	686	100	694
Bossert, William F., assignor to Bossert Electric Construction Company, Utica, N. Y. Junction-box	708,692	Sept. 9	1247	286	100	2245



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Bossett, Albert T., Kansas City, Mo. Explosive-engine.....	708,518	Sept. 9	944	213	100	2184
Bosshard, Theodore, Brooklyn, N. Y. Pea-shelling machine.....	700,476	May 20	2675	613	99	1757
Bostian, Charles P., Milton, assignor of one-half to C. K. Sober, Lewisburg, Pa. Magnetic feeler for looms.....	698,437	Apr. 29	3828	844	99	875
Bostian, Merrill H. (See Doll and Bostian.)						
Boston Chemical Fire Engine Manufacturing Company. (See Lombard and Banning, assignors.)						
Boston Electric Heating and Power Company. (See Hawkins and Flint, assignors.)						
Boston Gas Iron Mfg. Co. (See Burns, William G., assignor.)						
Boston & Lockport Block Company. (See Ferrall, Thomas R., assignor.)						
Boston Pump Company. (See Baldwin, Edward S., assignor.)						
Boston Radiator Company. (See Hawkins, Gardner C., assignor.)						
Boston Roller Chafe Iron Company. (See Smith, Alba P., Jr., assignor.)						
Bostrom, August O. (See Hichborn and Bostrom.)						
Bostrom, Ernst A., Atlanta, Ga. Ditching and terracing level.....	700,717	May 20	3180	711	99	1854
Bostwick, Clark I., Detroit City, Minn. Lining for grain wagons or tanks.....	711,197	Oct. 14	1559	355	101	339
Bostwick, Henry A., Spokane, Wash., assignor of one-half to George Lawrence Company, Portland, Oreg. Hopple or pattern-halter.....	705,556	July 29	4350	941	100	941
Bostwick, John R., Clifton Springs, assignor to Laurence, Bostwick Manufacturing Co., Phelps, N. Y. Metallic hoop for vessels.....	711,694	Oct. 21	2498	548	101	551
Bostwick, Robert G. (See Woodbridge, William H., assignor.)						
Bostwick, Walter W. (See Nichols, Frank L., assignor.)						
Boswell, Henry L., Cleveland, Ohio, assignor of one-eighth to F. Woltz, Chicago, Ill. Soap article.....	701,463	June 3	325	72	99	2176
Bosworth, Charles B., Somerville, assignor to Star Brass Manufacturing Company, Boston, Mass. Card for steam-engine indicators.....	691,588	Jan. 21	2302	518	98	514
Bosworth, Daniel P., assignor of one-half to F. J. Stuck and W. Freise, Jr., Marietta, Ohio. Side bearing for railway-cars.....	696,388	Mar. 25	3932	871	98	2577
Bosworth, Harvey. (See Clark and Bosworth.)						
Bosworth, William, et al. (See Billings, John W., assignor.)						
Bosworth, William B., Frankfort, Ky. Foot-shield.....	715,543	Dec. 9	1712	378	101	2202
Bosworth, William G. (See Clark and Bosworth.)						
Botermans, Abraham, Utrecht, Netherlands. Music-leaf turner.....	698,252	Apr. 22	3501	771	99	791
Bothwell, William. (See Fleming, John M., assignor.)						
Botsford, W. F. (See Lotspeich, Rhoten F., assignor.)						
Bott, William W., assignor of one-half to W. S. Preble, Narka, Kans. Three-row disk cultivator.....	714,442	Nov. 25	3846	851	101	1740
Böttger, Eduard, Bergisch-Gladbach, Germany. Brick for building arches.....	698,826	Feb. 23	3055	673	98	1492
Bottlers' Specialty Manufacturing Company. (See Strasburger, Frank C. H., assignor.)						
Bottlewalla, Hormusji E., Bombay, India. Oil-lamp.....	706,717	Aug. 12	1375	306	100	1413
Bottomley, Samuel, Providence, R. I. Reversible bandage-case.....	692,508	Feb. 4	496	116	98	900
Botts, R. Linneus, St. Paul, Minn. Drafting-plotter.....	709,736	Sept. 23	3337	752	100	2714
Boltum, Elias H. (See Walker, James H., assignor.)						
Bolz, Lew, Berlin, Wis. Scale.....	692,820	Feb. 11	1072	241	98	1043
Bolz, Priscilla, East Tawas, Mich. Washing-machine.....	696,853	Apr. 1	859	198	99	182
Boutay, Léon, assignor to S. Sacher, Paris, France. Bottle-stopper.....	716,620	Dec. 23	3862	843	101	2690
Bouchaud-Praceix, Edouard, Angoulême, France. Carburetor.....	709,866	Sept. 30	3610	816	100	2784
Boucher, Claude, Cognac, France. Machine for making bottles, &c.....	711,818	Oct. 21	2742	606	101	601
Boucher, Samuel A., Barton, Md. Corpse-cooler.....	710,745	Oct. 7	669	140	101	136
Bouchet, Stephane, Tassin-la-Demi-Lune, France. Liquid-meter.....	698,625	Apr. 29	4194	926	99	948
Bouch, Charles A., Los Angeles, Cal. Salesman's lift.....	713,943	Nov. 18	2661	594	101	1477
Boudet, Arthur D., assignor to J. L. Vimont, Paris, France. Shirt-band stiffener.....	700,013	May 13	1705	392	99	1539
Boudreaux, Alphonse Z., and O. F. Eschet, Donner, La. Dredger.....	712,356	Oct. 28	3751	820	101	824
Bouëry, Pierre, Weaverville, Cal. Machine for moving boilers, &c.....	698,255	Apr. 22	3502	771	99	791
Bouëry, Pierre, Weaverville, Cal. Safety attachment for hydraulic nozzles.....	708,693	Sept. 9	1249	286	100	2345
Boug, Aubrey R. (See Ellis and Boug.)						
Boughan, Andrew B., Chicago, Ill. Electrical railway traction apparatus.....	698,099	Apr. 22	3199	700	99	729
Bouilly, August, Chicago, Ill. Head-covering.....	707,956	Aug. 26	3799	833	100	1945
Boulanger, Emile, St. Louis, Mo. House-tennis racket.....	702,697	June 17	2580	594	99	2677
Boumal, Désiré L., New York, N. Y. Horseshoe.....	697,791	Apr. 15	2622	581	99	587
Bourgeat, Auguste, Voiron, France. Saw-protecting hood.....	698,363	Apr. 22	3687	813	99	829
Bourgoin, Gustave E. (See Lavollay and Bourgoin.)						
Bourhanovsky, Matieu, Libau, and A. de Kowanko, St. Petersburg, assignors of one-third to A. Potocki, Warsaw, Russia. Apparatus for raising sunken ships.....	691,713	Jan. 21	2532	567	98	562
Bourke, Edward J., assignor of one-half to T. Cotter and J. McDonnell, Kansas City, Mo. Moving model for advertising purposes.....	692,604	Feb. 4	688	160	98	939
Bourn, Augustus O., Bristol, R. I. Vulcanizing rubber.....	697,792	Apr. 15	2623	582	99	587
Bourne, Dore, Hamilton, Ohio. Coin-controlled vending apparatus.....	702,918	June 21	2994	689	99	2781
Bourne, Frank, Mount Vernon, N. Y., assignor to McElroy-Grunow Electric Railway System, Bridgeport, Conn. Controlling electrical switches operated by electromagnets.....	706,011	Aug. 5	14	4	100	1119
Bourne, Frank, Mount Vernon, N. Y., assignor to McElroy-Grunow Electric Railway System, Bridgeport, Conn. Electromagnetic switch.....	706,012	Aug. 5	15	4	100	1119
Bourne, Louis M., et al. (See Buchanan, William A., assignor.)						
Bournonville, Eugene, Jersey City, N. J. Acetylene-gas apparatus.....	712,116	Oct. 28	3331	730	101	738
Bournonville, Eugene, Jersey City, N. J. Acetylene-gas apparatus.....	712,117	Oct. 28	3338	731	101	739
Bousfield, Robert E., Bay City, Mich. Exhaust-muffler.....	706,636	Aug. 12	1226	272	100	1380
Boutell, William H., Rochester, N. Y. Paring and coring machine.....	693,778	Feb. 18	2951	650	98	1452
Bouton, George D., et al. (See Amwake, Harry S., assignor.)						
Bouton, George D., et al. (See Amwake, Harry S., assignor.) (Reissue.)						
Bouton, Georges. (See Dion and Bouton.)						
Bouton, N. S. (See Damey and Cork, assignors.)						
Bouvier, Emmanuel J. (See Grandjean and Bouvier.)						
Bouvier, Henri J., Grenoble, France. Governor.....	715,961	Dec. 16	2328	558	101	2396
Bovee, David W., Waterloo, Iowa. Washing-machine.....	691,293	Jan. 14	1606	367	98	350
Bovill, John, Chicago, Ill. Fountain-pen.....	705,316	July 22	3805	825	100	819
Bowden, Frederick E., et al. (See Greening, Frederick, assignor.)						
Bowditch, John F., Boston, Mass. Brush.....	702,530	June 17	2293	515	99	2612
Bowe, James C. (See Allison, Asa H., assignor.)						
Bowen, David A., assignor to D. N. Coieman and E. G. Kerr, Johnstown, Pa. Post-hole digger.....	701,992	June 10	1277	298	99	2388

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Bowen, David R., and C. T. Ericsson, assignors to Farrel Foundry and Machine Company, Ansonia, Conn. Apparatus for stretching and vulcanizing a plurality of rubber belts.	694,087	Feb. 25	3576	790 791	98	1596
Bowen, Ernest S., assignor of one-half to W. L. Fay, Auburn, N. Y. Sparking mechanism for gas-engines.	711,652	Oct. 21	2407	530 367	101	530
Bowen, Faxon, Peterboro, N. H. Machine for cutting, punching, and shaping metal.	691,234	Jan. 14	1607	368	98	350
Bowen, George W., Louisville, Ohio. Ventilating-damper for stovepipes.	705,199	July 22	3532	766	100	766
Bowen, Howard, Upper Sandusky, Ohio. Fence.	699,283	May 6	287	66	99	1233
Bowen, James H., Philadelphia, Pa. Cigar-cutter.	710,663	Oct. 7	514	107	101	104
Bowen, Philip A., Milwaukee, Wis. Bookbinder's press-punch.	702,698	June 17	2580	594	99	2677
Bowen, Walter R., San Francisco, Cal. Soap cake.	702,531	June 17	2365	515	99	2612
Bower, Sigmund, assignor to G. Gray, Brooklyn, N. Y. Time-recorder.	690,394	Jan. 7	17	4	98	7
Bowerman, Harry H., Loreley, Md. Corn-harvester.	712,036	Oct. 28	3177	694 695	101	709
Bowers, Bose B., Macon, Ga. Spoke-fastener.	712,037	Oct. 28	3179	695	101	709
Bowers, Clyde C., Clinton, Iowa. Projectile.	700,166	May 20	2050	468	99	1629
Bowers, Edmund J., Philadelphia, Pa. Multiple gage for lathe work.	696,309	Mar. 25	3743	836	98	2541
Bowers, James, Caldwell, N. J. Corset.	715,544	Dec. 9	1713	378	101	2202
Bowers, John S. (See Cochran, William R., Jr., assignor.)						
Bowers, William F., San Francisco, Cal. Retainer for hose-couplings.	708,117	Sept. 2	215	51	100	2026
Bowes, James H., Eiland, England. Toy.	691,105	Jan. 14	1379	314	98	302
Bowes, John J., Jr., Pensacola, Fla. Hose-coupling.	699,326	May 6	446	102	99	1266
Bowey, James, and G. Rockliffe, Sunderland, England. Spool-holder for sewing-machines.	700,167	May 20	2051	468	99	1629
Bowker, Rensselaer, Kokomo, Ind. Excavating apparatus.	715,062	Dec. 16	2531	559	101	2396
Bowker, William, Sr., Waltham, Mass. Motor-vehicle.	693,102	Feb. 11	1633	357	98	1161
Bowker, William, Sr., Waltham, Mass. Running and steering gear for motor-vehicles.	693,994	Feb. 25	3407	799	98	1561
Bowker, William, E. M. Long, and C. W. Howland, assignors to Standard Optical Company, Geneva, N. Y. Machine for drilling lenses.	695,002	Mar. 25	2919	661 662	93	2371
Bowker, William H. (See Smith, Frederic J., assignor.)						
Bowles, John L., Chicago, Ill., assignor to Perfect Letter Opener Company, Los Angeles, Cal. Thread-gummer for envelop-machines.	711,415	Oct. 14	1946	423 424	101	420
Bowles, Robert C. M., Boston, Mass. Stethoscope.	693,487	Feb. 18	2409	526	98	1341
Bowles, Robert C. M., Boston, Mass. Binaural stethoscope.	700,728	May 27	3159	719	99	1877
Bowling Ball Company. (See Lahr, Henry B., assignor.)						
Bowling, Jasper H., Ozone, Tenn. Vehicle-axle.	694,940	Mar. 11	1160	254	98	1976
Bowling, Joseph R. (See Ingoldby and Bowling.)						
Bowlius, Henry C., Springfield, Ohio. Automatic weighing-machine.	712,557	Nov. 4	532	124	101	1007
Bowmaker, John, Okeene, Okla. Ter. Stock-feeder.	714,557	Nov. 25	4053	897	101	1782
Bowman, Aaron P., assignor of one-half to E. A. Hill, Pontiac, Mich. Drop-body vehicle.	714,135	Nov. 25	3244	716	101	1619
Bowman, Allan K., Pittsburg, Pa. Tobacco-pipe.	699,480	May 6	672	156	99	1315
Bowman, Charles M., Lebanon, Pa., assignor to Diamond Match Company, New York, N. Y. Match.	707,080	Aug. 19	2069	-----	100	1573
Bowman, Daniel W., Toledo, Ohio, and J. N. Clouse, St. Louis, Mo.; said Clouse assignor to said Bowman. Hydrocarbon gas for vapor burner and stove.	692,110	Jan. 28	3288	744	98	732
Bowman, Eric G., Monmouth, Ill. Agricultural implement.	694,088	Feb. 25	3579	791	98	1596
Bowman, John, Westington, S. D. Railway-gate.	706,516	Aug. 12	1021	225	100	1337
Bowman, Jonathan, Petersburg, South Australia, Australia. Means for providing brakes to railway-vehicles.	695,274	Mar. 11	1782	395	98	2104
Bowman, Newton K., North Lawrence, Ohio. Mine-gate.	695,588	Mar. 18	2838	643 644	98	2338
Bowman, Oliver S., Chicago, Ill. Sheet-aligner for printing-presses.	705,198	July 22	3531	765	100	766
Bowser, Wesley S., St. Louis, Mo. Means for operating awnings.	703,693	July 1	596	132	100	118
Bowsher, Elijah, Lima, Ohio. Farm-gate.	717,339	Dec. 30	5309	1155	101	3023
Bowyer, Eva M., Chicago, Ill. Supporting device.	702,398	June 17	2010	458	99	2558
Boxley, Elmer E., and J. Holmes, Princeton, Mo. Buggy-top support.	694,243	Feb. 25	3857	855	98	1652
Boyce, Edward C., New York, N. Y. Amusement apparatus.	713,737	Nov. 18	2469	550	101	1438
Boyce, Floyd N., Battlereck, Mich. Window-frame.	692,003	Jan. 28	3090	695	98	692
Boyce, Hiram H., Chicago, Ill. Pulley.	693,945	Feb. 25	3291	724	98	1538
Boyce, Hiram H., Chicago, Ill. Turbine engine.	693,946	Feb. 25	3292	724 725	98	1538
Boyce, Markland H., assignor of one-half to R. McClintock, Baltimore, Md. Shade-hanger.	707,900	Aug. 26	3713	892	100	1927
Boyce, Thomas J., Chicago, Ill. Rotary scraper for finishing artificial dentures.	706,013	Aug. 5	17	4	100	1120
Boyd, Adam S., and G. Yearnell, Shenandoah, Pa. Pipe cutter and wrench.	702,019	June 24	2995	689	99	2781
Boyd, Bertron K., Bancroft, Mich. Knockdown crate.	701,884	June 10	981	219	99	2330
Boyd, Charles W., Riceville, Tenn., assignor to Fisher Typewriter Company, New York, N. Y. Type-writing-machine support.	710,561	Oct. 7	319	70	101	65
Boyd, David, Louisville, Ky. Flue-cleaner.	698,174	Apr. 22	3857	735	99	760
Boyd, George H., Worcester, Mass. Wrench.	703,230	June 24	3609	828	99	2902
Boyd, George W., Washington, D. C. Drip attachment for dispensing apparatus.	699,481	May 6	673	157	99	1316
Boyd, George W., Washington, D. C. Drip attachment for dispensing apparatus.	702,181	June 10	1631	364	99	2461
Boyd, Henry E., McKeesport, Pa., assignor to National Tube Company, New York, N. Y. Rotary pipe-cutting machine.	694,523	Mar. 4	359	79	98	1789
Boyd, Henry E., McKeesport, Pa., assignor to National Tube Company, New York, N. Y. Rotary pipe-cutting machine.	694,524	Mar. 4	364	80	98	1790
Boyd, John, Bothwell, Scotland. Knee-brake for stopping spinning-spindles.	701,138	May 27	3940	906	99	2039
Boyd, John W., Nashville, Tenn. Logging-railway.	715,963	Dec. 16	2535	560	101	2297
Boyd, Joseph H. (See Reissner, Frederic, assignor.)						
Boyd, Joseph L., and J. Gillis, assignors of one-third to W. M. Land, Williamson County, Tex. Corn or cotton planter.	693,683	Feb. 18	2788	614	98	1419
Boyd, Peter, assignor to National Tube Company, Pittsburg, Pa. Apparatus for welding and tapering sockets.	706,517	Aug. 12	1022	225 226	100	1337
Boyd, Peter, assignor to National Tube Company, Pittsburg, Pa. Apparatus for welding and tapering sockets.	706,518	Aug. 12	1025	226	100	1338
Boyd, Peter, assignor to National Tube Company, Pittsburg, Pa. Welding and tapering sockets.	706,519	Aug. 12	1027	226 227	100	1338
Boyd, Peter, assignor to National Tube Company, Pittsburg, Pa. Apparatus for welding and tapering sockets.	706,520	Aug. 12	1030	227	100	1338
Boyd, Sanford S., Laurens, S. C. Speaking-tube for trains.	694,825	Mar. 4	933	208	98	1911
Boyd, Thomas, Pittsburg, Pa. Means for reflecting and distributing sound and ventilating auditoriums.	693,488	Feb. 18	2410	524 527	98	1342



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Boydston, Benjamin F., Edgerton, Mo. Starting mechanism for harvester cutting apparatus	695,370	Mar 11	1955	436	98	2140
Boyen, Edgar von, Hamburg, Germany. Manufacturing mineral wax from bituminous brown coal	690,693	Jan. 7	623	136	98	132
Boyens, William H. (See Renner and Boyens.)						
Boyer, Edward C., and F. Radford, Dayton, Ohio. Car-pusher	697,194	Apr 8	1526	341	99	343
Boyer, Fernand, Paris, France. Apparatus for the manufacture of knot-stitch carpets	698,899	Apr. 29	4787	1054 (1055)	99	1063
Boyer, Joseph, St. Louis, Mo., assignor to Chicago Pneumatic Tool Company. Pneumatic hammer	697,793	Apr 15	2624	582	99	587
Boyer, Oliver, assignor of one-half to W. H. Orr, Lima, Ohio. Separating mechanism for corn-husking machines	710,137	Sept 30	4164	938 (939)	100	2599
Boyer, Samuel, Colfax, Wash. Trace buckle	693,827	Feb 25	3056	674	98	1493
Boyer, William R., et al. (See Geddes, Charles A., assignor.)						
Boyes, Ebenezer, Peckham, England. Means for maintaining in heated condition decoctions of coffee, tea, or other liquids	695,141	Mar 11	1551	344	98	2057
Boyes, Ebenezer, Peckham, England. Means for roasting coffee	697,129	Apr 8	1403	312 (313)	99	319
Boyett, John T., Lewisburg, Tenn. Cotton-chopper	706,889	Aug 12	1720	384 (385)	100	1486
Boykin Cabinet Company. (See Boykin, Christopher C., assignor.)						
Boykin, Christopher C., Norfolk, Va., assignor to Boykin Cabinet Company, Baltimore, Md. Temporary binder	712,247	Oct 28	3560	779	101	784
Boykin, Robert S., Moselle, Miss. Nut-lock	697,316	Apr 8	1737	888	99	390
Boylan, Michael A., assignor of one-third to D. A. Doyle, Akron, Ohio. Device for constructing and curing continuous rubber tires	713,844	Nov. 18	2624	594	101	1478
Boyle, Frank J., Columbus, Tex. Adjustable frame-fastener	699,483	May 6	676	157	99	1316
Boyle, John J., Columbus, Ind. Fence-post	693,582	Feb. 18	2598	575	98	1379
Boyles, Thomas D., Schenectady, N. Y., assignor to General Electric Company. Synchronizing apparatus for alternators	717,331	Dec. 30	5310	1155	101	3024
Boyne, Thomas A., Lee, Mass. Paper-making machine	712,038	Oct. 28	3180	695 (696)	101	709
Boynton, Albert. (See Steinmetz, Conrad P., assignor.)						
Boyter, Robert L. (See Walls and Boyter.)						
Braam, Jacques P. de, Paris, France. Recorder for signals and engine-drivers	708,993	Sept. 16	1864	428	100	2393
Braam, Jacques P. de, Paris, France. Apparatus for stopping trains	716,621	Dec. 23	3863	843 (844)	101	2691
Braatz, Alexander, Oranienburg, near Berlin, Germany. Property quadrupled for stage purposes	695,903	Mar. 25	2924	662	98	2372
Brabrook, George, assignor to Reed and Barton Corporation, Taunton, Mass. Insulating-handle connection	702,087	June 10	1462	329	99	2426
Brabrook, George, assignor to Reed & Barton Corporation, Taunton, Mass. Plated table utensil	712,491	Nov. 4	51	13	101	908
Brabrook, George H., Taunton, Mass. Producing soft-metal castings	697,972	Apr. 22	2951	650	99	677
Brabson Lamp and Manufacturing Company. (See Brabson, Tom, assignor.)						
Brabson, Tom, Brooklyn, N. Y., assignor to Brabson Lamp and Manufacturing Company, Incandescent gas-lamp	714,448	Nov 25	3850	851 (852)	101	1740
Brabson, Tom, assignor to Brabson Lamp and Manufacturing Company, Brooklyn, N. Y. Gas-lamp	714,444	Nov. 25	3852	852	101	1741
Braby, Henry, Ayr, Queensland, Australia. Fire-lighter	710,315	Sept. 30	4483	1012	100	2967
Bracey, Frank, Jefferson City, Mo. Combined mop and wringer	708,857	Sept. 9	1592	365	100	2320
Bracey, Smith H., Chicago, Ill. Spike	692,763	Feb. 4	962	217	98	994
Brachhausen, Gustav A., assignor to Regina Music Box Company, Rahway, N. J. Automatic musical instrument	713,053	Nov. 11	1104	255 (256)	101	1139
Brachhausen, Gustav A., Rahway, N. J., assignor to Regina Music Box Company. Gas-regulator	714,136	Nov. 25	3246	716	101	1620
Brachhausen, Gustav A., assignor to Regina Music Box Company, Rahway, N. J. Note-sheet-lifting mechanism for music-boxes	714,857	Dec. 2	430	93	101	1921
Brachvogel, R. Adam, et al. (See Eberstein, John G., assignor.)						
Brachvogel, Robert A., Chicago, Ill. Burglar-alarm	710,746	Oct. 7	669	140	101	136
Brack, Johann J., assignor to Basle Chemical Works, Basle, Switzerland. Making phthalic dyes	695,441	Mar 18	2067		98	2182
Brack, William, Villeret, Switzerland. Watch-dial	701,993	June 10	1278	293	99	2388
Bracken, Howard W., assignor to Draper Company, Hopedale, Mass. Spindle-driving mechanism	711,033	Oct. 14	1335	290	101	290
Brackett, Frederick, Baltimore, Md. Apparatus for mixing and kneading dough	706,890	Aug. 12	1722	385	99	1486
Brackney, Orville J., assignor to himself, T. F. Ryan, and D. A. Slatler, Butler, Pa. Pump	701,130	May 27	3641	906	99	3399
Bracnietter, Francis J., St. Germain, France. Non-refillable bottle	702,532	June 17	2266	516	99	2612
Bracy, Edward L., Brooklyn, N. Y. Mechanism for packing granular material	691,930	Jan. 28	2954	665	98	666
Bradbury, Charles J., Boston, assignor of one-half to J. H. Horne & Sons Company, Lawrence, Mass. Paper-making machine	715,749	Dec. 16	2090	469	101	2302
Bradbury, Samuel W., Cape Town, Cape Colony. Wire-tightener	708,196	Sept. 2	381	88	100	2059
Bradbury, Walter S., Willimantic, Conn. Bicycle-stand	706,718	Aug. 12	1376	307	100	1413
Braden, Charles A., Butler, Pa., assignor to Braden Gas Engine Company. Steam explosive-engine	715,008	Dec. 2	713	151	101	1980
Braden Gas Engine Company. (See Braden, Charles A., assignor.)						
Braden, John B., Salem, W. Va., assignor of one-half to F. G. Irvine, Marietta, Ohio. Rope or cable clamp	713,738	Nov. 18	2471	550	101	1128
Braden, William A., and J. B. Smalley, assignors to Elevator Supply & Repair Company, Chicago, Ill. Door-operating mechanism	700,401	May 20	2533	580 (581)	99	1727
Bradlet, George H., assignor of one-half to G. Goblisch, St. Paul, Minn. Signal-lantern	707,545	Aug 26	2950	667	100	1775
Bradfield, Emma N. (See Bradfield, Mason, assignor.)						
Bradfield, Mason, Los Angeles, Cal. Conveyor	714,279	Nov. 25	3556	782 (783)	101	1683
Bradfield, Mason, assignor to E. N. Bradfield, Los Angeles, Cal. Conveyor	700,737	Sept. 23	3338	753	100	2714
Bradfield, Mason, assignor to E. N. Bradfield, Los Angeles, Cal. Conveyor apparatus	714,278	Nov. 25	3551	782	101	1683
Bradford, Chester. (See Hilleary and Bradford.)						
Bradford, Chester, Indianapolis, Ind. Boot or housing for pneumatic elevators	708,983	July 8	1131	245	100	240
Bradford, Chester, Indianapolis, Ind. Door for housing of pneumatic elevators	714,662	Dec 2	15	3	101	1840
Bradford, Chester, assignor to Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker	713,739	Nov 18	2472	550 (551)	101	1439
Bradford, Chester, and R. B. Hilleary, Indianapolis, Ind. Pneumatic elevator and weigher	714,358	Nov. 25	3700	815	101	1711
Bradford, Edward T., deceased; M. C. C. Bradford, administratrix, assignor to Standard Smelter Company, Denver, Colo. Hot-blast furnace	705,640	July 29	4405	976	100	970

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Bradford, Henry B., Jr. (See Shepherd and Bradford.)						
Bradford, John A., Victor, Colo. Lubricator for car-trucks.	708,306	Sept. 2	575	130	100	2098
Bradford, Leonard F., et al. (See Sprague, Lewis G., assignor.)						
Bradford, Mary C. C., administratrix. (See Bradford, Edward T.)						
Bradford, Oscar. (See Caldwell, William L., assignor.)						
Bradford, Oscar, Chicago, Ill., assignor to himself and W. L. Caldwell, New York, N. Y. Roll for cutting expanded metal.	711,416	Oct. 14	1948	424	101	420
Bradley, Abia K. and J. Clematis, Okla. Ter. Clothes-pin	692,233	Feb. 4	21	5	98	802
Bradley, Arthur. (See Haynes, Charles M., assignor.)						
Bradley, Charles S. (See Dyer, Frank L., assignor.)						
Bradley, Charles S., Avon, N. Y. Generating alternating currents.	715,546	Dec. 9	1715	379	101	2203
Bradley, Charles S., Avon, N. Y., assignor to General Electric Company. Generating alternating currents.	715,545	Dec. 9	1714	370	101	2203
Bradley, Charles S., and D. R. Lovejoy, New York, assignors, by mesne assignments, to Atmospheric Products Company, Niagara Falls, N. Y. Manufacturing nitrogen compounds from atmospheric nitrogen.	709,867	Sept. 30	3611	816 817	100	2784
Bradley, Charles S., New York, and D. R. Lovejoy, assignors, by mesne assignments, to Atmospheric Products Company, Niagara Falls, N. Y. Apparatus for subjecting gases to high-tension discharges.	709,868	Sept. 30	3614	817	100	2784
Bradley, Charles S., Avon, N. Y., R. H. Read and C. B. Jacobs, assignors to Ampere Electro-Chemical Company, Ampere, East Orange, N. J. Carbophosphid of calcium.	716,182	Dec. 16	2988		101	2493
Bradley, Charles W., Lyons, N. Y. Sugar-beet pulper and topper	696,934	Apr. 8	1061	235	99	245
Bradley, Christopher C., Syracuse, N. Y. Thill-coupling.	694,050	Feb. 25	3322	775	98	1584
Bradley, Christopher C., Syracuse, N. Y. Thill-coupling.	697,130	Apr. 8	1406	314	99	319
Bradley, Christopher C., Syracuse, N. Y. Thill-coupling.	697,603	Apr. 15	2272	507	99	514
Bradley, Christopher C., Syracuse, N. Y. Thill-coupling. (Reissue)	12,034	Sept. 23	3581	807	100	2765
Bradley, Christopher C., Syracuse, N. Y. Thill-coupling. (Reissue)	12,035	Sept. 23	3582	807	100	2765
Bradley, Emory O. and M. L., Tacoma, Wash. Car-standard	705,200	July 22	3593	766	100	766
Bradley, Frank B., assignor to Ajax Forge Company, Chicago, Ill. Heel-riser for railway frogs	715,750	Dec. 16	2092	469	101	2302
Bradley, Franklin F. (See Osgood and Bradley.)						
Bradley, Henry, Richmond, N. Y. Sectional steam-boiler	710,420	Oct. 7	40	9, 10	101	10
Bradley & Hubbard Mfg. Co. (See Penfield, William A., assignor.)						
Bradley, James N., Washington, D. C. Metal can	706,296	Aug. 5	593	129	100	1235
Bradley, John. (See Bradley, Abia K. and J.)						
Bradley, John, Birmingham, England. Machinery for manufacturing tube-bends	697,604	Apr. 15	2273	507 508	99	514
Bradley, John C. and T. H. Gilbert, assignors to Pratt & Letchworth Company, Buffalo, N. Y. Molding-machine	715,964	Dec. 16	2536	560	101	2397
Bradley, Melvin L. (See Bradley, Emory O. and M. L.)						
Bradley Patent Horse Shoe Company. (See Holt, Charles, assignor.)						
Bradley, Richard, Branford, Conn. Ice-carrier	707,818	Aug. 26	3544	799	100	1805
Bradley, Timothy C. (See Tuttle and Cookson, assignors.)						
Bradley, William, et al. (See Poore, Margaretta E., assignor.)						
Bradley, William, Sheffield, England. Construction of high-pressure water-taps	713,740	Nov. 18	2474	551	101	1439
Bradley, William O. R., et al. (See Strong, Robert H., assignor.)						
Bradley, William S. (See Dempster and Bradley.)						
Bradley, William S., Philadelphia, Pa. Guard-rail for street-cars	704,432	July 8	1979	431	100	416
Bradley, Winant V. P., Toledo, Ohio. Sound-box	713,592	Nov. 18	2196	489	101	1379
Bradshaw, Charles E., Cleveland, Ohio. Combination hair drier and comb	701,073	June 3	713	157	99	2257
Bradshaw, Charles E., Cleveland, Ohio. Window appliance	709,532	Sept. 23	2998	668	100	2645
Bradshaw, Charles T., Philadelphia, Pa. Quoit	708,519	Sept. 9	946	214	100	2184
Bradshaw, Charles T., Philadelphia, Pa. Apparatus for distributing odors	712,177	Oct. 28	3445	755	101	760
Bradshaw, Charles W., Argentine, Kans. Excavating mechanism	694,244	Feb. 25	3858	855	98	1652
Bradshaw, Hugh, Chicago, Ill. Tank	711,465	Oct. 21	2058	445	101	456
Bradshaw, Joseph L., Elbridge, Tenn. Corn-planter	695,442	Mar. 18	2068	466 467	98	2182
Bradt, Charles E., et al. (See Reynolds, Samuel D., assignor.)						
Bradt, Samuel E., et al. (See Reynolds, Samuel D., assignor.)						
Brady, Francis W., Englewood, N. J., assignor to Electric Boat Company, New York, N. Y. Torpedo-boat	713,198	Nov. 11	1390	813	101	1199
Brady, James, Brooklyn, N. Y., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Engraving-machine	711,094	Oct. 14	1337	291	101	291
Brady, James, Brooklyn, N. Y., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Engraving-machine	711,095	Oct. 14	1340	291	101	292
Brady, James B., et al. (See Rudolph, Charles, assignor.)						
Brady, James C., Pittsburg, Pa. Carpet-cleaning machine	706,892	Aug. 12	1731	386 387	100	1488
Brady, John M. (See Humphrey, John D., assignor.)						
Brady, Joseph H., Kansas City, Mo. Pneumatic signaling apparatus	703,637	July 1	470	107	100	93
Brady, Michael, South Bethlehem, Pa. Bottle	712,465	Nov. 4	348	81	101	97
Brady, Thomas H., New Britain, Conn. Electric switch	698,995	Feb. 25	3408	750	98	1562
Brady, Thomas H., New Britain, Conn. Roller chafe-iron	695,631	Mar. 18	2499	550	98	2257
Brady, Thomas H., New Britain, Conn. Electrical apparatus	699,483	May 6	677	157	99	1316
Bradgon, Charles M., assignor to S. R. Prentiss, Bangor, Me. Cigar or cigarette holder	702,182	June 10	1632	365	99	2462
Bragg, Mary A. (See Wells, Charles M., assignor.)						
Bragstad, Ole S. (See Arnold, Bragstad, and La Cour.)						
Braid, William, and D. Ogilvie, Roland Park, Md. Golf-stick	718,845	Nov. 18	2666	594	101	1478
Brainard, Ira F., et al. (See Blake, John T., assignor.)						
Brainard, Omar L., Verdi, Nev. Hand-buffer	713,199	Nov. 11	1393	313	101	1199
Braine, Bancroft G., et al. (See Randolph, Leonard M., assignor.)						
Braine, Lawrence F., et al. (See Randolph, Leonard M., assignor.)						
Brake, Archibald, Toronto, Canada. Mold for casting brake-shoes	697,794	Apr. 15	2682	582 583	99	590
Brakeley, Joseph, Freshold, N. J. Machine for removing insect parasites from vines or plants	695,275	Mar. 11	1784	395 396	98	2105
Braley, Harriet, Newcomb, N. Y. Garment-support	712,248	Oct. 28	3563	779	101	764
Bramhall, Charles F., Kingman, Kans. Portable revolving theater	706,891	Aug. 12	1729	896	100	1487
Brampton, Walter, Dorridge, near Birmingham, England. Cycle-saddle.	695,142	Mar. 11	1553	344	98	2058
Bramson Max, Warsaw, Russia, assignor to H. F. Vogel, St. Louis, Mo. Petroleum in-						
Bramwell, Clarence C., Hydepark, Mass. Driving mechanism for motor-vehicles.	701,533	June 3	447	101	99	2200
Brands, Charles M., assignor to S. R. Prentiss, Bangor, Me. Cigar or cigarette holder	702,182	June 10	1632	365	99	2462
Bramwell, James C. (See Holritz, Edward A., assignor.)						
Branch, Benjamin O., assignor to D. W. Branch, Memphis, Tenn. Bag-holder	714,137	Nov. 25	3247	717	101	1620



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Branch, Dennis W. (See Branch, Benjamin O., assignor.)						
Branch, Joseph G., St. Louis, Mo. Means for producing pressure on the hydrocarbon in portable reservoirs	694,305	Feb. 25	3974	885	98	1677
Branch, Joseph G., St. Louis, Mo. Apparatus for distributing hydrocarbon under pressure to hydrocarbon-lamps	698,964	Apr. 22	3687	814	99	890
Branch, Joseph G., St. Louis, Mo. Hydrocarbon-lamp	698,391	June 24	3670	890	99	2902
Brand, Hermann M., Porto Alegre, Brazil. Life-saving suit	698,966	Feb. 25	3409	750	98	1562
Brand Stove Company. (See Garrison, Albert H., assignor.)						
Brand, William, Oshkosh, Wis. Display-tray	710,093	Sept. 30	4072	918	100	2879
Brandau, George F., Utica, N. Y. Brake mechanism	717,067	Dec. 30	4816	1044	101	2917
Brandell, Claus, Chicago, Ill. Compasses	709,738	Sept. 23	3340	753	100	3715
Brandenburg, Anthony A., and W. C. Knoblock, St. Louis, Mo. Cooking vessel	706,014	Aug. 5	19	5	100	1120
Brandle, Henry. (See Smith, John, assignor.)						
Brandner, Paul, Brooklyn, N. Y. Chimney or other curved fireproof structure	709,869	Sept. 30	3915	817	100	2785
Brandon, William, Kinsmore, Canada. Band-cutter and feeder for threshing-machines or grain-separators	699,908	May 13	1522	350	99	1503
Brandstedt, Paul, Washington, D. C. Metal studding or partition	694,721	Mar. 4	734	162	98	1867
Brandstedt, Paul F., Washington, D. C. Fireproof construction	694,720	Mar. 4	732	162	98	1866
Brandstedt, Paul F., Washington, D. C. Fireproof construction for buildings	710,836	Oct. 7	842	183	101	171
Brands, Andrew G., Scranton, and D. L. Griffiths, Olyphant, Pa.; said Brandt assignor to said Griffiths. Washing-machine	709,813	Sept. 23	3514	792	100	2750
Brandt, Charles, New York, N. Y. Packet-closing device	710,674	June 3	715	158	99	3258
Brandt, Edward J., Watertown, Wis. Coin-delivery machine	703,174	June 21	3501	804	99	2879
Brandt, Edward J., Watertown, Wis. Coin-delivery machine	703,175	June 21	3504	805	99	2880
Brandt, Ernst P., Baltimore, Md. Means for ornamenting plastic surfaces	713,965	Dec. 16	3540	861	101	3294
Brandt, Frederic R., Dayton, Ohio. Steam-condensing apparatus	707,081	Aug. 19	3470	482	100	1573
Brandt, John, Chicago, Ill. Headpiece for stringed musical instruments	713,300	Nov. 11	1905	496	101	1284
Brandt, Winfield S., and F. J. Root, Binghamton, N. Y. Making wood-alcohol	713,552	Nov. 11	2116	474	101	1347
Brangier, Pierre A. (See Magnier and Brangier.)						
Brankowitch, Vladimir, assignor to A. Matifat and Co., Paris, France. Brake for cycles	708,197	Sept. 2	382	89	100	2960
Brankston, Ralph T., assignor to W. G. Armstrong, Whitworth & Company, Limited, Newcastle-upon-Tyne, England. Gun-mounting	695,087	Mar. 11	1438	317	98	2933
Brankston, Ralph T., assignor to W. G. Armstrong, Whitworth & Company, Limited, Newcastle-upon-Tyne, England. Apparatus for loading ordnance	704,955	July 15	3629	650	100	649
Branna, Otto O., Erskine, Minn. Force-pump	699,484	May 6	678	158	99	1317
Brannan, Emora T., Baltimore, Md. Carving-machine	692,977	Feb. 11	1440	306	98	1115
Brannock, James L., Felicity, assignor to Crane and Breed Manufacturing Company, Cincinnati, Ohio. Coffin-rest	714,663	Dec. 2	17	4	101	1840
Brannon, Walter Z., Brazos, Tex. Fire-stretcher	693,237	Feb. 11	1921	417	98	1218
Brant, John T., et al. (See McCulloch, Simon L., assignor.)						
Brantingham, Allen C., Toledo, Ohio, assignor to Nordyke & Marmon Company, Indianapolis, Ind. Self-cleaning sieve	705,027	July 22	3178	687	100	694
Brantingham, Guy S., New York, N. Y. End piece for wheel-spokes	692,821	Feb. 11	1073	241	98	1043
Brashears, William J., Wilmington, Del. Leaf-turner	690,335	Jan. 7	18	4	98	7
Brasington, William W., Marietta, Ohio. Paint	713,846	Nov. 18	2966	655	101	1478
Brasington, Abraham, Mount Carmel, Pa. Claw-bar	693,779	Feb. 18	3555	651	98	1453
Brasling, John, Philadelphia, Pa. Vehicle-spring	711,381	Oct. 14	1803	412	101	410
Bratton, Marcus L., Luray, Kans. Artificial-tuel compressor	692,605	Feb. 4	688	160	98	940
Bratton, Robert J., Ridgefarm, Ill. Lamp-burner	713,200	Nov. 11	1394	314	101	1300
Brauch, John V., and B. Hemann, Belleville, Ill. Coating for nails	696,796	Apr. 1	760	169	99	162
Brauch, John V., and B. Hemann, Belleville, Ill. Coating for metals	712,758	Nov. 4	536	121	101	1008
Braucht, Katie D., guardian. (See Braucht, Roy L.)						
Braucht, Roy L., major, Minneapolis, Minn.; K. D. Braucht, guardian, assignor to W. S. Nott Company. Clamp for leather-stretching machines	691,106	Jan. 14	1379	314	98	392
Brauer, Adolph, Seattle, Wash. Sash-fastener	704,493	July 8	1980	431	100	417
Braun, Albert, Allegheny, Pa. Pocket-protector	693,780	Feb. 18	2956	651	98	1453
Braun, Charles A., assignor to F. K. Gustin, Chicago, Ill. Toy bank	698,389	Apr. 22	3731	824	99	839
Braun & Company, F. W. (See Calkins, Albert C., assignor.)						
Braun & Company, F. W. (See Loneragan and Calkins, assignors.) (Reissue.)						
Braun, Frederick W. (See Calkins, Albert C., assignor.)						
Braun, Louis, assignor of one-half to J. Buellbach, New York, N. Y. Vault-light	699,783	May 13	1265	293	99	1447
Brauninger, John, Lorain, Ohio. Cup	710,138	Sept. 30	4169	939	100	2900
Brautigam, Joseph, and P. Hoelzlein, Brooklyn, N. Y. Engine	699,141	May 6	27	8	99	1182
Brawner, Harry O., Baltimore, Md. Bottle stopper and sprinkler	709,391	Sept. 16	2683	602	100	2566
Brawner, Harry O., Baltimore, Md. Sprinkling bottle-stopper	716,806	Dec. 23	4195	919	101	2758
Brawner, Pembroke A., Chattanooga, Tenn. Brake-shoe	697,795	Apr. 15	2633	583	99	590
Braxton, Elias L., Fayetteville, N. C. Fertilizer-distributor	708,118	Sept. 2	215	51	100	3026
Bray, Charles W., Pittsburg, Pa., assignor to American Tin Plate Corporation, Orange, N. J. Doubling and shearing apparatus	695,873	Mar. 18	2864	660	98	2345
Bray, Charles W., Pittsburg, Pa., assignor to American Tin Plate Company, Orange, N. J. Doubling apparatus	698,438	Apr. 29	3831	845	99	876
Bray, Charles W., Pittsburg, Pa., assignor to American Tin Plate Company, Orange, N. J. Manufacture of black plates or sheets	717,068	Dec. 30	4819	1044	101	2917
Bray, Charles W., Pittsburg, Pa., assignor to American Tin Plate Company, Orange, N. J. Apparatus for making black plates or sheets	717,069	Dec. 30	4820	1045	101	2918
Bray, Joseph. (See Harris and Bray.)						
Bray, Joseph B. (See Goodwin, Landon R., assignor.)						
Bray, Mellen. (See Davis, Wilbur G., assignor.)						
Bray, Mellen N. (See Lizotte, Joseph, assignor.)						
Bray, Thomas J., et al., assignor of one-half to United Engineering and Foundry Company, Pittsburg, Pa. Tube-welding apparatus	691,350	Jan. 21	1877	423	98	425
Braymes, Mark, Philadelphia, Pa. Hat and coat rack	697,438	Apr. 15	1963	499	99	457
Brayton, James T., Chicago, Ill. Sight for firearms	708,119	Sept. 2	217	52	100	2626
Brazier, Henry B., Philadelphia, Pa. Steering-column for automobiles	716,138	Dec. 16	2980	653	101	2493
Brazili, James M., Rochester, N. Y. Fire-escape	708,120	Sept. 2	219	52	100	2627
Breakey, James. (See Low and Breakey.)						
Breakey, James, Brooklyn, N. Y. Type-distributing apparatus	702,621	June 17	2440	557	99	2617
Breakey, John J., Pullman, Ill. Spring-seat	698,365	Apr. 22	3680	814	99	830
Brechner, Alan, London, England. Revolving group-flashing apparatus	695,371	Mar. 11	1957	436	98	2140
Brechner, Alan, London, England. Eclipsing-screen for revolving group-flashing light-house-lights, &c	710,243	Sept. 30	4264	980	100	2942
Brechner, Alan, London, England. Revolving group-flashing apparatus	710,244	Sept. 30	4368	982	100	2942
Brechbiel, Samuel, Altoona, Pa. Folding stool	692,822	Feb. 11	1073	242	98	1044
Brecht, Alfred, Leipzig-Anger, Germany. Grate for bedsteads	702,583	June 17	2267	516	99	2613

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Brecht, Gustavus A. von. (See Hiett, De Kernen J. T., assignor.)						
Breckenridge, Lester P., and E. C. Oliver, Urbana, Ill. Recording-machine.	713,945	Nov. 18	2876	638 639	101	1522
Breckenridge, Robert S., Butler, assignor of one-half to C. W. Dickinson, Pittsburg, Pa. Overalls.	699,485	May 6	679	158	99	1317
Brecker, Joseph C. (See Scott and Brecker.)						
Breda, Andrew J., Chicago, Ill., assignor to Standard Varnish Works, New York, N. Y. Mitten.	704,503	July 15	2135	462	100	462
Bredel, Frederick, Milwaukee, Wis. Retort gas-furnace.	704,504	July 15	2136	462	100	462
Bredlow, Albert J. (See Neil and Bredlow.)						
Bredow, John F., Davenport, Iowa, assignor to Iowa Mantle Manufacturing Company. Means for transporting incandescent mantles.	691,839	Jan. 28	2804	630	98	635
Bredow, John F., Davenport, Iowa, assignor to Iowa Mantle Manufacturing Company. Incandescent-mantle support.	694,347	Mar. 4	12	3	98	1715
Breed, William A. (See Gould, Augustus, assignor.)						
Breen, Cornelius M., assignor of one-half to W. F. Prendergast, New York, N. Y. Test trap or seal for sewer-pipes.	712,759	Nov. 4	536	124	101	1008
Breen, James F., Dayton, Ohio. Inhaler.	706,015	Aug. 5	20	5	100	1120
Breeze, Frank A., Forest Mills, assignor of one-half to J. Wilson, Richmond, Province of Ontario, Canada. Spinning-head.	706,893	Aug. 12	1733	387	100	1488
Breeze, Frank A., Forest Mills, assignor of one-half to J. Wilson, Richmond Township, Ontario, Canada. Spinning-head.	708,458	Sept. 2	824	187	100	2148
Breeze, Frank A., Forest Mills, assignor of one-half to J. Wilson, Richmond, Ontario, Canada. Spinning-frame.	711,756	Oct. 21	2619	576 577	101	577
Breeze, George A., assignor to Whitehead & Hoag Company, Newark, N. J. Coating-machine.	699,612	May 6	915	213	99	1364
Breeze, Herbert J., Fort Huron, Mich. Horse-collar.	690,632	Jan. 7	509	111	98	109
Breidenbach, William F. (See Ohmer, Tyler, and Breidenbach.)						
Breining, Clayton P., Cogan Station, Pa. Currycomb.	699,486	May 6	680	158	99	1317
Breitfeld, Arthur, Erfurt, Germany. Pen.	692,606	Feb. 4	690	160	98	940
Breitwieser, Herman G., Brooklyn, N. Y. Adjustable electric-lamp hanger.	700,533	Sept. 23	3000	668	100	2645
Brejcha, Josef, Strasburg-Neudorf, Germany. Machine for setting diamonds in metal.	700,132	May 13	1947	448	99	1585
Brejcha, Josef, Strasburg, and E. Schulte, Dusseldorf, Germany. Rock-boring machine.	709,890	July 1	949	207	100	191
Brekeke, Lewis O., Minneapolis, Minn. Folding footboard for iron bedsteads.	698,626	Apr. 20	4195	926	99	948
Bremer, Hermann, Munich, Germany. Means for extracting juice from raw meat, &c.	692,823	Feb. 11	1076	242	98	1044
Bremer, Hugo, Neheim, Germany. Electric-arc lamp.	697,439	Apr. 15	1985	439	99	457
Bremer, Hugo, Neheim, Germany. Electrode for arc-lamps.	710,943	Oct. 14	1027		101	225
Bremner, Joseph, Milton, New Zealand. Door-jamb, gate-post, or the like.	692,607	Feb. 4	691	161	98	940
Brenckle, Arthur C., and W. A. Anger, Milwaukee, Wis. Box-fastener.	693,489	Feb. 18	2412	537	98	1342
Brenckle, Arthur C., and W. A. Anger, Milwaukee, Wis. Box-fastener.	693,490	Feb. 18	2413	527	98	1343
Brennan, Claude L. (See Callahan, Frank T., assignor.)	697,195	Apr. 8	1528	341	99	844
Brennan & Company, South Western Agricultural Works. (See Christman, Edward, assignor.)						
Brennan, John, Cleveland, Ohio. Switch-lever.	713,593	Nov. 18	2107	489	101	1379
Brennan, Michael. (See McDonald and Brennan.)						
Brennen, Louis, Gillingham, England. System and apparatus for facilitating the ascent of stairs or inclined ways.	702,531	June 17	2267	516 517	99	2613
Brenner, Joachim von. (See Pfister, Josef, assignor.)						
Brentano, Simon, New York, N. Y. Toy picture-book.	716,858	Dec. 30	4405	955	101	2831
Brenzing, Julius, assignor to M. Ams, New York, N. Y. Can-flanging machine.	697,973	Apr. 22	2952	651	99	677
Bresnahan, Maurice V. (See Heys, John J., assignor.)						
Bressler, Fred N., Sterling, Ill. End-gate lock.	715,906	Dec. 16	2541	561	101	2308
Bretherton, Sidney E., Denver, Colo. Ore-sampler.	704,853	July 15	2769	599	100	593
Brethour, Arthur E., Ottawa, Canada. Filler for capsules, wafers, &c.	693,637	Feb. 18	2706	597	98	1402
Brett, Robert D., assignor of one-half to T. P. Wood, London, England. Smoke-consuming apparatus for steam-boiler or like furnaces.	707,957	Aug. 26	3800	853 854	100	1945
Bretz, William H. (See Junod, Paul, assignor.)						
Bretzel, Herman J., Milwaukee, Wis. Currying device.	713,281	Nov. 11	1594	369	101	1239
Breuchaud, Jules, Yonkers, N. Y. Constructing tunnels.	706,380	Aug. 5	752	165 166	100	1267
Breuer, Carl, Friedenau, Germany. Device for removing noxious impurities from the air of rooms.	693,638	Feb. 18	2707	597	98	1403
Breul, Richard A., Bridgeport, Conn. Wire-cutting die.	691,892	Jan. 28	2895	652	98	654
Breul, Richard A., Bridgeport, Conn. Clamping-wrench.	696,405	Apr. 1	22	6	99	7
Breul, Richard A., Bridgeport, Conn. Wrench.	696,406	Apr. 1	23	6	99	7
Breul, Richard A., Bridgeport, Conn. Cutting-die.	716,184	Dec. 16	2932	654	101	2494
Breun, Charles A., and B. Couch, Sioux City, Iowa. Steam-cooker.	712,760	Nov. 4	537	125	101	1008
Breunig, Herman, and H. J. Waldeyer, New York, N. Y. Non-refillable bottle.	710,139	Sept. 30	4170	939	100	2900
Brew, Daniel J., H. B. Mallory, and A. Turner, Danbury, Conn. Hat-forming machine.	714,773	Dec. 2	239	47, 48	101	1886
Brewer, Horatio J., New York, N. Y. Zinc element for primary batteries.	694,127	Feb. 25	3641	805	98	1609
Brewer, Frank A., Jr., and G. W. Harvey, Watonsville, Cal. Dental flask.	706,016	Aug. 5	21	5	100	1120
Brewer, William J., assignor to National Roller and Ball Bearing Company, Washington, D. C. Antifriction journal-bearing.	694,089	Feb. 25	3581	791	98	1597
Brewer, William J., assignor to National Roller and Ball Bearing Company, Washington, D. C. Antifriction-bearing.	694,607	Mar. 4	527	114 115	98	1825
Brewer, William R., et al, administrators. (See Pilson, George F.)						
Brewer, Zebulon L., Cedar Rapids, Iowa. Shears.	694,608	Mar. 4	528	115	98	1825
Brewington, Henry S., Baltimore, Md. Bottle-stopper.	712,089	Oct. 28	3181	696	101	710
Brewington, Henry S., Baltimore, Md. Mop-head.	694,896	Jan. 14	181	314	98	302
Brewington, Henry S., Baltimore, Md. Bottle-stopper.	703,323	Mar. 4	940	200	98	1911
Brewington, Henry S., Baltimore, Md. Bottle-stopper.	703,323	July 1	273	62	100	55
Brewington, Henry S., Baltimore, Md. Bottle-stopper.	703,525	July 1	274	62	100	56
Brewington, Henry S., Baltimore, Md. Garment-clasp.	703,526	July 1	275	62	100	56
Brewington, Henry S., Baltimore, Md. Bottle-stopper.	703,527	July 1	276	62	100	56
Brewington, Henry S., Baltimore, Md. Bottle-stopper.	703,528	July 1	277	63	100	56
Brewington, Henry S., assignor of one-half to W. F. Seim, Baltimore, Md. Bottle-washing machine.	697,796	Apr. 15	2634	583 584	99	591
Brewington, Henry S., assignor of one-half to W. F. Seim, Baltimore, Md. Bottle-washer machinery.	697,797	Apr. 15	2637	584	99	591
Brewington, Henry S., assignor of one-half to W. F. Seim, Baltimore, Md. Bottle-washing machine.	699,367	May 6	447	103 104	99	1266
Brewington, Henry S., assignor of one-half to W. F. Seim, Baltimore, Md. Bottle-washer.	701,285	June 3	13	3	99	211
Brewington, Henry S., assignor of one-half to W. F. Seim, Baltimore, Md. Bottle-stopper.	703,524	July 1	274	62	100	55



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Brewington, Henry S., assignor of one-half to W. F. Seim, Baltimore, Md. Jar-closure.	715,345	Dec. 9	1331	287	101	2127
Brewster, Elmer J., Chicago, Ill. Automatic connecting-rod key	711,241	Oct. 14	1634	352	101	355
Brewster, William F., New York, N. Y. Supporting device for electric lamps	708,984	July 8	1136	246	100	241
Brewster, William H., Utica, N. Y. Back-pedaling brake	713,594	Nov. 18	2198	490	101	1379
Brewster, William H., assignor of one-half to J. F. Coupe, Utica, N. Y. Transforming-gear	716,180	Dec. 16	2985	652	101	2492
Brey, Clarence F., Philadelphia, Pa. Violin-case	712,357	Oct. 28	3752	820	101	824
Breymann, George H., Toledo, Ohio. Amalgamator	707,236	Aug. 19	2477	556	100	1660
Brian, Don C., Houston, Idaho. Water-elevator	697,317	Apr. 8	1738	388	99	390
Brice, Edward C., Colwyn, Pa. Kiln for burning bricks, &c	695,904	Mar. 25	2925	663	98	2372
Bricker, Samuel P., assignor to National Metal Weather Strip Company, Allegheny, Pa. Weather-strip	712,761	Nov. 4	539	125	101	1008
Bridgesburg Machine Company. (See Asimos, William C., assignor.)						
Bridge, John A., Wall Station, Pa. Rail-joint	718,391	Nov. 11	1807	406	101	1285
Bridgeport Hardware Manufacturing Company. (See Sperry, Ellie N., assignor.)						
Bridger, William J., Phoenix Mills, N. Y. Hydraulic governor for water-wheels	699,142	May 6	29	8	99	1182
Bridger, William J., Phoenix Mills, N. Y. Hydraulic cutting-machine	710,837	Oct. 7	84	184	101	172
Bridges, John, assignor of one-half to J. W. Hufstедler, Imboden, Ark. Hand-car	711,920	Oct. 21	2952	649	101	645
Bridgwater, Harry H. (See Haley and Bridgwater.)						
Bridgwater, Harry H., and J. Haley, assignors to Akron Glass & Machinery Company, Akron, Ohio. Glass-melting and mold-charging apparatus	714,558	Nov. 25	4054	897	101	1782
Bridson, Edward R., and H. Brough, Nottingham, England. Air-condenser for steam-propelled cars or vehicles	714,445	Nov. 25	3855	852	101	1741
Brien, Louis A. (See Lemire, Joseph, assignor.)						
Brier, Oliver, Lazeurville, W. Va. Jar-closure	696,407	Apr. 1	25	7	99	8
Brigden, Charles H., Yonkers, N. Y. Lock	699,831	May 13	1356	315	99	1467
Brigden, Charles H., Canton, Mass. Shade-roller	711,757	Oct. 21	2623	577	101	577
Briguel, Leo A., Jr., Cincinnati, Ohio. Conveyor-tube coupling	694,245	Feb. 25	3801	856	98	1653
Briguel, Leo A., Cincinnati, Ohio. Chain-pump	698,648	Mar. 13	1004	233	99	1396
Briguel, Leo A., assignor, by mesne assignments, to Cincinnati Pump Company, Cincinnati, Ohio. Chain-pump	700,729	May 27	3160	719	99	1877
Brigg, Thomas H., London, assignor of seven-twentieths to C. W. Walker, Bradford, Yorkshire, England. Pole-head device for vehicles	698,390	Apr. 22	3734	894	99	839
Briggs, Arthur A. (See Belmer, Charles G., assignor.)						
Briggs, Dwight A., Ewart, Mich. Hydrocarbon-oil engine	701,140	May 27	3942	907	99	1040
Briggs, Edward J., St. Louis, Mo. Disinfecting device	704,777	July 15	2816	566	100	561
Briggs, Edwin F., Des Moines, Iowa. Nut-lock	694,246	Feb. 25	3862	856	98	1653
Briggs, Irving L., Camden, N. J., assignor to N. Z. Graves & Co., Inc., Philadelphia, Pa. Rotating and discharging retort-furnace	717,332	Dec. 30	5312	1155	101	3024
Briggs, James E., Rochester, N. Y., assignor to Briggs Optical Company. Eyeglasses or spectacles	714,664	Dec. 2	18	4	101	1840
Briggs, Joseph B., Jr., Russellville, Ky. Air-brake	712,249	Oct. 28	3563	780	101	735
Briggs Optical Company. (See Briggs, James E., assignor.)						
Briggs, Robert R., Detroit, Mich. Weeding implement	711,528	Oct. 21	2228	484	101	493
Briggs, Silas E., Churubusco, Ind. Display-cabinet and adjustable shelf	715,967	Dec. 16	2542	561	101	2398
Briggs, Warren R., Stratford, Conn. Window-blind	708,618	Sept. 9	1107	248	100	2216
Briggs, Warren R., Stratford, Conn. Shutter-fastener	708,619	Sept. 9	1108	249	100	2217
Brigham, Charles F., Chicago, Ill. Fire-extinguisher	690,633	Jan. 7	510	111	98	110
Brigham, Edward M., assignor of two-thirds to I. L. Stone, Battlecreek, and J. H. Hatfield, Kalamazoo, Mich. Corset-clasp	717,333	Dec. 30	5313	1156	101	3024
Bright, Frank E., Lapel, Ind. Hay-rack	691,527	Jan. 21	2198	492	98	492
Brightmore, Arthur W. (See Bailey and Brightmore.)						
Brighton, Samuel J., Fairfield, Iowa. Device for preventing swine from rooting, &c.	699,444	May 6	603	138	99	1390
Brightwell, Amazon W., Owen, Ind., assignor of one-fifth to H. H. Beach, Louisville, Ky. Hinge	700,612	May 20	2912	670	99	1806
Brill, George M., Philadelphia, Pa. Electric locomotive-crane	703,985	July 8	1137	247	100	241
Brill, John A. (See Adams, Walter S., assignor.)						
Brill, John A. (See Bucknam, Ezra S., assignor.)						
Brill, John A. (See Rounds, Myron, assignor.)						
Brill, John A., Philadelphia, Pa. Convertible car	691,351	Jan. 21	1878	423	98	425
Brill, John A., Philadelphia, Pa. Convertible railway-car	696,408	Apr. 1	26	7	99	8
Brill, John A., Philadelphia, Pa. Convertible railway-car	696,409	Apr. 1	33	8	99	11
Brill, John A., Philadelphia, Pa. Car-truck	708,994	Sept. 16	1867	429	100	2398
Brill, John A., and E. S. Bucknam, Philadelphia, Pa.; said Bucknam assignor to said Brill. Convertible railway-car	709,073	Sept. 16	2035	464	100	2428
Brillard, Simon. (See Grondin, Brillard, and Labranche.)						
Brinckle, Addington L., Philadelphia, Pa. Belt-supporting loop attachment	711,149	Oct. 14	1439	311	101	314
Brindle-Steere Company. (See Brindle and Steere, assignors.)						
Brindle, Thomas, and M. O. Steere, Pawtucket, R. I., assignors to Brindle-Steere Company, Portland, Me. Harness-motion for looms	700,613	May 20	2913	671	99	1806
Brindley, Harry S. B., Tokio, Japan. Hydraulic or other fluid-controlling valve	718,009	Dec. 2	715	151	101	1980
Briner, Thomas J., Philadelphia, Pa. Fire-escape	697,711	Apr. 1	603	138	99	131
Brines, John A., Fresno, Cal. Sawing apparatus	710,838	Oct. 7	845	184	101	172
Bringer, Herman H., assignor of two-thirds to J. Weilersbacher, Pittsburg, Pa. Spike-machine	698,100	Apr. 22	3900	700	99	720
Brining, Frank P., Westgrove, Pa. Vehicle-tire	709,959	Sept. 30	3819	859	100	2826
Brink, Frank W., Tacoma, Wash. Chute for loading wheat or flour on ships	707,397	Aug. 19	2479	557	100	1660
Brinkman, Sebastian G., New York, N. Y. Fireproof ceiling and floor	707,201	Aug. 19	2301	514	100	1624
Brinley, Charles A., Philadelphia, Pa. Shaft-hanger	699,943	May 13	1593	364	99	1517
Brinley, Charles A., Philadelphia, Pa., assignor to American Pulley Company. Sheet-metal pulley	706,894	Jan. 12	1737	387	100	1489
Brinton, Burtwin L. and W. P., Bradford, Pa. Piston-valve for air-compressors	691,042	Jan. 14	1282	291	98	283
Brinton, Henry, Philadelphia, Pa. Circular-knitting machine	700,730	May 27	3161	719	99	1877
Brinton, William P. (See Brinton, Burtwin L. and W. P.)						
Brischar, Franz J., assignor to Sodor-Fabrik Zurich, Zurich, Switzerland. Chemical fire-extinguisher	713,946	Nov. 18	2879	639	101	1523

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Briscoe Manufacturing Company. (See Puddefoot, Charles, assignor.)						
Brisset, Henri. (See Lacroix and Brisset.)						
Bristol, Horace F., assignor to J. W. Anderson, Springfield, Mass. Illuminating-sign for cars and means for operating same	715,547	Dec. 9	1717	379	101	2308
Bristow, Samuel, Watmore, Kans. Toy boomerang	692,608	Feb. 4	691	161	98	940
Brittelle Lamp Company. (See Moreau, Eugene, assignor.)						
British Cyanides Company. (See Smith, Gidden, and Salamon, assignors.)						
Britnell, James, High Wycombe, England. Corset-fastener	705,641	July 29	4497	976	100	970
Brittain, Samuel T., Boston, Mass. Boat adapted to be propelled on land or in water	693,228	Feb. 11	1922	418	98	1219
Britto, José P. R. de. (See Snellebrand and Britto.)						
Britton, Edward. (See Kettler and Britton.)						
Britton, George G., Anniston, Ala. Ventilator	715,968	Dec. 16	2543	562	101	2399
Britton, George W., Camden, N. J., assignor to Hale and Kilburn Manufacturing Company. Jointed frame for sofa-beds, reclining-chairs, &c.	702,699	June 17	2583	595	99	2678
Britton, James A., Bethlehem, Pa. Luggage-carrier	707,755	Aug. 26	3413	769	100	1868
Britton, John H., Los Angeles, Cal. Fire-extinguisher	690,556	Jan. 7	363	74	98	79
Britton, Louis H., and H. W. Morrow, assignors to Union Manufacturing Company, Lisbon, Ohio. Machine for making suckers or drinking-tubes	706,895	Aug. 12	1739	388	100	1489
Britton, William O., Trenton, N. J., assignor to J. K. Torrey & Co., Worcester, Mass. Razor-strop	702,866	June 17	2894	669	99	2743
Britz, Nicholas. (See Goodrich, Ernest C., assignor.)						
Britzke, Oscar, St. Petersburg, Russia. Gas-battery	711,614	Oct. 21	2845	512 513	101	517
Brixey, William R., Seymour, Conn. Manufacture of crude kerite	714,858	Dec. 2	431		101	1921
Brixey, William R., Seymour, Conn. Kerite	714,859	Dec. 2	433		101	1921
Broach, Jefferson T., assignor of one-half to J. W. Bidgood, Churchland, Va. Non-interfering horseshoe	710,839	Oct. 7	847	184	101	173
Broach, John, and G. W. Goodrich, assignors to Independent Pattern Company, New York, N. Y. Dress-pattern seal	709,464	Sept. 23	2837	687	100	2609
Broadbelt, Daniel, New York, N. Y. Folding carriage	698,101	Apr. 22	3204	701	99	730
Broadbent, Denis R. (See Goode, John, assignor.)						
Broadbent, John C. (See McKee, James, assignor.)						
Broadbooks, Peter, Batavia, N. Y. Combined wire-cutter and pliers	699,832	May 13	1358	315	99	1468
Broadbooks, Peter, Batavia, N. Y. Pliers	699,909	May 13	1527	351	99	1505
Brocchi, Vincenzo, Milan, Italy. Hernial bandage or truss	715,010	Dec. 2	716	151 152	101	1980
Brock, Arthur W., Alma, Mich. Heating and ventilating drum	701,286	June 3	14	3	99	2111
Brock, Clarence R., and W. C. Barth, Broughton, Kans. Fan	715,011	Dec. 2	717	152	101	1981
Brock, Holden, St. Paul, Minn. Cement roofing	708,307	Sept. 2	576	130	100	2098
Brockelt, Hermann, Berlin, Germany. Device for overcoming alternating currents in direct-current circuits	708,121	Sept. 2	221	53	100	2027
Brockelt, Hermann, assignor to M. Levin, Berlin, Germany. Alternating-current-motor meter	693,491	Feb. 18	2414	528	98	1343
Brockett, John S. (See Walter and Brockett.)						
Brockett, Atwater E., Boston, Mass. Collapsible seat	695,426	Mar. 11	2039	457	98	2157
Brockhuis, John A., Cincinnati, Ohio. Low-water alarm	713,553	Nov. 11	2118	474	101	1345
Brocklebank, John C. (See Holmes, Enoch T., assignor.)						
Brockschmidt, William P. (See Rose and Brockschmidt.)						
Brockway, Bert H. (See Walter, William L., assignor.)						
Brockway, Bert H., et al. (See Walter, William L., assignor.)						
Brocq, François A., and A. Blanchet, assignors to Compagnie pour la Fabrication des Compteurs et Matériel d'Usines à Gaz, Société Anonyme, Paris, France. Electric meter	703,176	June 24	3504	806	99	2880
Broderick, Clement M., Windsor, Conn. Base-fuse for explosive projectiles	697,974	Apr. 22	2953	651	99	677
Broga, Franklin D., Camden, N. Y. Meat-hook	712,492	Nov. 4	52	13, 14	101	908
Broichgans, Stephan, assignor to Perfect Gas Machine Company, Milwaukee, Wis. Gas and air mixer	708,308	Sept. 2	577	130	100	2098
Brokaw, Joseph M., Battlecreek, Mich. Corn-crib	708,529	July 1	278	63	100	56
Broluska, Amel, Detroit, Mich. Car-brake	705,028	July 22	3179	687	100	694
Broman, Johan J., Sterling, Ill. Shears	713,595	Nov. 18	2207	490	101	1381
Bromberek, John, Long Island City, N. Y. Harness-saddle	704,505	July 15	2137	462 463	100	462
Bromhead, John S., Brooklyn, N. Y. Non-refillable bottle	691,108	Jan. 14	1382	314	98	303
Bromley, Emmet A., Brighton, Colo. Automatic regulator for windmills	708,620	Sept. 9	1109	249	100	2217
Bronder, Gaston A., Brooklyn, N. Y. Conveyor	701,835	June 10	982	219	99	2331
Bronder, Gaston A., Brooklyn, N. Y. Floating dry-dock	713,947	Nov. 18	2881	641	101	1523
Bronder, Gaston A., Brooklyn, N. Y. Gas-retort-charging apparatus	717,334	Dec. 30	5316	1156 1157	101	3025
Bronn, Jegor, assignor to Gesellschaft zur Verwertung der Patente für Glaserzeugung auf Elektrischem Wege Becker & Co., M. B. H., Cologne, Germany. Manufacture of glass by means of electricity	708,309	Sept. 2	580	131	100	2099
Brown, Edward J., et al. (See Chubb, James A., assignor.)						
Bronnert, Emile, Niedermorschweiler, M. Fremsy and J. Urban, Aachen, Germany. Obtaining threads from cellulose solutions	698,254	Apr. 22	3503		99	791
Bronson, Adelbert E., Jr., assignor to Bronson-Walton Company, Cleveland, Ohio. Cooking utensil	711,466	Oct. 21	2060	445	101	457
Bronson, Enos A., Newburgh, N. Y. Sash-fastener	692,047	Jan. 28	3178	717	98	709
Bronson, Enos A., Newburgh, N. Y. Sash-supporter	692,048	Jan. 28	3178	717	98	709
Bronson, Howard S., Brandon, Vt. Benzo attachment	706,381	Aug. 5	759	166	100	1268
Bronson-Walton Company. (See Bronson, Adelbert E., Jr., assignor.)						
Brodsky, Abram, Montreal, Canada. Indurating plaster-of-paris	696,410	Apr. 1	36		99	11
Brook, Frank, Lindley, Huddersfield, assignor to P. MacMaster, Hempstead, county of Middlesex, England. Time-recorder for workmen or servants or like apparatus	704,854	July 15	2770	599 600	100	593
Brooke, Charles D., Coshocton, Ohio. Door-plate	707,546	Aug. 26	2652	668	100	1776
Brooke, Finley S., Cincinnati, Ohio. Hinge-joint for seating	707,547	Aug. 26	2652	668	100	1776
Brooke, Finley S., Cincinnati, Ohio. Benzo attachment	715,969	Dec. 16	2546	563	101	2399
Brooke, Henry, Pataskala, Ohio. Crane for handling lumber, &c.	690,513	Jan. 7	283	57	98	62
Brooke, Homer, Jersey City, N. J. Pipe-joint	693,367	Feb. 18	2181	479	98	1294
Brooke, Isaac, Pottstown, Pa. Feed-water heater and purifier	698,366	Apr. 22	3690	814	99	830
Brooke, Isaac, Pottstown, Pa. Stove or heater	716,661	Dec. 23	3937	860	101	2705
Brooke, Mary E., Denver, Colo. Tire	691,689	Jan. 21	2303	519	98	514
Brooker, Albert, assignor of one-half to D. Fagioli and W. Bailey, Eastleigh, England. Controlling device for couplings of railway-wagons	706,896	Aug. 12	1742	383 389	100	1490
Brooker, Charles F., Ansonia, Conn., assignor to Coe Brass Manufacturing Company. Machine for rolling metal forms	694,722	Mar. 4	736	163	98	1897



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Brookes, John, East Liverpool, Ohio. Metallic tie and rail fastener	695,192	Mar. 11	1631	362	98	2074
Brooks, Alfred J., Prospect Park, assignor of one-fifth to G. L. Husband, Philadelphia, Pa. Non-refillable bottle	697,798	Apr. 15	2638	585	99	592
Brooks, Arthur A., and G. A. Watson, Liverpool, England. Magazine plate-holder	705,734	July 29	4679	1013	100	1006
Brooks, Arthur A., and G. A. Watson, Liverpool, England. Light-proof case for sensitized plates	714,860	Dec. 2	494	98	101	1921
Brooks, Byron A., New York, N. Y. Electrically-printing type-writer	696,784	May 13	1265	293	99	1447
Brooks, Chapin C., Hallowell, Me. Shears	697,440	Apr. 15	1967	439	99	458
Brooks, Charles F., Lynn, Mass. Harness-saddle	694,723	Mar. 4	739	164	98	1808
Brooks, Edward J., East Orange, N. J. Snap-seal	696,002	Mar. 25	3095	702	98	2406
Brooks, Edward J., East Orange, N. J. Snap-seal	696,003	Mar. 25	3098	702	98	2406
Brooks, Edward J., East Orange, N. J. Snap-seal	697,375	Apr. 8	1824	409	99	408
Brooks, Edward J., East Orange, N. J. Cording-seal	704,673	July 15	5228	324	100	323
Brooks, Edward J., East Orange, N. J. Seal	709,626	Sept. 23	3150	702	100	2675
Brooks, Edward J., East Orange, N. J. Snap-seal	712,250	Oct. 28	3567	780	101	785
Brooks, Everett W., et al. (See Nistle, George W., assignor.)						
Brooks, Everett W., et al. (See Sharpneck, William S., assignor.) (Reissue.)						
Brooks, Frank M., Brooklyn, N. Y. Gas-check for Bunsen or similar burners	700,893	May 27	3480	798	99	1942
Brooks, Frank M., Brooklyn, N. Y. Incandescent gas-lamp	705,818	July 29	4824	1047	100	1086
Brooks, Frederick W., Brooklyn, N. Y. Automatic photographic detector device for passenger-cars	711,935	Oct. 28	2086	657	101	671
Brooks, George C., Wilson, N. Y. Shifting mechanism for steering or other purposes	698,439	Apr. 29	3682	845	99	876
Brooks, George G., et al., trustees. (See McClave, William, assignor.)						
Brooks, Gus A., Covington, Ky. Sealing device for bottles	703,530	July 1	278	63	100	56
Brooks, Henry, South Brooklyn, Ohio. Trace-support	691,590	Jan. 21	2305	519	98	514
Brooks, Howard, assignor of two-thirds to G. W. Brown and J. C. Mastick, Wheaton, Ill. Protector for electric railways	714,446	Nov. 25	3856	852	101	1742
Brooks, James W., Indianapolis, Ind. Trolley	708,198	Sept. 2	383	89	100	2060
Brooks, John, Brockton, Mass. Disk cutter	714,359	Nov. 25	3702	815	101	1712
Brooks, John B., and J. Holt, Birmingham, England. Cycle-saddle	698,367	Apr. 22	3691	815	99	830
Brooks, John B., and J. Holt, Birmingham, England. Cycle-saddle attachment	703,891	July 1	950	208	100	191
Brooks, John C., assignor of one-half to R. H. Sterrett, Paterson, N. J. Narrow-ware loom	704,295	July 8	1733	378	100	364
Brooks, John H. (See Florey, Clarence M., assignor.)						
Brooks, Joseph A., and E. E. Whittaker, Paterson, N. J. Sash-locking mechanism	702,700	June 17	2585	595	99	2678
Brooks, Karnell, New York, N. Y. Driving mechanism for bicycles	710,245	Sept. 30	4370	982	100	2943
Brooks, Leonard B., Independence, Iowa. Washing-machine	702,585	June 17	2274	518	99	2614
Brooks, Myron B., Nashville, Mich., assignor to Goodell Company, Antrim, N. H. Apple-parer	710,351	Sept. 30	4546	1025	100	2980
Brooks, Theodore L., assignor to himself, L. H. King, F. S. Root, B. C. Smith, C. E. Wethey, J. G. Kick, S. Peterson, A. Tuller, and J. M. Ryan, Port Byron, N. Y. Parcel receiving and delivering device	708,859	Sept. 9	1595	365	100	2321
Brooks, Virgil L. (See Busser, William H., assignor.)						
Brooks, William S., Akron, Ohio. Apparatus for equipping vehicle-wheels with tires of rubber or other elastic material	697,441	Apr. 15	1987	439	99	458
Broomell, Albert P., York, Pa. Limekiln	712,251	Oct. 28	3569	781	101	786
Broomell, Albert P., York, Pa. Steam heating apparatus	717,335	Dec. 30	5319	1157	101	3025
Broomhead, William H. (See Tubby and Broomhead.)						
Brophy, Daniel J., Montreal, Canada. Piling-machine	698,103	Feb. 11	1634	357	98	1161
Brophy, John P., assignor to Cleveland Machine Screw Company, Cleveland, Ohio. Machine for cutting worm-threads	703,986	July 8	1143	248	100	243
Brophy, Michael M., London, England. Steam water-heater	691,525	Jan. 21	2194	493	98	492
Brophy, Michael M., London, England. Filtering and regulating device	691,529	Jan. 21	2196	493	98	493
Brophy, Stephen. (See Deneal, Jackson, assignor.)						
Brosi, Fred T., Quincy, Ill. Bucket-ear	709,299	Sept. 16	2488	560	100	2524
Brostrom, Carl A., Sioux City, Iowa, assignor to C. L. Brostrom, Kansas City, Mo. Lister-cultivator	715,637	Dec. 9	1858	413	101	2232
Brostrom, Charles L. (See Brostrom, Carl A., assignor.)						
Brostrom, Frederick, Jersey City, N. J. Handle for fare-register rods, &c.	716,622	Dec. 23	3866	845	101	2691
Brothers, William F., Brooklyn, N. Y., assignor to W. F. Brothers Company, Jersey City, N. J. Cableway	691,235	Jan. 14	1615	369	98	352
Brothers, William F., Brooklyn, N. Y., assignor to W. F. Brothers Company. Weighing-machine	691,438	Jan. 21	2041	457	98	460
Brott, Lucien A., Brooklyn, N. Y., assignor, by mesne assignments, to Composite Type Bar Company, Jersey City, N. J. Machine for the production of types and type-bars	694,306	Feb. 25	3976	885	98	1677
Brott, Lucien A., Brooklyn, N. Y., assignor to Composite Type Bar Company, Jersey City, N. J. Machine for the production of types and type-bars	694,307	Feb. 25	4007	885	98	1681
Brott, Lucien A., Brooklyn, N. Y., assignor to Composite Type Bar Company, Jersey City, N. J. Composite type-bar	694,308	Feb. 25	4047	899	98	1683
Brott, Lucien A., Brooklyn, N. Y., assignor to Composite Type Bar Company, Jersey City, N. J. Production of type-bars	694,309	Feb. 25	4048	900	98	1683
Brott, Lucien A., Brooklyn, N. Y., assignor to Composite Type Bar Company, Jersey City, N. J. Type-magazine	694,310	Feb. 25	4049	900	98	1683
Brough, Harry. (See Bridson and Brough.)						
Brough, Henry G., Leland, Iowa. Vehicle-thill	701,994	June 10	1279	293	99	2388
Brough, William, Baltimore, Md. Automatic weighing-machine	692,609	Feb. 4	694	161	98	941
Brougher, John P., New York, N. Y. Shoe-polisher	696,712	Apr. 1	604	136	99	131
Brouillette, Charles E., Woonsocket, R. I. Barber's implement	716,623	Dec. 23	3668	845	101	2691
Brown, Frederick M., assignor of one-half to E. H. Matteson, Warren, R. I. Reversing mechanism	706,719	Aug. 12	1377	307	100	1414

## Alphabetical list of patentees—Continued.

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Broun, Virginia M., Washington, D. C. Bed-canopy	692,419	Feb. 4	343	85	98	871
Brous, George M., Houlton, Oreg. Starting or stopping mechanism	701,287	June 3	16	9	99	2112
Brow, James B., New York, N. Y., assignor to "Adek" Manufacturing Company. Machine for perforating paper, &c.	669,649	Jan. 13	1006	233	99	1896
Browder, Henry L., McComb City, Miss. Locomotive ash-pan	690,827	May 7	886	196	98	187
Brower, Alfred S., Yonkers, N. Y. Core-box plane	695,668	Mar. 18	2496	566	98	2269
Brower, Charles D., trustee. (See Reid, Marcellus, assignor.)						
Brower, William W. (See Hill and Brower.)						
Brown, Aaron A. (See Anderson and Brown.)						
Brown, Alexander T., Syracuse, N. Y. Gearing	691,591	Jan. 21	2306	519	98	514
Brown, Alexander T., Syracuse, N. Y. Gearing	694,724	Mar. 4	740	161	98	1868
Brown, Alexander T., Syracuse, N. Y. Power-transmitting mechanism	702,280	June 10	1786	408	99	2492
Brown, Alexander T., Syracuse, N. Y. Gas-engine	705,201	July 22	3534	766	100	767
Brown, Alfred C., London, England. Electrical sparking device	703,759	July 1	708	157	100	142
Brown, Alvan W. (See Clark, Devello P., assignor.)						
Brown, Andrew B., Edinburgh, Scotland. Steering machinery	707,382	Aug. 19	2632	594	100	1692
Brown, Arthur F., assignor to Stoddard Manufacturing Company, Dayton, Ohio. Horse hay-rake	694,051	Feb. 25	3523	775	98	1585
Brown, Arthur M. (See Brown, Daniel L., assignor.)						
Brown Brothers. (See Goodman, Edwin B., assignor.)						
Brown, Burel J., Stout, Tex. Cotton-sweep	716,662	Dec. 23	3988	860	101	2706
Brown, Charles A., et al. (See Davis, Charles L., assignor.)						
Brown, Charles D., Valley Center, Mich. Cover-retaining device for pots or kettles	690,828	Jan. 7	888	196	98	188
Brown, Charles F. (See Melavin, John H., assignor.)						
Brown, Charles F. (See Read, William, assignor.)						
Brown, Charles F., Greeneville, Tenn. Sharpener	707,082	Aug. 19	2073	462	100	1574
Brown, Charles N., Syracuse, N. Y. Machine for double-seaming metal sheets	701,011	May 27	3708	850	99	1989
Brown, Charles N., Boston, assignor of one-half to J. S. Wilson, Chelsea, Mass. Bobbin-holder for circular looms	694,128	Feb. 25	3643	805	98	1610
Brown, Charles N., Boston, assignor to J. S. Wilson, Chelsea, Mass. Shuttle for looms	702,281	June 10	1789	408	99	2493
Brown, Charles N., Waltham, Mass., assignor to J. A. and E. C. Abel, Brooklyn, N. Y. Pin-retainer	712,252	Oct. 28	3571	781	101	786
Brown, Charles T., Denver, Colo., assignor to National Wire Fence Company. Wire fence	690,514	Jan. 7	284	57	98	62
Brown, Chauncey B. (See Brown, James E. and C. B.)						
Brown, Clarence G. (See Thomas, William H., assignor.)						
Brown, Clinton W., assignor to B. K. Smith and Co., Providence, R. I. Garment-supporter	714,774	Dec. 2	242	48	101	1886
Brown, Collins A., and R. C. Kerr, Reading, Mich. Measuring instrument	708,520	Sept. 9	947	214	100	2185
Brown and Company, John. (See Graham, Samuel A., assignor.)						
Brown, Cornell E., Point Pleasant, N. J. Eaves-trough hanger	693,492	Feb. 18	2416	528	98	1343
Brown, Curtis P., Comstocks Bridge, Conn. Machine for making compound paper	695,787	Mar. 18	2704	614	98	2312
Brown, Cyril P., Springlake, Mich. Folding bed	698,368	Apr. 22	3692	815	99	830
Brown, Cyrus E., Johnstown, Pa., assignor to Lorain Steel Company. Switch throw or stand	712,040	Oct. 28	3182	696	101	710
Brown, Cyrus E., Johnstown, Pa., assignor to Lorain Steel Company. Means for preventing accidents at railway-crossings	713,741	Nov. 18	2474	551	101	1439
Brown, Daniel, Cranston, R. I. Gun-lock	698,440	Apr. 29	3834	846	99	876
Brown, Daniel, Cranston, R. I. Shot-spreader	699,487	May 6	682	158	99	1318
Brown, Daniel T., assignor of one-half to A. M. Brown, Birmingham, Ala. Mining-car	700,718	May 20	3132	711	99	1855
Brown, Daniel T., Pawtucket, R. I. Clothes-drier	695,535	Mar. 18	2342	506	98	2218
Brown, Daniel W., Philadelphia, Pa. Optical wire	704,778	July 15	2617	566	100	561
Brown, David. (See Masecar, John R., assignor.)						
Brown, David. (See Masecar and Bevington, assignors.)						
Brown, Edgar L., Littlefalls, N. Y. Folding box	714,138	Nov. 25	3248	717	101	1620
Brown, Edwin F., Chicago, Ill. Collar	709,074	Sept. 16	2040	465	100	2430
Brown, Edwin H. (See Foote, Theodore M., assignor.)						
Brown, Edmund L., Martinsville, Ind. Machine for splitting bark-strips	700,296	May 20	2320	528	99	1685
Brown, Edmund L., Martinsville, Ind. Machine for cutting bark into strips	700,297	May 20	2321	529	99	1685
Brown, Egbert B., Maywood, Ill. Safety-pocket	693,368	Feb. 18	2183	479	98	1294
Brown, Elijah E., and T. B. McCall, Cripplecreek, Colo. Ratchet-tool	705,029	July 22	3180	687	100	694
Brown Folding Machine Company. (See Wendt, Fredrick H., assignor.)						
Brown, Francis, Guelph, N. Y. Game apparatus	712,493	Nov. 4	54	14	101	908
Brown, Francis C., Brooklyn, N. Y. Fountain-pen	697,975	Apr. 25	2954	651	99	677
Brown, Francis W., Cohoes, N. Y. Belt	701,141	May 27	3948	907	99	2040
Brown, Frank E., Concord, N. H. Key-holder	690,396	Jan. 7	21	5	98	7
Brown, Frank E., Anamosa, Iowa. Ice-skate	703,232	June 24	3013	830	99	2902
Brown, Frank H., et al. (See Winkler, William, assignor.)						
Brown, Frank O., and E. T. Moore, Dallas, Tex. Car-brake	704,506	July 15	2138	463	100	463
Brown, Frank R. (See Shelain, Frank G., assignor.)						
Brown, Frank R., Unga, Alaska. Clamp for rock-drills	698,900	Apr. 29	4793	1055	99	1084
Brown, Franklin, assignor to C. Best, Philadelphia, Pa. Packing	696,544	Apr. 1	274	63	99	62
Brown, Fred, assignor to J. Wadsworth, Paterson, N. J. Picker-operating mechanism for swivel-looms	701,534	June 3	449	101	99	2200
Brown, Fred H., Los Angeles, Cal. Electrical process of locating running water in the earth	714,775	Dec. 2	242	48	101	1886
Brown, Frederick W., Berlin, N. H. Adjustable wrench	699,072	Apr. 29	5071	1121	99	1142
Brown, Garrett. (See Butcher, James M., assignor.)						
Brown, Garrett. (See Smith, Edgar B., assignor.)						
Brown, George, Santiam, Oreg. Animal-trap	695,905	Mar. 25	2930	663	98	2373
Brown, George B., Reading, Pa., assignor to Carpenter Steel Company, New York, N. Y. Shield and funnel for recharging crucibles	711,467	Oct. 21	2061	446	101	457
Brown, George B., Reading, Pa., assignor to Carpenter Steel Company, New York, N. Y. Recharging smelters' crucibles	711,468	Oct. 21	2062	446	101	457
Brown, George B., Reading, Pa., assignor to Carpenter Steel Company. High-tungsten steel	714,139	Nov. 25	3249	687	101	1621
Brown, George R., Pledger, Tex. Proportionate scale	697,318	Apr. 8	1739	388	99	390
Brown, George T. (See Wilmot, Maley, and Brown.)						
Brown, George W. (See Jordan, Alberto T., assignor.)						
Brown, George W., et al. (See Brooks, Howard, assignor.)						
Brown, George W., Boston, Mass. Holder for non-fluid lubricants	694,609	Mar. 4	530	115	98	1823



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Brown, Glenn C., Birmingham, Ala. Portable mechanical loader and digger	709,199	Sept. 16	2291	520 521	100	2482
Brown, Harold P. (See Hobbs, Charles M., assignor.)						
Brown, Harold P., Montclair, N. J. Musical toy	704,233	July 8	1619	350	100	338
Brown, Harry F., Chicago, Ill. Water-meter	701,075	June 3	716	158	99	2358
Brown, Harry F., Chicago, Ill. Water-meter	703,716	July 1	623	140	100	124
Brown, Harry N. (See Brown, John and H. N.)						
Brown, Haydn, Surbiton Hill, England. Suture-clamp	709,392	Sept. 16	2684	602	100	2566
Brown, Hayes. (See Steele and Brown.)						
Brown, Henry A., Macon, Ga. Garment-stretcher	701,142	May 27	3944	907	99	2040
Brown, Henry T., Wilkesburg, Pa. Brake for street-car railways, &c.	711,290	Oct. 14	1703	368	101	368
Brown, Henry W., assignor to Strobel & Brown, Baltimore, Md. Eye-guard	703,531	July 1	290	64	100	57
Brown, Herman E., Coldwater, Mich. Making dolomitic sandstone	697,319	Apr. 8	1740	831	99	390
Brown, James, Pawtucket, R. I. Spinning-machine	713,283	Nov. 11	1599	362	101	1240
Brown, James, Tonopah, Nev. Ore-leaching apparatus	709,135	Sept. 16	2160	495	100	2456
Brown, James A., assignor to one-half to G. M. Tombling, Pictou, Colo. Match-safe attachment for miners' lamp-holders	709,452	Sept. 16	2800	630	100	2591
Brown, James E. and C. B., Bradford, Pa. Vehicle-body	699,488	May 6	683	159	99	1318
Brown, James J., London, England. Apparatus for sampling grain or seed	703,233	June 24	3614	830	99	2903
Brown, James O., Boston, Mass. Terminal for speaking-tubes	690,557	Jan. 7	364	74	98	79
Brown, James Y., Leavenworth, Kans. Self-lubricating axle-spindle	710,944	Oct. 14	1028	228	101	226
Brown, Jesse C. M., Philadelphia, Pa. Incandescent electric lamp and socket	703,717	July 1	630	140	100	124
Brown, Jesse J., Macon, Mo. Dental lathe	696,713	Apr. 1	605	136	99	131
Brown, Jessie, et al. (See Arnold, Cyrus M., assignor.)						
Brown, Joel H., Junction, Ariz. Ter. Dust-guard for hose-couplings	693,781	Feb. 18	2957	652	98	1453
Brown, John B., Ireland. Railway, tram-car, or the like	694,123	Feb. 25	3614	906	98	1610
Brown, John, Norwood, assignor to L. C. Smith, Brookline, Mass. Gluing-machine	698,791	Apr. 29	4533	1003	99	1025
Brown, John and H. N., Peterborough, England. Tape-needle	695,788	Mar. 18	2706	615	98	2312
Brown, John F., Knoxville, Pa. Spring bed-bottom	704,674	July 15	2429	525	100	523
Brown, John G., Jerseyville, Ill. Dehorning instrument	700,168	May 20	2052	469	99	1630
Brown, John R., Vancouver, Canada. Can-filling machine	713,554	Nov. 11	2120	475	101	1349
Brown, John W., Jr., Philadelphia, Pa. Tapping-machine	701,143	May 27	3946	906	99	2040
Brown, John W., Jr., Philadelphia, Pa. Electric controller	703,234	June 24	3615	831	99	2903
Brown, John W., Jr., Philadelphia, Pa. Polishing-machine	708,858	Sept. 9	1593	365	100	2320
Brown, John W., Newburyport, assignor to G. M. Port, Boston, Mass. Composition of matter	715,751	Dec. 16	2093		101	2303
Brown, John W., and G. Ellick, assignors to Collins Plow Company, Quincy, Ill. Four-horse evener for gang-plows	694,610	Mar. 4	532	116	98	1836
Brown, John W., Jr., and H. W. Yeager, assignors to Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Polishing-machine	707,819	Aug. 26	3545	1799	100	1895
Brown, Jonathan T., Marblehead, assignor to O. A. Miller, Brockton, Mass. Hinged last	699,785	May 13	1267	294	99	1448
Brown, Joseph, et al. (See Dillon, Lybran J., assignor.)						
Brown, Joseph, Lorain, Ohio. Grinding-mill	698,441	Apr. 29	3837	846	99	877
Brown, Joseph D., and W. McDermott, Greenville, Mo. Chain wrench	712,253	Oct. 28	3573	781	101	786
Brown, Joseph G. (See Brown, Joseph W., assignor.)						
Brown, Joseph W., Philadelphia, Pa. assignor to J. G. Brown, Odessa, Del. Mouthpiece for telephone-transmitters or speaking-tubes	711,615	Oct. 21	2347	513	101	517
Brown Knitting Company. (See Gee, Albert, assignor.)						
Brown, L. H. (See Keithly, Willie C., assignor.)						
Brown, Lemuel, Saugatuck, Mich. Life-boat	702,399	June 17	2011	458	99	2558
Brown, Lewis A., St. Louis, Mo. Brick or block	703,760	July 1	709	157	100	142
Brown, Mark A., assignor to one-half to W. O. Paxson, Douglas, Ga. Coupling device	691,109	Jan. 14	1583	315	98	303
Brown, Martin H., assignor to E. A. Bliss Co., Meriden, Conn. Mounting stones, &c., in celluloid	714,447	Nov. 25	3859	853	101	1742
Brown, Milton S., Washington, D. C. Shoe-fastener	705,317	July 29	4823	1047	100	1036
Brown, Morgan, Liffey, Ga. Buggy-stop raiser	705,901	July 29	4969	1081	100	1066
Brown, Nathaniel E., Aitkin, Minn. Bicycle	696,310	Mar. 25	3744	837	98	2541
Brown, Nehemiah H. (See Strait, Andrew V., assignor.)						
Brown, Neil. (See Solomon, David W., assignor.)						
Brown, Norman E., St. Joseph, Mich. Hoop-forming machine	698,442	Apr. 29	3838	846	99	877
Brown, Norman E., assignor to St. Joseph Iron Works, St. Joseph, Mich. Basket forming and stapling machine	708,955	Sept. 9	1773	410	100	2356
Brown, O. W. (See McLaughlin, Milton P., assignor.)						
Brown, Patrick, Buffalo, N. Y. Car-coupling	715,970	Dec. 16	2548	562	101	2399
Brown, Paul T. (See Kidd, Frank L., assignor.)						
Brown, Perry, Wilmington, Del. Journal-box	693,997	Feb. 25	3410	751	98	1562
Brown, Perry, Wilmington, Del. Car-coupling	693,998	Feb. 25	3413	751	98	1568
Brown, Perry, Wilmington, Del. Seal-lock	700,298	May 20	2322	529	99	1686
Brown, Perry, Wilmington, Del. Pedestal	700,894	May 27	3481	799	99	1942
Brown, Perry, Wilmington, Del. Window	714,776	Dec. 2	244	48, 49	101	1886
Brown, Peter C. (See Smith and Brown.)						
Brown, Pierre S. (See Sampson, William P., assignor.)						
Brown, Richard, Southampton, England. Utilizing waste heat in connection with smelting-furnaces	708,018	Sept. 2	30	7	100	1987
Brown, Robert A., and T. W. Livingston, Leslie, Ga. Cotton-planter	716,185	Dec. 16	2992	654	101	2434
Brown, Robert S., New Britain, Conn. Recessing-machine	692,234	Feb. 4	23	5, 6, 7	98	802
Brown, Robert T., et al. (See Montgomery, John H., assignor.)						
Brown, Roy W., and C. A. Rhine, assignors to Union Electric Manufacturing Company, Milwaukee, Wis. Rheostat	701,012	May 27	3712	851	99	1090
Brown, Rudolph L., Chicago, Ill. Brake-shoe	716,984	Dec. 30	4661	1011	101	2883
Brown, Schuyler C. (See Heath, Lester E., assignor.)						
Brown, Schuyler C., Saratoga Springs, N. Y. Ventilator attachment for water-closets.	704,471	July 8	2064	447	100	434
Brown and Sharpe Manufacturing Company. (See Davenport, William S., assignor.)						
Brown and Sharpe Manufacturing Company. (See Gabriel, Charles R., assignor.)						
Brown and Sharpe Manufacturing Company. (See Spalding, Frank, assignor.)						
Brown, Sidney G., Putney, England. Telegraphic apparatus	702,339	June 10	1892	432	99	2512
Brown, Sidney G., Putney, England. Electric telegraphy	702,622	June 17	2441	557	99	2647
Brown, Sidney G., London, England. Electric telegraphy	703,892	July 1	951	208	100	191
Brown, Silas M., assignor to Reid, Murdoch & Company, Chicago, Ill. Machine for pitting and stuffing fruits	716,331	Dec. 16	3252	711 712	101	2545

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Brown, Theodore H., assignor to New Broom and Supply Company, Viroqua, Wis. Broom-sowing device.	697,320	Apr. 8	1741	388	99	391
Brown, Theodore P. (See Welin, Peter, assignor.)						
Brown, Theodore P., Worcester, Mass. Governing device for pneumatic piano-players.	692,978	Feb. 11	1411	306	98	1115
Brown, Theodore P., Worcester, Mass. Winding mechanism.	696,090	Mar. 25	3273	740	98	2442
Brown, Theodore P., and P. Welin, Worcester, Mass. Double-bellows action for pneumatic piano-players.	701,535	June 3	451	101	99	2200
Brown, Thomas E. (See Jolliffe, Morgan, assignor.)						
Brown, Thomas E., New York, N. Y. Leveling device.	704,611	July 15	2325	505	100	501
Brown, Thomas P., Riverside, Cal. Tree-support.	694,247	Feb. 25	8863	856	99	1653
Brown, Thomas R., Wilmerding, Pa., assignor of two-thirds to W. C. Dallas, St. Louis, Mo., J. S. Seelye and E. McVicker, Franklin, Pa. Automatic gravity-feed lubricator.	712,254	Oct. 28	3573	782	101	787
Brown, Thomas S., Poughkeepsie, N. Y. Spring key or cotter.	697,756	Aug. 26	3414	769	99	1869
Brown, Volney C., Balleys Harbor, Wis. Trench.	697,321	Apr. 8	1743	389	99	391
Brown, Volney E., Woodstock, Ill. Composition for cleaning metals.	697,976	Apr. 22	2957			
Brown, Walter, assignor to National Manufacturing Company, Elkhart, Ind. Paper-bag machine.	716,859	Dec. 30	4410	955	101	2832
Brown, William E., assignor to Brown-Winstanley Manufacturing Co., Los Angeles, Cal. Support for holding bottles.	717,336	Dec. 30	5321	1158	101	3026
Brown, William F., assignor to Dowagiac Manufacturing Company, Dowagiac, Mich. Shoe for grain-drills.	705,030	July 22	3181	687	100	695
Brown, William H., Minneapolis, Minn. Feed-water heater.	712,118	Oct. 28	3342	731	101	740
Brown, William M., Johnstown, Pa., assignor to Lorain Steel Company. Contact-shoe for electric railways.	713,742	Nov. 18	2746	552	101	1439
Brown, William M., Johnstown, Pa., assignor to Lorain Steel Company. Contact-box for electric railways.	717,070	Dec. 30	4821	1045	101	2918
Brown, William M., Johnstown, Pa., assignor to Lorain Steel Company. Electric switch.	717,071	Dec. 30	4823	1045	101	2918
Brown-Winstanley Manufacturing Co. (See Brown, William E., assignor.)						
Brown, Alexander P., et al., trustees. (See Stone, John S., assignor.)						
Browne, Arthur W., Princebay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental-engine wall-bracket.	696,545	Apr. 1	275	64	99	62
Browne, Arthur W., Princebay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental chair.	713,282	Nov. 11	1595	361	101	1239
Browne, David H., assignor to Canadian Copper Company, Cleveland, Ohio. Electrolytic separation of copper and nickel.	714,861	Dec. 2	435	93	101	1922
Browne, David H., Cleveland, Ohio, and J. M. Neil, Toronto, Canada. Recovering metallic tin.	704,675	July 15	2431	525	100	524
Browne, Frank L., et al. (See Dudley, Charles T., assignor.)						
Browne, John E. H. (See Allen and Browne.)						
Browne, Ralph C., and F. Balch, Salem, Mass., assignors, by mesne assignments, to said Browne. Preparing storage-battery plates.	716,663	Dec. 23	3939		101	2706
Browne, Richard B., Brooklyn, N. Y. Telescoping wicket for counter guard-walls.	696,546	Apr. 1	277	64	99	63
Browne, William G., Kingston, N. Y. Ice-pick.	690,829	Jan. 7	889	197	98	188
Browne, William G., Kingston, N. Y., assignor to W. G. Browne Manufacturing Company. Egg-beater. (Reissue)	12,026	Aug. 26	3898	876	100	1965
Brownell, Frank A., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic camera.	691,592	Jan. 21	2309	519	98	515
Brownell, Frank A., assignor to Eastman Kodak Company, Rochester, N. Y. Focusing device for photographic cameras.	692,610	Feb. 4	697	162	98	941
Brownell, Frank A., assignor to Eastman Kodak Company, Rochester, N. Y. Shutter for photographic cameras.	693,583	Feb. 18	2599	575	98	1379
Brownell, Frank A., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic camera.	698,901	Apr. 29	4794	1056	99	1084
Brownell, Frank A., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic camera.	713,596	Nov. 18	2208	490	101	1381
Brownell, Frank A., assignor of one-half to Eastman Kodak Company, Rochester, N. Y. Focusing device for cameras.	713,597	Nov. 18	2212	491	101	1382
Brownell, Willard H., Battlecreek, Mich. Eraser-tip for pencils.	699,743	May 13	1181	275	99	1429
Brownie Soap Company. (See Gottschalk, Louis, assignor.)						
Browning, Clarence P., Manhasset, N. Y. Color-printing.	698,255	Apr. 22	3504	775	99	792
Browning, Earl H., Cleveland, Ohio. Excavating and hoisting apparatus.	705,317	July 22	3807	823	100	820
Browning Engineering Company. (See Long, Timothy, assignor.)						
Browning, James C., Salt Point, N. Y. Manifold-copy book.	708,310	Sept. 2	581	131	100	2099
Browning, John G., Fairfield, Iowa. Roll-holding camera.	706,216	Aug. 5	407	87	100	1199
Browning, John M., Ogden, Utah. Recoil-operated firearm.	701,288	June 3	18	4	99	2112
Browning, John M., Ogden, Utah. Sight for firearms.	701,289	June 3	21	5	99	2113
Browning, John M., Ogden, Utah. Automatic firearm.	708,794	Sept. 9	1455	332	100	2292
Browning, John M., Ogden, Utah. Magazine-gun.	710,094	Sept. 30	4074	919	100	2879
Browning, Lida M., Bloomington, Ill. Shirt and shirt-waist fastener.	711,096	Oct. 14	1342	292	101	292
Browning, Victor R., Cleveland, Ohio. Rivet heating and distributing system.	706,155	Aug. 5	303	64, 65	100	1179
Browning, Victor R., Cleveland, Ohio. Mechanism for unloading vehicles.	711,714	Oct. 21	2532	556	101	558
Browning, Walter J. (See Hannes, William F., assignor.)						
Browning, William B., assignor of one-half to F. Heywood, Minneapolis, Minn. Machine for cutting blanks for paper or strawboard boxes.	694,725	Mar. 4	744	164	98	1869
Bruce, Egg, John J., and J. E. Norstrom, assignors to themselves, J. E. Norling, F. A. Lundquist, Chicago, and P. O. Norling, Galva, Ill. Automatic telephone system.	696,161	Mar. 25	3447	773	98	2480
Brownwell, Lawrence H., Brewster, N. Y. Machine for cleaning bricks.	698,627	Apr. 29	4197	927	99	949
Brownwell, Lawrence H., Brewster, N. Y. Axle-nut wrench.	701,144	May 27	3947	908	99	2041
Brubaker, Andrew, Ashland, Ohio. Chair.	715,346	Dec. 9	1332	287	101	2128
Bruce, Lucien F., Springfield, Mass. Magazine for firearms.	708,311	Sept. 2	582	132	100	2100
Bruce, Reubens, Columbia, Va. Suspended carrier.	706,521	Aug. 12	1032	227	100	1339
Brück, Friedrich, Ruhla, Germany. Automatic shutter-operating device for photographic cameras.	703,893	July 1	965	210	100	193
Brucker, Ernst, Rochester, N. Y. Rotary wheel-harrow.	705,557	July 29	4351	941	100	941
Brucker, Francis. (See Stump and Brucker.)						
Bruckman, John. (See McFarland, James D., Jr., assignor.)						
Bruckman, Salomon, Crefeld, Germany. Meat press.	705,642	July 29	4498	976	100	970
Bruck, George, New York, N. Y. Radiant-heat bath.	709,626	Sept. 23	3274	733	100	2701
Bruckner, Clemens O., Fort Wayne, Ind. Purifying water.	692,979	Feb. 11	1413		98	1115
Brueggeman, Frank, assignor of one-half to J. A. Radford, Chicago, Ill. Electric fuse.	711,150	Oct. 14	1440	312	101	314
Bruff, Wilbur C. (See Reagan, Edgar, assignor.)						
Bruger, Theodor, assignor to Hartmann & Braun, Actiengesellschaft, Frankfurt-on-the-Main, Germany. Electric meter.	695,143	Mar. 11	1553	344	98	2058
Brugerolles, Elie, Brassac-les-Mines, France. Paper-holder.	704,734	July 15	2537	548	100	546



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Brüggemann, August, Breslau, assignor to Deutsche Waffen-und Munitionsfabriken, Karlsruhe in Baden, Germany. Air-brake system.....	694,525	Mar. 4	368	81	98	1791
Brumfield, Charles W. (See Higgins, Benjamin F., assignor.)						
Brun, Camille and G., St. Etienne, France. Welf-replenishing mechanism for looms.....	691,043	Jan. 14	1283	291	98	283
Brun, Camille, and G., St. Etienne, France, and J. Bicking, assignors to Société Alsacienne de Constructions Mécaniques, Mulhouse, Germany, and Société Anonyme des Tissages Cile, Brun et Fils, St. Etienne, France. Shuttle-exchanging device for looms.	714,665	Dec. 2	19	4	101	1840
Brun, Gustave. (See Brun, Camille and G.)						
Brun, Gustave. (See Brun and Bicking.)						
Brun, Samuel J., et al. (See Choje, Thomas, assignor.)						
Brunau, Sven, Köping, Sweden. Joint-tightening device.....	715,012	Dec. 2	718	152	101	1981
Brunau, Sven, Köping, Sweden, assignor to De Laval Steam Turbine Company. Electric pumping-engine.....						
Brundage, Edwin L., East Orange, N. J. Horse-collar.....	701,536	June 8	455	102	99	2202
Bruneau, Raphael, Oron, France. Windmill.....	699,143	May 6	31	9	99	1182
Bruner, Martin, Buckland, Ohio. Running-gear for vehicles.....	704,507	July 15	244	109	100	463
Bruner, Martin, Buckland, Ohio. Shocking attachment for wagons.....	690,923	Jan. 14	1050	236	98	236
Bruner, Martin, Buckland, Ohio. Self-lubricating axle.....	694,726	Mar. 4	747	166	98	1870
Bruner, Martin, Buckland, Ohio. Self-lubricating axle.....	697,068	Apr. 8	1313	290	99	298
Bruner, Preston M., Lebanon, Ill. Illuminated area-spanning pavement.....	693,585	Feb. 18	2604	576	98	1380
Bruner, William H. (See Lloyd, Edwin L., assignor.)						
Brunger, Charles H., Geneseo, Ill. Straw-stacker.....	716,374	Dec. 23	3353	793	101	2581
Bruning, Rudolph, New York, N. Y. Window-guard.....	696,223	Mar. 25	3502	798	98	2502
Brunnemer, William T. M., Bradley, Ill. Wheel.....	704,234	July 8	1020	351	100	339
Brunnemer, William T. M., Bradley, assignor to David Bradley Manufacturing Company, Chicago, Ill. Seeding-machine.....	693,584	Feb. 18	2602	575	98	1380
Brunner, Charles A., Levallois-Perret, France. Distributing device for steam or air engines.....	716,664	Dec. 23	3940	861	101	2706
Brunner, Danton O., Somerset, Ohio. Rail-joint.....	712,255	Oct. 28	3575	782	101	787
Brunner, Jacob, and H. J. Root, Shelbyville Ind. Furniture-coupling.....	702,623	June 17	2446	557	99	2648
Brunner, John N., St. Paul, Minn. Hat-fastener.....	698,443	Apr. 29	3841	847	99	877
Brunner, John N., Merriam Park, Minn. Car-seal.....	707,083	Aug. 19	2074	463	100	1574
Bruns, Henry, St. Louis, Mo. Uncoupling device.....	705,735	July 29	4686	1014	100	1007
Brusen, Edward W., et al. (See Howard, Edward J., assignor.)						
Brunswick-Balke-Collender Company. (See Bensingher, Moses, assignor.)						
Brunswick-Balke-Collender Company. (See Matthes, Julius H., assignor.)						
Brunswick-Balke-Collender Company. (See Riddell, Paris J., assignor.)						
Brunton, David W., Denver, Colo. Mine-timber.....	692,111	Jan. 28	3289	744 745	98	732
Brunton, George W., Springfield, Ohio. Corn-planter.....	700,731	May 27	3169	721 722	99	1878
Brush, Alanson P., Detroit, Mich. Valve for gas or gasoline engines.....	710,840	Oct. 7	848	185	101	173
Brush, Frederick F., New York, N. Y., assignor to N. A. Christensen, Milwaukee, Wis. Controlling apparatus for electric motors.....	710,841	Oct. 7	851	185	101	173
Brush, Jerome, and A. H. Thayer, Dublin, N. H. Treating the outsidess of ships, &c., for making them less visible.....	692,779	Feb. 4	987	224	98	999
Brush, John T. (See Cox, Henry G., assignor.)						
Brush, Otis B. (See Borton and Brush.)						
Brushaber, Louis E. C., Brooklyn, N. Y. Apparatus for consuming smoke.....	697,069	Apr. 8	1314	290	99	298
Brust, Edward, Davisville, Cal. Portable hay-loading derrick.....	708,199	Sept. 2	384	89	100	2060
Bruun, Julius, and P. Stricker, Copenhagen, Denmark. System of obtaining power from volatile liquids.....	695,859	Mar. 18	2836	644	98	2339
Bruyn, Jacobus de. (Martinus Gerardus Zoon.) Lausanne, Switzerland. Apparatus for comparing handwritings or other objects.....	706,297	Aug. 5	595	129	100	1235
Bruzek, Albert, Chicago, Ill. Automatic siphon-pump.....	709,062	Sept. 23	3213	717	100	2688
Bry, Louis, et al. (See Pickles, Charles K., assignor.)						
Bryan, Bernard W., Buckhurst Hill, England. Planimeter.....	700,732	May 27	3174	722 723	99	1879
Bryan, Clarence H., assignor of one-half to J. Webster, Chicago, Ill. Rubber tire.....	692,980	Feb. 11	1414	307	98	1116
Bryan, Dempsey T., Rockymount, N. C. Back-band buckle.....	694,727	Mar. 4	749	167	98	1870
Bryan, Edgar J., assignor of one-half to A. W. Miller, Riverside, Cal. Hand-truck.....	714,140	Nov. 25	3250	717	101	1621
Bryan, George F., assignor to E. E. McMorran and F. Gerlach, trustee, Chicago, Ill. Gas-fixture.....	699,650	May 13	1009	234	99	1397
Bryan, Guy, St. Louis, Mo. Combined metallurgic furnace and precipitating water-tank.....	741,281	Oct. 14	1704	368	101	368
Bryan, Henry, Modesto, Cal. Gang-plow.....	696,389	Mar. 25	3933	871	98	2577
Bryan, Henry, Modesto, Cal. Plow.....	708,312	Sept. 2	583	132	100	2100
Bryan, John C., Augusta, Ga. Shuttle-check for looms.....	699,445	May 6	804	188	99	1300
Bryan, John H., Baltimore, Md. Expandible mandrel or chuck.....	714,448	Nov. 25	3860	853	101	1742
Bryan, Joseph P., Ogontz, Pa. Apparatus for displaying movable signs.....	715,752	Dec. 16	2094	469 470	101	2303
Bryan, Joseph P., assignor to J. H. Radcliffe, St. Michaels, Md. Addressing attachment for printing-presses.....	706,720	Aug. 12	1380	307 308	100	1414
Bryan, Lindsay M., Cincinnati, Ohio. Fountain-pen.....	692,049	Jan. 28	3179	717	98	709
Bryan, Lindsay M., Cincinnati, Ohio. Bosom-pad for shirts.....	693,226	Feb. 11	1919	417	98	1218
Bryan-Marsh Company. (See Doane, Samuel E., assignor.)						
Bryan, Oscar. (See Viles, Joseph T., assignor.)						
Bryan, Simpson S., Brooklyn, N. Y. Bookkeeper's stool.....	691,931	Jan. 28	2956	665	98	667
Bryan, Thomas A., et al. (See Hoerichs, Edward, assignor.)						
Bryan, William W. (See Lee and Bryan.)						
Bryant, Abner H. (See Pfautz, Daniel M., assignor.)						
Bryant, Anzio B., Kingston, Canada. Carriage-gear.....	693,586	Feb. 18	2607	576	98	1381
Bryant, Charles A., Wakefield, Mass., assignor to Consolidated Safety Pin Company, Bloomfield, N. J. Clasp.....	702,771	June 17	2723	625	99	2707
Bryant, Charles A., Wakefield, Mass., assignor to Consolidated Safety Pin Company, Bloomfield, N. J. Clasp.....	706,522	Aug. 12	1034	228	100	1339
Bryant, Edward W., assignor of one-half to J. J. Corell, New York, N. Y. Box-wrap-ping machine.....	708,459	Sept. 2	827	187 188 189 190	100	2149
Bryant Electric Company. (See Platt, Clarence D., assignor.)						
Bryant, Elwin C. (See Osborne and Bryant.)						
Bryant, Fred L. (See Morrison and Bryant.)						
Bryant, James. (See Bryant, John and J.)						
Bryant, John and J., Conneaut, Ohio. Pipe-vice.....	713,948	Nov. 18	2882	641	101	1524
Bryant, John M., Minneapolis, Minn., assignor of three-fourths to E. J. Newell, P. A. Barnard, Detroit, Mich., and J. L. Henry, Chicago, Ill. Thill-coupling.....	710,316	Sept. 30	4483	1012	100	2967

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Bryant, Reuben, <i>et al.</i> (See Tuttle, William C., assignor.)						
Bryant, William C. (See Schwarz and Bryant.)						
Bryant, William H., <i>et al.</i> (See Porter, Edwin F., assignor.)						
Bryant, William S., Cohasset, Mass. Wave-motor.	692,420	Feb. 4	345	85	98	871
Bryant, William S., Cohasset, Mass. Wave-motor.	693,369	Feb. 18	2184	480	98	1294
Bryce Brothers Company. (See Schaub, Henry, assignor.)						
Bryce, Ira M., <i>et al.</i> (See Culpepper, Robert S., assignor.)						
Bryda, Henry, Woonsocket, R. I. Lock.	707,757	Aug. 26	3416	769	100	1869
Brynildsen, H. L., <i>et al.</i> (See Dahlen, Andrew, assignor.)						
Bryson, David K., Pittsburg, Pa. Wave-power motor.	711,758	Oct. 21	2625	577 578	101	578
Bryson, Thomas M., Atlanta, Ga. Link-belt tire.	699,098	Apr. 29	5109	1130	99	1150
Bube, Hans, Bothfield, Germany. Calipers.	693,538	Feb. 18	2597	551	98	1361
Buch, Royer S., Elizabethtown, Pa. Land-roller.	713,598	Nov. 18	2214	492	101	1383
Buchanan, Frank S., Kansas City, Kans. Automatic hay-press.	691,827	Mar. 4	941	209	98	1912
Buchanan, George P., Allegheny, Pa. Keyboard for violins.	697,790	Apr. 15	2640	585	99	592
Buchanan, George W., Chicago, Ill. Button. (Reissue.)	12,020	Aug. 19	2905	658	100	1749
Buchanan, Greenlee D., Jacksonville, Fla. Compressed-air water-elevator.	695,632	Mar. 18	2439	551	98	2258
Buchanan, James, New York, N. Y., assignor of one-half to J. B. Conover, Freehold, N. J. Incandescent gas-burner.	708,860	Sept. 9	1600	366	100	2322
Buchanan, James, New York, N. Y., assignor of one-half to J. B. Conover, Freehold, N. J. Incandescent gas-burner.	708,861	Sept. 9	1601	366	100	2322
Buchanan, John D., Oakwood, Ill. Conveyer.	716,375	Dec. 23	3356	733 734	101	2581
Buchanan, Joseph W. (See Randall, James D., assignor.)						
Buchanan, Judson, Chattanooga, Tenn., assignor to Chattanooga Plow Co. Wheel-plow.	695,906	Mar. 25	2931	663	98	2373
Buchanan, Judson, Chattanooga, Tenn., assignor to Chattanooga Plow Co. Plow.	703,122	Sept. 2	222	53	100	2027
Buchanan, William A., Asheville, assignor of five-sixths to S. W. Battle, L. M. Bourne, and B. L. Price, Buncombe county, N. C. Thill-coupling.	714,634	Nov. 25	4202	929	101	1811
Buchner, Hans T. (See Schraube and Bucherer.)	705,377	July 22	3947	855	100	817
Bucher, Peter, Mannheim, Germany. Acetylene-gas-generating apparatus.	700,405	May 20	2540	581	99	1728
Bucher, Hans T. (See Schraube, Schleicher, and Bucherer.)						
Buchholz, George J. (See Lingle, George W., assignor.)						
Buchner, Max, Mannheim, Germany. Reduction of azo compounds.	700,671	May 20	3011	-----	99	1829
Buchner, Max, Mannheim, Germany. Reduction of nitro compounds.	700,672	May 20	3013	-----	99	1829
Buchner, Max, Mannheim, Germany. Manufacture of ceramic products.	700,673	May 20	3014	-----	99	1830
Buchner, Max, Mannheim, assignor to C. F. Boehringer & Soehne, Mannheim-Waldhof, Germany. Electrolytic reduction of nitro or other compounds.	700,670	May 20	3008	690	99	1829
Buchtel, Joseph, Portland, Ore. Fence-post.	709,300	Sept. 16	2489	560	100	2525
Buchtel, Joseph, Portland, Ore. Telegraph fire-hose.	710,246	Sept. 30	4371	982	100	2943
Buchtela, Wesley R., Marion, Iowa. Check-rod corn-planter.	703,532	July 1	280	64	100	57
Buck, Cornelius A., San Francisco, Cal. Snap-hook.	714,777	Dec. 2	246	49	101	1887
Buck, Enoch W. (See Schamp, George H., assignor.)						
Buck, Frank R., San Francisco, Cal. Combined dumb-bell, Indian club, and pulling or swinging bar.	708,313	Sept. 2	585	132	100	2100
Buck, Harold W., Schenectady, N. Y., assignor to General Electric Company. Magnetic clutch.	701,290	June 3	22	5	99	2113
Buck, Harold W., Schenectady, N. Y., assignor to General Electric Company. Exciting-dynamo.	712,041	Oct. 28	3183	696 697	101	710
Buck, Harold W., Schenectady, N. Y., assignor to General Electric Company. Rectifier.	713,284	Nov. 11	1601	363	101	1240
Buck, Harold W., Schenectady, N. Y., assignor to General Electric Company. System of electric distribution.	714,360	Nov. 25	3703	815 816	101	1712
Buck, Harold W., Niagara Falls, N. Y., assignor to General Electric Company. Exciting-dynamo.	712,451	Oct. 28	3939	862	101	865
Buck, Harold W., Niagara Falls, N. Y., assignor to General Electric Company. Rectifier.	713,555	Nov. 11	2125	470	101	1349
Buck, Harold W., Niagara Falls, N. Y., assignor to General Electric Company. Controlling electric motor.	714,862	Dec. 2	437	94	101	1922
Buck, Hiram M., and W. H. Strippy, Baltimore, Md. Arc-light hanger-board.	698,792	Apr. 29	4536	1003	99	1025
Buck, Niels. (See Olson, Charles J., assignor.)						
Buck, Sterling P., Front Royal, Va. Adjustable bushing.	700,014	May 13	1705	393	99	1539
Buck, William C., Peterborough, Canada. Eccentric-chain lift-pump.	696,624	Apr. 1	418	97	99	91
Buck, William H. (See Craig and Buck.)						
Buck, William T., Freehold, N. J. Stove-truck.	694,248	Feb. 25	3865	857	98	1654
Buckelew, Charles H., Plainfield, N. J. Pressure-reducing valve.	706,721	Aug. 12	1382	308	100	1415
Buckeye Iron and Brass Works. (See Hubbell, Joseph H., assignor.)						
Buckeye Malleable Iron and Coupler Co. (See Bush, Samuel P., assignor.)						
Buckeye Malleable Iron and Coupler Company. (See Timms, James, assignor.)						
Buckeye Manufacturing Company. (See Henneglin, Herbert H., assignor.)						
Buckeye Manufacturing Company. (See Lambert, John W., assignor.)						
Buckeye Safety Gas Valve Company. (See Malott and Tuggle, assignors.)						
Buckham, George T. (See Dawson and Buckham.)						
Buckingham, George F., London, England. Apparatus for manufacturing blocks of ice.	695,907	Mar. 25	2933	664	98	2374
Buckland, Seth J., Springfield, Mass. Take-up device for trolley-cords.	692,421	Feb. 4	346	85, 86	98	871
Buckland, Seth J., Springfield, Mass. Water shed or deflector for trolley poles and ropes.	692,422	Feb. 4	351	86	98	872
Buckley-Hart Manufacturing Company. (See Anderson, William C., assignor.)						
Buckley, James F., Dartford, assignor to Company of Allen and Hanburys, Limited, London, England. Molding-press.	702,183	June 10	1633	365	99	2462
Buckley, James P., Detroit, Mich. Manufacture of bent tubing.	702,125	June 10	1521	343	99	2440
Buckley, John D., and E. H. Phinney, Brunswick, Me. Acetylene-gas generator.	702,772	June 17	2725	626 627	99	2707
Buckley, John D., and E. H. Phinney, assignors of part to J. D. Buckley, J. W. and G. L. Chase, Brunswick, Me. Trolley-pole base.	691,236	Jan. 14	1617	369	98	352
Buckley, Louis H. (See Cather and Buckley.)						
Buckley, Minnie E., St. Louis, Mo. Combination nether garment.	709,200	Sept. 16	2295	521	100	2483
Buckley, Thomas J., and F. E. Place, Chicago, Ill. Pressure-regulator.	697,702	Apr. 15	2464	549	99	559
Bucklin, Charles S., Baltimore, Md. Can-steaming machine.	697,322	Apr. 8	1743	385	99	391
Buckman, George, Burlington, N. J. Machine for making cushions.	702,340	June 10	1897	433	99	2513
Buckman, John, St. Cloud, Minn. Hot-air register.	705,202	July 22	3538	767	100	767
Bucknam, Ezra S. (See Brill and Bucknam.)						
Bucknam, Ezra S., assignor to J. A. Brill, Philadelphia, Pa. Convertible railway-car.	709,075	Sept. 16	2041	466	100	2430
Bucknam, Ezra S., assignor to J. A. Brill, Philadelphia, Pa. Convertible railway-car.	709,076	Sept. 16	2043	466 467	100	2430
Buckstaff Edwards Co. (See Koeser, Carl D., assignor.)						
Buckwalter, John R., Kinzers, Pa. Straw-stacker.	698,793	Apr. 29	4537	1004	99	1026



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Bucyrus Company. (See Stetson, Adelbert B., assignor.)						
Budach, Gustav F., Flensburg, Germany. Smith's pliers or tongs.	694,888	Mar. 4	948	209	98	1912
Budd, Charles D., St. Louis, Mo. Conduit.	698,902	Apr. 29	4796	1056	99	1085
Budd, Melvin L. (See Budd, Otis W. and M. L.)						
Budd, Otis W. and M. L., Westerville, Ohio. Flow	694,249	Feb. 25	3866	887	98	1654
Budde, William H., Jr. (See Prouty and Budd.)						
Budde, August, assignor to Firm of P. Holzrichter, Radevormwald, Germany. Screw-nut-locking device	716,860	Dec. 30	4412	956	101	2833
Buder, Theodore C., St. Louis, Mo. Trolley-pole	713,599	Nov. 18	2215	492	101	1383
Buder, Theodore C., St. Louis, Mo. Trolley-pole	716,376	Dec. 23	3359	734	101	2582
Budke, Conrad, Jr., St. Louis, Mo. Electric signal	692,423	Feb. 4	352	86	98	872
Budke, John F., Canonsburg, Pa. Crate for rolls	693,104	Feb. 11	1647	359	98	1163
Budweiser, Bernhard, Chicago, Ill. Display-box	690,663	Sept. 23	3214	717	100	2688
Buechner, Frank A., assignor to Buechner Manufacturing Company, Battlecreek, Mich. Picture-frame	696,985	Apr. 8	1063	235	99	246
Buechner Manufacturing Company. (See Buechner, Frank A., assignor.)						
Buek, Charles E. (See Geer, George, assignor.)						
Buell, Charles E., North Plainfield, N. J. Explosive fire-alarm	698,229	Feb. 11	1924	418	98	1219
Buell, Charles E., Camden, N. J. Combined telephone and telegraph system	716,186	Dec. 16	2905	101	2494	
Buell, Warren C., assignor to E. C. Atkins & Company, Indianapolis, Ind. Handsaw	691,337	Jan. 14	1618	369	98	353
Buell, William E. (See Passmore, Charles L., assignor.)						
Buellesbach, Joseph. (See Braun, Louis, assignor.)						
Buente, Charles F., Allegheny, Pa. Tile-floor construction	713,743	Nov. 18	2477	552	101	1440
Buerkle, August, Allegheny, Pa. Valve mechanism for water-heaters	707,758	Aug. 26	3418	770	100	1869
Buesser, Fredrick, Guttenberg, N. J. Caster	716,807	Dec. 23	4197	919	101	2758
Buetner, Richard C., Chicago, Ill. Mace, New York, N. Y. Pocket-spittoon	700,733	May 27	3177	723	99	1880
Bufe, Alfred. (See Rohleder, Robert, assignor.)						
Buffalo Manufacturing Company. (See Mast, William J. D., assignor.)						
Buffalo Pitts Company. (See Todd, Marquis J., assignor.)						
Buffalo Pitts Company. (See Vraalst, Edward J., assignor.)						
Bufford, George W., assignor to J. H. Williams and Company, Brooklyn, N. Y. Pipe-wrench	697,977	Apr. 22	2957	652	99	678
Bufford, George W., assignor to J. H. Williams and Company, Brooklyn, N. Y. Chain wrench	698,794	Apr. 29	4539	1004	99	1026
Buffum, Evelyn, Chicago, Ill. Spool-stand	710,095	Sept. 30	4076	919	100	2879
Buffum, Herbert H., Abington, Mass. Engine	693,782	Feb. 18	2958	652	98	1454
Buffum, Herbert H., Abington, Mass. Cooler	703,177	June 24	3505	806	99	2880
Bugbee, A., et al. (See Hughes, Thomas W., assignor.)						
Bugz, Herbert L., Walnutridge, Ark. Acetylene-gas generator	705,902	July 29	4970	1082	100	1066
Bugg, Owen T., Jr., assignor to United States Battery Company, New York, N. Y. Electrical storage battery	695,707	Mar. 18	2560	579	98	2881
Bülgel, Wilhelm, Stuttgart, Germany. Apparatus for manufacturing artificial stone	716,861	Dec. 30	4414	956	101	2833
Buhl, William H. (See Modlin and Buhl.)						
Buhlmann, Georg, Berlin, Germany. Manufacturing incandescent mantles	698,102	Apr. 22	3206	702	99	730
Buhoup, Harry C., Chicago, Ill. Car-bolster	702,701	June 17	2586	595	99	2678
Buhoup, Harry C., Chicago, Ill. Car-bolster	703,379	July 1	29	6	100	8
Buhoup, Harry C., Chicago, Ill. Friction draft-gear	713,392	Nov. 11	1808	406	101	1285
Buhrer, Casper, Sandusky, Ohio. Metallic railway-tie	702,400	June 17	2013	459	99	2558
Bukoutz, Melvin, Lamolite, Ill. Telescopic traveling-bag	712,702	Nov. 4	541	135	101	1009
Bulkey, Eugene M., executor. (See Taylor, James S.)						
Bull, Edward E., Whitwell, Tenn. Hame-fastener	712,903	Nov. 4	831	193	101	1067
Bullard, Albert M., Somerville, Mass., assignor to American Bell Telephone Company. Automatic telephone-exchange	709,739	Sept. 23	3341	753	100	2715
Bullard, Albert M., Somerville, and M. C. Rorty, Dedham, assignors to American Bell Telephone Company, Boston, Mass. Automatic telephone-exchange system and apparatus	709,740	Sept. 23	3351	754	100	2716
Bullard, Edgar R., Springfield, Mass. Camera	698,628	Apr. 29	4198	927	99	949
Bullard, James H., Springfield, assignor to Overman Automobile Company, Chicopee, Mass. Flue construction for steam-carriages	708,460	Sept. 2	832	190	100	2150
Bullard, James H., Springfield, assignor to Overman Automobile Company, Chicopee, Mass. Quantity-indicating device	713,847	Nov. 18	2668	595	101	1478
Bullard, James H., Springfield, assignor to Overman Automobile Company, Chicopee, Mass. Air-compressing device	713,848	Nov. 18	2669	595	101	1478
Bullard, James H., Springfield, assignor to Overman Automobile Company, Chicopee, Mass. Vapor-burner	713,849	Nov. 18	2670	595	101	1479
Bullard, Lewis H. (See Chambers and Bullard.)						
Bullard, Lewis H., and A. E. Chambers, assignors to Michigan Steel Boat Company. Detroit, Mich. Oar-lock	711,469	Oct. 21	2063	446	101	457
Bullard, Royal M., Chicago, Ill., assignor to Wyckoff, Seamans & Benedict. Ilion, N. Y. Type-writing machine	708,987	July 8	1145	249	100	243
Bullard, William L. (See Penty and Bullard.)						
Buller, Jacob W., Jansen, Neb. Traction-engine coupling	713,393	Nov. 11	1810	407	101	1285
Bulloch, Joseph G., Cherokee, N. C. Lemon-squeezer	703,388	July 8	1151	250	100	244
Bullock, George H., Wakefield, R. I. Table	705,903	July 29	4972	1082	100	1066
Bullock, William A. (See Macbeth, Frank D., assignor.)						
Bullock, John S., Highwood, Ill. Device for adjusting printing-rollers	710,747	Oct. 7	671	140	101	136
Bulmer, George D., Duquesne, Pa. Merry-go-round	703,761	July 1	711	157	100	142
Bumberger, Clarence R., assignor to himself, G. W. Johnson, and Beardsley, Gregory and Kirshner, Kansas City, Mo. Apparatus for automatically operating fire-doors	712,256	Oct. 28	3577	782	101	787
Bunce, Earl M., Bronson, Mich. Fence-post	693,947	Feb. 25	3294	725	98	1539
Bunce, Earl M., Collingwood, Ohio. Railway-tie	708,521	Sept. 9	948	215	100	2185
Bunce, Earl M., Collingwood, Ohio. Railway-tie	708,522	Sept. 9	949	215	100	2185
Bundy, Clifton L., Philadelphia, Pa., assignor to Philadelphia Electrical and Manufacturing Company. Electric-arc lamp	707,383	Aug. 19	2634	595	100	1692
Bundy, Edward W. (See Rawdon and Bundy.)						
Bundy, John J., San Antonio, Tex. Auger	698,444	Apr. 29	3842	847	99	878
Bundy, Willard H., Binghamton, N. Y. Workman's time-recorder	695,198	Mar. 11	1632	362	98	2074
Bunker, Hollis P. (See Black and Bunker.)						
Bunn, W. T. (See Bunn, William D., assignor.)						
Bunn, William D., assignor of one-half to W. T. Bunn, Newbern, Tenn. Combined trace-holder and detaching means	699,060	Apr. 29	5111	1130	99	1150

## Alphabetical list of patentees—Continued.

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Bunné, Agnes. (See Bunné, Alfred C., assignor.)						
Bunné, Alfred C., assignor of one-half to A. Bunné, New York, N. Y. Signal-lantern	716,332	Dec. 16	3262	713	101	2548
Burdett, Morton G., assignor to F. C. Austin, Chicago, Ill. Crushing-machine	691,593	Jan. 21	2312	520	98	516
Bunnell, Morton G., assignor to F. C. Austin Manufacturing Company, Chicago, Ill. Street-sprinkler valve	709,960	Sept. 30	3820	860	100	2826
Bunte, John. (See Scrimgeour and Bunte.)						
Bunting, William, Jr., Brookline, Mass. Water-closet	702,536	June 17	2375	518	99	2614
Bunting, William, Jr., Brookline, Mass. Self-closing faucet	710,945	Oct. 14	1030	229	101	236
Bunzl, Ernest, et al. (See Kuhn, Edmond, assignor.)						
Bunzl, Gustav, et al. (See Kuhn, Edmond, assignor.)						
Buoker, Daniel A., West Peabody, Mass. Knitting-machine	705,203	July 22	3540	767	100	708
Burbank, Louis S., Worcester, Mass. Rhythmic rattle	705,819	July 29	4825	1048	100	1086
Burcey, Charles J., T., Syracuse, N. Y. Apparatus for manufacturing charcoal	701,145	May 27	3948	909	99	2041
Burch, Charles J., assignor of one-half to F. R. Lancaster and J. H. Knauer, Lena, Ind. Singletree-clip	706,897	Aug. 12	1745	389	100	1491
Burchartz & Co., M. C. (See Rösigen, Heinrich, assignor.)						
Burchinal, Charles H. (See Wilkinson and Burchinal.)						
Burden, Oscar H., assignor of one-half to T. F. Adams, Kaslo, British Columbia, Canada. Latch	708,862	Sept. 9	1604	366	100	2323
Burden, William H., Wilkinson, Pa. Device for delivering and igniting matches	695,789	Mar. 18	2706	615	98	2312
Burdett, Everett W., et al., administrators. (See Gilbert, Frederick A.)						
Burdett-Rowntree Manufacturing Company. (See Rowntree, Harold, assignor.)						
Burdick, Albert C., Portland, Oreg. Floating fish-trap	711,820	Oct. 21	2745	607	101	602
Burdick, Justin H., Milton, Wis. Air-compressing apparatus	692,424	Feb. 4	353	87	98	873
Burdick, Leo J., Sturgis, Mich. Cyclometer and register mechanism	695,536	Mar. 18	2243	506	98	2218
Burdick, Leo J., Sturgis, Mich. Box	696,096	Apr. 8	1066	230	99	247
Burdick, Leo J., Sturgis, Mich. Registering mechanism	698,629	Apr. 29	4201	928	99	950
Burdick, Norman, Albany, N. Y. Damper for stoves, ranges, &c.	711,653	Oct. 21	2410	531	101	581
Burdickt, Orrin C., and B. C. Candee, Buffalo, N. Y.; said Candee assignor to said Burdickt. Mechanical movement for nut-making or other machinery	707,202	Aug. 19	2302	515	100	1624
Burdon, David P., assignor of one-half to W. and W. F. Clarke, Jacksonville, Fla. Liquid-elevating system	693,813	Feb. 18	3014	666	98	1465
Burel, Valentin C., G. Randon, and G. Remy, Havre, France. Apparatus for torrefying coffee	698,445	Apr. 29	3844	847	99	878
Buren, Alvan B., Salem, Oreg. Burial-vault	700,734	May 27	3177	724	99	1880
Burfeind, Joachim H. (See Neill and Burfeind.)						
Burfeind, Joachim H. (See Officer, Neill, and Burfeind.)						
Burgard, Lillian A., San Francisco, Cal. Combined skirt and drawers	700,477	May 20	2678	613	99	1757
Burgart, Philip H., Payne, Ohio. Safety-elevator	710,032	Sept. 30	3957	892	100	2855
Burge, John, and S. B. Cornell, Smithfield, W. Va. Car-coupling	699,489	May 6	685	159	99	1318
Burger, Edward. (See Swisher and Burger.)						
Burger, Franz. (See Williams, Henry M., assignor.)						
Burger, Franz, assignor of three-fourths to H. M. Williams, Fort Wayne, Ind. Compensating gear-wheel for motor-cars	692,177	Jan. 28	3897	769	98	754
Burger, Franz, assignor of three-fourths to H. M. Williams, Fort Wayne, Ind. Electric igniter for gas-engines	694,250	Feb. 25	3867	857	98	1654
Burger, Franz, assignor of three-fourths to H. M. Williams, Fort Wayne, Ind. Swivel-truck for vehicles	708,523	Sept. 9	950	215	100	2185
Burger, Franz, assignor to himself and H. M. Williams, Fort Wayne, Ind. Grate	693,828	Feb. 25	3057	674	98	1493
Burger, Franz, and H. M. Williams, Fort Wayne, Ind.; said Burger assignor of one-half to said Williams. Steam-boiler	691,044	Jan. 14	1285	292	98	283
Burger, Franz, and H. M. Williams, Fort Wayne, Ind.; said Burger assignor of one-half to said Williams. Fuel-feeding mechanism for furnaces	693,829	Feb. 25	3059	675	98	1493
Burger, Franz, and H. M. Williams, Fort Wayne, Ind.; said Burger assignor of one-half of his right to said Williams. Vertical-tube steam-boiler	696,714	Apr. 1	607	136	99	132
Burger, Franz, and H. M. Williams, Fort Wayne, Ind.; said Burger assignor of one-half to said Williams. Grate-bar for forced-blast furnaces	696,937	Apr. 8	1067	236	99	247
Burger, Franz, and H. M. Williams, Fort Wayne, Ind.; said Burger assignor of one-half to said Williams. Heating apparatus	706,796	Aug. 12	1551	347	100	1450
Burger, Franz, and H. M. Williams, Fort Wayne, Ind.; said Burger assignor of one-half to said Williams. Rail-joint	715,241	Dec. 9	1185	243	101	2085
Burger, Jacob, and C. C. Kemp, Randall, Kans. Rain-water strainer and filter	693,493	Feb. 18	2417	528	98	1343
Burger, Victor A. (See Swisher and Burger.)						
Burgers, Franz, Bulmke, Germany. Profile-tool for making pipe-molds	705,373	July 22	3948	855	100	848
Burgess, Andrew, Owego, N. Y. Automatic gun	693,105	Feb. 11	1649	360	98	1164
Burgess, Andrew, Owego, N. Y. Automatic gun	693,106	Feb. 11	1653	360	98	1164
Burgess, Charles. (See Schofield, Robert, assignor.)						
Burgess, George E., Buffalo, N. Y. Car-brake mechanism	710,571	Dec. 16	2551	563	101	2400
Burgess, Harry A., Goodland, Ind. Grain elevator and dump	704,503	July 15	2142	464	100	464
Burgess, James C., assignor of one-half to H. H. Newby, Sheridan, Ind. Cold-iron punch	713,394	Nov. 11	1312	407	101	1236
Burgess, James C., Brighton, Canada, assignor to H. R. Hoover, Zionsville, Ind. Cold-iron shears	691,932	Jan. 28	2957	666	98	667
Burgess, James C., Brighton, Canada, assignor to H. R. Hoover, Zionsville, Ind. Adjustable socket-wrench	714,361	Nov. 25	3706	816	101	1713
Burgess, John A., Bradford, Canada. Purifying acetylene gas	715,014	Dec. 2	720	153	101	1981
Burgess Sulphite Fibre Company. (See Burgess, Theodore P., assignor.)						
Burgess, Theodore P., Berlin, N. H., assignor to Burgess Sulphite Fibre Company, Boston, Mass. Apparatus for separating clean from refuse chips in the manufacture of wood-pulp	701,995	June 10	1240	293	99	2389
Burgess, Thomas F., Denver, Colo. Combined picture-exhibitor and phonograph	693,684	Feb. 18	2790	614	98	1419
Burgett, John W., Guttentberg, N. J. Suspenders	698,369	Apr. 22	3696	816	99	851
Burgin, Welby W., Richmond, Ky. Chip-blowing attachment for dental engines	705,205	July 22	3546	788	100	769
Burgen and Ball. (See Eyres, William H., assignor.)						
Burgum, John, Rio Janeiro, Brazil. Flushing apparatus	694,532	Mar. 4	369	81	98	1791
Burgum, John, Rio Janeiro, Brazil. Steam-turbine. (Reissue)	692,611	Feb. 4	702	162	98	943
Burk, Ambros, Columbia City, Ind. Neck-yoke	11,999	June 10	1984	452	99	2533
Burk, Charles M., Philadelphia, Pa. Abdominal corset	708,019	Sept. 2	31	7	100	1957
Burk, Edward. (See Swift and Burk.)						
Burk, Michael F. (See Kenison, Burk, and Perkins.)						
Bürk, Richard, Schwenningen, Germany. Ribbon-feeding mechanism	712,646	Nov. 4	350	81	101	971
	715,456	Dec. 9	1526	331	101	2166



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Burkart, Wilhelm, Plauen, Germany. Barrel-hoop-driving machine	710,421	Oct. 7	42	10	101	11
Burke, Alfred, <i>et al.</i> (See Neubauer, Carl E., assignor.)						
Burke, Charles G., Brooklyn, N. Y., assignor of one-half to J. Q. A. Whittemore, Boston, Mass. Telephone system	701,794	June 3	914	204	99	2299
Burke, Charles G., Brooklyn, N. Y., assignor of one-half to J. Q. A. Whittemore, Boston, Mass. Telephone system	713,744	Nov. 18	2478	552	101	1440
Burke, Eugene, Lakeview, Oreg. Pencil-sharpener	697,323	Apr. 8	1744	389	99	391
Burke, James, Minneapolis, Minn. Pipe-coupling	696,380	Feb. 25	3061	675	98	1493
Burke, James, Berlin, Germany. Dynamo-electric machine	706,017	Aug. 5	22	5	100	1121
Burke, James, Berlin, Germany. Armature for dynamo-electric machines	712,257	Oct. 28	3581	783	101	788
Burke, James J., Hartford, Conn. Screw-cutting tool	699,446	May 6	605	138	99	1300
Burke, John T. (See Patterson and Burke.)						
Burke, Robert E., Anderson, Ind., assignor to M. B. Wilson, Chicago, Ill. Road-grading machine	706,382	Aug. 5	760	166	100	1268
Burke, Stephen E., Edon, Ohio. Windmill	695,443	Mar. 18	3070	467	98	2183
Burke, Thomas C. (See Weed, Elisha L., assignor.)						
Burket, Henry K., Omaha, Nebr. Burial-robe	702,773	June 17	2738	636	99	2708
Burkey, David H., Allegheny, Pa. Weather-strip	693,230	Feb. 11	1926	419	98	1220
Burkhart, Charles L., assignor of one-half to J. W. McLaughlin, Dayton, Wash. Hydrant	713,351	Nov. 18	2888	642	101	1525
Burkhart, Edward G. (See Risner and Burkhart.)						
Burkholder, Jacob C., Harrisburg, Pa. Cigar-case	712,647	Nov. 4	352	81	101	971
Burland, Edward G., Watsonville, Cal. Canopy	706,722	Aug. 12	1885	308	100	1415
Burleson, Andrew M., Kansas City, Kans. Pork-joining machine	692,824	Feb. 11	1078	242	98	1045
Burley, Josiah, Baltimore, Md. Curtain-fixture	702,537	June 17	2277	518	99	2614
Burley, Thomas S. (See Van Laven, Thomas F., assignor.)						
Burlingham, Charles L., assignor to McDermaid Manufacturing Company, Chicago, Ill. Electric bell	710,946	Oct. 14	1032	229	101	226
Burmeister, Eduard. (See Tralls, Leberecht, assignor.)						
Burner, William L., assignor to Case Manufacturing Company, Columbus, Ohio. Hominy, meal, and grits drier	707,384	Aug. 19	2637	595	100	1693
Burnett, Hugh, Victoria, Canada. Bicycle-support	693,370	Feb. 18	2165	490	98	1295
Burnett, Alfred E., Jr. (See Merrie and Burnett.)						
Burnett, Alfred E., Jr., Cincinnati, Ohio. Water-pressure regulator	711,282	Oct. 14	1707	368	101	369
Burnett, Cuthbert, Grange, near Durham, England. Apparatus for washing coal, coke, &c.	700,735	May 27	3178	724	99	1890
Burnett, Frank P., San Carlos, Ariz. Ter. Nut and bolt threading machine	717,337	Dec. 30	5323	1138	101	3026
Burnett, William S., and W. H. Goodall, Milwaukee, Wis. Multiplex telesig.	705,511	July 22	4194	913	100	896
Burnette, Jeremiah J. M., Spearfish, S. D. Neck-yoke	696,311	Mar. 25	3746	837	98	2541
Burnham, Arthur M., Gardiner, Me. Mop-yringer	699,073	Apr. 29	5073	1121	99	1142
Burnham, Arthur M., assignor of one-half to L. B. Libby, Gardiner, Me. Mail-bag	692,178	Jan. 28	3399	769	98	755
Burnham, Edward P., Albany, N. Y. Dumping-wagon box	713,054	Nov. 11	1112	256	101	1141
Burnham, Frederick A., <i>et al.</i> (See Hosford, Calvin R., assignor.)						
Burnham, Williams and Company. (See Collins, Thomas E., assignor.)						
Burnham, Williams and Company. (See Van Kirk, Benjamin R., assignor.)						
Burnham, Williams and Company. (See Vauclair, Samuel M., assignor.)						
Burnison, Fred, <i>et al.</i> (See Darwin, Frank L., assignor.)						
Burnison, John, <i>et al.</i> (See Darwin, Frank L., assignor.)						
Burns, Alexander B. (See Burns, David M. and A. B.)						
Burns, Allen D. (See Hyde and Burns.)						
Burns, Charles F., Kalamazoo, Mich. Vehicle running-gear	697,800	Apr. 15	2642	585	99	592
Burns, David M. and A. B., Greenbay, Wis. Boiler or water-heater	707,203	Aug. 19	2304	515	100	1624
Burns, Edith L., Norman, Okla. Ter. Curtain-bracket	698,795	Apr. 29	4540	1004	99	1026
Burns, Edward, Zeigler, Iowa. Draft-elevator	700,299	May 20	2324	530	99	1686
Burns, Edward, Zeigler, Iowa. Non-refillable bottle	707,759	Aug. 26	3419	770	100	1670
Burns, Edward A., Hartford, Conn. Contribution-box	697,221	Apr. 6	1585	354	99	355
Burns, Egbert R., Brooklyn, N. Y. Buffing-wheel	713,201	Nov. 11	1895	314	101	1200
Burns, George A. (See English and Burns.)						
Burns, George J. (See Chandler, Daniel L., assignor.)						
Burns, George J., Ayer, Mass. Steaming-cabinet	716,862	Dec. 30	4415	957	101	2833
Burns, Henry B., assignor of one-fourth to E. A. Munns, Eau Claire, Wis. Fruit-jar	702,702	June 17	2588	596	99	2679
Burns, Henry H., <i>et al.</i> (See Dempster, Robert, assignor.)						
Burns, Henry H., Hastings, assignor to Battle Creek Iron Works Company, Limited, Battlecreek, Mich. Machine for finishing metal articles	699,613	May 6	918	214	99	1365
Burns, Henry S., and T. G. Bennett, assignors to Winchester Repeating Arms Co., New Haven, Conn. Cellular primer-tray	705,318	July 22	3800	826	100	820
Burns, John A., New York, N. Y. Rolling-stock	695,708	Mar. 28	2562	579	98	2281
Burns, John A., New York, N. Y. Monorail rolling-stock	717,338	Dec. 30	5321	1158	101	3027
Burns, John E., Northport, N. Y. Cross-tie	706,523	Aug. 12	1036	228	100	1340
Burns, Robert, Chicago, Ill. Car journal-box	714,005	Nov. 18	3165	701	101	1584
Burns, William, <i>et al.</i> (See Dillon, Lybran J., assignor.)						
Burns, William E. (See Casswell, Richard H., assignor.)						
Burns, William G., assignor to Boston Gas Iron Mfg. Co., Boston, Mass. Self-heating radiator	705,204	July 22	3543	768	100	768
Burow, Carl F. G., Hamburg, Germany. Bottle-brushing machine	712,042	Oct. 28	3186	697	101	711
Burpee, Frank W. (See Letson and Burpee.)						
Burr, Franklin H., Atlantic, assignor to Fast Mail Delivery Company, Council Bluffs, Iowa. Mail receiving and delivering mechanism for railways	707,500	Aug. 19	2841	648	100	1736
Burr, Jesse T., Cleveland, Ohio. Wrench	710,179	Sept. 30	3245	957	100	2916
Burr, John M., Norwalk, Conn. Glass float	691,530	Jan. 21	2197	494	98	403
Burras, Charles H. (See Dickson, George E., assignor.)						
Burrell & Company, D. H. (See Just, John A., assignor.)						
Burrell & Company, D. H. (See Just, John A., assignor.) (Reissue.)						
Burrell, Edmund R. (See Strange and Graham, assignors.)						
Burrell, Horace H., <i>et al.</i> (See Gombar, Amos B., assignor.)						
Burrell, James B., Wrights, Cal. Grafting	713,949	Nov. 18	2884	641	101	1524
Burrell, James B., Wrights, Cal. Grafting apparatus	713,950	Nov. 18	2886	642	101	1524
Burress, Charles E., Wichita, Kans. Adjustable chimney-top	692,339	Feb. 18	2508	551	98	1361
Burridge, Lee S., New York, N. Y. Type-writing machine	697,605	Apr. 15	2275	508	99	515
Burridge, Lee S., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Ribbon mechanism for type-writing machines	692,235	Feb. 4	33	7,8	98	805

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Barridge, Lee S., New York, N. Y., and S. T. Smith, Stamford, Conn., assignors to Wagner Typewriter Company, New York, N. Y. Card-holder for type-writers	706,524	Aug. 12	1637	228	100	1340
Burries, Sarah E., Aurora, Ill. Cloth-guide for sewing-machines	701,013	May 27	3716	851	99	1991
Burrill, Frank C. (See Eaton and Burrill.)						
Burrill, George H., Adaville, Iowa. Grain-drill	709,741	Sept. 23	3370	756	100	2719
Burrill, William W., et al. (See Schoonover, Noah E., assignor.)						
Burrington, Charles S., assignor to B. G. Clark, Boston, Mass. Curling-iron heater	715,242	Dec. 9	1136	244	101	2086
Burritt, Chester C., Bayonne, N. J. Door-stop	704,855	July 15	3773	691	100	564
Burrow, Edgar A., Hico, Tex. Oil heater, separator, and separator	707,760	Aug. 29	3421	720	100	1870
Burrowes, Edward T., Portland, Me. Water-cooling apparatus for motor-vehicles	701,464	June 3	3325	72	99	2176
Burrowes, Edward T., Portland, Me. assignor to Curtin Supply Company, Chicago, Ill. Device for spring-actuated shades	705,031	July 22	3182	688	100	685
Burrows, George H., Somerville, Mass. Air and gas mixing and supplying apparatus	694,611	Mar. 4	533	116	98	1826
Burrows, Joseph A., Akron, Ohio. Device for bringing together the ends of solid-rubber tires in tire-setting machines	693,831	Feb. 25	3062	676	98	1404
Burrows, Joseph A., assignor to Goodyear Tire and Rubber Company, Akron, Ohio. Rubber-tire-setting machine	698,446	Apr. 29	3845	848	99	878
Burrows, Joseph A., assignor to Goodyear Tire and Rubber Company, Akron, Ohio. Joint-closer for rubber-tire-setting machines	700,895	May 27	3483	790	99	1942
Burrows, Leonard S., Chicago, Ill. Curtain	693,107	Feb. 11	1655	390	98	1165
Burrows, Pierre F. M., Hunterville, New Zealand. Combined scale and penholder	698,370	Apr. 22	3700	817	99	832
Burrows, William B., assignor to Union Iron Works, Minneapolis, Minn. Ventilating-fan	717,339	Dec. 30	5326	1159	101	3027
Burrows, William B., assignor to Union Iron Works, Minneapolis, Minn. Attachment for steam-feed cylinder-valves	713,850	Nov. 13	2571	596	101	1479
Burruss, William C., Norfolk, Va. Lamp-chimney protector	700,393	Sept. 16	2686	602	100	2566
Burry, John, Fort Lee, N. J. Wireless telegraphy	696,715	Apr. 1	609	137	99	132
Burry, John, Fort Lee, N. J. Means for controlling the charging of secondary batteries	700,465	Sept. 23	2839	638	100	2610
Burry, John, Brooklyn, N. Y. Magnetotherapeutic apparatus	717,072	Dec. 30	4825	1046	101	2919
Burry, John, assignor to M. Wyler, Fort Lee, N. J., and M. Burry, Brooklyn, N. Y. Magneto-therapeutic apparatus	703,989	July 8	1152	250	100	244
Burry, Marie, et al. (See Burry, John, assignor.)						
Burson, Amos, Canonsburg, Pa. Holder for papers, envelops, &c.	695,860	Mar. 18	2836	644	98	2339
Burson, William W., Chicago, Ill. Tubular knit goods	715,457	Dec. 9	1529	332	101	2166
Burt, Andrew S. (See Stewart, John C., assignor.)						
Burt Company. (See Hoyt, William H., assignor.)						
Burt, George, Terre Haute, Ind. Music-holder	692,612	Feb. 4	704	163	98	943
Burt, James H., Springfield, Mass., assignor, by mesne assignments, to Combo Shirt Coat Company, New York, N. Y. Garment	700,674	May 20	3016	690	99	1830
Burt, James H., Springfield, Mass., assignor to Combo Shirt-Coat Company, New York, N. Y. Combination-garment	712,763	Nov. 4	543	125	101	1000
Burt Manufacturing Company. (See Maranville and Warden, assignors.)						
Burt, Martin C., Chicago, Ill. Electric heater	699,651	May 13	1010	235	99	1307
Burt, Peter, Hollybank, Bothwell, Scotland. Internal-combustion engine	696,547	Apr. 1	277	64	99	63
Burt, Townsend W. (See Titus, Burt, and Smith.)						
Burt, Walter S., Albany, New South Wales, Australia. Means for cleaning ships' hulls	690,144	May 6	34	9, 10	99	1183
Burt, William J., assignor of one-fourth to W. H. Smiley, Niles, Ohio. Motor-vehicle	690,830	Jan. 7	890	197	98	188
Burdles, Henry. (See Sigurdsson and Burdles.)						
Burton, Charles A. (See Toole, Augustus H., assignor.)						
Burton, Charles F., trustee. (See Stoddard, Elliott J., assignor.)						
Burton, Charles S., trustee. (See Crook, Charles M., assignor.)						
Burton, Gale W., Muncie, Ind. Baggage-truck	703,990	July 8	1154	250	100	244
Burton, George D., Boston, Mass. Electric metal-working apparatus	696,004	Mar. 25	3100	702	98	2407
Burton, George W., Morehead, Ky. Brake for vehicles	706,898	Aug. 12	1746	390	100	1491
Burton, John, and W. B. Lodwick, Mystic, Iowa. Coal-mining machine	699,864	May 13	1430	330	99	1483
Burton, John L., assignor to Draper Company, Hopedale, Mass. Filling-carrier receptacle for web-replenishing looms	708,524	Sept. 9	951	216	100	2186
Burton, Orville C. (See Stiker and Burton.)						
Burton, Smith P., Jr., et al. (See Huff, Henry H., assignor.)						
Burton, William E., New York, N. Y. Folding box	716,665	Dec. 23	3942	861	101	2707
Burton, William J., Detroit, Mich. Heating-drum	713,055	Nov. 11	1114	256	101	1141
Burwell, George A., assignor to Lozier Motor Company, Plattsburg, N. Y. Steering-gear	715,193	Dec. 2	1039	224	101	2049
Burwell, Stephen B., et al. (See Tottenben, William F. A., assignor.)						
Busby, Charles, Fossil, Ore. Wrench	709,742	Sept. 23	3371	756	100	2719
Busch, August A., R. Gull, and T. J. Barry, St. Louis, Mo. Pasteurizer	713,952	Nov. 18	2891	642, 643	101	1525
Busch, John G., Alma, Wis. Window-shutter	706,217	Aug. 5	409	87, 88	100	1260
Busch, William H., Stewardson, Ill. Drinking-fountain for fowls	690,831	Jan. 7	892	217	98	189
Busch, Willy, Ober-Ursel, Germany. Machine for forming knotted loops on bags, papers, &c.	692,764	Feb. 4	963	218	98	994
Buschmeyer, William G., assignor of one-half to G. R. Caspari, Louisville, Ky. Combined awning frame and hood	698,371	Apr. 22	3702	817	99	833
Buschmann, William, Haledon, N. J. Liquid-scale	691,110	Jan. 14	1385	315	98	303
Buser, William E., Chillicothe, Ohio. Tufting-machine	711,382	Oct. 14	1895	413	101	410
Bush, Andrew J., Kaufman, Tex. Tobacco-stemming machine	713,057	Nov. 11	1116	257	101	1142
Bush, Andrew J., Kaufman, assignor of one-half to A. C. Green, Palestine, Tex. Tobacco-stemming machine	694,130	Feb. 25	3646	06	98	1610
Bush, Charles, assignor to Staples and Hanford Company, Newburgh, N. Y. Spring-support for upholstery	715,015	Dec. 2	721	153	101	1982
Bush, Corydon L., Kansas City, Mo. Syringe	698,447	Apr. 29	3846	845	99	878
Bush, Corydon L., assignor of one-half to F. H. Crocker, Kansas City, Mo. Fastening for saddle-girths	701,636	June 10	985	220	99	2331
Bush, Frank E., Weedsport, N. Y. Shirring-band for skirts	717,159	Dec. 30	4985	1081	101	2953
Bush, Hiram T., Detroit, Mich. Water-closet bowl	705,319	July 22	3810	826	100	820
Bush, Isaac, Kansas City, Kans., assignor of one-half to W. Heagy, Kansas City, Mo. Sand scoop and elevator	713,202	Nov. 11	1396	314	101	1200
Bush, Luthas S., (Charles Crook, Charles Jr., assignor.)						
Bush, Samuel P. (See Groeber and Bush.)						
Bush, Samuel P., Columbus, Ohio. Bolster for cars	701,837	June 10	987	220	99	2332
Bush, Samuel P., assignor to Buckeye Malleable Iron and Coupler Co., Columbus, Ohio. Friction draw-gear and buffing apparatus for railway-cars	707,820	Aug. 26	3548	800, 801	100	1896
Bush, Thomas J., Lexington, Ky. Rotary engine	709,961	Sept. 30	3823	860	101	2827
Bush, Zachariah T., Grandledge, Mich. Vehicle-spring	692,613	Feb. 4	705	163	98	944



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Bushnell, Glenn C., Hartford, Ohio. Dashboard.....	704,812	July 15	2704	585	100	578
Bushnell, John S., Brooklyn, N. Y. Tube-cleaning device.....	708,300	Sept. 2	386	89	100	2460
Bushnell, William E., assignor to Kalamazoo Railway Supply Company, Kalamazoo, Mich. Lever for lifting-jacks.....	702,920	June 24	2997	619	99	2781
Buskey, George M., Cumberland, Md. Bag-fastener.....	701,537	June 3	457	103	99	2202
Buskirk, George W., New York, N. Y. Blotter or desk-pad.....	708,525	Sept. 9	953	216	100	2186
Buskirk, George W., New York, N. Y. File-book.....	710,947	Oct. 14	1033	229	101	227
Buss, Otto, Rüschnikon, Switzerland. Casein photographic film and making same.....	705,643	July 29	4499		100	971
Busse, William H. (See Barnard and Busse.)						
Bussells, Josephus F., et al. (See Denney, Thomas H., assignor.)						
Busser, William H., assignor of one-third to V. L. Books, Dayton, Ohio. Mattress-sterilizer.....	713,056	Nov. 11	1115	257	101	1141
Bussey, Herbert L. (See Donald and Bussey.)						
Bussey, William E., London, England. Tennis-bat.....	713,953	Nov. 18	2893	613	101	1526
Bussian, Henry A., et al. (See Krieger, Hieronymus G., assignor.)						
Bussinger, William J., assignor to T. Devlin & Company, Philadelphia, Pa. Quick return for feeding devices.....	708,803	Sept. 9	1606	367	100	2323
Butcher, Ira A. (See Livingston, Lewis H., assignor.)						
Butcher, James M., assignor of one-half to G. Brown, Denver, Colo. Coin-delivery device.....	697,396	Apr. 8	1888	421 422	99	420
Butcher, James M., Chicago, Ill., assignor to M. H. Johnson, Little Rock, Ark. Lid-supporting device.....	711,890	Oct. 21	2874	636	101	630
Butcher, James M., and W. G. Hartwig, Chicago, Ill., assignors to American Automatic Change Maker Company, Little Rock, Ark. Coin-delivery device.....	707,065	Aug. 12	2030	453 454	100	1549
Butcher, Joseph, New York, N. Y. Pendulum-regulator for clocks.....	709,594	Sept. 23	3100	691	100	2666
Butcher, Joseph, New York, N. Y., assignor to S. N. Putnam, Jersey City, N. J. Electric clock.....	705,558	July 29	4353	942 943	100	941
Butkus, John A. (See Butkus, Joseph and J. A.)						
Butkus, Joseph and J. A., Baltimore, Md. Bottle-stopper.....	694,131	Feb. 25	3648	806	98	1611
Butkus, Joseph and J. A., Baltimore, Md. Bottle-stopping machine.....	694,132	Feb. 25	3649	807	98	1611
Butler, Albert E., Gloucester, Mass. Fishing-net.....	712,944	Nov. 4	55	14	101	999
Butler, Arthur C., Wollaston, Mass. Tension-regulator for spinning or twisting machines.....	691,594	Jan. 21	2314	521	98	516
Butler, Arthur C., Wollaston, Mass. Camera.....	711,891	Oct. 21	2875	636	101	630
Butler, Bert, Kensett, Iowa. Hand-cart.....	704,612	July 15	2328	505 506	100	502
Butler, Bert, Kensett, Iowa. Hand-cart.....	713,745	Nov. 18	2481	552 553	101	1441
Butler, Charles H., Oakland, Cal. Transporting and distributing apparatus.....	715,972	Dec. 16	2555	563 564	101	2401
Butler, David, Border City, N. Y. Window-balcony.....	693,371	Feb. 18	2186	480	98	1295
Butler, Edward, Jr. (See Surtin, John H., assignor.)						
Butler, Edward, Jr., et al. (See Hodges, John D., assignor.)						
Butler, Edwin T., Chambersburg, near Glasgow, Scotland. Photographic camera for producing and viewing images in natural colors.....	708,705	Sept. 9	1458	333	100	2292
Butler, H. S. (See Kirkpatrick, Robert S., assignor.)						
Butler, Harry H., and W. A. Dailey, Brockwayville, Pa. Waste-cock.....	696,091	Mar. 25	3276	741	98	2443
Butler, Henry G., Danville, Ill. Dredging-scoop.....	708,753	Sept. 9	1365	311 312	100	2272
Butler, Henry G., assignor of one-half to W. Butler, Danville, Ill. Shale-rock plow.....	696,808	Apr. 1	972	217	99	206
Butler, Henry G., assignor of one-half to W. Butler, Danville, Ill. Excavating-machine.....	710,664	Oct. 7	515	107 108	101	104
Butler, Herbert W., and J. H. May, assignors to J. I. Courtenay, London, England. Manufacture of spongy-lead plates for secondary batteries.....	715,016	Dec. 2	724		101	1982
Butler, James, St. Louis, Mo. Nut-lock.....	708,380	July 1	31	7	100	9
Butler, James J., et al. (See Lyon, William S., assignor.)						
Butler, John B., Ethel, Ark. Animal-trap.....	699,145	May 6	37	10	99	1183
Butler, John F. (See Mallin, Isaac H., assignor.)						
Butler, Joseph B., Bristol, England. Antifriction-gearing.....	715,973	Dec. 16	2558	564 565	101	2401
Butler, Milton H., and C. A. Larson, Cherry creek, N. Y. Vegetable-washer.....	710,422	Oct. 7	44	11	101	11
Butler, Paul, Lowell, Mass. Cartridge-shell-gaging machine.....	708,123	Sept. 2	224	53, 54	100	2028
Butler, Samuel S., et al. (See Seiler, Philipp, assignor.)						
Butler, Thomas H., and O. Hammond, Baltimore, Md. Ice-machine.....	691,238	Jan. 14	1619	370	98	356
Butler, Thomas H., and O. Hammond, Baltimore, Md. Rod-packing.....	691,893	Jan. 28	2896	652	98	654
Butler, Thomas P., New York, N. Y. Rotary engine.....	712,119	Oct. 28	3344	732	101	740
Butler, Thomas S., Vandergrift, Pa. Track-brake.....	709,743	Sept. 23	3372	756	100	2719
Butler, William. (See Butler, Henry G., assignor.)						
Butler, William A., and A. Kunze, San Francisco, Cal. Continuous kiln.....	703,533	July 1	282	64	100	57
Butler, William D., Westminster, Md. Vehicle-body support.....	716,666	Dec. 23	3943	861 860	101	2707
Butler, William E., Bedford, Ind. Drilling-machine.....	708,995	Sept. 16	1870	431	100	2394
Butler, William P. (See Bosch, Frank, assignor.)						
Butman, Thomas R., Chicago, Ill. Combined water and fire tube steam-generator.....	697,606	Apr. 15	2276	509	99	515
Butt, Albert L., Russellville, Ky. Calculating device.....	690,924	Jan. 14	1051	236 237	98	236
Butt, William D., Kansas City, Mo. Advertising device.....	706,525	Aug. 12	1038	228	100	1340
Butt, William D., Kansas City, Mo. Advertising device.....	707,395	Aug. 19	2307	516	100	1625
Butt, William D., Kansas City, Mo. Advertising device.....	709,466	Sept. 23	2841	638	100	2610
Butt, William D., Kansas City, Mo. Hydrostatic press.....	710,039	Sept. 30	3958	838	100	2856
Butte, Charles F., assignor to P. C. F. Butte, San Francisco, Cal. Self-ejecting plug for telephone-switchboards.....	692,004	Jan. 28	3092	695	98	692
Butte, Charles F., assignor to P. C. F. Butte, San Francisco, Cal. Automatic electric switch.....	692,005	Jan. 28	3093	695	98	693
Butte, Paul C. F. (See Butte, Charles F., assignor.)						
Butterfield, Isaac C. (See Underwood and Butterfield.)						
Butterfield, John W., and B. C. Schmitt, Columbus, Ohio. Machine for applying paste to labels.....	693,832	Feb. 25	3063	676	98	1494
Butterfly Manufacturing Company. (See Matteson and McArthur, assignors.)						
Butterworth, Hubert V., Newark, N. J. Recorder for phonographs, &c.....	707,394	Aug. 19	2305	516	100	1625
Butler, William, Redkey, Ind. Apparatus for the manufacture of hollow glass articles. (Reissue.).....	12,049	Oct. 28	3985	870	101	874
Buttling, Avery H. (See O'Brien, Joseph, assignor.)						
Buttnan, Alonzo C., Columbus City, Iowa. Combined pole-strap and collar-buckle.....	699,074	Apr. 29	5076	1122	99	1143
Buttnar, Henry F., Idaho Falls, Idaho. Non-refillable bottle.....	704,613	July 15	2330	506	100	502
Butts, Charles H., Norwich, Conn. Rowlock.....	697,442	Apr. 15	1993	440	99	459

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Butts, Charles W., Sag Harbor, assignor to Fahys Watch-Case Company, New York, N. Y. Watch-case pendant.	690,358	Jan. 7	366	74	98	80
Butts, Edmund R., Oberon, N. D. Harrow.	709,256	Sept. 16	2408	544	100	2506
Butts, Frederick P., New York, N. Y. Freight-car.	694,052	Feb. 25	3524	775	98	1585
Butts, Zehner D., Cleveland, Ohio. Pin setting or resetting device for bowling-alleys.	700,614	May 20	2914	671	99	1807
Butz, Albert M., Oakpark, Ill. Thermostatic circuit-closer.	705,379	July 22	3249	856	100	1848
Butz, Samuel, Easton, Pa. Shirt.	694,133	Feb. 25	3652	807	98	1612
Buston, Charles H., Xenia, Wis. Toy or game apparatus.	694,490	May 6	687	159	99	1317
Byssse, Edward, South Bend, Ind. Timing device for carrier-pigeons.	703,381	July 1	32	7	100	9
Buzzell, George B. M., West Medway, Mass. Handle.	711,821	Oct. 21	2747	608	101	60
Buzzell, John G., Lynn, Mass. Machine for concaving the breasts of heels.	698,383	Feb. 25	3665	677	98	1494
Buzzell, John G., Lynn, Mass. Machine for abrading fronts of shoe-heels.	708,991	July 8	1155	251	100	245
Byars, Edgar, Rhome, Tex. Double-action pump.	711,654	Oct. 21	2412	531	101	531
Byars, Edgar, assignor to S. H. E. E. and T. S. Mount, Rhome, Tex. Baling-press.	711,097	Oct. 14	1343	292	101	292
Bye, S. C., et al. (See Darwin, Frank L., assignor.)						
Bycraft, William J., Newton, Ind. Ter. Bottle-closure.	710,201	Sept. 16	2296	321	100	2483
Bye, John J. (See Robbins, Bye, and Jones.)						
Bye, Mary A., Nashville, Tenn., assignor of one-half to C. T. Leonard, Minneapolis, Minn. Picture-hook hanger.	703,178	June 24	3506	806	99	2880
Byerly, William A., Bridgewater, Va. Gate.	705,382	July 1	33	7	100	9
Evers, F. B. (See Ellmore, John, assignor.)						
Evers, Joseph A., Milwaukee, Wis. Making hats.	703,383	July 1	37	7	101	10
Eyers, Margaret E., Greensburg, Pa. Nut-lock.	712,904	Nov. 4	832	193	100	1067
Byington, John F., Battletree, Mich., assignor to F. A. Hardy & Co., Chicago, Ill. Machine for grinding lenses.	710,180	Sept. 30	4248	957	100	2016
Byrd, Jesse S., Dunn, N. C. Guano-distributor.	702,921	June 24	2908	690	99	2782
Byrne, Charles T. (See Grushow, Frank W., assignor.)						
Byrne, John, East Liverpool, Ohio. Railway-tie.	711,559	Nov. 25	4056	808	101	1783
Byrne, Timothy. (See O'Neill and Byrne.)						
Byrnes, Clarence P., Pittsburg, Pa. Spring-cushioning device.	704,813	July 15	2705	585	100	578
Bystrom, John, Chicago, Ill. Hydrocarbon-lamp.	703,384	July 1	38	8	100	10
C. Latham Sholes Typewriter Manufacturing Company. (See Sholes, Louis, assignor.)						
C. B. Cottrell & Sons Company. (See Cottrell, Charles P., assignor.)						
C. B. Cottrell & Sons Company. (See Phail, John W., assignor.)						
C. B. Cottrell & Sons Company. (See Seymour, Ralph C., assignor.)						
C-K Manufacturing Company. (See Klein, Charles J., assignor.)						
Cabot, John W., Johnstown, Pa. Self-cleaning hot-blast stove.	710,748	Oct. 7	673	140	101	137
Cabot, John W., Johnstown, Pa., and S. W. Vaughan, Lorain, Ohio. Blast-regulator for furnaces.	710,247	Sept. 30	4373	983	100	2043
Cade, Enos B., Skagway, Alaska Ter. Tidal motor.	708,461	Sept. 2	884	190	100	2150
Cade, James W., Mount Carmel, assignor to C. B. Cowan, Duwest, S. C. Sash fastener or holder.	702,774	June 17	2730	626	99	2708
Cadell, John F., assignor to Ott. Mergenthaler Company, Baltimore, Md. Milling-machine cutter.	700,736	May 27	3181	725	99	1881
Cadman, Isaac F., Beloit, Wis. Automatically-inflated polishing-wheel.	704,509	July 15	2415	464	100	464
Cadmus, Oliver, New York, N. Y. Heating-stove.	717,340	Dec. 30	5328	1150	101	3027
Cadwallader, Thomas, Salem, Ohio. Labeling device.	716,377	Dec. 23	3390	734	101	2582
Cadwell, Edward L. and W. H., Detroit, Mich. Bag handle or carrier.	701,146	May 27	3852	909	99	2042
Cadwell, Edward L. and W. H., Detroit, Mich. Cupholder.	701,291	June 3	23	5	99	2113
Cadwell, Edward L. and W. H., Wayne, Mich. Elevating-truck.	713,746	Nov. 18	2482	553	101	1441
Cadwell, William H. (See Cadwell, Edward L. and W. H.)						
Cadwell, William H., Williamston, Mich. Mold for building concrete or cement walls.	714,749	Oct. 7	675	141	101	137
Cady, Henry C., Pine Bluff, Ark. Spirometer toy.	714,141	Nov. 25	3254	718	101	1622
Cady, Ira D., Minneapolis, Minn. Vehicle-shaft support.	708,020	Sept. 2	31	7	100	1987
Caffrey, Willis G., Reno, Nev. Differential gearing.	697,801	Apr. 15	2645	586	99	593
Cahill, Arthur T., et al., trustees. (See Cahill, Thaddeus, assignor.)						
Cahill, George F., et al., trustees. (See Cahill, Thaddeus, assignor.)						
Cahill & Hall Elevator Company. (See Cleggman, Milton A., assignor.)						
Cahill, Thaddeus, New York, N. Y. assignor to J. B. Lambie, E. H. Jackson, G. F. and A. T. Cahill, trustees. Type-writing machine.	705,559	July 29	4355	943	100	942
Cahill, Thomas H., assignor of one-half to W. F. Dailey, W. Bishop, and C. A. Miller, Terra Alta, W. Va. Wrench.	710,040	Sept. 30	3962	899	100	2856
Cahoone, James B., Kansas City, Mo. Bicycle-tire cleaner.	717,341	Dec. 30	5329	1159	101	3028
Cahoone, William F., Skinersville, N. C. Cultivator.	706,383	Aug. 5	765	167	100	1269
Cahoone, Edwin R., Newark, N. J. Grate.	698,630	Apr. 29	4204	1038	99	950
Cahoone, Edwin R., Newark, N. J. Stove or range.	698,796	Apr. 29	4542	1003	99	1027
Cahoone, Edwin R., Newark, N. J. Heating-stove.	698,797	Apr. 29	4549	1005	99	1029
Cahoone, Edwin R., Newark, N. J. Stove.	698,798	Apr. 29	4554	1006	99	1031
Cahoone, Edwin R., Newark, N. J. Stove.	698,799	Apr. 29	4560	1007	99	1032
Cahoone, Edwin R., Newark, N. J. Stove.	698,800	Apr. 29	4570	1008	99	1033
Cahoone, Edwin R., Newark, N. J. Heating-stove.	698,801	Apr. 29	4573	1009	99	1036
Cahoone, Edwin R., Newark, N. J. Stove.	698,802	Apr. 29	4577	1010	99	1037
Cahoone, Edwin R., Newark, N. J. Stove.	698,803	Apr. 29	4580	1011	99	1038
Cahoone, Edwin R., Newark, N. J. Heating-stove.	698,804	Apr. 29	4583	1012	99	1039
Cahoone, Edwin R., Newark, N. J. Stove-lining.	698,805	Apr. 29	4585	1013	99	1040
Cahoone, Edwin R., Newark, N. J. Heating-stove.	698,806	Apr. 29	4586	1012	99	1040
Cahoone, Edwin R., Newark, N. J. Poker-support.	698,807	Apr. 29	4590	1013	99	1041
Cahoone, Edwin R., Troy, N. Y. Mechanism for operating dampers.	698,808	Apr. 29	4591	1013	99	1042
Cahoone, Edwin R., Troy, N. Y. Air-introducer for stoves.	698,809	Apr. 29	4593	1013	99	1042
Cahoone, Edwin R., Troy, N. Y. Heating-stove.	698,810	Apr. 29	4596	1014	99	1043
Caille, Adolph A., assignor, by mesne assignments, to Caille Brothers Company, Detroit, Mich. Game.	711,383	Oct. 14	1897	413	101	414
Caille Brothers Company. (See Caille, Adolph A., assignor.)						
Caille, Charles, Bry-sur-Marne, France. Apparatus for forcing liquids adapted for feeding steam-boilers.	714,096	Nov. 18	3167	701	101	1584
Caille, Charles, Bry-sur-Marne, France. Apparatus for forcing liquids particularly applicable for feeding steam-generators.	714,097	Nov. 18	3169	701	101	1585
Cain, Charles E., Waupaca, Wis., assignor of one-half to I. C. Edwards, Minneapolis, Minn. Thill or pole coupling.	695,030	Mar. 11	1339	295	98	2011



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Cain, Napoleon B. (See Cain, Wesley R. and N. B.)						
Cain, Wesley R. and O. B. Kane, Port Jervis, N. Y. Lamp-lighter and match-extinguisher	696,854	Apr. 1	859	198	99	182
Cain, Wesley R. and N. B. Port Jervis, N. Y. Fire-escape	696,855	Apr. 1	860	198	99	182
Cain, William M., Carlton, Minn. Load-retaining means for vehicles	706,707	Aug. 12	1552	348	100	1459
Cain, William M., Carlton, Minn. Load-retaining apparatus for vehicles	708,526	Sept. 9	954	216	100	2186
Cairns, Irving, Montclair, N. J. Fireman's hat	705,082	July 22	3185	698	100	695
Cairns, James M., Paisley, Scotland. Cover or stopper for preserve-jars or the like	717,073	Dec. 30	4826	104	101	2919
Caisse, Nelson, assignor to D. T. Dudley & Son Company, Wilkinsonville, Mass. Loom-shuttle	702,703	June 17	2589	596	99	2679
Calendagraph Company. (See Abbott, Henry, assignor.)						
Calder, Alexander C., Richmond, Va. Combined gage-cock and safety-valve	708,527	Sept. 9	956	216	100	2187
Caldwell, Charles C. (See Karmann, Julius, assignor.)						
Caldwell, Charles W., assignor to Apollo Acetylene Gas Company, Chicago, Ill. Acetylene-gas generator	692,614	Feb. 4	706	163 164	98	944
Caldwell, Charles W., Waterloo, Iowa, assignor to Railroad Gas Lighting Company, Chicago, Ill. Acetylene-gas generator	708,021	Sept. 2	33	8	100	1987
Caldwell, George L. (See Ebeling, Phillip, assignor.)						
Caldwell, John, Minneapolis, Minn. Stretching leather	702,867	June 17	2895	670	99	2743
Caldwell, John, assignor to W. S. Nott Company, Minneapolis, Minn. Leather-stretching device	690,397	Jan. 7	21	5	98	8
Caldwell, John, assignor to W. S. Nott Company, Minneapolis, Minn. Leather-stretching device	692,615	Feb. 4	709	164	98	944
Caldwell, John, assignor to W. S. Nott Company, Minneapolis, Minn. Leather-stretching device	698,716	Apr. 1	614	137	99	133
Caldwell, John, assignor to W. S. Nott Company, Minneapolis, Minn. Leather-stretching device	697,443	Apr. 15	1904	440	99	459
Caldwell, John, assignor to W. S. Nott Company, Minneapolis, Minn. Leather-stretching device	699,833	May 13	1360	316	99	1468
Caldwell, John, assignor to W. S. Nott Company, Minneapolis, Minn. Leather-stretching device	701,838	June 10	988	220	99	2332
Caldwell, John, assignor to W. S. Nott Company, Minneapolis, Minn. Leather-stretching device	704,510	July 15	2147	465	100	465
Caldwell, John D., Vancouver, Canada. Vehicle-bell	713,954	Nov. 18	2894	643	101	1526
Caldwell, John D., Vancouver, Canada. Shingle-edging machine	714,098	Nov. 18	3170	702	101	1585
Caldwell, John O., and W. L. Damon, Greenfield, Mass. Shoe-last	717,342	Dec. 30	5330	1160	101	3028
Caldwell, Samuel B., et al. (See Shriver, Augustus F., assignor.)						
Caldwell, William H., Leigh, assignor to Radax Pneumatic Tyre Company, Limited, Warrington, England. Loom	712,358	Oct. 28	3753	821	101	824
Caldwell, William L. (See Bradford, Oscar, assignor.)						
Caldwell, William L., New York, N. Y., assignor of one-half to O. Bradford, Chicago, Ill. Machine for manufacturing expanded sheet metal	698,448	Apr. 29	3849	848 849 850	99	879
Caldwell, William M. (See Schussler, John H., assignor.)						
Calet, Joseph W., New Easton, Mass. Non-refillable-bottle stopper	693,834	Feb. 25	3067	677	98	1495
Caley, William H., Denver, assignor of one-half to F. G. Folsom, Boulder, Colo. Automatic safety device for cars	710,123	Oct. 7	45	11	101	11
Calkin, Benjamin H., Montreal, Canada. Stamp-affixer	701,996	June 10	1282	294	99	2389
Calkins, Albert C. (See Lonergan and Calkins.) (Reissue.)						
Calkins, Albert C., assignor to F. W. Braun, Los Angeles, Cal. Assaying-furnace	696,548	Apr. 1	279	65	99	63
Calkins, Albert C., assignor to F. W. Braun, Los Angeles, Cal. Ore-crusher	697,802	Apr. 15	2647	589 587	99	594
Calkins, Albert C., assignor to F. W. Braun, Los Angeles, Cal. Ore-breaker	707,385	Aug. 19	2640	596	100	1694
Calkins, Albert C., assignor to F. W. Braun & Company, Los Angeles, Cal. Assayer's furnace	711,554	Oct. 21	2929	485	101	493
Calkins, Almon B., Franklin, N. J., assignor to American Match Machine Company, New York, N. Y. Splint-boxing machinery	704,511	July 15	2148	465 466 467	100	463
Call, Eugene H., assignor of one-half to J. H. Ladwig, Scranton, Pa. Sectional ventilating tunnel roof	713,955	Nov. 18	2897	643	101	1527
Callahan, Americus F., Chicago, Ill. Envelop	701,839	June 10	989	220	99	2332
Callahan, Charles H., Cedartown, assignor of one-half to P. F. Akin, Cartersville, Ga. Stamp for printing on inner or outer surfaces of cones, cylinders, and curved surfaces	692,616	Feb. 4	710	164	98	945
Callahan, Frank T., assignor of one-half to C. L. Brennan, Reading, Pa. Bottle	711,616	Oct. 21	2349	513	101	517
Callahan, Mark A., and O. W., Cleveland, Ohio. Hoisting and conveying apparatus	710,948	Oct. 14	1035	230	101	227
Callahan, Matthew H., Aspen, Colo. Grapple	692,113	Jan. 28	3293	745	98	732
Callahan, Matthew H., Aspen, Colo. Building-support	692,179	Jan. 28	3401	770	98	759
Callahan, Owen P., New York, N. Y. Clothes-rack	701,789	June 3	908	203	99	2298
Callahan, Owen W. (See Callahan, Mark A. and O. W.)						
Callahan, Pickette M., Denver, Colo. Combined rule and square	715,194	Dec. 2	1039	224	101	2049
Callan, John G. (See Thomson and Callan.)						
Callan, John G. (See Thomson and Callan.) (Reissue.)						
Callanan, James T., Butler, Pa. Well-casing packer	717,160	Dec. 30	4986	1082	101	2053
Callaway, Charles P., Glen Jean, W. Va. Tooth-crown	712,648	Nov. 4	352	81	101	971
Callaway, William S., Mountainhome, Idaho. Shell	697,703	Apr. 15	2465	550	99	552
Callen, Elmo H., Leechburg, Pa. Curtain-pole and shade-fixture	710,352	Sept. 30	4548	1026	100	2980
Callen, Joseph S., Shenandoah, Pa. Crushed-ice holder	696,162	Mar. 25	3450	773	98	2481
Callison, Amos. (See Andriane and Callison.)						
Callison, Amos. (See Callison, Christian A., assignor.)						
Callison, Christian A., New York, assignor to A. Callison, Brooklyn, N. Y. Metal cap for bottles or jars	708,528	Sept. 9	957	217	100	2187
Calley, Elias J., Oakland, Cal. Soda-water fountain	710,949	Oct. 14	1038	230	101	227
Callister, Thomas, New York, N. Y. Wagon-brake	692,114	Jan. 28	3294	745 746	98	733
Calloch, Charles E., La Flèche, France. Self-propelled vehicle	692,981	Feb. 11	1416	307 308	98	1116
Callsen, Jürgen. (See Dreser and Callsen.)						
Callsen, Jürgen. (See Hofmann and Callsen.)						
Callsen, Jürgen, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Co., New York, N. Y. Alkylloxymethyl ester of salicylic acid and making same	706,018	Aug. 5	21		100	1121
Callum, Fire Signal Company. (See Callum, Robert G., assignor.)						
Callum, Robert G., Washington, D. C. Electric signaling system and apparatus used therein	706,218	Aug. 5	412	88, 89	100	1200
Callum, Robert G., assignor to Callum Fire Signal Company, Washington, D. C. Fire-alarm-telegraph system	706,384	Aug. 5	767	167 168	100	1269
Calumet Tire Rubber Company. (See Kinney and Price, assignors.)						
Calvert, Alan, Philadelphia, Pa., assignor to Milo Bar Bell Company. Bar-bell	702,356	June 10	1924	439	99	2520

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Calvin, James E., assignor of one-half to E. C. Cochran, Camptonville, Cal. Insulator.	704,172	July 8	1516	325	100	318
Cambridge, Alonzo C., assignor of one-half to W. D. Crum, Charleston, S. C. Cigar-maker's board.	704,235	July 8	1622	351	100	339
Cambridge, Alonzo C., assignor of one-half to D. Schroder, Charleston, S. C. Railway-switch.	714,142	Nov. 25	3255	718	101	1622
Camden, Bernard H., U. S. Revenue Marine. Protracting-ruler.	703,235	June 24	3617	831	99	2903
Camden Iron Works. (See Jensenius, Herman A., assignor.)						
Camentz, Fritz Jr., Chicago, Ill. Water-trap.	708,529	Sept. 9	959	217	100	2187
Cameron, Alexander N., Perth, Canada. Apparatus for forging car-wheels.	703,534	July 1	283	65	100	57
Cameron, Archibald, West Springfield, Mass. Paper-cleaning machine.	715,017	Dec. 2	725	153	101	1982
Cameron, Daniel, Kansas City, Mo., assignor to Cudahy Packing Company, Chicago, Ill. Rendering apparatus.	705,083	July 22	3186	688	100	695
Cameron, Daniel, Kansas City, Mo., assignor to Cudahy Packing Company, Chicago, Ill. Extracting grease.	705,084	July 22	3188	688	100	696
Cameron, Donald M. (See Johnson and Cameron.)						
Cameron, Edward F., Helena, Mont. Turbine-engine.	715,753	Dec. 16	2006	470	101	2303
Cameron, Ephraim G. (See Beidleman and Cameron.)						
Cameron, Ewan, Brooklyn, N. Y. Weighing-machine.	697,196	Apr. 8	1330	341 342	99	344
Cameron, James A. (See Conrad and Cameron.)						
Cameron, James A., Brooklyn, N. Y. Machine for cutting blanks from fabrics.	697,978	Apr. 22	2050	652	99	679
Cameron, John D. (See Manning and Cameron.)						
Cameron, John S., assignor of two-thirds to Igleheart Brothers and Melrose Milling Company, Evansville, Ind. Bran-packer.	697,131	Apr. 8	1407	314 315	99	319
Cameron, Mitchell J., Auburn, N. Y. Attachment for covers for pots, &c.	710,950	Oct. 14	1039	230	101	228
Cameron, Murdick, assignor of one-half to D. D. Murray, Duluth, Minn. Lamp-wick-snuffing device.	713,956 702,088	Nov. 18 June 10	2898 1463	644 329	101 99	1527 2426
Cameron, Perley W., New Haven, Conn. Game-table.						
Cameron, Walter A. (See Towers and Cameron.)						
Camp, Napoleon L., Skilesville, Ky. Invalid-bedstead.	703,535	July 1	285	65	100	58
Cammack, James M., Summit, N. J. Instrument for removing floor-boards singly.	700,169	May 20	2053	409	99	1630
Cammann, Frederick A., St. Louis, Mo. Pocket-fastener.	703,718	July 1	631	141	100	125
Cammann, Frederick A., St. Louis, Mo. Clain-controlled case for fans or other articles.	716,863	Dec. 30	4416	958	101	2834
Cammatt, Ira A., assignor to Denver Engineering Works Company, Denver, Colo. Ore-concentrating table.	713,747 697,232	Nov. 18 Apr. 8	2484 1586	553 355	101 99	1441 356
Camp, Harlow F., Austinville, Iowa. Shears.						
Camp, Napoleon L. (See Ward, Richard B., assignor.)						
Camp, Robert D., Chicago, Ill., assignor to Moffett Bearing Company, Council Bluffs, Iowa. Roller-bearing.	713,058	Nov. 11	1118	257	101	1142
Camp, Milton E., Hamilton, assignor of one-half to H. B. Peck, Kalamazoo, Mich. Hook and eye.	704,512	July 15	2158	467	100	468
Campbell, Alexander. (See Sheedy and Campbell.)						
Campbell, Alexander M., et al. (See Hammond, Oliver S., assignor.)						
Campbell, Alfred G., Sherbrooke, Canada. Drier for ores, &c.	712,258	Oct. 23	3582	783 615	101	788
Campbell, Alonzo C., Asheville, N. C. Coal-washer and ore-concentrator.	695,790	Mar. 18	2708	616	98	2312
Campbell, Calvin, Kansas City, Mo. Current-motor.	714,778	Dec. 2	247	49	101	1887
Campbell, Charles R., New York, N. Y. Electric railway.	706,156	Aug. 5	307	65	100	1179
Campbell, Charles R., New York, N. Y. Operating electric railways.	706,219	Aug. 5	418	90	100	1201
Campbell, Charles S. (See Gray, John, Sr., assignor.)						
Campbell, Colin, Yonkers, N. Y. Bath appliance.	699,786	May 13	1269	294 224	99	1448
Campbell, Colin, assignor to J. S. Mundy, Newark, N. J. Hoisting-engine.	692,780	Feb. 4	990	225	98	999
Campbell Cotton Tie Buckle Company. (See Campbell, Douglas M., assignor.)						
Campbell, Daniel, Fairville, Canada. Ash-remover for boiler-furnaces.	698,449	Apr. 29	3853	850 851	99	879
Campbell, David S., Liverpool, England. Cask or bottle tilter.	715,018	Dec. 2	726	154	101	1983
Campbell, Douglas M., assignor to Campbell Cotton Tie Buckle Company, Houston, Tex. Bale-band fastening.	713,203	Nov. 11	1398	315	101	1200
Campbell, Emerson B., assignor of one-half to M. H. Wangenheim, Bakersfield, Cal. Mop-head.	700,675	May 20	3017	691	99	1830
Campbell, Ephraim, Redlands, Cal. Flume-gate.	704,971	July 15	3064	658	100	654
Campbell, Eugenia C., San Francisco, Cal. Insulator.	693,567	Feb. 18	2006	576	98	1381
Campbell, Frank, Haynesville, assignor of one-third to F. A. Peabody, Houlton, Me. Shingle-packer.	693,783	Feb. 18	2039	652 653	98	1454
Campbell, George L., Nyack, N. Y., assignor to International Electric Traction Company. Electric-railway system.	699,787	May 13	1271	294	99	1448
Campbell, George L., Nyack, assignor to International Electric Traction Company, New York, N. Y. Electric-railway system. (Reissue.)	11,991	May 20	3133	712	99	1855
Campbell, Henry, Baltimore, Md. Heating material.	693,895	Feb. 25	3070	677	98	1495
Campbell, Henry H., Cleveland, Ohio. Inclined grate for automatic stoking.	702,536	June 17	3279	519	99	2614
Campbell, Henry W., et al. (See Bangley, Joseph L., assignor.)						
Campbell, Hilda and J. R., New York, N. Y.; said J. R. Campbell assignor to said Hilda Campbell. Insole.	715,754	Dec. 16	2098	470	101	2303
Campbell, Howard S., Baltimore, Md., assignor of one-third to C. D. Nicolai, Washington, D. C. Gas-burner.	693,896	Feb. 25	3072	678	98	1495
Campbell, Ike W., Mexia, Tex. Bedstead-brace.	691,352	Jan. 21	1892	424	98	427
Campbell, Irwin. (See Zimmerman, Ernst W., assignor.)						
Campbell, James, Port Blakely, Wash. Steam-trap.	708,996	Sept. 16	1873	431	100	2395
Campbell, Jeremiah, Newton, Mass. Apparatus for handling coal or other material.	717,161	Dec. 30	4987	1082 1083	101	2953
Campbell, Jeremiah, Newton, Mass. Apparatus for handling coal or other material.	717,162	Dec. 30	4994	1083 1084	101	2955
Campbell, John, New York, N. Y. Roof-pad.	691,111	Jan. 14	1385	315	98	303
Campbell, John, Denver, Colo. Water-closer.	697,803	Apr. 15	2050	587	99	594
Campbell, John D., and W. H. Yates, Manchester, England. Apparatus for diffusing vaporizable substances.	699,652	May 13	1011	235	99	1397
Campbell, John D., and J. K. Gunn, Newton, N. J. Screw-driver.	708,038	July 1	473	108	100	98
Campbell, John H., Detroit, Mich. Steam-generator.	716,187	Dec. 16	2097	654 655	101	2495
Campbell, John R. (See Campbell, Hilda and J. R.)						
Campbell, John S., London, England. Dental vulcanizer.	699,653	May 13	1012	235	99	1397
Campbell, Joseph D., Delaware, and R. C. Kyle, Columbus, Ohio. Wire-grip.	708,314	Sept. 2	536	132	100	2101
Campbell, Joseph L., Butler, Pa. Rail-joint.	694,134	Feb. 25	3633	807	98	1612
Campbell, Leon W., Woonsocket, R. I. Spinning or twisting machine.	690,634	Jan. 7	511	111	98	110
Campbell, Leon W., Woonsocket, R. I. Spinning or twisting machine.	690,694	Jan. 7	625	136	98	132



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Campbell, Leon W., Woonsocket, R. I. Spinning or twisting frame	699,491	May 6	688	159	99	1318
Campbell, Leon W., Woonsocket, R. I., assignor of one-half to M. Campbell, Boston, Mass. Loom-shuttle	703,992	July 8	1157	251	100	245
Campbell, Llenemma N., Alden, Mich. Kneading device	697,804	Apr. 15	2652	587	99	595
Campbell, Llewellyn. (See Hughes and Campbell.)						
Campbell, Loudoun, Washington, D. C., assignor of one-half to R. J. Thomas, Alexandria, Va. Fire-alarm apparatus	692,765	Feb. 4	965	219	98	994
Campbell, Louis H., Portland, Oreg. Road-vehicle coupling	717,163	Dec. 30	4995	1084 1085	101	2955
Campbell, Malcolm. (See Campbell, Leon W., assignor.)						
Campbell, Malcolm, Boston, Mass. Friction-clutch	699,447	May 6	607	139	99	1301
Campbell, Olin J., and J. B. Beam, Bigrun, Pa.; said Beam assignor to said Campbell. Composition for repairing bicycle-tires	690,903	Jan. 7	1010		98	212
Campbell Printing Press & Manufacturing Company. (See Stonemetz, John H., assignor.)						
Campbell Printing Press & Manufacturing Company. (See Wood, Henry A. W., assignor.)						
Campbell, Ross L. (See Bangs, William H., assignor.)						
Campbell, Stewart L., Kalamazoo, Mich. Display device	704,513	July 15	2159	468 668	100	468
Campbell, Walter H., Kiev, Russia. Type-writer	707,548	Aug. 26	2056	669	100	1776
Campbell, William B., Campbell-Croft, Canada. Feed-distributor	691,339	Jan. 21	2422	457	98	461
Campbell, William W., Petrolia, Pa. Drill-rood grab	702,282	June 10	1790	409	99	2494
Campbell, Wright H., Carbondale, Pa. Automatic brake mechanism	706,312	Mar. 25	3751	838 839	98	2542
Campbell, Zenas Z., South Bend, Ind. Wagon-box	694,941	Mar. 11	1162	254	98	1977
Camper, H. W., et al. (See Martenette, Frank L., assignor.)						
Camper, Harry H., et al. (See Martenette, Frank L., assignor.)						
Campion, Harry C., et al. (See Edgerton, Arthur D., assignor.)						
Canadian Copper Company. (See Browne, David H., assignor.)						
Canale, John D., Memphis, Tenn. Game	692,417	Feb. 4	711	165	98	945
Canaple, Eugène, and F. Thiebaut, Gernigny-l'Évêque, France. Pawl-and-ratchet wrench	694,251	Feb. 25	3869	858	98	1655
Canby, Ach & Canby Company. (See Bernhard, George, assignor.)						
Canda, Ferdinand E. (See Smyser, Louis B., assignor.)						
Canda, Ferdinand E., New York, N. Y. Circuit-breaker for electric igniters for explosive-engines	693,372	Feb. 18	2188	480	98	1295
Canda, Ferdinand M., New York, N. Y. Wheel	701,322	June 3	24	5	99	2113
Candee, Bertram C. (See Burdick and Candee.)						
Candee, Joseph S., Buffalo, N. Y. Non-refillable bottle	715,974	Dec. 16	2559	505	101	2402
Candlish, James, Rawlings, Wyo. Combined bridle and halter snap-book	690,831	Jan. 7	893	198	98	189
Candlish, James, Rawlings, Wyo. Bolt cutter and trimmer	694,829	Mar. 4	943	210	98	1912
Cane, Richard P., Louisville, Ky. Book	697,979	Apr. 22	2964	652	99	679
Canedy Otto Manufacturing Company. (See Canedy, William E., assignor.)						
Canedy, William E., Chicago Heights, Ill., assignor to Canedy Otto Manufacturing Company. Motor-gearing	693,837	Feb. 25	3074	678	98	1496
Canedy, William E., Chicago Heights, Ill., assignor to Canedy Otto Manufacturing Company. Chimney for blacksmiths' forges	693,838	Feb. 25	3076	678	98	1496
Canet, Jean B. G. A. (See Schneider and Canet.)						
Canfield, Frank, et al. (See Colman, Charles, assignor.)						
Canfield, Frank, assignor to Western Wire Fence Company, Denver, Colo. Wire-fence fastening-clip	706,320	Aug. 5	420	90	100	1202
Canfield, Frank, assignor to Western Wire Fence Company, Denver, Colo. Wire-fence clip	706,385	Aug. 5	771	108 369	100	1270
Canfield, Lewis T., Scranton, Pa. Combined draft and buffing frame for railway-cars	711,283	Oct. 14	1711	370	101	370
Canfield, Lewis T., Scranton, assignor to Sterlingworth Railway Supply Company, Easton, Pa. Metal freight-car	690,559	Jan. 7	368	74	98	80
Cannan, John J., assignor to Henry Likly & Company, Rochester, N. Y. Wardrobe-trunk	705,560	July 29	4358	1944 1945	100	943
Cannon, Burrell, Pittsburg, Tex. Marine propeller	695,276	Mar. 11	1785	326	98	2105
Cannon, Burrell, Pittsburg, Tex. Wind-wheel	698,391	Apr. 22	3735	825	99	840
Cannon, Edward A., Greenbay, Wis. Toy block	699,894	May 13	1362	316 317	99	1468
Cannon, Edward A., assignor to Cannon Toy Company, Casco, Wis. Toy blocks	709,467	Sept. 23	2842	638 639	100	2610
Cannon, Edwin F., Chicago, Ill. Street-car fender	703,536	July 1	287	66	100	58
Cannon, Francis M., McKeeseport, Pa. Weather-strip	694,135	Feb. 25	3654	807	98	1012
Cannon, James W. H., Orangeburg, S. C. Nut-lock	712,005	Nov. 4	833	193	101	1067
Cannon, John J., and J. M. Arnold, Omaha, Nebr. Mite or louse killing nest-egg	710,665	Oct. 7	518	108	101	105
Cannon, Joseph P., Elmo, Iowa. Wall-paper hanger	708,124	Sept. 2	232	54	100	2029
Cannon Toy Company. (See Cannon, Edward A., assignor.)						
Canode, Millard F., and C. F. Wooley, West Mansfield, Ohio. Sawdust-burning stove	697,444	Apr. 15	1996	441	99	459
Canton Machine and Manufacturing Company. (See Hunker, Martin L., assignor.)						
Cantone, Eugenio, Rome, Italy. Electromechanical device for electric traction	692,236	Feb. 4	96	8	98	806
Cantrell, William B., assignor to F. A. Anderson, Chicago, Ill. Metal gate	700,737	May 27	3189	726	99	1881
Canty, Patrick M., Altoona, Pa. Draft-rigging	711,322	Oct. 21	2748	608	101	692
Cap, John W., Newark, N. J. Revolving indicator	695,908	Mar. 25	2934	664 665	98	2374
Capen, Thomas W. (See Gates and Capen.)						
Capewell, George J., Hartford, Conn. Nippers	690,925	Jan. 14	1053	237	98	237
Capewell, George J., Hartford, Conn. Metallic garment-button	691,743	Jan. 28	2619	587	98	598
Capewell, George J., Hartford, Conn. Bearing for journals, shafts, or rotating columns	692,982	Feb. 11	1418	308	98	1116
Cappeau, Joseph P., Joplin, Mo. Ore-roasting furnace	691,112	Jan. 14	1386	315 316	98	303
Cappeller, William S., Mansfield, Ohio, and C. S. Patteson, New York, N. Y. Coupon collection and receipt book	704,856	July 15	2773	590	100	594
Capper, Arthur S., Detroit, Mich. Beet-culture implement	704,614	July 15	2531	600	100	502
Capper, Thomas, Philadelphia, Pa. Mechanism for producing pattern-cards	698,450	Apr. 29	3858	851 852 560	99	880
Capps, Edwin M., San Diego, Cal. Machine-gun	709,391	Sept. 16	2490	561 562	100	2525
Capra, Alessandro, Philadelphia, Pa. Pianista	714,666	Dec. 2	21	5, 6	101	1841
Capron, Horace M. (See Nelson, Charles O., assignor.)						
Caps, John E., Kansas City, Mo. Multicolor-printing press	696,938	Apr. 8	1068	237	99	247

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Caps, John E., Kansas City, Mo. Motor-vehicle	699,284	May 6	288	66.67	99	1293
Caps, John E., Kansas City, Mo. Variable-speed mechanism	701,203	June 3	25	6	99	2113
Caracisti, Virgilus Z., Granite, Va. Engine attachment	708,023	Sept. 2	37	9	100	1988
Caraway, Emmett L., Pigott, Ark. Seed-planter	702,401	June 17	2014	459	99	2558
Carbon Light and Power Company. (See Thayer, Russell, assignor.)						
Carbone, Tito L., Berlin, Germany. Machine for the production of folded joints of sheet metal	702,046	June 10	1373	312 313	99	2407
Carborundum Company. (See Tone, Frank J., assignor.)						
Cardella, Alexander S., Kimmundy, Ill., assignor of one-half to W. P. Leasor, Kalamazoo, Mich. Pump	699,448	May 6	609	139	99	1301
Cardiff, John, Potomac, Ill. Mechanical motor	712,359	Oct. 28	3755	821 822	101	825
Cardie, James, et al. (See Birtels, John M., assignor.)						
Carlwell, James R. (See Durbin, Richard L., assignor.)						
Carlwell Machine Company. (See Goodwin, James D., assignor.)						
Carence, Thomas, Kansas City, Mo. Nasal shield	701,538	June 3	458	103	99	2202
Carey, Abner, Cairo, Ill. Drying-kiln	704,814	July 15	2709	585 586	100	580
Carey, Augustus C., Lake Pleasant, Mass. Coin-controlled vending-machine	690,926	Jan. 14	1054	237 238	98	237
Carey, Benjamin F., Washington, D. C. Garment-hanger	696,005	Mar. 25	3104	703	98	2407
Carey, James P. (See Keville and Carey.)						
Carey, John F., Madison, assignor to E. C. Atkins & Company, Indianapolis, Ind. Com- pass-saw	703,334	June 24	3772	868	99	2937
Carey, Patrick W. (See Dempsey, James T., assignor.)						
Carey, William P. (See Renaud and Carey.)						
Carey, Wilson W., Lowell, Mass. Planing-machine	702,341	June 10	1898	433 434	99	2513
Carey, Wilson W., Lowell, Mass. Compression shaft-coupling	711,284	Oct. 14	1713	370	101	370
Carichoff, Eugene R., East Orange, N. J. Controller for electric motors	715,975	Dec. 16	2561	565	101	2402
Carichoff, Eugene R., assignor to Otis Elevator Company, East Orange, N. J. Electric switch	706,527	Aug. 12	1040	229	100	1340
Carichoff, Eugene R., East Orange, N. J., assignor to Sprague Electric Company. Con- trol of dynamo-electric machinery	706,723	Aug. 12	1386	309	100	1416
Carl, John H., assignor of one-half to T. Harris, Gilroy, Cal. Rifle	705,736	July 29	4688	1014	100	1008
Carl, John, assignor of one-half to H. B. Jessup, Havana, N. D. Egg-tester	717,343	Dec. 30	5331	1160	101	3028
Carleton Electric Company. (See Carleton, Henry G., assignor.)						
Carleton, Henry G., New York, N. Y. Lock	698,812	Apr. 29	4603	1015	99	1044
Carleton, Henry G., New York, N. Y. Electric alarm and fastening device	698,813	Apr. 29	4605	1016	99	1045
Carleton, Henry G., assignor to Carleton Electric Company, New York, N. Y. Lock	698,811	Apr. 29	4601	1015	99	1044
Carlgen, Knut W., East Millcreek, Utah. Animal-trap	691,335	Jan. 14	1850	419	98	404
Carlisle, Charles C., near Kamiah, Idaho, assignor of one-half to F. Bond, Cheyenne, Wyo. Self-adjusting weir	706,526	Aug. 12	1040	229	100	1340
Carlisle, Ezra L., Minneapolis, Minn. Nail-holding attachment for hammers	698,631	Apr. 29	4206	929	99	951
Carliss, Albert, assignor to American Electric Telephone Company, Chicago, Ill. Oper- ator's key	692,825	Feb. 11	1081	248	98	1045
Carljude, Wilhelm, assignor to Aktiebolaget Bleckvarufabriken I. Lund, Lund, Sweden. Machine for fastening the bottoms in angular vessels of sheet metal	704,735	July 15	2538	548 549	100	546
Carll, Addison B., New York, N. Y. Hanger for pipes, &c.	702,704	June 17	2591	596	99	2679
Carlton, Carlo, Milan, Italy. Brake	716,188	Dec. 16	2999	655 656	101	2495
Carlrow & Putnam Company. (See Baer, Ivan F., assignor.)						
Carlson, Carl G., and A. Tunall, Dubois, Pa. Mechanism for securing lags to carrier- chains	700,016	May 13	1710	393	99	1540
Carlson, Andrew E., Elcampo, Tex. Casing point or strainer	700,015	May 13	1706	393	99	1539
Carlson, Carl A. (See Palmer and Carlson.)						
Carlson, Charles A. (See Schneider and Carlson.)						
Carlson, Charles G., Chicago, Ill. Curtain-stretcher	701,014	May 27	3717	852	99	1991
Carlson, Charles G., and W. A. Mayr, Chicago, Ill. Easel-leg for curtain-stretchers	692,826	Feb. 11	1084	243	98	1046
Carlson, Charles M., Odebolt, Iowa. Corn-cultivator	700,017	May 13	1710	393	99	1540
Carlson, Conrad, Brooklyn, N. Y. Hod-elevator	713,204	Nov. 11	1399	315	101	1201
Carlson, Edward, and J. Perrie, Chicago, Ill. Bolster	703,993	July 8	1158	232	100	245
Carlson, Enoch. (See Halden, John A., assignor.)						
Carlson, Frank O., and B. J. Hazland, Valley City, N. D. Cloth-cleaning device	704,615	July 15	2331	506	100	502
Carlson, Frank W., Chicago, Ill. Sewer-pipe connection	706,298	Aug. 5	596	130	100	1235
Carlson, Gabriel, Springfield, Mass. Confectionery-depositing machine	712,649	Nov. 4	353	82	101	971
Carlson, Gabriel, assignor to Confectioners' Machinery and Manufacturing Company, Springfield, Mass. Coating-machine	708,125	Sept. 2	234	54.55	100	2030
Carlson, Irgens. (See Tonnesen and Carlson.)						
Carlson, John E., Bristol, Conn. Knife	690,927	Jan. 14	1058	233	98	238
Carlson, John G., Eggleson, Minn. Railway tie or bridle	713,957	Nov. 18	2900	644	101	1527
Carlson, Sven, Stockholm, Sweden. Cleaner for burner-tips	709,077	Sept. 16	2047	467	100	2431
Carlson, Sven, Stockholm, Sweden. Pressure-reducing valve	714,143	Nov. 25	3258	718	101	1622
Carlstedt, John A., Brooklyn, N. Y., assignor to G. F. Spencer, Newark, N. J. Combined reflector or lamp-shade and collar	734,711	July 15	2491	539	103	537
Carlton, Portland, Kansas City, Mo. Impressing-machine	714,667	Dec. 2	24	6	101	1842
Carlton, Harvey B. (See Albart, Clarence E., assignor.)						
Carlton Manufacturing Company. (See Roegner, George, assignor.)						
Carmack, J. W. (See Baldwin, George A., assignor.)						
Carman, Charles W., Chicago, Ill. Hoisting mechanism	706,019	Aug. 5	25	6	100	1121
Carman, Charles W., Chicago, Ill. Image-projecting apparatus	707,084	Aug. 19	2076	463	100	1574
Carman, Clarence A., Bayshore, assignor of one-third to B. P. Field, Babylon, N. Y. Roller-bearing	709,136	Sept. 10	2162	495	100	2456
Carman, Elijah, assignor of one-half to H. W. Baughman, Georgetown, Ill. Painter's or decorator's scaffold	711,384	Oct. 14	1899	414	101	411
Carman, Oscar M., Indianapolis, Ind. Change-speed gearing	711,937	Oct. 28	2994	658	101	673
Carman, Ringgold W., and F. M. Lawrence, Flushing, N. Y. Formaldehyde-gas gener- ator	699,944	May 13	1596	364	99	1518
Carmical, Oliver L., Monk, Ga. Plow	706,386	Aug. 5	772	108 109	100	1270
Carmichael, Archibald D., Broken Hill, New South Wales, Australia. Desulfurizing of sulfid ores preparatory to smelting	705,904	July 29	4974		100	1067
Carmichael, Henry W. (See Howe, Henry R., assignor.)						
Carmichael, John, Franklin, Wash. Machine for cutting, expanding, and beading tubes or flues	717,344	Dec. 30	5333	1160	101	3028



## Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Carmont, William E., Kingston-upon-Thames, England. Resilient tire for vehicle-wheels.	708,864	Sept. 9	1608	367 368	100	2324
Carnahan, Cyrus M., Allegheny, Pa. Building construction.	693,494	Feb. 18	2418	528 529	98	1343
Carnahan, Cyrus M., Allegheny, Pa. Car-truck.	694,942	Mar. 11	1164	254 255	98	1977
Carnahan, Cyrus M., Allegheny, Pa. Metallic-car construction.	713,748	Nov. 18	2486	553 554	101	1442
Carnahan, Cyrus M., Allegheny, Pa. Brake apparatus.	714,779	Dec. 2	249	50	101	1887
Carneal, Edwin E., Washington, D. C. Railway-switch.	700,615	May 20	2917	672	99	1807
Carnegie Steel Company. (See Wilmot, Clarence L., assignor.)						
Carnes, John W., assignor of one-half to G. Walker, Pierce, Ohio. Roofing-tile.	691,239	Jan. 14	1619	370	98	353
Carney, Charles J., and J. C. Gorton, Dunkirk, N. Y. Stay-bolt cutter.	713,600	Nov. 18	2217	492 493	101	1383
Carney, Estes, Prairiegrove, Ark. Portable sawmill.	695,194	Mar. 11	1639	364	98	2076
Carney, John E., Montgomery, Ala. Telegraph.	715,617	Dec. 9	1334	287	101	2128
Carney, Thomas, Dayton, Ohio, assignor to National Cash Register Company, Jersey City, N. J. Cash-register.	696,224	Mar. 25	3503	788	98	2502
Carney, Thomas, Dayton, Ohio, assignor, by mesne assignments, to National Cash Register Company, Jersey City, N. J. Cash-register.	699,100	Apr. 29	5112	1130 1131	99	1150
Carney, Thomas, Dayton, Ohio, assignor, by mesne assignments, to National Cash Register Company, Jersey City, N. J. Cash-register.	700,896	May 27	3485	799 800 801	99	1943
Carnochan, John W., assignor to Huntley Manufacturing Company, Silvercreek, N. Y. Machine for threshing peas, beans, &c.	717,345	Dec. 30	5385	1161	101	3020
Carolan, Patrick, Cleveland, Ohio. Rod-coupling.	715,576	Dec. 16	2563	506	101	2462
Carolin, James B., Newark, N. J. Hose-supporter.	691,440	Jan. 21	2043	458	98	461
Carolina Agricultural Implement Manufacturing Company. (See Castles, William B., assignor.)						
Carolus, William B., Sterling, Ill. Bolt and nut cutter.	710,181	Sept. 30	4249	958	100	2916
Carolus, William B., Sterling, Ill. Bolt and nut cutter.	710,182	Sept. 30	4251	958	100	2917
Carothers, Lawrence T., Carey, Ohio. Mail-box indicator.	713,958	Nov. 18	2201	644	101	1528
Carothers, Samuel E., Conroe, Tex. Rotary engine.	715,977	Dec. 16	2563	507	101	2403
Carpenter, Charles W., et al. (See North, Thomas M., assignor.)						
Carpenter, Edwin F. (See Proctor and Carpenter.)						
Carpenter, Eugene H., Florence, Colo. Self-closing gate.	701,676	June 3	719	158	99	2259
Carpenter, Frank A., Washington, D. C. Roller-screen for car-windows.	714,302	Nov. 25	3708	816	101	1713
Carpenter, Horace G., Westbend, Iowa. Sleeve-holder.	700,478	May 20	2680	614	99	1757
Carpenter, John, et al. (See Sprague, Lewis G., assignor.)						
Carpenter, John C., Canton, Ohio. Mucilage-bottle.	692,237	Feb. 4	38	8	98	806
Carpenter, Lewis A., and S. Mahony, Revere, Mass. Submarine boat.	691,353	Jan. 21	1883	424	98	427
Carpenter, Rolla C., Ithaca, N. Y., assignor to Atlas Portland Cement Company. Feeding fine fuel.	691,336	Jan. 14	1852	419	98	404
Carpenter, Rolla C., Ithaca, N. Y., assignor to Atlas Portland Cement Company. Apparatus for feeding fine fuel.	691,337	Jan. 14	1855	419	98	405
Carpenter Steel Company. (See Brown, George B., assignor.)						
Carpenter Steel Company. (See White, Harry H., assignor.)						
Carpenter, Stephen D., E. R. Stevens, and C. K. Tenney, Madison, Wis. Voting-machine.	644,830	Mar. 4	945	210	98	1912
Carpenter, Theodore M., and F. L. Baker, Los Angeles, Cal. Ventilator.	703,762	July 1	712	158	100	142
Carpenter, Thomas E., Providence, R. I. Cigar-machine.	703,179	June 24	3507	807	99	2881
Carpentier, Jules, Paris, France. Automatic musical instrument.	697,980	Apr. 22	2266	653 654	99	680
Carpet Yarn Printing Company. (See Forander, Alfred, assignor.)						
Carr, Caroline, Sunderland, England. Non-refillable bottle.	692,766	Feb. 4	969	219	98	905
Carr, Charles, Boston, Mass., assignor to J. G. and F. Clothes Pin Co. Machine for scoring, riveting, and printing clothes-pins.	713,285	Nov. 11	1603	363 364	101	1241
Carr, David M., Rochester, N. Y. Cord-adjuster.	710,666	Oct. 7	513	108	101	105
Carr, Edward D., Gold, Pa. Fence.	712,259	Oct. 28	3386	783	101	789
Carr, Edward F., Los Angeles, Cal. Display-box.	692,618	Feb. 4	713	165	98	945
Carr, George, Carville, Iowa. Frame for doors or windows.	706,157	Aug. 5	309	65	100	1180
Carr, George J., assignor of one-half to G. M. Sparks, Oroville, Cal. Wagon-jack.	711,098	Oct. 14	1345	292	101	293
Carr, Hannibal H. (See Jones, Davis B., assignor.)						
Carr, Hugh S., Lawrence, Kans. Apparatus for determining the frequency of alternating currents.	691,441	Jan. 21	2044	458	98	461
Carr, John C., Burlington, Ind. Eaves-trough.	691,744	Jan. 28	2020	387	98	598
Carr, John F., St. Louis, Mo. Horse breaker and starting machine.	698,903	Apr. 29	4707	1056 1057	99	1085
Carr, John L., Chicago, Ill. Printing attachment for paper-clips.	704,180	June 24	3509	807	99	2881
Carr, Julian S. (See Egan, Charles E., assignor.)						
Carr, William M., assignor to Schickel, Harrison and Howard Iron Company, East St. Louis, Ill. Electric combustion-furnace.	699,140	May 6	37	10	99	1183
Carr, William T. (See Baker and Carr.)						
Carrell, Wilber A., West Homestead, assignor of one-half to J. O. Horning, Pittsburg, Pa. Electric controller.	710,006	Sept. 30	4078	920	100	2880
Carrick, William, Boston, Mass. Sash-fastener.	694,612	Mar. 4	534	116	98	1827
Carrier, Lyman, Joliet, Ill. Detector-bar for railway-switches.	703,537	July 1	289	66	100	58
Carrier, Roy J., and J. W. Low, assignors to Howe and Davidson Company, Chicago, Ill. Box folding and pasting machine.	705,205	July 22	3547	768 769 770 771	100	769
Carrington, Jackson D., deceased, Newcastle, Pa.; J. S. Whitla, administrator. Automobile.	704,296	July 8	1734	378	100	364
Carroll, Arthur B., assignor to Baumgarten and Company, Baltimore, Md. Printing-press.	710,024	Dec. 23	3869	845	101	2691
Carroll, Charles J., Baltimore, Md. Baby tender and walker.	715,978	Dec. 16	2565	567	101	2403
Carroll, Elbert H. (See Edwards and Carroll.)						
Carroll, Fred A., Penn Yan, N. Y. Switch-operating mechanism.	701,730	June 3	910	203	99	2298
Carroll, George P. (See Cooper, George L., assignor.)						
Carroll, John J., assignor to National Malleable Castings Company, Cleveland, Ohio. Apparatus for marking castings.	691,442	Jan. 21	2046	458	98	461
Carroll, John J., assignor to National Malleable Castings Company, Cleveland, Ohio. Mold for casting.	694,315	Feb. 25	4058	902	98	1655
Carroll, John L., Baltimore, Md. Set of type for printing calendars.	701,677	June 3	720	158	99	2259

## Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Carroll, John M. (See McDonald, Patrick, assignor.)						
Carroll, Le Roy A., <i>et al.</i> (See Carroll and Roberts, assignors.)						
Carroll, Michael J., <i>et al.</i> (See Clinton, John, assignor.)						
Carroll, Ray C., and G. S. Roberts, Galesburg, Ill., assignors of part to H. E. Baker, N. L. Newton, Ottumwa, Iowa; P. P. Worden, C. J. Larson, M. R. Worden, Galesburg, and L. A. Carroll, Sheffield, Ill. Valve-motion	715,755	Dec. 16	2099	471	101	2304
Carroll, Thomas, Dayton, Ohio, assignor to National Cash Register Company, Jersey City, N. J. Cash-register	697,981	Apr. 22	2972	655	99	680
Carroll, Thomas, Dayton, Ohio, assignor to National Cash Register Company, Jersey City, N. J. Cash-register	700,479	May 20	2681	614	99	1758
Carroll, Thomas, Dayton, Ohio, assignor to National Cash Register Company, Jersey City, N. J. Cash-register	703,639	July 1	475	108	100	93
Carroll, Timothy, Anaheim, Cal. Side dump for vehicles	717,074	Dec. 30	4827	1047	101	2919
Carroll, Wilson J., Denver, Colo. Cash-register		Mar. 4	371	82	98	1791
Carroll, Wilson J., Cripplecreek, Colo. Combination-lock		Sept. 16	2047	468	100	2431
Carryl, Henry D., New York, N. Y., assignor to J. R. Hay, Nutley, N. J. Painting apparatus	703,385	July 1	40	8	100	10
Carson, Alvah J. (See Travis, William, assignor.)						
Carson, Frank W., Shelby, Ohio. Steam-cooker	691,943	Mar. 11	1166	255	98	1978
Carson, George. (See McGorman, James O., assignor.)						
Carson, George C., Redding, Cal. Apparatus for treating metals	694,348	Mar. 4	15	4	98	1716
Carson, George C., assignor of two-thirds to A. Miller, Redding, Cal., and F. Hurst, Washington, D. C. Converter	714,449	Nov. 25	3861	853	101	1743
Carson, George C., assignor of two-thirds to F. Hurst, Redding, Cal., and A. Miller, Washington, D. C. Treating metal	714,450	Nov. 25	3863	853	101	1743
Carson, George C., Redding, Cal., assignor of two-thirds to A. Miller, Washington, D. C., and F. Hurst, Redding, Cal. Continuous converter	714,451	Nov. 25	3865	854	101	1743
Carson, James G. (See Clark, Chauncey C., assignor.)						
Carson, Robert J., Buffalo, N. Y., and E. D. Cundell, Paterson, N. J.; said Carson assignor to C. G. Holzapfel, New York, N. Y. Cascade-tumble	695,444	Mar. 18	2074	468	98	2184
Carson, Robert N., San Francisco, Cal. Glove	706,724	Aug. 12	1389	309	100	1416
Carson, Robert N., San Francisco, Cal. Glove	709,535	Sept. 23	3102	631	100	2566
Carson, William D., Centralia, Ill. Rotary churn	699,101	Apr. 29	5115	1131	99	1151
Carstairs, John, Bradford, England. Separating proteids from non-nitrogenous bodies	713,395	Nov. 11	1815	-----	101	1286
Carstensen, Max, assignor to Firm of Vereinigte Maschinenfabrik Augsburg und Maschinenbaugesellschaft Nürnberg, A.-G., Nuremberg, Germany. Flood-gate dam or weir	692,610	Feb. 4	714	165	98	945
Carstensen, Max, Wiesbaden, assignor to Vereinigte Maschinenfabrik Augsburg und Maschinenbaugesellschaft "Nürnberg A. G.," Nuremberg, Germany. Flood-gate having movable closing body	715,979	Dec. 16	2567	567	101	2403
Carstens, John. (See Ludwig and Carstens.)						
Carswell, Edwin H., Hackensack, N. J., assignor to E. C. Seaman, New York, N. Y. Milk-can	712,993	Nov. 4	989	232	101	1098
Carter, Albert B., Hazlehurst, Miss. Car-coupling	709,468	Sept. 23	2847	639	100	2011
Carter, Alfred G. (See Carter, John, assignor.)						
Carter, Byron B. (See Tullock, Modjeski, and Carter.)						
Carter, Byron B. (See Wende and Carter.)						
Carter, Cyrus C., Preston, Ga. Grappling-tongs	710,424	Oct. 7	48	11	101	12
Carter, Ezra W., Cohoes, N. Y. Garment-supporter	690,635	Jan. 7	513	112	98	110
Carter, Francis A., Chicago, Ill. Device for severing bolts, rivets, &c	693,231	Feb. 11	1927	419	98	1220
Carter, Frank L., Dorsey, Md., assignor of one-fourth to L. C. Bailey, Washington, D. C. Hydrocarbon-burner	711,936	Oct. 28	2991	658	101	672
Carter, George L., <i>et al.</i> (See Wiley, Edgar C., assignor.)						
Carter, George M., assignor to himself and W. Ferguson, Poplarbluff, Mo. Machine for finishing barrels	703,994	July 8	1159	251	100	246
Carter, Henry L., New York, N. Y. Elastic plaster	695,031	Mar. 11	1340	-----	98	2012
Carter, Hiram C., Groesbeck, Tex. Bolt-holder	696,006	Mar. 25	3105	703	98	2407
Carter, James D., Baker City, Oreg. Fruit-gatherer	691,595	Jan. 21	2316	521	98	517
Carter, John, <i>et al.</i> (See Harden, Harry, assignor.)						
Carter, John, assignor of one-half to A. G. Carter, Malden, Mass. Eyeglasses	706,899	Aug. 12	1747	390	100	1491
Carter, John D., Coalhill, Ark. Score-board	700,738	May 27	3184	726	99	1882
Carter, John R. (See Hausfeld and Carter.)						
Carter, John R., Augusta, Ky., assignor to E. H. Huenefeld, Cincinnati, Ohio. Connecting device	694,459	Mar. 4	233	51	98	1702
Carter, John R., Augusta, Ky., assignor to E. H. Huenefeld, Cincinnati, Ohio. Connecting device	696,549	Apr. 6	280	65	99	63
Carter, John R., Augusta, Ky., assignor to E. H. Huenefeld, Cincinnati, Ohio. Coupling for pitmen	707,386	Aug. 19	2641	596	100	1694
Carter, John R., Augusta, Ky., assignor to E. H. Huenefeld, Cincinnati, Ohio. Gearing	711,035	Oct. 14	1214	266	101	297
Carter, John R., Augusta, Ky., assignor to E. H. Huenefeld, Cincinnati, Ohio. Portable over	711,285	Oct. 14	1714	370	101	371
Carter, John R., Augusta, Ky., assignor to E. H. Huenefeld, Cincinnati, Ohio. Gearing	713,396	Nov. 11	1816	408	101	1286
Carter, John R., Augusta, Ky., and J. E. Hausfeld, assignors to E. H. Huenefeld, Cincinnati, Ohio. Coupling	707,674	Aug. 26	3218	722	100	1880
Carter, John R., Augusta, Ky., and J. E. Hausfeld, assignors to E. H. Huenefeld, Cincinnati, Ohio. Gearing	708,315	Sept. 2	587	133	100	2101
Carter, John W., Franklin, N. J. Magnetic ore-separator	702,184	June 10	1634	366	99	2462
Carter, John W., Rutherford, N. J., assignor to W. S. Block, Brooklyn, N. Y. Gas-heater	710,248	Sept. 30	4374	983	100	2944
Carter, Leonard, <i>et al.</i> (See McLaughlin, James A., assignor.)						
Carter, Lincoln J., Chicago, Ill. Theatrical scenery	703,763	July 1	714	158	100	143
Carter, Mansion C., Hearne, Tex. Tire for vehicle-wheels	708,997	Sept. 16	1875	431	100	2395
Carter, <i>Miscellaneous</i> (See Harden, Harry, assignor.)						
Carter, Nancy, Yazoo City, Miss. Flow-preventer	692,620	Feb. 4	716	165	98	946
Carter, Rice & Company. (See Arnold, Frank K., assignor.)						
Carter, Robert A. (See Scrimgeour and Bunte, assignors.)						
Carter, Robert A., Pittsburg, Pa. Puddling iron	701,294	June 3	28	-----	99	2114
Carter, Robert H., Kimbolton, New Zealand. Ax-head and handle therefor	695,669	Mar. 18	2497	567	98	2270
Carter, William J., Brockton, Mass. Electric time-switch	690,833	Jan. 7	894	198	98	189
Cartledge, Wright R. (See Ware and Cartledge.)						
Cartledge, Frank, assignor to Morgan-Gardner Electric Company, Chicago, Ill. Lubricator	708,022	Sept. 2	36	8, 9	100	1988



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Cartwright, Eugene O., Augusta, Ark. Device for cutting circles	703,538	July 1	290	66	100	58
Caruthers, Martha J., Sherman, Tex. Dress-supporter	701,147	May 27	3953	910	99	2042
Carvalho, Carlos C. D., Lisbon, Portugal. Marine propeller	703,181	June 24	3512	807	99	2882
Carver, Cephas R. (See Hewston, Howard S., assignor.)						
Carver, James W., Auburn, Me. Machine for making spool-blanks	700,480	May 20	2684	615	99	1759
Carver, John F., Boston, and J. L. Sturtevant, Quincy, assignors to Henry Thayer and Company, Cambridgeport, Mass. Carton or package	714,668	Dec. 2	27	6	101	1842
Cary, Henry B., Los Angeles, Cal. Voting-machine	694,528	Mar. 4	377	82, 83	98	1793
Cary, Henry B., Los Angeles, Cal. Word-counting attachment for type-writing machines	701,840	June 10	991	221	99	2439
Cary, Henry B., Los Angeles, Cal. Burner	715,548	Dec. 9	1719	379	101	223
Cary, Henry B., Los Angeles, Cal. Hydrocarbon-burner	715,549	Dec. 9	1722	380	101	224
Cary, Henry B., Los Angeles, Cal. Hydrocarbon-burner	715,550	Dec. 9	1724	380	101	224
Cary, Henry B., Los Angeles, Cal. Burning liquid fuel	715,638	Dec. 9	1860	413	101	2233
Cary, Julian E., San Francisco, Cal. Rotary engine	703,644	July 29	4501	977	100	971
Cary, Melancthon. (See Moyers, William R., assignor.)						
Cary, Robert J., Northboro, Mass. Cash-register	713,205	Nov. 11	1401	315	101	1201
Casaday, William L., South Bend, Ind. Rotary engine	702,624	June 17	2148	558	99	2649
Cascaden Manufacturing Company. (See Cascaden, Thomas, Jr., assignor.)						
Cascaden, Thomas, Jr., assignor to Cascaden Manufacturing Company, Waterloo, Iowa. Hay-stacker	706,299	Aug. 5	597	130	100	1236
Case, Adelbert B., Springfield, Mass. Ball-bearing for lawn-mowers	707,238	Aug. 19	2481	557	100	1661
Case, Edward D., Flint, Mich. Pipe-cleaning apparatus	709,302	Sept. 16	2495	562	100	2525
Case, Frank B., assignor to Riggs-Spencer Company, Rochester, N. Y. Driving, braking, and coasting mechanism	708,201	Sept. 2	386	90	100	2060
Case, Frank B., assignor to Riggs-Spencer Company, Rochester, N. Y. Cushion-frame for vehicles	708,202	Sept. 2	389	90	100	2061
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Electric brake	695,144	Mar. 11	1554	345	98	2058
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Electric controller	697,132	Apr. 8	1412	315	99	321
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Electric controller	697,445	Apr. 19	1998	441	99	459
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Train-control system	706,020	Aug. 5	30	6	100	1122
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Coupling for electric motors	708,024	Sept. 2	40	10	100	1989
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Brake-shoe	712,650	Nov. 4	354	82	101	971
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Operating electric brakes	712,994	Nov. 4	990	232	101	1099
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Rheostat	713,601	Nov. 18	2219	493	101	1884
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Means for synchronizing motors	715,019	Dec. 2	727	154	101	1983
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Synchronizing motors	715,195	Dec. 2	1040	224	101	2049
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Motor-control system	716,189	Dec. 16	3001	656	101	2496
Case, George A., Joplin, Mo. Railway-rail	692,115	Jan. 28	3296	746	98	733
Case, George L., Minneapolis, Minn. Sack for stools	693,685	Feb. 18	2732	615	98	1419
Case, Hadley C. (See Case and Vincent, assignors.)						
Case, Henry M. (See Hankins, Lewis T., assignor.)						
Case, John E., Clifton Springs, and W. T. Conway, Canandaigua, N. Y. Metallic vessel	713,959	Nov. 18	2902	645	101	1528
Case, John W. (See Schwemle and Case.)						
Case Manufacturing Company. (See Burner, William L., assignor.)						
Case, Omer P., and T. Y. Vincent; said Case assignor to H. C. Case, Canandaigua, N. Y. Wire	715,980	Dec. 16	2568	568	101	2404
Case, Sharon, Montezuma, Ind. Duplicator	699,075	Apr. 29	5075	1122	99	1143
Case, Theodore N., Mount Vernon, N. Y. Air-pump	707,321	Aug. 26	3550	802	100	1896
Case, Wilmer S., Haywards, assignor of one-half to J. H. Hunt, Oakland, Cal. Can-body-forming machine	704,173	July 8	1517	325	100	319
Casim Company of America. (See Dunham, Henry V., assignor.)						
Cassey, Frederick A., Billerica, and A. E. Cutler, Somerville, Mass., assignors to Ashton Valve Company, Hartford, Conn. Safety-valve	716,864	Dec. 30	4418	958	101	2834
Casey, John T., Philadelphia, Pa., assignor to Keystone Lantern Company. Lantern	717,346	Dec. 30	5339	1161	101	3030
Casgrain, Louis A., Winchester, Mass., assignor, by mesne assignments, to United Shoe Machinery Company. Machine for inserting metallic fastenings	691,354	Jan. 21	1885	425	98	428
Casgrain, Louis A., Winchester, Mass., assignor to United Shoe Machinery Company, Boston, Mass., and Paterson, N. J. Machine for inserting fastenings	693,686	Feb. 18	279			

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Cassel, Henry R., New York, N. Y. Apparatus for recovering precious metals from refractory ores.....	694,350	Mar. 4	17	4	98	1716
Cassella & Co., Leopold. (See Engman, Carl, assignor.)						
Cassella & Co., Leopold. (See Herz, Richard, assignor.)						
Cassella & Co., Leopold. (See Kertesz, Adolf, assignor.)						
Cassella & Co., Leopold. (See Weinberg, Arthur, assignor.)						
Cassella & Co., Leopold. (See Weinberg and Herz, assignors.)						
Cassella & Co., Leopold. (See Weinberg and Klingemann, assignors.)						
Cassella & Co., Leopold. (See Weinberg and Lange, assignors.)						
Casser, Constantine. (See Krebs, John F., assignor.)						
Casswell, Richard H., assignor of one-half to W. E. Burns, Vancouver, British Columbia, Canada. Strainer.....	712,360	Oct. 28	3757	822	101	825
Casteel, Charles E., and W. B. Fail, assignors of one-half to C. E. Hamilton, Little River, Kans. Adjustable riddle for winnowers.....	697,824	Apr. 8	1746	389 7390	99	391
Castelberg, Joseph. (See Wiesenfeld, Robert S., assignor.)						
Castelin, André, assignor to Société Anonyme d'Etudes et d'Exploitation des Brevets A. Castelin pour Machines Agricoles Automobiles, Paris, France. Rotary apparatus or plow for treatment of ground.....	704,837	July 15	2776	600 601	100	595
Castelin, André, assignor to Société Anonyme d'Etudes et d'Exploitation des Brevets A. Castelin pour Machines Agricoles Automobiles, Paris, France. Knotting device for harvesting-machines.....	708,316	Sept. 2	588	139 134	100	2101
Castelnau, Marcelin, and C. Thialon, Paris, France. Vapor-generator.....	696,797	Apr. 1	761	173	99	162
Castelin, Warren S., Pittsboro, Pa. Hoof-trimmer.....	707,822	Aug. 26	3554	803	100	1897
Casterline, Barnabas J., Olalla, Oreg. Store-damper regulator.....	694,460	Mar. 4	234	52	98	1762
Casterline, Barnabas J., Olalla, Oreg. Folding crate.....	697,806	Apr. 15	2654	588	99	595
Castle Brook Carbon Black Company. (See Mann, John H., assignor.)						
Castle Brook Carbon Black Company. (See Mann, John L., assignor.)						
Castle, Oliver H., Indianapolis, Ind. Suction-valve.....	691,443	Jan. 21	2047	458	98	461
Castleman, James W., Vinegrove, Ky. Trap-door for banks, &c.....	717,164	Dec. 30	4998	1085	101	2956
Caster, Charles E., and L. H. Buckley, Worcester, Mass. Envelop.....	708,744	Sept. 23	3375	757	100	2729
Castles, William B., Hickory, S. C., assignor to Carolina Agricultural Implement Manufacturing Company. Cotton-chopper.....	711,417	Oct. 14	1949	424	101	420
Castro, Angel de, New York, N. Y., assignor to United States Wireless Message Co. Receiver for wireless telegraphy.....	712,764	Nov. 4	544	126	101	1009
Caswell, David W., Adair, Canada. Portable granary.....	711,470	Oct. 21	2064	146 1447	101	457
Caswell, Myron J., assignor to Latham & Company, Sandusky, Ohio. Spraying apparatus.....	705,645	July 29	4504	977	100	972
Cataract Tool and Optical Company. (See De Zeng, Henry L., Jr., assignor.)						
Cataract Tool and Optical Company. (See Smith and Gibbs, assignors.)						
Catchpool, Ernest, Deal, England. Protection of driving-chains.....	702,775	June 17	2731	627	99	2708
Cate, John Q. A., Arlington, Mass. Burglar-alarm.....	700,897	May 27	3498	801	99	1944
Caters, Pierre de, Berchem, near Antwerp, Belgium. Pneumatic tire for vehicle-wheels.....	710,562	Oct. 7	322	70	101	65
Cates, William A., Fisher, Wash. Fruit-drier.....	690,834	Jan. 7	896	198 199	98	189
Cathcart, Arthur W., Philadelphia, Pa., assignor to Lanston Monotype Machine Company, Washington, D. C. Making justified matrices.....	700,300	May 20	2326	530	99	1687
Cathcart, Arthur W., Philadelphia, Pa., assignor to Lanston Monotype Machine Company, New York, N. Y. Die mechanism for matrices.....	700,301	May 20	2928	530	99	1687
Cather, Charles E., and L. H. Buckley, Worcester, Mass. Envelop.....	705,036	July 22	3191	689	100	696
Cathrein, Josef, Munich, Germany, assignor to I. Friedinger, Oberthal, near Linz, Austria-Hungary. Skirt-protector.....	707,387	Aug. 19	2643	597	100	1694
Catlin, Abel D., Chattanooga, Tenn. Insulator-pin machine.....	701,539	June 3	460	103	99	2202
Catlin, Alice M., Montrose, Colo. Educational appliance.....	691,113	Jan. 14	1388	316	98	304
Catlin, Ida B., Philadelphia, Pa. Device for inflating tires of vehicles.....	717,165	Dec. 30	5000	1096	101	2956
Caton, Fred E., and F. B. Warring, assignors to Caton's Foundry and Machine Company, San Jose, Cal. Gas-generator.....	703,995	July 8	1161	252	100	246
Caton's Foundry and Machine Company. (See Caton and Warring, assignors.)						
Caton's Foundry and Machine Company. (See Warring, Franklin B., assignor.)						
Cattley, Eardley C. (See Cattley, Edward C. and E. M., assignors.)						
Cattley, Edward C. and E. M., assignors of one-third to E. C. Cattley, Brooklyn, N. Y. Line-guide for fishing-rods.....	703,996	July 8	1164	253	100	247
Cattley, Ernest M. (See Cattley, Edward C. and E. M.)						
Catzen, Lillie H., Baltimore, Md. Shield for personal wear.....	708,317	Sept. 2	591	134	100	2101
Caudry, Bailey C., and C. F. Deplanty, Coffeyville, Kans.; said Deplanty assignor to said Caudry. Needle for self-feeding harvesting-machines.....	691,240	Jan. 14	1620	370	98	353
Caugherty, George H., Millvale, Pa. Hose-coupling.....	703,182	June 24	3514	808	99	2852
Caughy, Albert E., Omaha, Nebr., assignor of one-half to J. E. Hollenbeck, Pottawatomie, Iowa. Railway signal and alarm.....	717,075	Dec. 30	4931	1047	101	2920
Causey, Joseph L., Kansas City, Mo. Scraper for dough-cutting machines.....	696,939	Apr. 8	1073	237	99	248
Cavallaro, Francisco, San Jose, Cal. Nut-lock.....	711,823	Oct. 21	2749	608	101	608
Cavanagh, James, Jr., Brockton, assignor to United Shoe Machinery Company of the State of New Jersey, Boston, Mass. Lasting-machine.....	696,717	Apr. 1	616	137 138	99	134
Cavanagh, John E., Cloquet, Minn. Water-circulating system for steam-boilers.....	655,088	Mar. 11	1439	317 318	98	2033
Cavanagh, John E., Cloquet, Minn. Smoke-burning furnace.....	695,089	Mar. 11	1441	319	98	2034
Cavanagh, Joseph R., J. B. Hannan, and J. D. Clarke, Indianapolis, Ind. Car-record device.....	692,116	Jan. 28	3297	746	98	733
Cavanagh, Joseph R., J. B. Hannan, and J. D. Clarke, Indianapolis, Ind. Car-record device.....	700,394	Sept. 16	2687	603	100	2566
Cavanagh, Richard B., Washington, D. C., assignor, by mesne assignments, to Kempshall Manufacturing Company. Golf-ball.....	710,750	Oct. 7	676	141	101	137
Cavanagh, Richard B., Washington, D. C., assignor, by mesne assignments, to Kempshall Manufacturing Company. Golf-ball.....	710,751	Oct. 7	677	141	101	138
Cavanagh, Richard B., Washington, D. C., assignor, by mesne assignments, to Kempshall Manufacturing Company. Golf-ball.....	710,752	Oct. 7	679	142	101	138
Cavanagh, Richard B., Washington, D. C., assignor, by mesne assignments, to Kempshall Manufacturing Company. Golf-ball.....	710,753	Oct. 7	679	142	101	138
Cavanagh, Richard B., Washington, D. C., assignor, by mesne assignments, to Kempshall Manufacturing Company. Golf-ball.....	710,754	Oct. 7	680	142	101	139
Cavanagh, Richard B., Washington, D. C., assignor, by mesne assignments, to Kempshall Manufacturing Company. Golf-ball.....	710,755	Oct. 7	681	142	101	139
Cavenaugh, Ralph W. (See Schwechler, John, assignor.)						
Cavenaugh, Ralph W., St. Paul, Minn. Automatic smoke-preventer.....	693,948	Feb. 25	3296	725 726	98	1539



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Cavett, William A., Laplata, Mo. Horse hay-rake.....	694,831	Mar. 4	946	210	98	1913
Caviochi, Hercules, Barre, Vt. Grinding or polishing apparatus.....	692,425	Feb. 4	356	87	98	873
Cavin, W. N., et al., Philadelphia, Pa. Mixing-machine for concrete, &c.....	701,465	June 3	329	72	99	2176
Cawley, Charles W., Jr., Homestead, Pa. Air-brake.....	713,960	Nov. 18	2904	645	101	1528
Cawley, George, Westminster, England. Vehicle to be used in electric traction on rail-ways.....	708,462	Sept. 2	836	190	100	2150
Cawthorn, James T., assignor of one-half I. A. Eacutt, Chicago, Ill. Type-cleaning de-vice.....	694,136	Feb. 25	2655	808	98	1612
Cazier, Marion H., Chicago, Ill. Trouser-hanger.....	696,940	Apr. 8	1073	238	99	248
Cecil, Charlie C., Orafino, Neb. Float-valve.....	691,444	Jan. 21	2049	459	98	462
Cederquist, Adolf F. (See Eek and Cederquist.)						
Cepek, Norbert, Vienna, Austria-Hungary. Centrifugal filling-machine.....	701,466	June 3	331	73	99	2177
Celluloid Company. (See Stevens and Thurber, assignors.)						
Cellulose Products Company. (See Cross, Bevan, and Beadle, assignors.)						
Cellulose Products Company. (See Little, Arthur D., assignor.)						
Centner, Albert H., Chicago, Ill. Elevating roller attachment.....	705,905	July 29	4975	1082	100	1067
Central Cyclone Company. (See Warner, George M., assignor.)						
Central Foundry Company. (See Dean, Mark, assignor.)						
Central Trust Company, trustee. (See Swenson, Magnus, assignor.)						
Century Camera Company. (See Locke, Harvey W., assignor.)						
Century Milk Company. (See Price, Theodore H., assignor.)						
Century Stomper Company. (See Strobel and Williams, assignors.)						
Cerebotani, Luigi, Munich, Germany. Transmitter for Morse alphabet and printing telegraphy.....	692,426	Feb. 4	357	87	98	874
Cerebotani, Luigi, Munich, Germany. Polarized electromagnet.....	714,452	Nov. 25	3867	884	101	1744
Cerebotani, Luigi, assignor of one-half to C. Moradelli, Munich, Germany. Printing-tele-graph.....	695,537	Mar. 18	2247	507	98	2319
Cerebotani, Luigi, Munich, assignor of one-half to J. F. Wallmann & Co., Berlin, Ger-many. Device for automatically unrolling the paper ribbon in Morse apparatus.....	710,667	Oct. 7	520	108	101	105
Cerf, Léon, Lyons, France. Making modified starch.....	695,632	Apr. 29	4207	.....	99	951
Chace, Albert F., Boston, Mass., assignor to United States Smelting and Gas Company, Portland, Me. Hydrocarbon-burner.....	715,639	Dec. 9	1862	413	101	2233
Chace, Malcolm G., Central Falls, R. I. Means for cutting corduroy cloth.....	692,504	Feb. 4	496	116	98	900
Chadbourne, Joseph H., et al. (See Pierce, John, assignor.)						
Chadbourne, Zebulon L., New Brighton, N. Y. Hammock.....	695,092	Mar. 11	1341	295	98	2013
Chadbourne, Zebulon L., New Brighton, N. Y. Hanger-eye for hammocks.....	695,372	Mar. 11	1958	437	98	2141
Chadbourne, Zebulon L., New Brighton, N. Y. Take-up mechanism for looms.....	695,373	Mar. 11	1959	437	98	2141
Chadbourne, Zebulon L., New Brighton, N. Y. Hammock.....	695,374	Mar. 11	1960	438	98	2141
Chadbourne, Zebulon L., New Brighton, N. Y. Weaving-machine.....	695,791	Mar. 18	2711	616	98	2313
Chadbourne, Zebulon L., New Brighton, N. Y. Hammock-loom.....	695,792	Mar. 18	2714	617	98	2314
Chadwick, Everett D. (See Fiske, Henry A., assignor.)						
Chadwick, Richard U., Philadelphia, Pa. Drying-cylinder.....	698,233	Feb. 11	1933	420	98	1221
Chaffee, Owen B. (See Sargent, James F., Jr., assignor.)						
Chaffer, William J., Manharpur, India. Door holder or bolt.....	708,530	Sept. 9	960	217	100	2188
Chaffin, John M., Redcloud, Neb. Elastic connection for checkreins.....	707,388	Aug. 19	2644	597	100	1695
Chagnot, Joseph, Torrington, Conn. Animal-trap.....	697,233	Apr. 8	1587	355	99	356
Chaillet, Adolphe A., assignor to Shelby Electric Company, Shelby, Ohio. Incandescent electric lamp.....	701,295	June 3	29	6	99	2114
Chaillly, François, New York, N. Y., assignor to Standard Briquette Company. Fuel block and briquet.....	697,234	Apr. 8	1588	.....	99	356
Chaillly, François, New York, N. Y., assignor to Standard Briquette Company. Fuel block or briquet.....	711,242	Oct. 14	1635	.....	101	355
Chain, Elmer E., Boston, and W. B. Turner, Melrose, assignors to Turner Tanning Ma-chinery Company, Boston, Mass. Leather-working machine.....	691,306	Jan. 14	1764	401	98	383
Chain, Elmer E., Boston, and W. A. Copeland, Melrose, assignors to Turner Tanning Ma-chinery Company, Boston, Mass. Leather-working machine.....	691,307	Jan. 14	1768	402	98	383
Chalfant, Walter E., Bzenell, Pa. Centrifugal churn.....	709,137	Sept. 16	2164	496	100	2457
Challenger, George. (See Kinsey, Challenger, and Nott.)						
Challinger, Joseph, Walsall, assignor to Yost Typewriter Company, Limited, London, England. Automatic keyboard for teaching type-writing.....	694,944	Mar. 11	1168	255	98	1973
Chalmers, James, Jr., assignor to Union Switch and Signal Company, Swissvale, Pa. Detector-bar clip and stop.....	698,451	Apr. 29	3860	852	99	881
Chalmot, Guillaume de, Deepwater Rock, Va., assignor to Wilson Aluminum Company, New York, N. Y. Electric furnace.....	699,654	May 13	1014	236	99	1398
Chaloner, Thomas T., New York, N. Y. Automatic stop-signal for railways.....	704,174	July 8	1520	326	100	320
Chaloupka, August. (See Sears, Frank M., assignor.)						
Chamberlain, Chauncey C., Ionia, Mich. Sparking-igniter for explosive-engines.....	715,196	Dec. 2	1042	225	101	2050
Chamberlain Metal Weather Strip Company. (See Kenny, Hugh E., assignor.)						
Chamberlain, Morris, Bartley, N. J. Setting instrument.....	695,793	Mar. 18	2720	620	98	2315
Chamberlain, Rufus N., Depew, assignor to Gould Storage Battery Company, New York, N. Y. Forming storage-battery plates.....	699,492	May 6	689	160	99	1319
Chamberlain, Rufus N., Depew, assignor to Gould Storage Battery Company, New York, N. Y. Cleaning spongy lead plates for storage batteries.....	699,493	May 6	691	160	99	1319
Chamberlain, Rufus N., Depew, assignor to Gould Storage Battery Company, New York, N. Y. Separator for storage-battery plates.....	712,178	Oct. 28	3447	756	101	760
Chamberlain, Rufus N., Depew, assignor to Gould Storage Battery Company, New York, N. Y. Peroxidizing plates.....	712,995	Nov. 4	692	.....	101	1099
Chamberlain, Charles E., Paris, France. Filter.....	695,375	Mar. 11	1961	438	98	2141
Chamberlin, Edward, assignor of one-half to H. S. Pease, Cincinnati, Ohio. Adjustable shade-bracket.....	696,390	Mar. 25	3395	872	98	2578
Chamberlin, Eugene, and W. T. Thompson, Brooklyn, N. Y. Mechanism for removing ice and snow from third-rail or similar conductors.....	701,795	June 3	916	204	99	2300
Chamberlin, Fred G., Minneapolis, Minn. Danger-signal device for railroads.....	708,469	Sept. 23	2849	640	100	2612
Chamberlin, John, Flatrock, Mich. Stubble-cutter attachment for corn-harvesters.....	692,621	Feb. 4	717	166	98	946
Chamberlin Metal Weather Strip Co. (See Kenny, Hugh E., assignor.)						
Chamberlin, Richard H., Abington, assignor to Tackless Shoe Machinery Company, Bos-ton, Mass. Lasting-machine.....	693,687	Feb. 18	2802	616	98	1422

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Chambers, Alden W., Nevada, Mo. Plating apparatus.	691,241	Jan. 14	1622	370	98	354
Chambers, Arthur E., (See Bullard and Chambers.)						
Chambers, Arthur E., and L. H. Bullard, assignors to Michigan Steel Boat Company, Detroit, Mich. Machine for bending or flanging sheet metal.	711,471	Oct. 21	2067	447	101	458
Chambers, Arthur E., and L. H. Bullard, assignors to Michigan Steel Boat Company, Detroit, Mich. Machine for bending or flanging sheet metal.	711,472	Oct. 21	2069	447	101	459
Chambers, Benjamin, Lodge, Va. Mold for casting composition hand-stamps.	713,961	Nov. 18	2005	448	101	1529
Chambers Brothers Company. (See Holley, Claude, assignor.)						
Chambers Brothers Company. (See King, Howard K., assignor.)						
Chambers, Cyrus, Jr. (See Sharpless, Lydia C., assignor.)						
Chambers, Fred D., assignor of one-fourth to F. E. Beatty, Washington, D. C. Rotary tool.	691,596	Jan. 21	2317	521	98	517
Chambers, Henry C. (See Schmidt and Chambers.)						
Chambers, Henry C., assignor to Cincinnati Butchers Supply Co., Cincinnati, Ohio.	700,697	Sept. 23	3276	733	100	2701
Chambers, James, Everett, Wash. Saw-handle.	712,452	Oct. 28	3941	862	101	865
Chambers, James A., trustee. (See Lubbers, John H., assignor.)						
Chambers, James M., Thomaston, Conn. Brush.	696,798	Apr. 1	763	173	99	162
Chambers, John S., Elizabeth, N. J. Throttle-valve.	701,579	June 3	723	159	99	2260
Chambers, John S., Wilmington, N. C. Throttle-valve.	706,300	Aug. 5	599	131	100	1296
Chambers, Joseph, assignor of one-half to F. H. Herley, Minneapolis, Minn. Electric elevator.	700,676	May 20	3018	691	99	1830
Chambers, Samuel D., Warren, N. C. Calendar.	711,473	Oct. 21	2072	448	101	460
Chambers, William R. O. (See Armstrong and Chambers.)						
Chambliss, John A., New York, N. Y. Stamp detaching and affixing machine.	706,387	Aug. 5	774	169 170	100	1271
Champ, Joseph H., Cleveland, Ohio. Tire-inflator.	691,745	Jan. 23	2621	557	98	598
Champ, Joseph H., Cleveland, Ohio. Coin-controlled apparatus.	691,746	Jan. 28	2624	588 589	98	599
Champ, Joseph H., Cleveland, Ohio. Tire-inflator.	691,747	Jan. 28	2628	589 590	98	600
Champion, Abraham L., Macon, Ga. Shutter-worker.	714,669	Dec. 2	28	7	101	1843
Champion, Charles L., St. Louis, Mo. Carbureter.	697,807	Apr. 15	2655	589	99	595
Champion, Charles S., assignor to F. H. Richards, Hartford, Conn. Key-operated machine.	693,373	Feb. 18	2189	481	98	1296
Champion Mfg. Co. (See McElroy, George E., assignor.)						
Champion Sanitary Enamel-Ware Co. (See McGuire, Peter J., assignor.)						
Champlin, Granville E., Laurel, Nebr. Weeder.	714,220	Nov. 25	3558	783	101	1694
Champoux, John. (See Davis, George R. C., assignor.)						
Chanal, André, Duck Lake, Canada. Mowing-machine cutter.	715,020	Dec. 2	729	155	101	1983
Chance, Albert B., Centralia, Mo. Transfer-board for telephone or telegraph circuits.	693,784	Feb. 18	2961	633	98	1454
Chance, Albert B., Centralia, Mo. Circuit-closing device.	707,761	Aug. 26	3422	771	100	1870
Chance, George H., Portland, Oreg. Picture-hanger.	701,149	May 27	3955	910	99	2043
Chance, John H., Forest, Ohio. Metallic railway-tie.	716,667	Dec. 23	3944	862	101	2707
Chandler & Barber. (See Barber, Daniel F., assignor.)						
Chandler, Clarence A., Worcester, Mass. Machine for grinding drills.	690,398	Jan. 7	23	5	98	8
Chandler, Clarence A., Worcester, Mass. Machine for grinding twist-drills.	707,549	Aug. 26	2958	660	100	1777
Chandler, Daniel L., assignor to G. J. Burns, Ayer, Mass. Roll for plating-machines.	701,841	June 10	995	222	99	2333
Chandler, Helen S., Dover, N. H. Adjustable chart.	708,754	Sept. 9	1367	312	100	2272
Chandler, Joseph H. (See Finney, James J., assignor.)						
Chandler, Thomas P., Rochester, Pa. Copy-holder.	708,203	Sept. 2	331	90	100	2061
Chandler, William E., Elcampe, Tex. Sprayer.	697,446	Apr. 15	2603	442	99	461
Chandler, William E., Elcampe, Tex. Oil-burner.	713,397	Nov. 11	1817	408	101	1286
Chapin, Charles E., Greenwich, and W. E. Sturges, Bridgeport, Conn., said Patchin assignor to said Chapin. Carbon-feeding device.	712,906	Nov. 4	834	194	101	1067
Chapin-Fulton Manufacturing Company. (See Fulton, Louis B., assignor.)						
Chapin, Murray H., Bridgeport, Conn., assignor to Union Typewriter Company, Jersey City, N. J. Box for inking-ribbon spools.	696,132	Mar. 25	3373	761	98	2466
Chapin, Ralph E., Batavia, N. Y. Spraying-nozzle.	713,832	Nov. 18	2676	597	101	1480
Chapin, Ralph E., Batavia, N. Y. Spraying device.	713,982	Dec. 16	2571	568	101	2405
Chapin, William G., Brooklyn, N. Y., assignor to Thompson & Norris Company. Machine for feeding and cutting sheets.	703,183	June 24	3515	808	99	2882
Chapin, William G., Brooklyn, N. Y., assignor to Thompson & Norris Company. Carton-machine.	703,184	June 24	3517	809	99	2882
Chaplin, Allen, Walton Township, Sumner county, Kans. Seed-drill.	702,402	June 17	2018	460	99	2559
Chaplin, Edwin D., Winchester, and H. G. Halloran, assignors to H. Dakin, Boston, Mass. Production of ferrin and at saline hydrates electrolytically.	695,033	Mar. 11	1342	295	98	2013
Chapman, Albert B. (See Thomas, Almer, assignor.)						
Chapman, Charles H., Groton, Mass. Apparatus for hardening the cups and cones of ball-bearings.	714,670	Dec. 2	29	7	101	1843
Chapman, Clementine, Dolores, Colo. Ditching-machine.	716,378	Dec. 23	3361	735	101	2582
Chapman, Edward F. (See Wilkinson, Chapman, and Thornton.)						
Chapman, George E., G. L. Ensign, and J. M. Weir, Cleveland, Ohio. Trolley-wheel.	699,744	May 13	1182	275	99	1430
Chapman, George F., Marlboro, assignor of one-half to L. Wallace, Ayer, Mass. Adjustable headlight for street-cars, &c.	712,260	Oct. 23	3587	784	101	789
Chapman, George F., Marlboro, assignor of one-half to L. Wallace, Ayer, Mass. Head-light-operating mechanism.	712,433	Oct. 23	3912	856	101	859
Chapman, George F., Marlboro, assignor of one-half to L. Wallace, Ayer, Mass. Adjustable headlight for street-cars, &c.	716,518	Dec. 23	3652	797	101	2644
Chapman, George F., Marlboro, assignor of one-half to L. Wallace, Ayer, Mass. Adjustable headlight for street-cars, &c.	717,076	Dec. 30	4832	1047	101	2920
Chapman, Guy D., and C. R. Quine, Akron, Ohio. Illuminated sign.	698,256	Apr. 22	3505	772	99	792
Chapman, Henry S., Glenridge, N. J. Playing-ball.	711,474	Oct. 21	2074	448	101	460
Chapman, John S., Albany, N. Y. Forced-draft apparatus.	703,539	July 1	291	66	100	59
Chapman, Leo M., Chicago, Ill., assignor, by mesne assignments, of two-thirds to Safety Lock Snap Manufacturing Company. Clamp for ropes, straps, chains, &c.	714,744	Nov. 25	3259	719	101	1623
Chapman, Louis H., Littlefalls, N. Y. Graphophone attachment.	703,767	July 1	717	159	100	144
Chapman, Penrose E., St. Louis, Mo. Electric testing apparatus.	708,798	Aug. 12	1554	348	100	1451
Chapman, Samuel D., Kansas City, Mo. Valise, hand-bag, or suit-case.	702,403	June 17	2021	460 461	99	2559
Chapman, William B., Boyne City, Mich. Retort for wood distillation.	705,906	July 29	4977	1083	100	1067
Chapman, William B., Boyne City, Mich. Furnace for retorts.	705,907	July 29	4979	1084	100	1068
Chapman, William H., Portland, Me. Rheostat.	705,591	July 29	4361	945	100	944
Chapman, William H., Portland, Me. Controller for electric motors.	707,300	Aug. 19	2484	538	100	1661



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Chapman, Winthrop M., Newton, assignor of one-half to W. Pestell, Lynn, Mass. Circuit-closer for trolley-signals	711,036	Oct. 14	1215	267	101	267
Chapman, Winthrop M., Newton, assignor of one-half to W. Pestell, Lynn, Mass. Railway block-signaling system	711,037	Oct. 14	1218	267	101	268
Chapman, Winthrop M., Newton, and W. Pestell, Lynn, Mass. Railway block-signaling system	700,302	May 20	2330	530	99	1687
Chapman, William S., assignor of one-half to A. J. Erickson and A. H. Peterson, Kippen, Idaho. Coupling for wagons	701,858	July 15	2777	601	100	595
Chappel, Christopher C., Bono, Ark. Plow-coltter-fastening device	694,351	Mar. 4	18	4	98	1716
Chappell, Delos A., assignor to Victor Box Car Loader Company, Denver, Colo. Box-car loader	702,625	June 17	2451	559	99	2650
Chappell, Francis M., Newnan, Ga. Baling-press	702,626	June 17	2457	561	99	2651
Chappell, George P., New York, N. Y. Making artificial stone and forming articles therefrom	703,640	July 1	485	560	100	96
Chappell, Howard F., Chicago, Ill. Rosin-soap for paper-size	694,728	Mar. 4	750	561	98	1870
Chapson, John E. (See Hills and Chapson.)						
Chaquette, Ephraïem, New Rochelle, N. Y. Land-reclaiming dock	702,627	June 17	2458	561	99	2651
Chaquette, Ephraïem, New Rochelle, N. Y. Clam-dredge	702,628	June 17	2459	562	99	2651
Chaquette, Ephraïem, New Rochelle, N. Y. Clam for dredges	702,629	June 17	2461	563	99	2652
Chaquette, Ephraïem, New Rochelle, N. Y. Floating dredge	702,705	June 17	2593	564	99	2680
Chaquette, Ephraïem, New Rochelle, N. Y. Wave-motion pump	703,997	July 8	1165	597	100	247
Chaquette, Ephraïem, New Rochelle, N. Y. Wave-motor	703,998	July 8	1166	598	100	247
Chaquette, Ephraïem, New Rochelle, N. Y. Sewer-dredge	705,646	July 29	4507	597	100	973
Chaquette, Ephraïem, New Rochelle, N. Y. Clam for dredges	706,221	Aug. 5	421	90	100	1292
Charbeneau, John C., Mount Clemens, Mich. Acetylene-gas generator	709,470	Sept. 23	2851	640	100	2612
Charbonnet, Hilaire de, Paris, France. Motor	702,404	June 17	2022	641	99	2559
Charlebois, Edwin G., Watertown, N. Y. Sheet-metal siding	705,207	July 22	3565	462	100	772
Charles, Albion F., Iola, Kans. Rotary engine	706,758	Aug. 5	310	558	100	1180
Charles, Antoine, Liege, Belgium. Latch	702,185	June 10	1637	366	99	2463
Charles, Frank C., Cedar Rapids, Iowa. Balanced slide-valve	696,718	Apr. 1	618	138	99	134
Charles, Herman, Kofa, Ariz. Ter. Safety device for motor-vehicles	704,616	July 15	2332	507	100	502
Charles J. Downing & Co. (See Rice, Vietts L., assignor.)						
Charles, Patrick J., Belfast, Ireland. Portable riveting, &c., apparatus	700,481	May 20	2687	616	99	1759
Charlopin, Charles, Paris, France. Producing pure oxygen	713,602	Nov. 18	2222	493	101	1384
Charlton, Richard B., Milwaukee, Wis., assignor to Continuous Rail Joint Company of America. Apparatus for cooling fish-plates in the process of manufacture	691,355	Nov. 21	1895	494	98	429
Charlton, Richard B., Milwaukee, Wis., assignor to Continuous Rail Joint Company of America. Roll	699,147	May 6	39	10, 11	99	1184
Charlton, Richard B., Milwaukee, Wis., assignor to Continuous Rail Joint Company of America. Means for forming fish-plates	699,148	May 6	40	11, 12	99	1184
Charnburly, John H., Newark, N. J. Lamp-stay for shoes	717,348	Dec. 30	5343	1162	101	3031
Charon, Antoine, assignor to A. Duclos, Montreal, Canada. Preparing bog-peat for fuel purposes	700,664	Sept. 23	3217	586	100	2689
Charon, Jules E., Paris, France. Filter	704,815	July 15	2711	586	100	580
Charpiat, Louis, New York, N. Y. Repetition-action for pianos	717,349	Dec. 30	5345	1162	101	3031
Charpy, Georges, Montlucon, assignor to Cie. des Forges de Chatillon, Commentry et Neuves-Maisons, Paris, France. Manufacture of armor-plate	696,941	Apr. 8	1077	585	99	249
Charron, Ferdinand, and L. Girardot, Paris, France. Metallic chest for motor-vehicles	701,676	July 15	2492	585	100	524
Charron, Ferdinand, and L. Girardot, Paris, France. Body for motor-vehicles	707,206	Aug. 19	2810	516	100	1625
Charters, Samuel B., et al. (See Kent, Thomas J., assignor.)						
Chartrand, Edmund, Chicago, Ill. Portable scaffold	697,447	Apr. 15	2005	442	99	461
Chase, Andrew J., Boston, Mass. Apparatus for distilling water	697,912	Apr. 15	2829	626	99	633
Chase, Arthur W., Avoca, Iowa. Treating ores and by-products containing sulfur and iron	709,745	Sept. 23	3377	758	100	2720
Chase, Augustus C. (See Bass and Chase.)						
Chase and Baker Company. (See Chase, Joseph H., assignor.)						
Chase, Charles A., Chicago, Ill. Socket for incandescent lamps	701,680	June 3	724	159	99	2260
Chase, Charles A., Chicago, Ill. Machine for molding incandescent-lamp sockets	707,299	Aug. 19	2482	557	100	1661
Chase, Edward, et al. (See Haas, Cyrus A., assignor.)						
Chase, Ella S., Old Orchard, Me. Device for tying bows	696,361	Mar. 25	3871	860	98	2564
Chase, Ernest C., and I. E. Rickey, San Francisco, Cal. Dough-manipulating and loaf-forming machine	698,814	Apr. 29	4606	1016	99	1045
Chase, George L., et al. (See Buckley and Phinney, assignors.)						
Chase, George S., Springfield, Mass. Heat-generator	705,540	July 1	292	67	100	59
Chase, Isaac M., Washington, D. C. Marine propulsion	692,117	Jan. 28	3298	747	98	734
Chase, John F., St. Petersburg, Fla. Portable irrigator	708,126	Sept. 2	336	56	100	2030
Chase, John W., et al. (See Buckley and Phinney, assignors.)						
Chase, Jonathan. (See Irving, David H., assignor.)						
Chase, Joseph H., Buffalo, N. Y. Valve for piano-players	710,097	Sept. 30	4079	920	100	2880
Chase, Joseph H., assignor to Chase and Baker Company, Buffalo, N. Y. Device for fastening piano-players to pianos	714,635	Nov. 25	4303	929	101	1811
Chase-Shawmut Company. (See Miller and Masterson, assignors.)						
Chassé, Raphael, New York, N. Y. Mouse-trap	714,281	Nov. 25	3560	783	101	1684
Chattanooga Medicine Company. (See Jeff, William E., assignor.)						
Chattanooga Plow Co. (See Buchanan, Judson, assignor.)						
Chattaway, John J., Brooklyn, N. Y. Numbering-machine	710,140	Sept. 30	4171	940	100	2000
Chaumont, Jean P. A. E. H. (See Tardyn, Leon J., assignor.)						
Chauvet, Joseph J. M., and J. W. Coulter, New York, N. Y. Sewing-machine take-up	704,297	July 8	1735	378	100	364
Chauvet, Louis P., Paris, France. Fastening device for garment-supporters	697,808	Apr. 15	2657	589	99	596
Cheatham Electric Switching Device Co. (See Cheatham, Robert V., assignor.)						
Cheatham, Robert V., assignor to Cheatham Electric Switching Device Co., Louisville, Ky. Electrically-controlled railway-switch	696,313	Mar. 25	3763	839	98	2545
Checkley, Edwin J., et al. (See Merrifield, Leonard L., assignor.)						
Checkley, Edwin J., trustee, et al. (See Merrifield, Leonard L., assignor.)						
Chedell, Jesse L., Providence, and E. V. Scott, Arlington, R. I. Sand-box	703,112	June 24	3378	776	99	2835

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Cheesman, Lewis, Sr., assignor of three-fourths to P. and A. H. Agnew and M. B. Harlow, Alexandria, Va. Recovering free and combined acids of niter cake	714,145	Nov. 25	3261	.....	101	1623
Cheesman, George R., Auburn, N. Y. Device for preventing gas or oil wells from gushing, &c	714,146	Nov. 25	3262	719	101	1623
Chiever, William H. (See Fassett and Warren, assignors.)	706,388	Aug. 5	781	170	100	1272
Chen, Julius, New York, N. Y. Savings-bank						
Chemical and Electrical Ore Reducing Company. (See Dorr and Spang, assignors.)						
Chemical Products Company. (See York, Little, and Walker, assignors.)						
Chemical Works formerly Sandoz. (See Böniger, Melchior, assignor.)						
Chemische Fabrik auf Actien, vorm. E. Schering. (See Harries, Carl, assignor.)						
Chemische Fabrik auf Actien, vorm. E. Schering. (See Stephan, Karl, assignor.)						
Chemische Fabrik auf Actien, (vorm. E. Schering.) (See Sternberg, Wilhelm, assignor.)						
Chemische Fabrik auf Actien, (vorm. E. Schering.) (See Wichmann and Gabler, assignors.)						
Chemische Fabrik Brugg A. G., vormals Dr. Zimmermann & Co. (See Pfenniger, Anton, assignor.)						
Chemische Fabrik Griesheim Electron. Firm of. (See Moeser and Eidmann, assignors.)						
Chemische Fabrik Guestrow. (See Spiegel, Leopold, assignor.)						
Chemische Fabrik Rhenania. (See Weber, Wilhelm, assignor.)						
Chemische Fabrik von Heyden, Actiengesellschaft. (See Hentschel, Willibald, assignor.)						
Chemische Fabrik von Heyden, Actiengesellschaft. (See Seifert, Philipp, and Gmeiner, assignors.)						
Cheneau, Narcisse. (See Le Grand and Cheneau.)						
Cheney, Charles W., Brookline, Mass. Machine for applying labels, wrappers, &c	713,853	Nov. 18	2679	597 588	101	1480
Cheney, George M., Indianapolis, Ind. Bridge construction	708,463	Sept. 2	837	191	100	2151
Cheney, Laura F., New Haven, Conn. Waterproof holder for flower-pots	716,668	Dec. 23	3945	862	101	2707
Cheney, Owen L., Bloomington, Ill. Stock for tools	707,901	Aug. 26	8714	833	100	1927
Cheney, Samuel A., Newburyport, Mass. Furnace	713,749	Nov. 18	2488	554	101	1442
Cheney, Walter L., Meriden, Conn., assignor of one-half to B. H. Warren, Pittsburg, Pa. Screw-shaving machine	717,166	Dec. 30	5001	1086	101	2956
Cheney, Walter L., Meriden, Conn., assignor of one-half to B. H. Warren, Pittsburg, Pa. Machine for cutting rack-teeth	717,167	Dec. 30	5005	1086 1087	101	2957
Cheney, Walter L., Meriden, Conn., assignor of one-half to E. W. Skinner, Arlington, N. J. Assignors to Westinghouse Electric and Manufacturing Company. Inclosed-arc lamp	702,405	June 17	2024	462	99	2560
Chenhalls, John S., Plymouth, England. Oil-burner	705,820	July 23	4827	1048	100	1037
Chen, Albert V., et al. (See Logan, Crawford D., assignor.)	703,999	July 8	1168	254	100	248
Cherpaw, Joseph, and F. McGuire, Uxbridge, Canada. Sheep-trail						
Cherry, Edward E. (See Laurent and Cherry.)						
Chervenka, Frank A., Milwaukee, Wis. Watch-protector	704,236	July 8	1624	351	100	339
Chesher, Harry, Philadelphia, Pa. Thumb-latch for doors	692,827	Feb. 11	1086	243	98	1046
Chesher, Harry, Philadelphia, Pa. Combined latch and bolt	696,411	Apr. 1	98	9	99	12
Cheshire, Edward, assignor to White Sewing Machine Company, Cleveland, Ohio. Mail-marking machine	690,695	Jan. 7	626	137	98	132
Cheshire, Edward, assignor to White Sewing Machine Company, Cleveland, Ohio. Mail-marking machine	690,696	Jan. 7	630	137 138	98	133
Cheshire, Edward, Milwaukee, Wis., assignor to White Sewing Machine Company, Cleveland, Ohio. Mail-marking machine	690,697	Jan. 7	636	139 140	98	134
Chesnut, Robert, Burning Springs, Ky. Gun-sight	696,942	Apr. 8	1078	238	99	249
Chester & Company, Edward. (See Chester, Edward D., assignor.)						
Chester, Edward D., assignor to E. Chester & Company, Limited, London, England. Construction of tanks	709,303	Sept. 16	2496	502 503	100	2526
Chester, Nelson B. (See Grant and Chester.)						
Chesterman, Dana L. (See Chesterman, John H. and D. L.)						
Chesterman, John H. and D. L., Philadelphia, Pa., assignors to Chesterman & Streeter. Hernial truss	705,821	July 29	4828	1048	100	1037
Chesterman & Streeter. (See Chesterman, John H. and D. L., assignors.)						
Chesterman, William, Sheffield, England. Tape-measure	701,681	June 3	725	160	99	2360
Chesterman, William, Sheffield, England. Engineer's square	707,301	Aug. 19	2487	558	100	1662
Chesterman, William, assignor of two-thirds to A. and R. Huston, Walston, Pa. Steam-generating system	699,102	Apr. 29	5116	1131	99	1151
Cheval, Victor, and J. Lindeman, Brussels, Belgium. Electric accumulator-electrode	704,859	July 15	2778	601	100	595
Chevalier, Joseph, Holyoke, N. and E. Lajoie, Chicopee, Mass. Paper-coating machine	704,434	July 8	1982	431	100	417
Chevalier, Marius. (See Philippon and Chevalier.)						
Cheverette, Eugene, Fitchburg, Mass. Connection for loom picker-sticks	694,352	Mar. 4	20	5	98	1716
Chevraux, Amos E., Cleveland, Ohio. Wrench	712,043	Oct. 28	1877	697	101	711
Chew, Alexander, assignor to H. S. Thibodeau, Woonsocket, R. I. Shuttle-motion for looms	716,379	Dec. 23	3363	735	101	2583
Chew, William D. (See Harris and Chew.)						
Cheyne, Frederick H., Indianapolis, Ind. Speed-changing reversing-gear	714,780	Dec. 2	251	50, 51	101	1888
Chial, John, Lakepark, Minn. Combined horse-detacher and brake for vehicles	692,767	Feb. 4	970	220	98	905
Chicago Corset Company. (See Schopbach, Charles H., assignor.)						
Chicago Handle Bar Co. (See Mالدaner, Charles, assignor.)						
Chicago Motorcycle Company. (See Anderson, Erickson, and Wickstrom, assignors.)						
Chicago Pneumatic Tool Company. (See Barrow, Thomas, assignor.)						
Chicago Pneumatic Tool Company. (See Boyer, Joseph, assignor.)						
Chicago Pneumatic Tool Company. (See Kimman, Henry J., assignor.)						
Chicago Pneumatic Tool Company. (See Moore, Edward Y., assignor.)						
Chicago Pneumatic Tool Company. (See Pickles, Charles K., assignor.)						
Chicago Railway Equipment Company. (See Cornwall, Frederick R., assignor.)						
Chicago Railway Equipment Company. (See Farley, James, assignor.)						
Chicago Railway Equipment Company. (See Fassett, Francis K., assignor.)						
Chicago Railway Equipment Company. (See Huntton, Charles F., assignor.)						
Chicago Railway Equipment Company. (See Simpson, Thomas H., assignor.)						
Chicago Railway Equipment Company. (See Wands and Cornwall, assignors.)						
Chicago Railway Equipment Company. (See Williams, Charles H., Jr., assignor.)						
Chicago Solar Light Company. (See Hawks, William, assignor.)						
Chicago Writing Machine Company. (See Ryden, Axel, assignor.)						
Chicago Writing Machine Company. (See Seifried, Samuel J., assignor.)						
Chichester, Franklin, Poughkeepsie, N. Y. Typewriter's chair	712,495	Nov. 4	56	15	101	909
Chickering, Kenton, Oil City, Pa. Spool for sand-reels, &c	704,435	July 8	1984	431 432	100	417
Chidester, James H., and W. Turk, Sibley, Iowa. Clevis	701,540	June 3	462	104	99	2203
Childers, Charles T., Galesburg, Ill. Spraying device	693,496	Feb. 18	2422	520	98	1344



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Childers, Charles T., Galesburg, Ill. Revolving display-stand	693,497	Feb. 18	2423	529	98	1344
Childers, Charles T., Galesburg, Ill. Rain-water cut-off and strainer	710,698	Oct. 7	521	109	101	196
Childers, Charles T., Colorado Springs, Colo. Meat tenderer and seasoner	717,077	Dec. 30	4833	1047	101	2929
Children, Edwin, deceased; F. R. Children, Council Bluffs, Iowa, administrator. Cultivator	699,419	May 6	610	199	99	1301
Children, Frank R., administrator. (See Children, Edwin.)						
Childress, Henderson P., Memphis, Tenn. Type-writer cover	704,237	July 8	1625	1351	100	339
Childs, Ira, <i>et al.</i> (See Shannon, Lemuel A., assignor.)				1352		
Chinery, Howard W., London, England. Apparatus for displaying advertisements	691,840	Jan. 28	2806	630	98	635
Chinnock, George H., Brooklyn, assignor to J. J. Nichols, H. H. Jandorf, New York, N. Y., and S. S. Ryckman, Grimsby, Ontario, Canada. Self-healing material	707,550	Aug. 26	2960	670	100	1777
Chipley, Gardiner W., Chicago, Ill. Lacing-hook	705,562	July 29	4362	945	100	914
Chipley, Gardiner W., Chicago, Ill. Radiator attachment	706,159	Aug. 5	312	66	100	1180
Chipley, Gardiner W., Chicago, Ill. Railway-car	707,302	Aug. 19	2488	558	100	1662
Chipman, Emma E., Waterbury, Conn. Hook and eye	699,676	Apr. 29	5076	1122	99	1143
Chipman, Horace D., Cincinnati, Ohio. Rapid-acting vise	703,765	July 1	718	150	100	144
Chipman, William R., assignor of one-half to M. Blumenthal, New York, and F. G. Kune, Brooklyn, N. Y. Electrode for purifying liquids by electrolysis	694,933	Mar. 4	1145		98	1954
Chisholm, Boyd & White Company. (See Avery, Colby M., assignor.)						
Chisholm, Boyd and White Company. (See Long, John H., assignor.)						
Chisholm, Charles W. (See De Laval and Chisholm.)						
Chisholm, James, Fort Lisouri, Alaska Ter. Can-opener	707,207	Aug. 19	2311	517	100	1626
Chisholm, James R., <i>et al.</i> (See Hobart, James F., assignor.)						
Chisholm, Stein. (See Greene and Chisholm.)						
Chisholm, William O., Glasgow, Scotland. Waterproof scarf	709,138	Sept. 16	2166	496	100	2457
Chittenden, William R. (See Dallas, George M., assignor.)						
Chittum, Charles H., Lexington, Va. Nut-lock	708,865	Sept. 9	1609	368	100	2324
Chitwood, Leonard P. (See Boring and Chitwood.)						
Chmeltzke, Charles, New York, N. Y. Shelf-support	711,759	Oct. 21	2627	578	101	578
Choate, Charles N., assignor of one-third to W. R. Anderson, Detroit, Mich. Weeding and cultivating implement	716,808	Dec. 23	4199	920	101	2759
Choate, William B., Aurora, Ill. Pipe thimble or insulator	693,234	Feb. 11	1935	420	98	1232
Choles, Frederick J., Pietermaritzburg, Natal. Sight for firearms	691,242	Jan. 14	1623	371	98	354
Chope, Thomas, assignor of two-thirds to S. J. Brun and E. Jungerman, San Francisco, Cal. Window-lock	715,731	Dec. 9	2043	457	101	2272
Choquet, Henri, and A. Despature-Cousin, Prémesses, France. Interlocking bricks	716,865	Dec. 30	4419	959	101	2834
Choquette, Joseph H., Fall River, Mass. Adjustable dress-chart	700,739	May 27	3185	726	99	1882
Choquette, Michel, Kankakee, Ill. Shingling-bracket	703,494	July 1	967	211	100	193
Chorlton, Isaac. (See Lloyd, Cyrus S., assignor.)						
Chorlton, Isaac, Manchester, England. Bedstead	699,835	May 13	1369	317	99	1470
Chorlton, James W., Cleveland, Ohio. Building-block	701,150	May 27	3955	910	99	2043
Christ, Charles F., Detroit, Mich. Machine for boxing matches	705,037	July 22	3193	689	100	637
Christ, Edward M., and W. I. Haldeman, Pinegrove, Pa. Fire-escape	703,236	June 24	3618	831	99	2904
Christ, George H., <i>et al.</i> (See Webber, Frank I., assignor.)						
Christensen, Carl, Clifton, Ill. Adjustable cultivator-arch	699,077	Apr. 29	5077	1123	99	1143
Christensen, Christian, Escanaba, Mich. Measuring device	706,389	Aug. 5	783	170	100	1272
Christensen, Emil, Portland, Oreg. Variable-speed sheave	702,630	June 17	2463	564	99	2032
Christensen, Frederick K., Sandy, Utah. Vehicle-tire	702,539	June 17	2280	519	99	2615
Christensen, Jorgen, San Francisco, Cal. Device for correcting compass errors	699,450	May 6	612	140	99	1302
Christensen, Jorgen, San Francisco, Cal. Hydraulic steering mechanism	699,451	May 6	615	141	99	1302
Christensen, Niels A. (See Brush, Frederick F., assignor.)						
Christensen, Niels A. (See Richards, Walter J., assignor.)						
Christensen, Niels A., Milwaukee, Wis. Engineer's valve	701,842	June 10	995	222	99	2333
Christensen, Niels A., Milwaukee, Wis. Automatic controller for electric motors	701,843	June 10	999	223	99	2334
Christensen, Paul B., Spreckels, Cal. Sulky-harrow	707,902	Aug. 26	3715	833	100	1927
Christensen, Robert, assignor of one-half to C. Nelson, Racine, Wis. Boot or shoe protector	706,900	Aug. 12	1748	390	100	1491
Christenson, Nils, assignor of one-half to W. A. Lundskog, Lynn, Mass. Speed-changer	698,103	Apr. 23	3207	702	99	780
Christian, Charles A., East Orange, N. J. Indicating device	700,528	Aug. 12	1044	229	100	1341
Christian, Emil, Cassel, Germany. Zither	694,529	Mar. 4	382	84	98	1794
Christian, George H., Cleveland, assignor of one-half to C. H. Taylor, East Cleveland, Ohio. Manufacturing secondary-battery plates	708,694	Sept. 9	1250		100	2245
Christian, George H., Cleveland, assignor of one-half to C. H. Taylor, East Cleveland, Ohio. Manufacturing plates for secondary batteries	708,695	Sept. 9	1252		100	2246
Christian, Hans. (See Michaelstagn and Christian.)						
Christian, Robert W., Banack, Mont. Bucket conveyor	711,555	Oct. 21	2231	485	101	494
Christian, William G., and P. J. Tierney, New Rochelle, N. Y. Bottle-stopper for preventing the refilling of bottles	715,348	Dec. 9	1335	288	101	2128
Christiansen, Andrew P., Gardnerville, Nev. Bicycle attachment	691,597	Jan. 21	2319	521	98	517
Christiansen, Louis E. (See Lindstrom and Christiansen.)						
Christiansen, Ludwig. (See Churchill and Christiansen.)						
Christianson, Martin, Bode, Iowa. Plant-guard attachment for cultivators	706,160	Aug. 5	312	66	100	1180
Christiansson, Pehr, Scriven, Minn. Road-vehicle	710,249	Sept. 30	4376	983	100	2944
Christiansson, Pehr, Scriven, Minn. Nailless horseshoe	710,251	Oct. 2	730	155	101	1984
Christie, James, Philadelphia, Pa. Spacing-table for punching-machines	713,962	Nov. 18	2906	646	101	1529
Christie, Robert and T. B., Hamilton, Canada. Pneumatic straw-stacker for threshing-machines	715,349	Dec. 9	1337	288	101	2129
Christie, Thomas B. (See Christie, Robert and T. B.)						
Christie, Thomas K. (See Stanfield, Melville B., assignor.)						
Christie, William J., <i>et al.</i> (See Hackett, George H., assignor.)						
Christine, Samuel W., Washington, N. J. Watchmaker's tool	692,632	Feb. 4	718	166	98	916
Christman, Charles E., assignor to Christman Motor Carriage Co., San Jose, Cal. Muffler	701,151	May 27	3957	911	99	2043
Christman, Charles E., assignor to Christman Motor Carriage Co., San Jose, Cal. Muffler	717,078	Dec. 30	4885	1048	101	2921
Christman, Edward, assignor to Ennman & Company, South Western Agricultural Works, Louisville, Ky. Hub-bearing	716,190	Dec. 16	3006	656	101	2437
Christman Motor Carriage Co. (See Christman, Charles E., assignor.)				657		
Christofferson, Christian A., St. Paul, Minn., assignor to Union Switch & Signal Company, Swissvale, Pa. Lever-operating mechanism	713,854	Nov. 18	2686	599	101	1482

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Christopher, Henry, Brooklyn, N. Y. Horseshoe-pad	698,904	Apr. 29	4790	1057 1058	99	1085
Christopher, James B., assignor of one-half to E. Anderson, Marquette, Ill. Roller-bearing for cars	694,909	Mar. 4	1068	522	98	1944
Christopher, Louis B., Stockton, assignor of one-half to M. M. Gillespie, San Francisco, Cal. Device for forming ornamental structures	691,598	Jan. 21	2320	522	98	518
Christy, James J., Washington, D. C. Vehicle-tire	705,038	July 22	3195	690	100	697
Chritton, Robert B., Enid, Okla. Ter Folding grate	699,078	Apr. 29	5078	1123	99	1143
Chroniger, Samuel B., Allegheny, Pa. Plastic compound	715,022	Dec. 2	731	181	101	1984
Chroninger, Leonard, and J. E. Adams, Findlay, Ohio Trolley-wheel	715,983	Dec. 16	2573	569	101	2405
Chubb, James A., assignor of two-thirds to D. C. Ross and E. D. Bronner, Detroit, Mich. Car-coupling	702,186	June 10	1638	366	99	2463
Chubb, James A., assignor of two-thirds to D. C. Ross and E. D. Bronner, Detroit, Mich. Uncoupling mechanism for cars	707,048	Aug. 12	1901	447	100	1540
Chuit, Naef & Co. (See Chuit and Bachofen, assignors.)						
Chuit, Philippe, and F. Bachofen, assignors to Chuit, Naef & Co., Geneva, Switzerland. Making alpha-ionone	702,126	June 10	1522	50	99	2440
Chuit, Charles F., Holyoke, Mass. Grinding, polishing, or buffing machine	708,127	Sept. 2	237	50	100	2081
Church, Frank S., assignor of one-half to L. Dolley, Sierra Valley, Cal. Hay-loading apparatus	691,711	Jan. 21	2523	567	98	503
Church, Hiram L., Chicago, Ill. Cattle-guard for railway-tracks	691,998	Sept. 16	1876	431	100	2395
Church, James E., and G. W. Reynolds, Cambridgeport, Mass. Advertising device	697,397	Apr. 8	1893	422	99	422
Church, Melvin B., Grand Rapids, Mich. Apparatus for modeling and decorating	710,842	Oct. 7	853	185	101	174
Church, Walter A., Birmingham, N. Y. Incandescent-lamp socket	711,243	Oct. 14	1636	352	101	355
Churchill, Durand, Chicago, Ill. Permutation-lock	717,350	Dec. 30	5346	1163	101	3031
Churchill, Edwin, Jr., and H. A. Hall, Lawrence, Mass. Refining-engine	704,693	July 15	2457	530 531	100	529
Churchill, Harvey M., and L. Christiansen; said Churchill assignor to C. E. Small, Lynn, Mass. Elevator-operating mechanism	714,147	Nov. 25	3263	719	101	1623
Churchill, John F., Indianapolis, Ind. Grain-drier	702,127	June 10	1524	344	99	2440
Churchill, Thomas H., Truro, Canada Infant's crib	713,357	Nov. 11	1815	460	101	1287
Churchill, William L., Chicago, Ill. Cash-carrier	713,357	Nov. 11	2131	477	101	1350
Churchill, William L., assignor to National Pneumatic Service Company, Chicago, Ill. Cash-carrier	713,059	Nov. 11	1121	258	101	1143
Churchill, William L., assignor to National Pneumatic Service Company, Chicago, Ill. Cash-carrier	713,060	Nov. 11	1123	258	101	1143
Churchman, Edward S., Columbus, Ohio. Ironing-table	696,025	Apr. 1	420	97	99	91
Churchman, James M., Salem, Ind. Grass and ditch liner	701,541	June 3	163	104	99	2203
Churchward, Alexander, Fort Wayne, Ind. Synchronous alternating-current motor	707,389	Aug. 19	2644	598	100	1695
Churchward, Alexander, Fort Wayne, Ind. Synchronous alternating-current motor	707,390	Aug. 19	2647	598	100	1695
Churchward, Alexander, Chicago, Ill. Rotary transformer	708,025	Sept. 2	42	10	100	1989
Churchward, Alexander, Chicago, Ill. Dynamo-electric machine	713,603	Nov. 18	2226	494 495	101	1385
Churchward, Alexander, Chicago, Ill. Dynamo-electric machine	713,604	Nov. 18	2230	495	101	1386
Churchward, Alexander, Chicago, Ill., assignor to General Electric Company. Transformer	713,605	Nov. 18	2232	495	101	1386
Churchward, Alexander J., Brooklyn, N. Y. Frame for dynamo-electric machines	710,425	Oct. 7	49	12	101	12
Chwalla, Rudolf, Vienna, Austria-Hungary. Jacquard mechanism for looms	693,540	Feb. 18	2509	552 553	98	1362
Cicotte, Joseph, assignor of one-half to A. Dumesnil, Louisville, Ky. Brick-kiln	694,316	Feb. 25	4059	902	98	1685
Cie des Forges de Chatillon, Commentry et Neuves-Maisons. (See Charpy, Georges, assignor.)						
Cincinnati Butchers Supply Co. (See Chambers, Henry C., assignor.)						
Cincinnati Butchers Supply Co. (See Schmidt and Chambers, assignors.)						
Cincinnati Pump Company. (See Brigel, Leo A., assignor.)						
City Button Works. (See Cohen, Joseph, assignor.)						
Claassen, Hermann, Dormagen, Germany. Treating masse-cuite of sugar manufacture by centrifugal action	714,863	Dec. 2	440	94	101	1923
Claessens, Fredrick W., and J. G. Magin, assignors of one-third to G. A. Claessens, Rochester, N. Y. Device for inflating pneumatic tires	706,021	Aug. 5	32	7	100	1123
Claessens, George A. (See Claessens and Magin, assignors.)						
Claeys, Constant. (See Janin, John V., assignor.)						
Cladin, John, Leslie, Mich. Child's seat	711,824	Oct. 21	2751	608	101	608
Clairmont, Adolfo de, assignor of one-fourth to T. D. Humphreys, Topeka, Kans. Hoilow or double walled structure	698,452	Apr. 29	3861	852 853	99	881
Clairmont, Adolfo de, assignor of one-fourth to T. D. Humphreys, Topeka, Kans. Refrigerator	698,453	Apr. 29	3862	853	99	881
Clairmont, Adolfo de, assignor of one-half to A. Marburg, Topeka, Kans. Filler compound for tires	698,454	Apr. 29	3864	853	99	882
Clairmont, Adolph de, Topeka, Kans. Exercising-machine	695,538	Mar. 18	2552	509	98	3219
Clamer, Guiliam H., Philadelphia, Pa. Producing metals	696,032	May 25	3277	186	98	2443
Clamer, Guiliam H., Philadelphia, Pa. Eliminating metals from mixtures of metals	707,351	Aug. 26	2961	469	100	1773
Clancy, John, Soldiers Grove, Wis. Pump	700,170	May 20	2054	469	99	1680
Ciancy, John C., and L. W. Marsland, Sydney, New South Wales, Australia. Treating zinc-sulfid ores	715,023	Dec. 2	732	155	101	1984
Ciancy, John C., and L. W. Marsland, Sydney, New South Wales, Australia. Extracting metals from complex or sulfid ores	715,024	Dec. 2	734	155	101	1984
Clapp, Charles R., et al. (See Justen, Joseph M., assignor.)						
Clapp, Edwin P., North Rush, N. Y. Weeder attachment for cultivators	701,844	June 10	1002	223 224	99	2334
Clapp, Hiram A. (See McKnight and Clapp.)						
Clapper, Isaac, Osnaburg, Ohio. Embossing-machine	699,149	May 6	42	12	99	1185
Clapper, Isaac, Osnaburg, Ohio. Embossing-machine	702,283	June 10	1790	409	99	2494
Clare, Charles H., Quincy, Mass. Storage battery	717,351	Dec. 30	5350	1163	101	3032
Clare, Peter. (See Thomas and Clare.)						
Clark, Absalom F., assignor to J. H. Harding, Philadelphia, Pa. Separator-plate for separator battery	703,895	July 1	968	211	100	194
Clark, Addie B., et al. (See Lambert, Henry C., assignor.)						
Clark, Alexander, Evanston, Ill. Roadway for motor-vehicles	703,185	June 24	3520	809 810	99	2883
Clark, Alexander, Chicago, Ill. Vehicle	703,186	June 24	3523	810	99	2883
Clark, Alfred, Paris, France. Seal for phonographic records	692,623	Feb. 4	719	166	98	946
Clark, Alfred, Paris, France. Seal for phonographic records	692,624	Feb. 4	720	166	98	947
Clark, Alfred, Jackson, Mich. Mold	714,560	Nov. 25	4038	598	101	1783
Clark, Alfred T., Trenton, N. J. Meat-book	697,197	Apr. 8	1531	342	99	345
Clark, Amasa B., New York, N. Y. Piling	693,235	Feb. 11	1896	421	98	1222



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Clark, Ambrose B., assignor to Foster, Merriam & Company, Meriden, Conn. Hinge	711,715	Oct. 21	2534	557	101	558
Clark, Anthony L., <i>et al.</i> (See Hayden, Samuel R., assignor.)						
Clark, Benjamin F., and W. Smith, assignors to National Drill Company, Cambridge City, Ind. Wedger	704,514	July 15	2162	468	100	469
Clark, Benjamin F., and W. Smith, assignors to National Drill Company, Cambridge City, Ind. Seat for cultivators	704,515	July 15	2164	468	100	469
Clark, Byron G. (See Burrington, Charles S., assignor.)						
Clark, Byron G., Brookline, assignor to Clark Manufacturing Company, Boston, Mass. Garment-clasp	706,799	Aug. 12	1557	348	100	1451
Clark, Charles, Whitcomb, Ind. Self-feeder for clover-hullers	713,963	Nov. 18	2909	617	101	1529
Clark, Charles, assignor of one-half to A. J. Hunn, Avoca, N. Y. Machine for shearing metal	703,041	June 24	3243	746	99	2829
Clark, Charles A., and A. Wheeler, assignors, by mesne assignments, to J. M. Hart, Flint, Mich. Whiffletree-hook	712,261	Oct. 28	3588	784	101	790
Clark, Chauncey C., assignor of one-half to J. G. Carson, Philadelphia, Pa. Water-purifier	703,541	July 1	294	67	100	59
Clark, Chauncey C., assignor of one-half to J. G. Carson, Philadelphia, Pa. Electro-chemical apparatus	706,529	Aug. 12	1045	230	100	1342
Clark, Chauncey C., assignor of one-half to J. G. Carson, Philadelphia, Pa. Bleaching apparatus	708,796	Sept. 9	1459	334	100	2292
Clark, Chauncey C., assignor of one-half to J. G. Carson, Philadelphia, Pa. Alcoholic-liquid purifier	710,669	Oct. 7	524	109	101	106
Clark, Clementine I. (See Clark, George M., assignor.)						
Clark, Cornelius S., Norfolk, Va. Leak-stopper for boiler-tubes	714,671	Dec. 2	31	7	101	1843
Clark, Cornelius S., and J. T. Jones, Norfolk, Va.; said Clark assignor to said Jones; Till	709,870	Sept. 30	3616	817 818	100	2785
Clark, Cycles Tire Company. (See Clark, George H., assignor.)						
Clark, David P., Dayton, Ohio. Locomotive toy	693,374	Feb. 18	2193	481	98	1297
Clark, David P., Dayton, Ohio. Locomotive toy	693,375	Feb. 18	2195	481 482	98	1297
Clark, Devello P., assignor of one-half to A. W. Brown, Grand Rapids, Mich. Sparking igniter for combustion-engine	692,625	Feb. 4	720	167	98	947
Clark, Dwight G., Plainville, Conn. Register top plate	690,698	Jan. 7	642	140	98	135
Clark, Eben E. (See Clark, Ernest E. and E. E.)						
Clark, Edgar O., New York, N. Y., assignor to Colgate & Company, Jersey City, N. J., and New York, N. Y. Box	704,298	July 8	1736	378	100	364
Clark, Edward B., assignor of three-fourths to W. P. and D. Dilworth and A. Steck, Pittsburg, Pa. Lifting-jack for cars, &c.	698,372	Apr. 22	3704	818	99	833
Clark, Edward J., Stratford, England. Electrode for electric accumulators	700,888	May 27	3495	801	99	1945
Clark, Edward S., Boston, Mass. Heating gas-burner	698,455	Apr. 29	3865	853	99	882
Clark, Edwin L., Auburndale, Mass., assignor to Clark Flexible Metallic Packing Company, Standish, Me. Packing	713,964	Nov. 18	2912	647	101	1530
Clark, Edwin W., Columbus, Ga. Trolley	711,286	Oct. 14	1715	371	101	371
Clark, Eliza, Cleveland, Ohio. Laundry-stove	702,922	June 24	2999	690	99	2782
Clark, Ellsworth E. (See Clark, Omar E. and E. E.)						
Clark, Elmer A. (See Clark, James W. and E. A.)						
Clark, Emily. (See Baier and Clark.)						
Clark, Ernest E., St. Louis, and E. E., Sedalia, Mo. Fender	701,682	June 3	726	160	99	2260
Clark, Eugene B., 2nd, Chicago, Ill. Device for lifting metal plates	710,041	Sept. 30	3963	894	100	2857
Clark, Eugene F., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Woven pile fabric	716,519	Dec. 23	3654	797	101	2644
Clark Flexible Metallic Packing Company. (See Clark, Edwin L., assignor.)						
Clark, Francis L., Pittsburg, Pa. Binding-case for pamphlets, &c.	699,788	May 13	1274	295	99	1449
Clark, Francis L., Pittsburg, Pa. Temporary binder	699,789	May 13	1276	295	99	1449
Clark, Frank H. (See Knudson and Clark.)						
Clark, Frank M., Tilton, N. H., assignor to G. L. Clark, Worcester, Mass. Conical pendulum	705,647	July 29	4508	979	100	973
Clark, Frank R. (See Moore and Clark.)						
Clark, Fred D., McDonald, Pa. Combined steam and internal-combustion motor	696,856	Apr. 1	862	199	99	182
Clark, George A., Holyoke, Mass. Pulp-refining engine	696,314	Mar. 25	3769	840	98	2546
Clark, George D., Plainville, Conn. Caster	708,204	Sept. 2	391	91	100	2061
Clark, George H., Boston, Mass., assignor to Clark Cycle Tire Company, Portland, Me. Pneumatic tire	713,835	Nov. 18	2888	599	101	1482
Clark, George H. L., Pittsburg, Pa. Skirt attachment	713,286	Nov. 11	1612	365	101	1242
Clark, George L. (See Clark, Frank M., assignor.)						
Clark, George M., assignor, by mesne assignments, to C. I. Clark, Higganum, Conn. Harrow	712,907	Nov. 4	886	194	101	1068
Clark, George M., assignor, by mesne assignments, to C. I. Clark, Higganum, Conn. Harrow	712,906	Nov. 4	994	233	101	1099
Clark, George P., assignor of one-half to G. H. Davis, New York, N. Y. Foot-propelling device	692,626	Feb. 4	722	167	98	947
Clark, George P., and G. H. Davis, New York, N. Y. Foot-power device	701,435	Sept. 16	2760	621	100	2582
Clark, George W., assignor to Forest Lumber Co., Alliance, Neb. Dipping-rat	712,496	Nov. 4	57	15	101	909
Clark, Harry A., assignor of one-half to J. E. Daly, San Francisco, Cal. Bottle-stopper attachment	703,113	June 24	3379	777	99	2856
Clark, Harry C., Bellevue, Pa. Steel construction	691,531	Jan. 21	2198	494	98	493
Clark, Harry C., Bellevue, Pa. Steel construction	691,599	Jan. 21	2322	522	98	518
Clark, Henry A. (See Guinn, James E., assignor.)						
Clark, Herbert E., <i>et al.</i> (See Murphy, John F., assignor.)						
Clark, Hobart, West New Brighton, N. Y. Luggage-rack	690,699	Jan. 7	643	140	98	136
Clark, Hudson S., Sigourney, Iowa. Pump	693,236	Feb. 11	1989	421	98	1222
Clark, Hugh D., Columbus, Ohio. Burial-case protector	699,495	May 13	1598	365	99	1518
Clark, Isaac M., Lompoc, Cal. Wheel attachment for children's high chairs	691,532	Jan. 21	2200	494	98	493
Clark, James H., Portage, Wis. Railway-signal	695,794	Mar. 18	2721	620 621 622	98	2315
Clark, James H., and A. Mayer, Philadelphia, Pa. Automatic box-making machine	692,180	Jan. 28	3402	770 771 772	98	755
Clark, James H., and A. Mayer, Philadelphia, Pa. Wire-nail machine	701,477	June 3	333	73.74	99	2178
Clark, James R., Lexington, Ky. Gate	696,163	Mar. 25	3452	773	98	2481
Clark, James W., and E. A., Janesville, Wis. Reclining-chair	702,540	June 17	2281	519	99	2615
Clark, James W., and A. L. Fisher, Janesville, Wis. Tobacco-tying machine	713,399	Nov. 11	1819	406	101	1287
Clark, John, Carman, Canada. Agricultural machinery	693,999	Feb. 25	3415	752	98	1563
Clark, John A. (See Armstrong and Clark.)						
Clark, John A. (See Wyman and Clark.)						
Clark, John C., Atlanta, Ga. Pulverizer	703,542	July 1	296	67.68	100	60

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Clark, John E., assignor to N. M. Clark, New York, N. Y. Box for cigarettes, matches, or the like	705,513	July 22	4202	913	100	898
Clark, John F., Chicago, Ill. Stock-car	702,631	June 17	2463	564	99	2652
Clark, John H., Uhrichsville, Ohio. Trolley-wheel	700,899	May 27	3496	802	99	1945
Clark, John M. (See Dreshout and Clark.)						
Clark, John M., Vincennes, Ind. Car-coupling	690,560	Jan. 7	309	75	98	80
Clark, John M., Whitesone, N. Y. Steam-engine	713,400	Nov. 11	1820	409	101	1287
Clark, John M., and J. C. Crume, Dayton, Ohio. Wrench	692,828	Feb. 11	1087	244	98	1046
Clark, John T., et al. (See Amburn, Otis F., assignor.)						
Clark, Joseph H. (See Peterson and Clark.)						
Clark, Joseph L., Lebanon, Tex. Stalk-rake	704,516	Feb. 15	2165	469	100	470
Clark, Lucas C., Southington, Conn. Pipe	708,318	Sept. 2	592	134	100	2102
Clark Manufacturing Company. (See Clark, Byron G., assignor.)						
Clark, Melville, Chicago, Ill. Machine for cutting perforated sheets for automatic musical instruments	698,104	Apr. 22	3208	702 703	99	730
Clark, Melville, Chicago, Ill. Valve for pneumatic musical instruments	698,905	Apr. 29	4800	1058 704	99	1085
Clark, Melville, Chicago, Ill. Automatic player for keyed instruments	700,962	Sept. 30	3825	862 863	100	2828
Clark, Melville, Chicago, Ill. Transposing device for musical instruments	709,963	Sept. 30	3833	863	100	2829
Clark, Merrill E., Worcester, Mass. Ball-bearing	699,614	May 6	923	215	99	1365
Clark, Nehemiah H., San Francisco, Cal. Lacing-hook for women's shoes or the like	709,534	Sept. 23	3002	660	100	2645
Clark, Nelly M. (See Clark, John E., assignor.)						
Clark, Oliver F., St. Louis, Mo. Bottle-carrier	697,925	Apr. 8	1747	390	99	892
Clark, Oliver F., St. Louis, Mo. Bottle-carrier	710,563	Oct. 7	323	70	101	65
Clark, Omar E. and E. E. Vicksburg, Mich. Boiler-feed regulator	711,148	Nov. 25	3265	719	101	1624
Clark, Quien & Morse. (See Paul, Lewis, assignor.)						
Clark, Robert, et al. (See Clark, Robert C., assignor.)						
Clark, Robert C., assignor of nine-twentieths to J. G. Rice, R. Clark, and F. M. Thompson, Albion, N. Y. Combined apron and overalls	712,908	Nov. 4	888	194	101	1068
Clark & Roberts. (See Kersey, William H., assignor.)						
Clark, Samuel P., Hartford, Conn. Roof-guard	702,923	June 24	3000	691	99	2782
Clark, Sarah W., New York, N. Y. Sounding-board	713,401	Nov. 11	1822	410	101	1288
Clark, Spencer, assignor to A. Morris and C. Walters, Northville, Mich. Wood-bending	709,204	Sept. 16	2302	523	100	2485
Clark, Thomas A., Leavitt, Nebr. Carpet-rag looper	698,815	Apr. 29	4611	1017	99	1046
Clark, Thomas E., Visalia, Cal. Device for perforating well-casings	702,128	June 10	1527	345	99	2440
Clark, Thomas E., Visalia, Cal. Automatic stop and lock for oil-well-casing perforators	707,532	Aug. 26	2962	670	100	1777
Clark, Walter H., North Marshfield, Mass. Sole laying and rounding machine	698,257	Apr. 22	3506	772 773	99	792
Clark, Walter L., Everett, Mass. Overhead switch	695,277	Mar. 11	1788	397 398	98	2106
Clark-Weaver Manufacturing Company. (See Weaver, Charles D., assignor.)						
Clark, William E., Springfield, Mass. Valve for water-tank supply	692,983	Feb. 11	1420	309	98	1116
Clark, William H. (See Wood, James, assignor.)						
Clark, William L., Osceola, Iowa. Air-brake apparatus	701,796	June 3	917	205	99	2304
Clark, William E., H. Bosworth, Plattsburg, and W. G. Bosworth, New York, N. Y. Metal-mold for forming castings	695,090	Mar. 11	1442	320	98	2030
Clark, William R., H. Bosworth, Plattsburg, and W. G. Bosworth, New York, N. Y. Metal-mold for forming castings	695,091	Mar. 11	1444	320	98	2034
Clarke, Arthur R., assignor of one-half to G. Johnson, Chicago, Ill. Snap-hook	711,655	Oct. 21	2414	531	101	532
Clarke, Arthur R., Chicago, assignor to G. A. Smith, trustee, Riverside, Ill. Reciprocating power mechanism	712,361	Oct. 28	3758	822 823	101	825
Clarke Chapman & Company. (See Cookson, William D., assignor.)						
Clarke, Chapman and Company. (See Woodson, William A., assignor.)						
Clarke, Eben B., Pittsburg, Pa., assignor to Firth Sterling Steel Company. Manufacture of crucible-steel	703,543	July 1	298		100	60
Clarke, Edward, Saginaw, Mich. Optometer	711,099	Oct. 14	1346	293	101	293
Clarke, Eleanor, Seattle, Wash. Cooking stove or range	696,857	Apr. 1	865	300	99	183
Clarke, George R., Montel, Tex. Farm-gate	697,198	Apr. 8	1532	343	99	345
Clarke, George R., Dawson, Canada. Apparatus for thawing frozen ground	702,924	June 24	3001	691	99	2782
Clarke, John, London, England. Mortising, tenoning, and grooving machine	697,236	Apr. 8	1590	355 356	99	357
Clarke, John S. (See Pause, Theodore O., assignor.)						
Clarke, John S., St. Clair, Mich., assignor of one-half to W. S. Mitchell. Flue-cleaner	701,256	May 27	4144	953	99	2079
Clarke, John S., assignor of one-half to M. J. Clarke, St. Clair, Mich. Salt-making apparatus	705,381	July 22	3953	856 857	100	849
Clarke, Joseph D. (See Cavanagh, Hannan, and Clarke.)						
Clarke, Joseph T., Harrow, England, assignor to Eastman Kodak Company of New Jersey. Photographic-film spool	711,617	Oct. 21	2350	513	101	518
Clarke, Maria J. (See Clarke, John S., assignor.)						
Clarke, Peete B., New York, N. Y. Vertical grain-scale	700,303	May 20	2340	581 582 583 584	99	1689
Clarke, Peete B., New York, N. Y. Rotary weighing-machine	703,544	July 1	300	68, 69	100	61
Clarke, Peete B., New York, N. Y. Safety-stop for conveyers	700,202	Sept. 16	2297	521 522 523	100	2483
Clarke, Peete B., New York, N. Y. Bucket for endless conveyers	709,203	Sept. 16	2299	523 524 525	100	2484
Clarke, Peete B., New York, N. Y. Winch	711,825	Oct. 21	2752	609 610	101	608
Clarke, Peete B., New York, N. Y. Reversing-cam for endless conveyers	714,149	Nov. 25	3267	720 721 722 723	101	1624
Clarke, Peete B., New York, N. Y. Apparatus for handling material in bulk	714,150	Nov. 25	3269	724 725 726 727 728	101	1625
Clarke, Richard T., Columbus, Ohio. Suspensers and trousers connection	698,456	Apr. 29	3867	853	99	882
Clarke, Richard T., Columbus, Ohio. Suspensers and trousers connection	698,457	Apr. 29	3868	854	99	883
Clarke, Richard T., Columbus, Ohio. Suspensers and trousers connection	708,386	July 1	43	9	100	11



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Clarke, Richard T., Columbus, Ohio. Suspenders and trousers connection.....	705,618	July 20	4509	979	100	973
Clarke, William, <i>et al.</i> (See Burdon, David P., assignor.)						
Clarke, William C., assignor to J. V. Seave, Pittsburgh, Pa. Apparatus for purifying water.....	699,655	May 13	1017	237	99	1398
Clarke, William F., <i>et al.</i> (See Burdon, David P., assignor.)						
Clarke, William H., Brooklyn, N. Y. Automatic fluid-pressure brake.....	693,949	Feb. 25	3390	726	98	1539
Clarke, William H., New York, N. Y. Electric controller.....	708,028	Sept. 2	43	10	100	1900
Clarkson, Alfred, Fall River, Mass. Faucet or cock.....	698,839	Feb. 25	3077	678	98	1496
Clarkson, Thomas, London, England. Heat regulating or governing apparatus.....	696,799	Apr. 1	764	174	99	162
Clarkson, Thomas, London, England. Regulator for steam-generators.....	701,542	June 3	464	104	99	2203
Clary, Alvin R. (See Haug, Andrew, assignor.)						
Clasen, Adolph M. D., Chicago, Ill. Elastic material and producing same.....	710,594	Oct. 7	325		101	66
Classen, Alexander, Aachen, Germany. Converting cellulose into sugar.....	645,735	Mar. 18	2724		98	2315
Classen, Alexander, Aachen, Germany. Converting cellulose into sugar.....	698,800	Apr. 1	799		99	103
Classen, Alexander, Aachen, Germany. Converting cellulose into fermentable sugar.....	700,076	May	2518	672	99	1808
Classen, Alexander, Aachen, Germany. Converting cellulose into sugar.....	707,993	Aug. 26	3717		100	128
Classen, Alexander, Aachen, Germany. Converting cellulose into sugar. (Reissue.)	12,069	Dec. 30	5653	1227	101	3062
Claude, Gordon H., Annapolis, Md. Dental appliance.....	697,326	Apr. 8	1748	3207	99	392
Clausen, Henry P., Chicago, Ill., assignor to American Electric Telephone Company. Lamp-socket.....	690,928	Jan. 14	1060	238	98	238
Clausen, Henry P., Chicago, Ill., assignor to American Electric Telephone Company. Telephone system.....	701,152	May 27	3958	911	99	3043
Clausen, Henry P., Chicago, Ill., assignor to American Electric Telephone Company. Electric condenser and making same.....	709,205	Sept. 16	2303	533	100	2485
Clausen, Henry P., Chicago, Ill., assignor to American Electric Telephone Company. Telephone switchboard-plug.....	711,556	Oct. 21	2333	485	101	494
Clausen, Jacob, Council Bluffs, Iowa. Two-row cultivator.....	710,183	Sept. 30	4252	958	100	2017
Clausen, William F. (See Russell and Clausen.)						
Clausing, Albert, Milwaukee, Wis. Alveolus.....	701,465	June 3	341	75	99	2179
Clauss, William, Cincinnati, Ohio. Bake-oven.....	700,011	May 13	171	394	99	1540
Claussen, Siegfried E., Walla Walla, Wash. Bedstead.....	696,858	Apr. 1	867	200	99	184
Clawson, Bee B., Oakland, Cal. Hydrocarbon composition.....	692,627	Feb. 4	723		98	947
Clawson, Fredrick E., Newark, and O. C. Benjamin, Orange, assignors of one-third to A. Kaltenbach, Newark, N. J. Incandescent gas-burner.....	698,373	Apr. 22	3705	818	99	833
Clawson, Jehu S. and J. C., New Prospect, Tenn. Wheel-attaching device.....	698,237	Feb. 11	1940	421	98	1223
Clawson, John C. (See Clawson, Jehu S. and J. C.)						
Clawson, Leonard E., San Francisco, Cal. Air-temperature regulating and purifying device.....	716,380	Dec. 23	3964	735	101	2583
Clawson, Monroe S., New York, N. Y. Induction-coil.....	711,695	Oct. 21	2499	548	101	551
Clay, Absalom, Appalachia, Va. Gate.....	698,785	Feb. 18	2962	653	98	1454
Clay Center Manufacturing Company. (See Schlachter, Robert H., assignor.)						
Clay, Harry C., assignor to Reeves & Company, Columbus, Ind. Straw-burning furnace.....	708,042	June 24	3244	746	99	2829
Clay, John D. and F. A. La Roche, New York, N. Y. Electric switch.....	692,427	Feb. 4	360	88	98	1874
Clay, Peter, Sheboygan, Wis. Folding bed.....	703,545	July 1	307	69	100	62
Claybourne, Colin W., Indianapolis, Ind. Gas-heater.....	697,235	Apr. 8	1589	355	99	356
Clayden, Arthur W., Exeter, England. Gas, gasoline, or inflammable-vapor engine.....	694,090	Feb. 25	3582	792	98	1597
Clayland, James L., Fort Smith, Ark. Engine-shaft.....	690,835	Jan. 7	897	199	98	190
Claypool, William S., Cagle, Mo. Ink-well.....	715,984	Dec. 16	3574	599	101	2495
Claypoole, Charles T., Sioux City, Iowa. Electric meter.....	693,688	Feb. 13	2845	617	98	1482
Claypoole, Charles T., Sioux City, Iowa. Electric meter.....	694,832	Mar. 4	947	211	98	1913
Clayton, Austin B., Dover, Mo. Farm-gate.....	696,943	Apr. 8	1079	238	99	249
Clayton Fire Extinguishing & Disinfecting Company. (See Moore and Martin, assignors.)						
Clayton, Fred, Pudsey, England. Recessing or grooving plane.....	707,085	Aug. 19	2078	464	100	1575
Clayton, Henry C., Marion, Ind. Hanger.....	691,114	Jan. 14	1391	316	98	304
Clayton, L. N., <i>et al.</i> (See Hughes, Thomas W., assignor.)						
Clayton, Otto O., Chamberlain, Ind. Box and fastener.....	701,797	June 3	919	205	99	2300
Clayton, Thomas A., New York, N. Y. Apparatus for charging closed compartments with gas.....	716,381	Dec. 23	3965	735	101	2583
Cleal, Joseph P. (See Hunt, Charles J., assignor.)						
Cleal, Joseph P., Dayton, Ohio, assignor, by mesne assignments, to National Cash Register Company, Jersey City, N. J. Cash-register.....	690,561	Jan. 7	371	75,76	98	80
Cleal, Joseph P., Dayton, Ohio, assignor to National Cash Register Company, Jersey City, N. J. Cash-register.....	690,562	Jan. 7	374	77	98	81
Cleal, Joseph P., Dayton, Ohio, assignor to National Cash Register Company, Jersey City, N. J. Cash-register.....	693,498	Feb. 18	2425	530	98	1345
Cleal, Joseph P., Dayton, Ohio, assignor to National Cash Register Company, Jersey City, N. J. Cash-register.....	693,499	Feb. 18	2430	531	98	1346
Cleal, Joseph P., Dayton, Ohio, assignor to National Cash Register Company, Jersey City, N. J. Cash-register.....	694,720	Mar. 4	751	167	98	1870
Cleal, Joseph P., Dayton, Ohio, assignor to National Cash Register Company, Jersey City, N. J. Cash-register.....	697,982	Apr. 22	2976	656	99	681
Cleal, Joseph P., Dayton, Ohio, assignor, by mesne assignments, to National Cash Register Company, Jersey City, N. J. Cash-register.....	700,171	May 20	2055	470	99	1680
Cleare, Frederick J., Montreal, Canada. Lamp.....	704,290	July 8	1737	379	100	365
Cleary, John F., Hoytdale, Pa. Metallic tie and rail-joint.....	705,593	July 29	4364	945	100	945
Cleary, Michael. (See Taggart, George, assignor.)						
Clegg, Alfred S., <i>et al.</i> (See Freed, Hoover W., assignor.)						
Cleland, Findley E., and E. B. Murray, assignors of one-third to J. Gass, Des Moines, Iowa. Insulating-joint for pipes.....	707,393	Aug. 19	2490	559	100	1663
Clemens, Ferdinand, Jr., Delta, Iowa. Power mechanism.....	702,304	Sept. 16	2490	563	100	2527
Clement, Charles P., Liège, Belgium. Concealed-hammer breakdown gun.....	693,639	Feb. 18	2708	598	98	1403
Clement, Frank H., Rochester, N. Y. Band resawing-machine.....	692,428	Feb. 4	362	89	98	874
Clement, Henry E., Thomasville, N. C. Knockdown crate.....	706,022	Aug. 5	34	7	100	1123
Clement, William, Traverse City, Mich. Fruit-box.....	702,776	June 17	2732	628	99	2709
Clement, William D., Waltham, Mass. Tail-stock for watchmakers' lathes.....	690,929	Jan. 14	1062	238	98	238
Clements, Charles F., Peoria, Ill. Lubricator and liquid-dispenser.....	710,184	Sept. 30	4251	929	100	2018
Clements, James, East Chicago, Ind. Warm-air radiator.....	706,161	Aug. 5	314	66, 67	100	1181
Clements, Luther H. (See Johnson and Clements.)						
Clements, William G., assignor of one-half to M. J. Sheedy, Vancouver, Canada. Saw-oiler.....	691,338	Jan. 14	1858	419	98	406

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr.-gr.	Vol.	Page.
Clemm, Adolf, Mannheim, Germany. Making sulfuric anhydrid.	716,985	Dec. 30	4063		101	2883
Clemous, De Laski T., assignor of one-half to G. Conderman, Hornellsville, N. Y. Sand- ing and polishing machine.	699,368	May 6	449	104 105 312 313 314	99	1266
Clemons, Milton A., assignor to Cahill & Hall Elevator Company, San Francisco, Cal. Elevator.	708,755	Sept. 9	1367		100	2272
Cleddy, J. E. (See Ferres, Jeffrey T., assignor.)						
Cleveland Automatic Moulding Machine Company. (See Battenfeld, John N., assignor.)						
Cleveland, George D., Flint, Ind. Wrench.	715,025	Dec. 2	735	156	101	1985
Cleveland Machine Screw Company. (See Brophy, John P., assignor.)						
Cleveland Pneumatic Tool Company <i>et al.</i> (See Richards, Charles B., assignor.)						
Cleveland Target Company. (See Troutner, William D., assignor.)						
Cleveland Toy and Manufacturing Company. (See Short, Robert L., assignor.)						
Cleveland, William S., and B. H. Stahr, Minneapolis, Minn. Elevator or storage-bin con- struction	714,363	Nov. 25	3700	817	101	1713
Clewley, Joseph B., Lynn, Mass. Puzzle.	637,199	Apr. 8	1534	343	99	845
Click, John J., assignor of one-half to W. L. Welch, Bellevue, Tex. Ironing-table.	692,984	Feb. 11	1422	309	98	1117
Clicquenoel, Jacob. (See Dahlberg, Clicquenoel, and Uhlin.) (Reissue.)						
Cliff, Edward. (See Tucker, Benjamin W., assignor.)						
Cliff, Edward, Newark, N. J. Combined door check and closer.	693,588	Feb. 18	2609	577	98	1381
Cliff, Edward, Newark, N. J. Passenger-car truck.	714,672	Dec. 2	33	7, 8	101	1844
Cliff, Edward, Newark, N. J. Car-truck.	714,673	Dec. 2	36	8, 9	101	1845
Cliff, Edward, Newark, N. J. Car-truck.	714,674	Dec. 2	38	9	101	1845
Cliff, Edward, Newark, N. J., assignor to Cliff and Guibert Company, New York, N. Y. Hose-rack	699,656	May 13	1018	237	99	1399
Cliff, Edward, Newark, N. J., assignor to Vose and Cliff Manufacturing Company, New York, N. Y. Car-truck	700,172	May 20	2065	472	99	1633
Cliff, Edward, Newark, N. J., assignor to Vose and Cliff Manufacturing Company, New York, N. Y. Side and center bearing for car-trucks.	707,208	Aug. 19	2312	517	100	1626
Cliff and Guibert Company. (See Cliff, Edward, assignor.)						
Clifford, Dennis F., Chicago, Ill. Attachment for rocking-chairs.	702,632	June 17	2465	565	99	2653
Clifford, George Q., <i>et al.</i> (See Slater, Frank W., assignor.)						
Clifton, Eugene H., Lansdale, Pa. Lawn-mower.	700,173	May 20	2067	478	99	1633
Clift, Arthur S., East Orange, N. J. Reversing device for overhead electric carriers.	692,118	Jan. 28	3300	747	98	734
Clift, Edward, New York, N. Y. Car-hanger.	708,205	Sept. 2	392	91	100	2062
Clifton, Clifton W., New York, N. Y. Device for elevating trunks.	716,866	Dec. 30	4430	959	101	2834
Clifton, Emory B., Withee, Wis. Convertible cot and stretcher.	694,353	Mar. 4	21	5	98	1717
Clifton Manufacturing Company. (See Lougee, Amanda M., assignor.)						
Clifton, Walter. (See Aughey and Clifton.)						
Climax Kiln Company. (See Dicken, William, assignor.) (Reissue.)						
Climax Manufacturing Co. (See Bailey, William J., assignor.)						
Climax Nut Lock & Manufacturing Company. (See Johnson, Charles J., assignor.)						
Climax Road Machine Company. (See McAlpine, Lemuel B., assignor.)						
Climenson, William W., and W. D. Winger, Honeybrook, Pa. Machine for separating cockle from wheat.	691,045	Jan. 14	1287	292	98	284
Climenson, William W., and W. D. Winger, Honeybrook, Pa. Umbrella-notch.	710,426	Oct. 7	50	12	101	12
Climenson, William W., and W. D. Winger, Honeybrook, Pa. Umbrella rib and stretcher joint.	710,427	Oct. 7	53	12	101	13
Cline, Albert F. (See Topfiff, Willis W., assignor.)						
Cline, Elmer E., assignor to Ocala Foundry and Machine Works, Ocala, Fla. Tooth and base for phosphate-logs.	698,374	Apr. 22	3706	819	99	834
Cline, Fred N., assignor of one-half to A. G. Thompson, Chicago, Ill. Horseshoe.	704,175	July 8	1322	326 327	100	320
Cline, Harry F., Hutchinson, Kans. Bearing for centrifugal machines.	714,561	Nov. 25	4059	898	101	1783
Cline Stock Car Company. (See Cline, William, assignor.)						
Cline, William, Lancaster, assignor to Cline Stock Car Company, Philadelphia, Pa. Stock-car	709,596	Sept. 23	3102	691 692	100	2066
Clingman, George F., assignor to Tobey Furniture Company, Chicago, Ill. Chair.	714,675	Dec. 2	41	9	101	1846
Clinton, James A., Brooklyn, N. Y. Necktie-fastener.	705,382	July 22	3955	857	100	849
Clinton, James A., Brooklyn, N. Y. Comb.	713,402	Nov. 11	1822	410	101	1288
Clinton, John, Livingston, Mont., assignor to T. D. and J. D. Millea and M. J. Carroll, Springfield, Mass. Gate	710,250	Sept. 30	4377	984	100	2944
Clinton, Peter H., Philadelphia, Pa. Paper-hanger's kit.	710,951	Oct. 14	1041	230 231	101	228
Clopton, John B., Bastrop, Tex. Acetylene-gas generator.	696,859	Apr. 1	868	201	99	184
Clopton, William D., Lewisburg, W. Va. Train signaling apparatus.	709,746	Sept. 23	3380	758	100	2721
Close, Adrian, Whitehall, Ill. Churn.	706,023	Aug. 5	35	7	100	1123
Closson, James H., <i>et al.</i> (See Prescott, Thomas D., J. C., and H. A., assignors.)						
Lofterman, Clarence H., Cincinnati, Ohio. Spring-wire mattress.	694,614	Mar. 4	536	117	98	1827
Cloze, Charles, Webster City, Iowa. Grain-cleaning screen.	698,258	Apr. 22	3514	773	99	794
Cloude, Harry M., Cincinnati, Ohio. Moistening device.	716,191	Dec. 16	3009	657	101	2497
Clough, Edgar F. (See Towne and Clough.)						
Clough, Lee E. (See Miller and Clough.)						
Clough, Victor W., Geneseo, Ill. Reversing-gear for engines.	706,637	Aug. 12	1227	272	100	1380
Clough, Victor W., Geneseo, Ill. Reversing-gear for engines.	706,638	Aug. 12	1228	272	100	1380
Cloze, William F., Everett, assignor of two-thirds to G. Goepfer, Cambridge, and A. Coleman, Boston, Mass. Valve-actuating mechanism for radiators.	702,342	June 10	1900	434	99	2514
Closure, Joseph N. (See Bowman and Closure.)						
Closer, Samuel F., Brooklyn, N. Y. Railway signal apparatus.	693,376	Feb. 18	2196	482	98	1298
Clouth, Franz, Cologne-Nippes, Germany. Resilient tire for vehicles.	692,628	Feb. 4	724	167	98	947
Clover, Benton L., and A. Grabowski, Chicago, Ill. Core-box cutter.	699,285	May 6	292	67, 68	99	1234
Clover, Howard K., Omaha, Nebr. Fuel-controller for steam-boilers.	692,192	Jan. 28	3429	776	98	761
Clover, William, Philadelphia, Pa. Drilling-machine.	715,756	Dec. 16	3105	472	101	2305
Clowse, William, and O. M. Stevens, Hardwick, Vt., said Stevens assignor to said Clowse. Shade-roller bracket	709,964	Sept. 30	3857	863	100	2830
Cucas, Richard, assignor to Liverpool Malt Company, Limited, Liverpool, England. Scraper for rollers.	702,868	June 17	2898	670	99	2744
Cuett, Peabody & Co. (See Cuett, Robert, assignor.)						
Cuett, Peabody & Co. (See Underhill, Arthur J., assignor.)						
Cuett, Robert, assignor to Cuett, Peabody & Co., Troy, N. Y. Drying collars.	707,823	Aug. 26	3555	803	100	1897
Cluff, George A., assignor of two-fifths to J. J. Powers, Paterson, N. J. Means for stop- ping looms at intervals.	704,436	July 8	1966	432	100	418
Clukies, Bertha, <i>et al.</i> (See Clukies, James A., assignor.)						
Clukies, James A., assignor to L. Steitz and B. Clukies, St. Louis, Mo. Trap.	709,871	Sept. 30	3622	818	100	2786
Clukies, James A., assignor to L. Steitz and B. Clukies, St. Louis, Mo. Means for at- taching bowls to the slabs of washtands.	709,872	Sept. 30	3623	818	100	2786
Clum, Ira E., Lima, Ohio. Roof clamp or bracket	713,061	Nov. 11	1157	259	101	1144



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Clump, David, and W. Hofmeister, St. Louis, Mo. Smoke-consumer	701,206	June 3	31	6	99	2115
Cluts, Oliver, Cuba, Ill. Device for transmitting rotary motion to vehicle-wheels	717,079	Dec. 3	4886	1048	101	2921
Clymer, William R. (See Fishell and Clymer.)						
Coakley, Charles H., et al. (See Johnson, Charles M., assignor.)						
Coakley, William F., et al. (See Johnson, Charles M., assignor.)						
Coates, George H., Worcester, Mass. Hair-clipper	708,464	Sept. 2	838	191	100	2151
Coates, Jesse, Lynn, Mass., assignor to General Electric Company. Manufacture of electrical condensers	691,600	Jan. 21	2323	522	98	518
Coates, John E., et al. (See Laux, Mathias, assignor.)						
Coates, Philip J., Macon, Ga. Cushioned horseshoe	705,908	July 29	4982	1084	100	1068
Coates, Thomas, Youngstown, Ohio. Distress-signal	701,153	May 27	3962	911	99	2044
Coath, David D., Rangoon, India. Railway or tramway vehicle	701,469	June 3	342	75	99	2179
Coats, Ernest S. (See Watson, Thomas, assignor.)						
Coats, Frank W. (See Loney, William C., assignor.)						
Coats, Samuel, Bridgeport, Pa. Damper-regulator						
Coatsworth, Caleb S. (See Quarrie, Morgan, Gibson, and Coatsworth.)	708,319	Sept. 2	593	135	100	2102
Cobaugh, Ephraim B., Middletown, Pa. Knife	700,617	May 20	2919	672	99	1898
Cobb, Alphonso H., Asheville, N. C. Clothes-hook	707,824	Aug. 26	3557	894	100	1898
Cobb, Elmer M., assignor to Southworth Brothers, Portland, Me. Machine for folding metal strips	713,062	Nov. 11	1128	259	101	1144
Cobb, Elmer M., and E. A. Spaulding, Portland, Me. Machinist's V-block	708,973	Sept. 30	3324	819	100	2786
Cobb, Leander B., Malden, and C. M. Jenkins, Somerville, assignors to William G. Fell Company, Boston, Mass. Meat-chopper	706,800	Aug. 12	1558	348	100	1452
Cobb, Samuel C., assignor to Janesville Machine Company, Janesville, Wis. Cultivator	705,288	July 22	3566	752	100	772
Cobb, William B., assignor to C. H. Loew, Cleveland, Ohio. Bottle-washing machine	699,363	Jan. 7	376	77	98	81
Cobenz, Albert. (See Mies and Cobenz.)						
Coble, David C., Elizabethtown, Pa. Folding lawn-swing	697,133	Apr. 8	1414	1315	99	321
Coble, James H. (See Esse, Charles E. A., assignor.)				1316		
Coburn, Azro A. (See Sumner, William J., assignor.)						
Coburn, Azro A., Holyoke, Mass. Sound-deadening device for metallic trolley-tracks	692,629	Feb. 4	725	168	98	948
Coburn, Azro A., Holyoke, assignor to Coburn Trolley Track Manufacturing Company, Williamansett, Mass. Stop-service ladder	706,162	Aug. 5	315	67	100	1181
Coburn, Charles F. (See Ward, George B., assignor.)						
Coburn Trolley Track Manufacturing Company. (See Coburn, Azro A., assignor.)						
Coburn Trolley Track Manufacturing Company. (See Sumner, William J., assignor.)						
Coburn Trolley Track Manufacturing Company. (See Werner, Paul F., assignor.)						
Cochran, Enos C. (See Calvin, James E., assignor.)						
Cochran, James M., Gober, Tex. Appliance for protecting oil-wells from fires	695,278	Mar. 11	1793	398	98	2107
Cochran, James M., Gober, Tex. Wind-motor	703,766	July 1	720	159	100	144
Cochran, James M., Gober, Tex. Wind-motor	715,985	Dec. 16	2575	569	101	2405
Cochran, Maria, New York, N. Y. Belt fastener, clasp, or buckle	704,437	July 8	1988	432	100	118
Cochran, William J., San Francisco, Cal. Wood-turning machine	697,607	Apr. 15	2278	509	99	516
Cochran, William R., Jr., Delphos, Ohio, assignor to two-thirds to J. S. Bowers, Decatur, Ind. Screen	698,816	Apr. 29	4612	1017	99	1060
Cochrane, James P., Edinburgh, Scotland. Manufacture of golf-balls	703,896	July 1	970	100	194	
Cochraue, Seabird H. B., Canal Winchester, Ohio. Artificial denture	697,983	Apr. 22	2978	657	99	682
Cochraue, Seabird H. B., Canal Winchester, Ohio. Dental forceps	705,320	July 22	3811	826	100	820
Cochrane, Thomas, Buffalo, N. Y. Mud-guard for vehicles	691,445	Jan. 21	2050	459	98	462
Cochrane, William B., assignor to one-half to L. C. Kettler, Pocatello, Idaho. Screen-floor fastener	692,119	Jan. 28	3301	747	98	734
Cochrill, Thomas C. (See Tancock and Cochrill.)						
Cochran, Francis B., Plainfield, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Variable-speed gear	701,543	June 3	466	105	99	2204
Cooke, George M., assignor to Fuller-Warren Company, Milwaukee, Wis. Stove	690,564	Jan. 7	378	78	98	82
Cocker, Thomas W., assignor to Shaw & Cocker Company, Paterson, N. J. Spindle for bobbins	695,912	Mar. 25	2940	666	98	2375
Cockrell, Bessie C., Washington, D. C. Stopper for vessels	699,657	May 13	1920	237	99	1959
Cody, Frederick A. and R. D., Chicago, Ill. Hydrocarbon-lighting system	702,406	June 17	2926	462	99	3260
Cody, Martin, New York, N. Y. Puzzle	702,284	June 10	1792	499	99	2494
Cody, Michael, Chicago, Ill. Tilting extension for fire-escapes	712,262	Oct. 28	3589	784	101	790
Cody, Robert D. (See Cody, Frederick A. and R. D.)						
Coe Brass Manufacturing Company. (See Brooker, Charles F., assignor.)						
Coe, Charles T., New York, N. Y. Grate	700,618	May 20	2920	672	99	1806
Coerver, Michael. (See Sutton, Steele, and Coerver.)				1673		
Coes, Frank L., assignor to Loring Coes & Company, Incorporated, Worcester, Mass. Wrench-handle	691,046	Jan. 14	1290	292	98	294
Coes, Frank L., assignor to Loring Coes & Company, Incorporated, Worcester, Mass. Wrench-handle	691,243	Jan. 14	1624	371	98	354
Coes, Frank L., assignor to Loring Coes & Company, Incorporated, Worcester, Mass. Construction of wrench-handles	693,108	Feb. 11	1656	361	98	1165
Coes Wrench Company. (See Searle, Harry, assignor.)						
Coffeen, Francis E., Wakarusa, Ind. Adding-machine	714,151	Nov. 25	3294	728	101	1631
Coffill, Volney K., Brooklyn, N. Y. Combination illuminating and heating burner	690,700	Jan. 7	645	141	98	195
Coffin, Charles A., Allen, Nebr. Washing-machine	691,894	Jan. 28	2897	652	98	655
Coffin, Charles E. (See Coffin, Ellery F., assignor.)						
Coffin, David N. B., Newton, assignor to Coffin Valve Company, Boston, Mass. Water-gate	707,825	Aug. 26	3558	894	100	1896
Coffin, Ellery F., assignor to one-fourth to C. E. Coffin, Muirkirk, Md. Blast or other furnace	705,822	July 29	4829	1049	100	1037
Coffin, Thaddeus S., Revere, Mass. Show-tray	699,399	Jan. 7	26	6	98	8
Coffin, Thaddeus S., Revere, Mass. Landing-net	708,797	Sept. 9	1461	334	100	2258
Coffin, Thaddeus S., Revere, Mass. Fish-hook	712,497	Nov. 4	59	15	101	910
Coffin Valve Company. (See Adams, Francis E., assignor.)						
Coffin, Walter E., assignor to Coffin, David N. B., assignor.)						
Coffin, Walter E., assignor to National Malleable Castings Company, Cleveland, Ohio. Car-coupling	693,238	Feb. 11	1941	422	98	1233
Coffin, Walter E., assignor to National Malleable Castings Company, Cleveland, Ohio. Draft-rigging	707,501	Aug. 19	2843	1644	100	1736
Coffin's Box & Lumber Co. (See Schaefer, William C., assignor.)						
Coffman, George W., Garden City, Kans. Type-writing machine	702,706	June 17	2595	568	99	2690
Coffman, Ralph B., Chattanooga, Tenn. Baby-buggy	708,621	Sept. 9	1111	249	100	2215
Coffin, Oscar J. (See Coffin, Samuel W., assignor.)						
Coffin, Samuel W., assignor to nine-tenths to O. J. Coffin, Covington, Ky. Steering and maneuvering wheel for vessels	713,063	Nov. 11	1130	250	101	1145

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Cofman, Judson G., Comptche, Cal. Carrier	705,383	July 22	3956	857	100	849
Cogan, John R., New Hagerstown, Ohio, assignor of one-half to W. E. McCarty, Carnegie, Pa. Automatic grip-wrench	714,364	Nov. 25	3710	817	101	1713
Cogan, Daniel L., Waterville, Mebr. Flour-bolting sieve	695,445	May 13	1182	276	99	1430
Cogswell, Albert, Montpelier, Ohio. Draft-equalizer	694,000	Feb. 25	3417	753	98	1563
Cogswell, Asa F., Crete, Nebr. Artificial denture	695,796	Mar. 18	2725	621	98	2315
Cogswell, Harley, Lakeview, Mich. Ball-bearing	709,206	Sept. 16	2306	524	100	2485
Cogswell, Henry J., assignor to Acme Switch Company, Incorporated, Hartford, Conn. Electric switch	692,420	Feb. 4	364	49,90	98	875
Cogswell, Henry J., assignor to Hartford Accumulator Company, Hartford, Conn. Storage battery	690,658	May 13	1020	238	99	1309
Cogswell, Leander A. (See Nichols, Elmer P., assignor.)						
Cohen, Alchanaan. (See Sebba and Cohen.)						
Cohen, George W., assignor of nine-sixteenths to J. B. C. Wheeler, C. L. Stevens, R. S. Sutton, A. H. McKee, G. F. Neale, J. Wolf, Allegheny, W. C. McElheny and G. O. Morgan, Pittsburg, Pa. Railway safety-block system	697,934	Apr. 15	2876	634 635	99	642
Cohen, Harry E. (See Porter and Cohen.)						
Cohen, Hartwig A. (See Grant, Thomas, assignor.)						
Cohen, Israel, Philadelphia, Pa. Machine for folding and rolling cloth	698,458	Apr. 29	3869	854	99	883
Cohen, Jacob. (See Post, William I., assignor.)						
Cohen, Jacob, New York, N. Y. Watch-protector	702,777	June 17	2734	628	99	2709
Cohen, Joseph, Brooklyn, assignor to City Button Works, New York, N. Y. Garment-clip						
Cohen, Louis, and J. Gross, Somborette, Mexico. One-concentrator	696,626	Apr. 1	421	97	99	92
Cohen, Morris I., Chicago, Ill. Valve-working mechanism for gas-burners	702,541	June 17	2382	519	99	2615
Cohen, Moses H., Marseilles, Ill. Spectacles	693,797	Mar. 18	2726	621	98	2316
Cohn, Adolph H., New York, N. Y. Hose-supporter	709,874	Sept. 30	3024	819	100	2786
Cohn, Bernard L., New York, N. Y. Window-washer	713,206	Nov. 11	4403	316 317	101	1201
Cohn, Max, Berlin, Germany. Manufacturing iodine preparations	694,615	Mar. 4	537	117	98	1827
Cohn, Louis, Mattapan, assignor to himself, and S. L. Siegel, Roxbury, and I. H. Feinberg, Boston, Mass. Mixer and kneader	694,945	Mar. 11	1169	377	98	1978
Coin Controler Company. (See Lewis, Edward G., assignor.)	691,115	Jan. 14	1393	317	98	304
Coin, Ina C. (See Kearns and Coin.)						
Colahan, Charles, Chicago, Ill. Corn-harvester	691,748	Jan. 28	2632	590	98	601
Colborne, Oliver, Chicago, Ill. Car-truck	697,070	Apr. 8	1316	291	99	238
Colbourne, Thomas S., Barnstable, England. Rotary engine	710,756	Oct. 7	682	143	101	139
Colburn, Abbott B. (See Hanson, Nathan C., assignor.)						
Colburn, Augustus W. (See Southard, Abraham M., assignor.)						
Colburn, Eliza A., et al., executors. (See Colburn, Henry J.)						
Colburn, Henry J., Toledo, Ohio. Glass-blowing machine	698,817	Apr. 29	4613	1017 1018	99	1046
Colburn, Henry J., deceased; E. A. and I. W. Colburn, executors, Toledo, Ohio. Circular sawing machine	707,675	Aug. 26	3219	722 723	100	1890
Colburn, Irving W., et al., executors. (See Colburn, Henry J.)						
Colburn, Irving W., Toledo, Ohio. Glass-working machine	696,007	Mar. 25	3106	703 704	98	2407
Colburn, Irving W., Toledo, Ohio. Glass-working machine	696,008	Mar. 25	3115	704 705	98	2410
Colburn, Irving W., Philadelphia, Pa. Glass-working machine	711,287	Oct. 14	1717	371 372	101	371
Colburn, Leslie H., assignor to Toledo Glass Co., Toledo, Ohio. Glass-blowing machine	698,818	Apr. 29	4616	1018 1019	99	1047
Colby, Harlan P., Grand Rapids, Mich. Running-gear	710,428	Oct. 7	55	13	101	13
Colby, Harry W., assignor to Automatic Racking Machine Company, Chicago, Ill. Hose-thimble expander	691,446	Jan. 21	2051	459	98	462
Colby, Harry W., and E. O. Heinsdorf, Chicago, Ill. Bottle-rinser	709,698	Sept. 23	3277	734	100	2701
Coldwell, George L. (See Ebeling, Philip, assignor.)						
Coldwell, Harry T., Newburgh, N. Y. Game apparatus	710,565	Oct. 7	326	71	101	66
Coldwell, Joseph, and C. G. Gildard, Fall River, Mass. Warp stop-motion for looms	690,636	Jan. 7	514	112	98	110
Coldwell, Joseph, and C. G. Gildard, Fall River, Mass. Loom-shuttle	714,676	Dec. 2	42	9	101	1646
Coldwell, Thomas and W. H., Newburgh, N. Y. Motor lawn-mower	707,304	Aug. 19	2492	559 560	100	1663
Coldwell, William H. (See Coldwell, Thomas and W. H.)						
Cole, Alfred R., and P. J. Donnelly, Spencer, Mass. Apparatus for the continuous manufacture of spiral springs or coils	708,128	Sept. 2	240	57	100	2031
Cole, Arthur, Hood River, Ore. Necktie-frame	701,154	May 27	3964	912	99	2045
Cole, Bertie, Dalesburg, S. D. Corn-planter	695,279	Mar. 11	1795	398	98	2107
Cole, Bion, and A. O. Wilson, Lincoln, Nebr. Linotype-leader	711,288	Oct. 14	1726	372 374	101	373
Cole, Charles A., Poland, Me. Bottle-washing machine	698,589	Feb. 18	2614	577 578	98	1882
Cole, Charles B. (See Pfuntner and Cole.)						
Cole, Clifford E. (See Lombard and Cole.)						
Cole, David L., Cedargrove, Mo. Sawmill-dog	705,089	July 22	3196	690	100	697
Cole, Dwight S., Brooklyn, N. Y. Automatic valve for water-heaters	715,551	Dec. 9	1725	380	101	2204
Cole, Dwight S., assignor to New York State Saw Filers Association, Brooklyn, N. Y. Butcher's saw-frame	704,517	July 15	2167	469	100	470
Cole, Everson P. (See Heston, William G., assignor.)						
Cole, Fredrick A. (See Stratton and Cole.)						
Cole, George W., Asbury Park, N. J., assignor to G. W. Cole Company. Toe-clip for bicycles	707,209	Aug. 19	2314	517	100	1626
Cole, George W., Asbury Park, N. J., assignor to G. W. Cole Company. Bottle-labeling	713,606	Nov. 18	2234	496	101	1387
Cole, Herbert R., Millville, N. J. Combined window-scaffold and fire-escape	717,352	Dec. 30	5351	1163	101	3032
Cole, James M., Chicago, Ill. Padlock	699,369	May 6	453	105	99	1268
Cole, James W., Columbus, Ohio. Pulley power and motion transmission	716,520	Dec. 23	3655	798	101	2644
Cole, John C., assignor of one-half to Fisk Rubber Company, Chicopee Falls, Mass. Tire construction	690,391	Mar. 25	3937	872	98	2578
Cole, John T., Malmaison, Va. Foot-warmer	690,836	Jan. 7	898	199	98	190
Cole, Joseph H., Detroit, Mich. Clamping-band	712,765	Nov. 4	546	126	101	1010
Cole, Thomas and W. L., London, England. Apparatus for producing cold air for refrigerating or like purposes. (Reissue.)	12,061	Dec. 2	1117	238 239 240	101	2066
Cole, Walter, San Francisco, Cal. Excavating-machine	713,750	Nov. 18	2490	554 555	101	1443
Cole, William E., Atlanta, Ga. Furnace-grate	714,864	Dec. 2	442	94	101	1923
Cole, William F., Waco, Tex. Gun-barrel	694,833	Mar. 4	948	211	98	1918



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Cole, William F., Waco, Tex. Firearm.....	701,798	June 3	920	205	99	2301
Cole, William F., assignor to Plunger Elevator Company, Worcester, Mass. Hydraulic-valve mechanism.....	700,740	May 27	3188	127 1728	99	1882
Cole, William L. (See Cole, Thomas and W. L.) (Reissue.)						
Cole, William L., Brooklyn, assignor of one-half to W. A. Downs, New York, N. Y. Lathe for turning irregular forms.....	696,093	Mar. 25	3278	741 742	98	2443
Cole, Wilson T., and F. T. Hamilton; said Hamilton assignor to G. A. Will, Minneapolis, Minn. Performing or scoring device for printing-presses.....	712,490	Nov. 4	63	16	101	910
Coleman, Albert, Portland, assignor to C. S. Edwards, M. L. and G. L. Elken, Mayville, N. D. Smut-machine.....	690,565	Jan. 7	380	78	98	82
Coleman, Alonzo, <i>et al.</i> (See Cough, William P., assignor.)						
Coleman, Clarence W. (See Coleman, Clyde J., assignor.)						
Coleman, Clarence W., Chicago, Ill., assignor to Hall Signal Company. Signal-operating apparatus.....	693,109	Feb. 11	1657	1361 1362	98	1165
Coleman, Clyde J., New York, N. Y., assignor to Hall Signal Company. Electric-circuit controller.....	693,110	Feb. 11	1664	362	98	1167
Coleman, Clyde J., Chicago, Ill., assignor, by mesne assignments, to C. W. Coleman. Refrigerating apparatus.....	709,814	Sept. 23	3516	793	100	2750
Coleman, David N., <i>et al.</i> (See Bowen, David A., assignor.)						
Coleman, Edgar P., Chicago, Ill. Governor.....	712,498	Nov. 4	60	16	101	910
Coleman, Edgar P., and S. E. Hitt, Chicago, Ill. Mechanical brake for hoisting machinery.....	710,757	Oct. 7	684	144 145	101	140
Coleman, Edgar P., and S. E. Hitt, Chicago, Ill. Mechanical brake.....	710,758	Oct. 7	690	145 146	101	141
Coleman, Edgar P., and S. E. Hitt, Chicago, Ill. Mechanical friction-brake.....	710,759	Oct. 7	693	146	101	142
Coleman, George, Stratford, Ill. Nut-lock.....	704,017	July 15	2333	567	100	503
Coleman, George D., Boston, Mass. Coating irregular surfaces.....	717,495	Dec. 30	5610		101	3084
Coleman, George D., Boston, Mass., assignor to Coleman Ship and Pile Coppering Company, East Orange, N. J., and Boston, Mass. Metallic surface sheathing.....	717,080	Dec. 30	4687	1048	101	2921
Coleman, George P., assignor of one-half to J. A. Powers, New York, N. Y. Portable pillow-sham holder.....	692,238	Feb. 4	39	9	98	806
Coleman, James V., San Francisco, Cal. Apparatus for pouring metal into molds.....	601,244	Jan. 14	1625	371 372	98	354
Coleman, James V., San Francisco, Cal. Amalgamator.....	703,004	July 1	597	132 133	100	118
Coleman, John P., Edgewood, assignor to Union Switch & Signal Company, Swissvale, Pa. Clip for detector-bars.....	714,365	Nov. 25	3711	817	101	1714
Coleman, Julia C. (See Coleman, William O., assignor.)						
Coleman Manufacturing Company. (See Coleman, Walter E., assignor.)						
Coleman Ship and Pile Coppering Company. (See Coleman, George D., assignor.)						
Coleman, Spalding. (See Schuman, Alexander C., assignor.)						
Coleman, Thomas, Jr., Clarksburg, W. Va. Mechanism for feeding glass to molds.....	702,634	June 17	2467	566	99	2653
Coleman, Thomas, Jr., and C. Runyon, Clarksburg, W. Va. Apparatus for glazing glass.....	702,633	June 17	2466	565	99	2653
Coleman, Walter E., Newdorp, N. Y. Fan.....	697,418	Apr. 15	2005	1442 1443	99	461
Coleman, Walter E., Newdorp, N. Y. Manufacturing decorative material.....	713,607	Nov. 18	2234	496	101	1387
Coleman, Walter E., Newdorp, N. Y., assignor to Coleman Manufacturing Company. Automatic fan.....	708,622	Sept. 9	1113	250	100	2218
Coleman, Walter E., Newdorp, N. Y., assignor to Coleman Manufacturing Company. Fan.....	708,623	Sept. 9	1114	250	100	2218
Coleman, Walter E., Newdorp, N. Y., assignor to Coleman Manufacturing Company. Fan.....	708,624	Sept. 9	1115	251	100	2218
Coleman, William O. (See McInty, Patrick E., assignor.)						
Coleman, William O., assignor to J. C. Coleman, Centerville, Miss. Cotton-seed separator and cleaner.....	712,263	Oct. 28	3591	784	101	790
Coles, Joseph, Glenwood Springs, Colo. Water distribution.....	699,079	Apr. 29	5079	1123	99	1144
Colgate & Company. (See Adams, George J., assignor.)						
Colgate & Company. (See Clark, Edgar O., assignor.)						
Colhoun, Ada B. (See Dyer and Colhoun.)						
Colket, George H. (See Tyson, Frank, assignor.)						
Coll, Bernarl, Baltimore, Md. Can soldering machine.....	708,798	Sept. 9	1462	1334 1335	100	2993
Collamer, Newton L., and W. F. Mahony, Washington, D. C., assignors to said Collamer. Designator or enumerator.....	694,730	Mar. 4	759	169	98	1872
Collard, George, assignor of one-fifth to A. Gladwell, Slough, England. Flash-lamp.....	699,452	May 6	619	141	99	1303
Collet, Albert, Paris, France. Ballast-rammer.....	715,552	Dec. 9	1729	380	101	2265
Collet, Albert, assignor to L. Simon, Paris, France. Machine for screw-threading trenails or the like.....	711,716	Oct. 21	2337	557	101	559
Collet, Albert, assignor to L. Simon, Paris, France. Machine for turning trenail billets or the like.....	711,282	Nov. 25	3561	784	101	1684
Collett, Samuel D., New York, N. Y., assignor to Elevator Supply & Repair Company. Elevator signal device.....	700,619	May 20	2622	673	99	1840
Colley, Frederick G., assignor to Bickford and Huffman Company, Macedon, N. Y. Seeding-machine.....	710,251	Sept. 30	4379	985	100	2945
Colley, Levi D., assignor to Sprout, Waldron and Company, Muncy, Pa. Sharpener or dresser for mill-runners.....	712,909	Nov. 4	899	195	101	1068
Colley, William F., Dublin, Ga. Roaster.....	699,103	Apr. 29	5119	1132	99	1152
Collier, Arthur T., St. Albans, assignor of one-half to E. O. Goss and A. E. Williams, London, England. Air-tube for pneumatic tires.....	702,869	June 17	2899	671	99	2744
Collier, David R., assignor to Heywood Brothers and Wakefield Company, Gardner, Mass. Grander.....	712,651	Nov. 4	358	82	101	972
Collier, Louis, assignor of two-thirds to A. E. Parker, Cripplecreek, Colo., and J. M. Thralls, Wellington, Kans. Ore bucket, dumper, and chute.....	700,741	May 27	3194	728	99	1883
Collin, George W., Bridgeport, Conn. Acetylene-gas generator.....	692,230	Feb. 4	40	9	98	807
Collin, Simon C., Philadelphia, assignor of one-half to W. White, Jr., Pittsburg, Pa. Flue connection for furnaces.....	692,240	Feb. 4	42	9, 10	98	807
Collingbourne, Albert B., <i>et al.</i> (See Douglas, Peyton, assignor.)						
Collings, Richard. (See Griseom, Alfred C., assignor.)						
Collins, Arthur P., U. S. Army. Range-finder attachment for guns.....	706,390	Aug. 5	785	170 171	100	1273
Collins, B. F. (See French, Alexander, assignor.)						
Collins, Caleb G., Woodmere, assignor to C. A. Stevens, New York, N. Y. Rendering metallic sulfids soluble.....	702,047	June 10	1378		99	2408
Collins, Clarence L. (See Johnston, Abner, assignor.)						
Collins, Clarkson A. (See Birchmore, Woodbridge H., assignor.)						
Collins, Clarkson A. (See Hooker and Birchmore, assignors.)						
Collins Co. (See Sears, Edward H., assignor.)						
Collins, Frank W., Rockland, Me. Shipping-package.....	701,845	June 10	1004	224	99	2335

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Collins, Harry R., South Bethlehem, assignor of one-third to R. P. Stout, Bethlehem, Pa. Continuous-rail frog.....	692,829	Feb. 11	1088	244	98	1047
Collins, Harry S., assignor to Collins Manufacturing Company, Pittsburg, Pa. Pipe-hanger.....	700,815	Sept. 23	3518	793	100	2751
Collins, Harry S., assignor to Collins Manufacturing Company, Pittsburg, Pa. Beam-clamp.....	709,816	Sept. 23	3519	793	100	2751
Collins, Horace B., Denver, Colo. Stopper device for stationary washbasins.....	698,875	Apr. 22	3708	819	99	884
Collins, Ira W., Kirksville, Mo. Wearing-apparel.....	697,809	Apr. 15	2658	589	99	596
Collins, James H., Nashville, Tenn. Fruit-drier tray.....	697,287	Apr. 8	1591	356 1357	99	357
Collins, John. (See Foglesong, Washington, assignor.)						
Collins, John T., Hartford, Conn. Safety attachment for trunks or boxes.....	699,790	May 13	1278	295	99	1450
Collins, John T., assignor to Hartford Motor Machine Company, Hartford, Conn. Street-sweeper.....	715,458	Dec. 9	1531	332	101	2167
Collins Manufacturing Company. (See Collins, Harry S., assignor.)						
Collins, Marcellers, Sturgis, Miss. Cultivator or harrow.....	692,830	Feb. 11	1092	244	98	1048
Collins, Norman, assignor to Empire Cash Register, Limited, London, England. Cash-register.....	694,252	Feb. 25	3871	859 860	98	1653
Collins, Norman, assignor to Empire Cash Register, Limited, London, England. Time-stamp.....	705,909	July 29	4983	1085	100	1068
Collins, Patrick J., assignor of one-half to C. G. Boland, Scranton, Pa. Motor-generator.....	702,407	June 17	2027	462 463	99	2560
Collins, Patrick J., and C. G. Boland, Scranton, Pa. Electric body appliance.....	710,429	Oct. 7	56	13	101	14
Collins Plow Company. (See Brown and Elic, assignors.)						
Collins, Thomas E., assignor to Burnham, Williams and Company, Philadelphia, Pa. Pedestal for locomotives.....	707,502	Aug. 19	2844	644	100	1737
Collins, Timothy J., Toledo, Ohio. Hydraulic barber-chair.....	697,449	Apr. 15	2006	443	99	461
Collins, Wallace F., Learned, Miss. Nut-lock.....	716,988	Dec. 30	4668	1011	101	2884
Collins, William B., North Dartmouth, Mass. Car-fender.....	714,453	Nov. 25	3869	854 855	101	1744
Collins, William F., Boston, assignor to New Process Reduction Company, Northampton, Mass. Apparatus for roasting ores.....	714,099	Nov. 18	3174	702	101	1586
Collins, William H., Portland, Me. Hook and eye.....	711,826	Oct. 21	2756	610	101	604
Collis, John, Des Moines, Iowa, assignor to W. P. Collis, New York, N. Y. Pipe-hanger.....	716,192	Dec. 16	3011	657	101	2498
Collis, Lloyd. (See Bogardus, Collis, and Powell.)						
Collis, Lloyd, and G. G. Powell, New York, N. Y. Tubular despatch system.....	714,865	Dec. 2	443	95, 96	101	1924
Collis, William F. (See Collis, John, assignor.)						
Collmann, Pheba J., George, Iowa. Washboard.....	690,030	Jan. 14	1064	230	98	239
Collon, Eugene, Cannes, France. Folding-machine.....	708,546	July 1	308	70	100	62
Colleton, William, Mukwonago Township, Wis. Rail-joint.....	708,531	Sept. 9	960	217	100	2188
Collum, George S., Hartford, Conn. Candy-cooler.....	709,139	Sept. 16	2167	497	100	2488
Colver, Fred A., Vittoria, Canada. Hand corn-planter.....	704,518	July 15	2169	469	100	470
Colman, Charles, assignor to M. H. and G. A. Smith and F. Canfield, Denver, Colo. Means for fastening wires and stays together.....	692,781	Feb. 4	995	228	98	1000
Colman, Howard D., Rockford, Ill. Knot-tying implement.....	707,826	Aug. 26	3560	804 805	100	1898
Cöln-Müsener Bergwerks Actien Verein. (See Menne, Hermann A. E., assignor.)						
Colonial Scale Company. (See Jordan, Willis H., assignor.)						
Colorado Crude Oil Burner Company. (See Smith, Dunois E., assignor.)						
Colpitts, Edwin H. (See Lee and Colpitts.)						
Colpitts, Edwin H., Boston, Mass. assignor to American Telephone and Telegraph Company. Composite transmission over loaded electric circuits.....	712,766	Nov. 4	547	126	101	1010
Colseth, Barnard, Chicago, Ill. Lifting-truck.....	702,778	June 17	2735	628 629	99	2709
Colt, Samuel S., Orange, N. J. Time damper mechanism.....	690,637	Jan. 7	517	113	98	111
Colt, Samuel S., Orange, N. J. Time releasing mechanism.....	691,047	Jan. 14	1291	293	98	285
Coltin, Robert E., Jackson, Mich. Mold for making cement stone.....	708,592	Sept. 9	961	218	100	2188
Coltrin, Robert E., Jackson, Mich. Core for making cement blocks.....	715,986	Dec. 16	2580	570	101	2406
Columbia Brake & Supply Company. (See Price, William G., assignor.)						
Columbia Shade Cloth Company. (See Gard, William E., assignor.)						
Columbia Specialty Manufacturing Company. (See Grabler, Peter, assignor.)						
Columbian Automatic Computing Scales Company. (See Hummer, William F., assignor.)						
Columbian Hardware Company. (See Valentine, Harry J., assignor.)						
Columbian Hydro-Carbon Burner Company. (See Betz, Ernest, assignor.)						
Columbus Machinery Co. (See Fredrickson, August, assignor.)						
Columbus Pharmacal Company. (See Fowle, George W., assignor.)						
Colvin, Fred H., East Orange, N. J. Arbor-press.....	714,866	Dec. 2	454	97	101	1926
Colvin, Michael R., Worcester, Mass. Gas stop-cock.....	699,659	May 13	1022	288	99	1399
Colvin, Silas S. (See McClain and Colvin.)						
Colwell, Charles E., et al. (See Harvey, Isaac, assignor.)						
Colwell, Edward S., administrator. (See Colwell, Thomas M.)						
Colwell, J. H., et al. (See Smith, Gary B., assignor.)						
Colwell, Nicholas H., assignor to R. Bliss Manufacturing Company, Pawtucket, R. I. Folding car-gate.....	692,985	Feb. 11	1423	309	98	1117
Colwell, Nicholas H., assignor to R. Bliss Manufacturing Company, Pawtucket, R. I. Folding gate for railway-cars.....	693,786	Feb. 18	2963	654	98	1455
Colwell, Thomas M., deceased, Chicago, Ill.; E. S. Colwell, administrator. Condensing steam or cooling fluids.....	705,321	July 22	3812	827	100	821
Colwell, William S., Chicago, Ill. Steam-engine.....	716,382	Dec. 23	3367	736	101	2584
Colwell, William S., Chicago, Ill. Apparatus for condensing or cooling fluids.....	716,383	Dec. 23	3370	736 737	101	2584
Colwell, William S., assignor to A. Grant, Chicago, Ill. Lawn-mower.....	712,500	Nov. 4	65	16	101	911
Combanatre, Adolphe, and J. De la Fresnaye, Paris, France. Purifying gutta-percha.....	704,677	July 15	2433	525	100	524
Combo Shirt Coat Company. (See Burt, James H., assignor.)						
Combs, Daniel W., Needmore, W. Va. Attachment for traction-engines.....	704,736	July 15	2540	549	100	546
Combs, George W., Leavenworth, Kans. Bolting-cloth cleaner.....	692,831	Feb. 11	1094	245	98	1048
Combs, John W., South Orange, N. J. Floor for stalls.....	714,677	Dec. 2	45	10	101	1846
Comegys, Courtney B., Ashgrove, Mo. Weighing-machine.....	699,453	May 6	621	142 143	99	1304
Comer, Harris, Philadelphia, Pa. Pipette.....	694,530	Mar. 4	383	84	98	1794
Commichau, Rudolf, Magdeburg-Sudenberg, Germany. Heating or cooling pipe.....	709,875	Sept. 30	3626	819	100	2787
Common, Andrew A., Ealing, England. Telescope.....	702,048	June 10	1379	313	99	2408



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Commonwealth Steel Company. (See Westlake, Charles T., assignor.)						
Compagnie Anonyme Continentale pour la Fabrication des Compteurs à Gaz et Autres Appareils. (See Rouget, Paul, assignor.)						
Compagnie Continentale d'Incandescence et de Chauffage (Système Frank et Poitrimol.) (See Nouzaret, Jean, assignor.)						
Compagnie Française de l'Acétylène Dissous. (See Fouché, Edmond, assignor.)						
Compagnie Générale Aérohydraulique. (See Desmaroux, Joseph, assignor.)						
Compagnie pour la Fabrication des Compteurs et Matériel d'Usines à Gaz, Société Anonyme. (See Brocq and Blanchet, assignors.)						
Company for the Working of the Coupling Valve System Ledovsky. (See Ledovsky, Olesim, assignor.)						
Company l'Industrie Verrières et ses Dérivés. (See Voelker, August, assignor.)						
Company of Allen and Hanburys. (See Buckley, James F., assignor.)						
Company Ozone Maatschappij Systeem A. Vosmaer. (See Vosmaer, Alexander, assignor.)						
Composite Board Company. (See Huntington, William S., assignor.)						
Composite Type Bar Company. (See Brott, Lucien A., assignor.)						
Comptograph Company. (See Felt, Dorr E., assignor.)						
Compton, George W., assignor to Fuller Manufacturing Company, East Moline, Ill. Grain-drill	707,958	Aug. 26	3892	854	100	1946
Compton, Melvin D., East Orange, N. J. Gas-regulator	713,886	Nov. 18	3689	599	101	1482
Compton, Melvin D., East Orange, N. J., assignor to F. Fuller, trustee, New York, N. Y. Acetylene-gas generator	698,693	Apr. 29	4208	929	99	961
Compton, Melvin D., assignor to Ball Check Light Company, New York, N. Y. Adjustable gas-check	714,454	Nov. 25	3871	855	101	1745
Computing Scale Company. (See Mauldin, James L., assignor.)						
Computing Scale Company. (See Ozias, Orange O., assignor.)						
Computing Scale Company. (See Williams, Francis, assignor.)						
Computing Scale Company of America. (See Hayden, Austin B., assignor.)						
Conirie, Jennings, Milwaukee, Wis. Glove	706,725	Aug. 12	1391	309 310	100	1417
Comstock, Alphonso S., Evanston, Ill. Automatic pressure-regulator	690,515	Jan. 7	287	57, 58	98	62
Comstock, Andrew J., assignor of one-half to E. L. Booth, Tyler, Tex. Cultivator	706,726	Aug. 12	1392	310	100	1417
Comstock, Charles, Newark, Conn. Shaft-coupling	692,768	Feb. 4	971	220	98	996
Comstock, Edgar M., Ypsanti, Mich. Sash-fastener	713,857	Nov. 18	2659	600	101	1483
Comstock, Levi M., Highland Park, Ill. Kindergarten-loom	709,535	Sept. 23	3903	669	100	2645
Comstock, Myron A., Newark, N. Y. Cream-separator	708,866	Sept. 9	1610	369	100	2324
Conant, Frederick W., Greenfield, Mass. Screw-plate	713,064	Nov. 11	1181	269	101	1145
Conant, Samuel S., Edgerton, Ohio. Garment-supporter	694,233	Feb. 25	3887	860	98	1657
Conant, Samuel S., Edgerton, Ohio. Automobile	704,860	July 15	2779	691 692	100	595
Condensed Egg Syndicate. (See Fordred, John, assignor.)						
Conderman, George. (See Clemons, De Laski T., assignor.)						
Condict, Nathan W., Jersey City, N. J. Still for absorption refrigerating apparatus	706,901	Aug. 12	1749	390 391	100	1492
Condict, Nathan W., Jersey City, N. J. Absorption refrigerating apparatus	706,902	Aug. 12	1750	391	100	1492
Condino, Jacinto S. (See Davis, Charles M., assignor.)						
Condit, Sears B., Jr. (See Elden, Leonard L., assignor.)						
Condon, William J., Buffalo, N. Y. Course-indicator for ships	713,608	Nov. 18	2235	496	101	1387
Condon, John F. (See Laherty, Edward L., assignor.)						
Cone, Caesar. (See Sullivan, David M., assignor.)						
Cone, John W., assignor of one-third to J. Barnes, Barnesboro, Pa. Boiler-cleaner	710,843	Oct. 7	856	186	101	174
Cone, Olive E., Kansas City, Mo. Reading-chart	717,168	Dec. 30	5010	1087	101	2958
Conery, William P., New Orleans, La. Hook and eye	692,630	Feb. 4	726	168	98	948
Coney, James D., assignor to J. B. Timberlake, Jackson, Mich. Potato-masher	712,264	Oct. 28	3592	785	101	790
Confectioners' Machinery and Manufacturing Company. (See Carlson, Gabriel, assignor.)						
Congelton, Osborn, Port Chester, assignor to American Elevated Railroad Company, New York, N. Y. Wheel	692,193	Jan. 28	3431	776	98	761
Conger, John H. B., and C. J. Eichhorn, assignors to Tea Tray Company, Newark, N. J. Interchangeable hood-support for high-tension electric-lamp service	712,652	Nov. 4	359	83	101	972
Conkle, Bernard F., Junction City, Ohio. Yielding roll	715,553	Dec. 9	1789	381	101	2205
Conklin, Drake F., and T. G. Singer, Hoboken, N. J. Loom	705,649	July 29	4510	979	100	973
Conklin, Emmet F., Chicago, Ill. Model burglar-alarm	713,965	Nov. 18	2913	647	101	1530
Conklin, Melvin M., assignor of one-half to C. B. Mather, Elmira, N. Y. Mail-box	694,063	Feb. 25	3526	776	98	1585
Conklin, Oliver F., Springfield, Ohio. Dynamo-electric machine	716,193	Dec. 16	3913	657 658	101	2406
Conklin, Oliver F., and J. L. Milton, Dayton, Ohio. Electric motor	697,984	Apr. 22	2980	657	99	682
Conley, George B., Cleveland, Ohio. Life-preserver	704,006	July 8	1169	254 255	100	248
Conley, John R. (See Conley, Thomas and J. R.)						
Conley, Michael R., New York, N. Y., assignor to Electric Furnace Company. Electric furnace	697,810	Apr. 15	2659	589 590	99	596
Conley, Thomas and J. R., Pittsburg, Pa. Guide for punching-presses	701,544	June 3	467	116	99	2204
Conlin, Thomas, Mount Savage, Md. Engine	707,994	Aug. 26	3718	854	100	1928
Conn, Andrew E., Cedar Rapids, Iowa. Harness supporting and display rack	713,751	Nov. 18	2493	555	101	1443
Conn, Lydia A., Philadelphia, Pa. Supplementary lens-mounting for spectacles or eyeglasses	716,194	Dec. 16	3914	658	101	2406
Connable, Ralph M., Baltimore, Md. Tire-fastener	712,179	Oct. 28	3448	756	101	760
Connable, Ralph M., Baltimore, Md. Tire-fastening	715,987	Dec. 16	3582	570	101	2406
Connecticut Trust and Safe Deposit Company, trustee. (See Johnson, Frank A., assignor.)						
Connecticut Trust and Safe Deposit Company et al. (See Parkhurst, Edward G., assignor.)						
Connell, David W., Rock Island, assignor to Velie Carriage Company, Moline, Ill. Vehicle-dash fastening	712,501	Nov. 4	66	17	101	911
Connolly, James A., assignor of one-half to G. F. Black, Hamilton, Ohio. Guard-board for couch-rolls	700,133	May 12	1947	448	99	1585
Connolly, William, Toledo, Ohio. Rod-coupling	698,810	Apr. 29	4619	1019	99	1047
Conner, George F. (See Watson, Leslie J., assignor.)						
Conner, George F., Port Huron, Mich. Threshing-machine	691,116	Jan. 14	1394	317	98	305
Conner, George F., Port Huron, Mich. Tooth for threshing-machines	691,841	Jan. 28	2808	630	98	636
Conner, George F., Port Huron, Mich. Reversible variable-speed gearing	692,120	Jan. 28	3302	748 749	98	734
Conner, George F., Port Huron, Mich. Band-cutter for threshing-machines	701,846	June 10	1006	284 285	99	2335
Conner, Harrison W., Boston, Mass. Combined range and water-heater	702,343	June 10	1901	484	99	2514

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Conner, Thomas. (See Hepfinger, William, assignor.)						
Conner, William S., assignor of one-fourth to C. T. Glasser, Minneapolis, Minn. Coin-actuated mechanism for newspaper-delivery boxes	693,640	Feb. 18	2709	598	98	1408
Connet, Frederick N., Providence, R. I. Mechanism for operating ship windlasses and capstans	694,616	Mar. 4	538	117 118	98	1827
Connette, Edward G. (See Keyes, Ernest W., assignor.)						
Connette, Edward G., Syracuse, N. Y. Combined punch and time-stamp	713,287	Nov. 11	1613	365	101	1242
Connolly, James H., Clifton, Ariz. Ter. Boiler-cleaner	695,034	Mar. 11	1344	296	98	2013
Connolly, Joseph W., Toledo, Ohio. Latch	716,069	Dec. 23	3946	862	101	2708
Connolly, Thomas W., Detroit, Mich. Cement-mixing machine	710,760	Oct. 7	637	146 147	101	143
Connor, David, <i>et al.</i> (See Johnson, Lafayette W., assignor.)						
Connor, James B., Boyce, Miss. Vehicle-seat	691,842	Jan. 28	2809	631	98	636
Connor, William F., New York, N. Y. Tag or check	699,370	May 6	455	105	99	1268
Connorite Manufacturing Company. (See O'Connor, John M., assignor.)						
Conover, Charles F., New York, N. Y. Cooler	707,905	Aug. 26	3721	834	100	1928
Conover, John B. (See Buchanan, James, assignor.)						
Conover, Lloyd V. S. (See Conover, Nathan S. and Lloyd V. S.)						
Conover, Nathan S. and Lloyd V. S., Clinton, N. J. Incubator	716,670	Dec. 23	3947	863	101	2708
Conover, William H., and J. W. Miles, Birds, Ill. Threshing-machine	693,787	Feb. 18	2964	654 655	98	1455
Conrad, Frank, Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Instrument for indicating the phase and frequency relations of alternating currents	695,913	Mar. 25	2941	666 667	98	2375
Conrad, Frank, Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for measuring the energy of three-phase alternating-current circuits	716,567	Dec. 30	4421	959	101	2894
Conrad, Frank, Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ground-detector for electric circuits	716,568	Dec. 30	4424	960	101	2895
Conrad, Frank, Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Measuring the energy of three-phase alternating-current circuits	717,496	Dec. 30	5612	1218	101	3084
Conrad, George W., assignor to Troy Bendine Company, Troy, Ohio. Vehicle-pole	701,470	June 3	842	75	99	2179
Conrad, Jacob, Chicago, Ill. Knockdown banana-shipping crate	710,252	Sept. 30	4380	985	100	2945
Conrad, Martin, Chicago, Ill. Locking device for axle-nuts	693,111	Feb. 11	1667	363	98	1168
Conrad, Otto. (See Phifer, Washington L., assignor.)						
Conrad, William B., Nyack, and J. E. Cameron, Brooklyn, N. Y. Machine for slitting fabrics	697,985	Apr. 22	2982	658	99	682
Conrader, Rudolph, Erie, Pa. Governor	699,805	May 13	1431	331	99	1483
Conrath, Solomon, Cookport, Pa. Street-sweeper	700,900	May 27	3497	802	99	1945
Conrey, Jacob A. (See Forster, Frank L., assignor.)						
Conrey, Jacob A., <i>et al.</i> (See Forster, Frank L., assignor.)						
Conrey, Mary, <i>et al.</i> (See Forster, Frank L., assignor.)						
Conroy, Daniel, Baltimore, Md. Horseshoe-pad	711,475	Oct. 21	2074	449	101	460
Consentino, Thomas, and F. Palumbo, Philadelphia, Pa. Type-writer	691,601	Jan. 21	2326	522 523	98	519
Consoer, William. (See Borgwardt and Consoer.)						
Consolidated Car-Heating Company. (See McElroy, James F., assignor.)						
Consolidated Car-Heating Company. (See Reid, James, Jr., assignor.)						
Consolidated Dental Manufacturing Company. (See Hardy, James F., assignor.)						
Consolidated Dental Manufacturing Company. (See Lundberg, Charles, assignor.)						
Consolidated Dental Manufacturing Company. (See Murray, Michael J., assignor.)						
Consolidated Fastener Company. (See Devine, William P., assignor.)						
Consolidated Fastener Company. (See Dowse, William B. H., assignor.)						
Consolidated Fastener Company. (See Long, Thomas, assignor.)						
Consolidated Fruit Jar Company. (See Allen, Joseph C., assignor.)						
Consolidated Fruit Jar Company. (See Kent, Henry B., assignor.)						
Consolidated Fruit Jar Company. (See Lunt, George W., assignor.)						
Consolidated Railway Electric Lighting and Equipment Company. (See Kennedy, Patrick, assignor.)						
Consolidated Rubber Tire Co. (See Grant, Arthur W., assignor.)						
Consolidated Rubber Tire Company. (See Krotz, Alvaro S., assignor.)						
Consolidated Safety Pin Company. (See Bryant, Charles A., assignor.)						
Consolidated Wireless Telegraph and Telephone Company. (See Pickard, Greenleaf W., assignor.)						
Consolidated Wireless Telegraph and Telephone Company. (See Shoemaker, Harry, assignor.)						
Consolidated Wireless Telegraph and Telephone Company <i>et al.</i> (See Ehret, Cornelius D., assignor.)						
Consolidated Wireless Telegraph and Telephone Company <i>et al.</i> (See Shoemaker, Harry, assignor.)						
Contardo, Ramon C., Sèvres, France. Reduction of metals from their ores, &c., in electrically-heated furnaces	705,651	July 29	4515	980 981	100	974
Conti, Napoleon, Paris, France. Panoramic hand-camera	704,438	July 8	1990	433	100	419
Conti, Valentin, G. de Geofroy, and G. le Gall du Tertre, Paris, France. Artificial stone	705,650	July 29	4514		100	974
Continentalte Gesellschaft für Elektrische Unternehmungen. (See Schmitz, Wilhelm, assignor.)						
Continuous Rail Joint Company of America. (See Charlton, Richard B., assignor.)						
Continuous Rail Joint Company of America. (See McGough, Samuel P., assignor.)						
Controller Company of America. (See Moore, Gales P., assignor.)						
Convers, George G., and A. B. de Saullés, South Bethlehem, Pa. Zinc-furnace	694,137	Feb. 25	3655	808	98	1613
Convers, George G., and A. B. de Saullés, South Bethlehem, Pa. Production of zinc-dust	695,376	Mar. 11	1962	438 439	98	2141
Convers, George G., and A. B. de Saullés, South Bethlehem, Pa. Muffle-furnace	712,502	Nov. 4	68	1718	101	911
Converse, Alfred D., Winchendon, Mass. Stop-motion for mechanical toys	701,155	May 27	3965	912	99	2045
Converse, Edmund. (See Anderson, Anders G., assignor.)						
Converse, Francis B., Jr., Louisville, Ky., assignor to Converse Manufacturing Company, Cleveland, Ohio. Type setting and justifying machine	717,169	Dec. 30	5011	1087 1088 1089 1091 1092	101	3958
Converse, Francis B., Jr., Louisville, Ky., assignor to Converse Manufacturing Company, Cleveland, Ohio. Type-setting machine	717,170	Dec. 30	5040	1092	101	2965
Converse, Francis B., Jr., assignor to Converse Manufacturing Company, Cleveland, Ohio. Type-setting machine	717,171	Dec. 30	5044	1093 1094	101	2966
Converse Manufacturing Company. (See Converse, Francis B., Jr., assignor.)						
Converse, Maschil D., New York, N. Y., assignor to J. J. Tower, Montclair, N. J. Miter-box	716,384	Dec. 23	3380	737 738	101	2586



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Converse, Maschil D., New York, N. Y., assignor to J. J. Tower, Montclair, N. J. Saw-clamp.	716,385	Dec. 23	3381	738	101	2586
Converse, Maschil D., New York, N. Y., assignor to J. J. Tower, Montclair, N. J. Plane.	716,386	Dec. 23	3382	738	101	2587
Converse, Maschil D., New York, N. Y., assignor to J. J. Tower, Montclair, N. J. Saw-handle.	716,521	Dec. 23	3656	798	101	2644
Converse, Maschil D., New York, N. Y., assignor to J. J. Tower, Montclair, N. J. Miter-box.	716,522	Dec. 23	3657	798	101	2644
Converse, Vernon G., Pittsburg, Pa. Insulator.	701,847	June 10	1008	225	99	2335
Converse, Vernon G., Pittsburg, Pa. Insulator.	701,848	June 10	1009	225	99	2336
Convertible Car Company. (See Romänder, Hermann, assignor.)						
Conway, George M., Milwaukee, Wis. Smoke-preventing device.	693,112	Feb. 11	1670	363	98	1168
Conway, George O. S., Stonefield, assignor of one-half to R. H. Welden, Montreal, Canada. Automatic motor-car life-saver.	693,230	Feb. 11	1941	422	98	1223
Conway, John P., New York, N. Y. Garment-supporting appliance.	697,811	Apr. 15	2661	590	99	587
Conway, Michael, Chicago, Ill. Hide-scraping machine.	710,952	Oct. 14	1042	231	101	228
Conway, William T. (See Case and Conway.)						
Conwell, James S., assignor to Wilke Manufacturing Company, Anderson, Ind. Cigar-storage case.	703,114	June 24	3390	777	99	2856
Conyne, Silas J., Chicago, Ill. Aeroplane.	698,334	Apr. 29	4200	920	99	161
Conzett, John, Fortuna, Cal. Newspaper-holder.	690,837	Jan. 7	900	199	98	190
Cook, Adolphus H. and C. R., Almira, and W. H. Hood, Hagerman, Canada. Stationary fence.	701,297	June 3	32	7	99	2115
Cook, Albert J., Jersey City, N. J., assignor to Federal Development Company, Charles-town, W. Va. Electric battery.	710,953	Oct. 14	1046	232	101	229
Cook, Andrew, Glasgow, Scotland. Guard for woodworking machines.	694,824	Mar. 4	950	211	98	1914
Cook, Andrew, Glasgow, Scotland. Guard for woodworking machines.	694,825	Mar. 4	951	212	98	1914
Cook, Anna E. and F. J., Lawrenceburg, Ind. Revolving chimney-cap.	702,779	June 17	2736	669	99	2709
Cook, Ben C., Deadwood, S. D. Ore-separating apparatus.	700,163	Aug. 5	316	67	100	1181
Cook, Caleb E. (See Davis and Cook.)						
Cook, Charles P. H., Piquonock, Conn. Adjustable window-curtain support.	702,285	June 10	1793	410	99	2494
Cook, Charles W. (See Allen, William P., assignor.)						
Cook, Chester R. (See Cook and Hood.)						
Cook & Co., S. A. (See Maco, Frank, assignor.)						
Cook & Company, S. A. (See Harris, Frank L., assignor.)						
Cook, David S., Sellersburg, Ind. Weighing-machine.	703,547	July 1	311	70	100	63
Cook, E. L. (See Scott, John R., assignor.)						
Cook, Edgar, Pontiac, Ill. Cabinet for holding and means for delivering envelops, bags, &c.	712,563	Nov. 4	70	18	101	911
Cook, Edgar H., Brooklyn, N. Y. Weighing-machine.	700,021	May 20	2824	673	99	1809
Cook, Edgar H., Brooklyn, N. Y. Weighing-machine.	708,799	Sept. 9	1466	335	100	2294
Cook, Edmond R., Sacramento, Cal., assignor of one-half to G. F. Heusner, Portland, Oreg. Apparatus for generating acetylene gas.	708,956	Sept. 9	1779	411	100	2357
Cook, Frank B., Chicago, Ill. Electromagnetic apparatus.	695,539	Mar. 18	2253	509	98	2220
Cook, Frank B., Chicago, Ill. Polarized electromagnetic apparatus.	699,660	May 13	1023	238	99	1399
Cook, Frank B., Chicago, Ill. Thermal protector for electric circuits.	704,439	July 8	1993	433	100	410
Cook, Frank B., Chicago, Ill. Terminal box for protected electrical circuits.	707,019	Aug. 12	1902	440	100	1540
Cook, Frank B., Chicago, Ill. Electrical protector set.	707,050	Aug. 12	1906	448	100	1542
Cook, Frank B., Chicago, Ill. System of strong-current protection.	707,051	Aug. 12	1999	448	100	1542
Cook, Frank B., Chicago, Ill. Fuse.	711,921	Oct. 21	2954	650	101	645
Cook, Frank D., Terminus, Cal. Cultivator attachment.	699,454	May 6	627	143	99	1305
Cook, Frederick J. (See Cook, Anna E. and F. J.)						
Cook, George W., Monroe City, assignor of one-half to J. H. Myer, Vincennes, Ind. Pump-motor.	691,447	Jan. 21	2053	460	98	463
Cook, George W., assignor of one-half to H. Fellman, Kansas City, Mo. Tire-tightener.	713,757	Dec. 16	2107	472	101	2306
Cook, Geraldine O., Boston, Mass. Union garment.	705,652	July 29	4517	981	100	974
Cook, Howard, assignor of two-thirds to R. P. Smith and W. W. Tooker, Vicksburg, Mich. Boiler-feed-regulating valve and device for operating same.	699,150	May 6	43	12	99	1185
Cook, James A., Anderson, S. C. Shutter-lock.	711,696	Oct. 21	2501	518	101	551
Cook, James H., Homer, Mich. Automatic governor for power-engines.	710,761	Oct. 7	699	147	101	143
Cook, James L., Springfield, Ill. Drill-socket.	712,633	Nov. 4	320	85	101	923
Cook, James M., Cincinnati, Ohio. Wringer.	693,113	Feb. 11	1673	364	98	1169
Cook, Jay, Coldwater, Mich. Weather-strip.	692,181	Jan. 28	3410	772	98	757
Cook, John, and A. G. Engwall, Chicago, Ill. Combined ladder and hose-nozzle-controlling apparatus.	703,115	June 24	3381	777	99	2856
Cook, John H., Brooklyn, N. Y., assignor to H. B. Newhall, Plainfield, N. J. Door-hanger.	692,241	Feb. 4	44	10	98	807
Cook, John H., Brooklyn, N. Y., assignor to H. B. Newhall, Plainfield, N. J. Trolley-hoisting block.	694,826	Mar. 4	952	212	98	1914
Cook, John H., Brooklyn, N. Y., assignor to H. B. Newhall, Plainfield, N. J. Conveyor.	702,408	June 17	2030	463	99	2561
Cook, John J., Columbus City, Iowa. Take-up device for axle-spindles.	709,747	Sept. 23	3982	750	100	2721
Cook, John W., Sr., Nevada, Iowa. Drain-tile protector.	709,395	Sept. 16	2668	603	100	2566
Cook, Julius, and J. M. Pumerville, Michigan City, Ind. Electric heater for dental purposes.	711,827	Oct. 21	2737	611	101	604
Cook, Mansfield J., Syracuse, N. Y. Garment-hanger.	699,080	Apr. 29	5080	1124	99	1144
Cook, Samuel G. B., et al. (See Howland-Sherman, Charles H., assignor.)						
Cook, Seymour S., and J. F. Maschke, Vancouver, Wash. Evaporator.	716,987	Dec. 30	4664	1011 1012	101	2884
Cook, Walter K., assignor of one-fourth to H. E. Soesbe, Mason City, Iowa. Telephone-circuit.	691,245	Jan. 14	1027	372	98	355
Cook, William, New York, N. Y. Christmas-tree stand.	710,762	Oct. 7	700	147	101	143
Cook, William F., Des Moines, Iowa. Apparatus for leveling and measuring the grade of surfaces.	695,142	Mar. 11	1557	345	98	2059
Cook, William H., Newark, Del. Checking device for sliding doors.	695,035	Mar. 11	1346	296	98	2014
Cook, William H., Newark, Del. Door opener or closer.	695,036	Mar. 11	1347	296 297	98	2014
Cooke, Alexander. (See Taylor, Cooke, and Montgomery.)						
Cooke, Charles. (See La Roche, Fredrick A., assignor.)						
Cooke, Charles E., Kansas City, Kans. Summer cook-stove.	709,876	Sept. 30	3627	820	100	2787
Cooke, Charles F. (See Elkan, Walter, assignor.)						
Cooke, John C., Philadelphia, Pa., assignor to New York Shipbuilding Company, Camden, N. J. Boiler.	714,781	Dec. 2	254	51	101	1889
Cooke, John C., Philadelphia, Pa., assignor to New York Shipbuilding Company, Camden, N. J. Water-tube boiler.	714,782	Dec. 2	255	51	101	1889
Cooke, John C., Philadelphia, Pa., assignor to New York Shipbuilding Company, Camden, N. J. Boiler.	714,783	Dec. 2	256	52	101	1889
Cooke, John C., Philadelphia, Pa., assignor to New York Shipbuilding Company, Camden, N. J. Boiler.	714,784	Dec. 2	257	52	101	1889

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Cooke, John C., Philadelphia, Pa., assignor to New York Shipbuilding Company, Camden, N. J. Water-tube boiler.	714,867	Dec. 2	455	97	101	1927
Cooke, John C., Philadelphia, Pa., assignor to New York Shipbuilding Company, Camden, N. J. Water-tube boiler.	714,868	Dec. 2	457	97, 98	101	1927
Cooksey, Arthur W., London, England. Fitting for laboratories or the like.	703,897	July 1	970	211	100	194
Cooksey, Arthur W., London, England. Pipe or conduit.	704,238	July 8	1628	352	100	340
Cookson, Charles L. (See Tuttle and Cookson.)						
Cookson, William D., assignor to Clarke Chapman & Company, Limited, Gateshead, England. Clutch.	706,391	Aug. 5	787	171	100	1273
Cooley Development Company. (See Cooley, John F., assignor.)						
Cooley, Fred W., assignor of two-thirds to G. T. Honstain, Minneapolis, Minn. Fireproof building.	707,086	Aug. 19	2079	464, 465	100	1575
Cooley, Fred W., assignor of two-thirds to G. T. Honstain, Minneapolis, Minn. Fireproof building.	707,210	Aug. 19	2315	518, 519	100	1626
Cooley, George F., Kansas City, Kans. Halter.	694,531	Mar. 1	334	84	98	1794
Cooley, George T., Joplin, Mo. Plunger mechanism.	714,152	Nov. 25	3295	729	101	1681
Cooley, Harry W., assignor of one-half to H. Halstead, Lost Valley, Oreg. Brake mechanism.	710,253	Sept. 30	4382	985, 986	100	2945
Cooley, John F., Boston, Mass., assignor to Cooley Development Company, Saco, Me. Rotary fluid-engine.	693,950	Feb. 25	3302	726	98	1540
Cooley, John F., assignor to C. S. Farquhar and A. Eastman, Boston, Mass. Apparatus for dispersing fluids.	692,631	Feb. 4	727	168	98	948
Cooley, Robert H., and H. W. Bishop, Baltimore, Md. Oyster-shucking or oyster-opening knife.	715,988	Dec. 16	2583	571	101	2407
Coolidge, Winthrop. (See Foster and Coolidge.)						
Coombes, James, New York, N. Y., assignor of one-half to A. Baumgarten, Freeport, Ill. Elastic floor-covering.	692,242	Feb. 4	46	10	98	808
Coombes, James, assignor of one-half to C. C. Maret, New York, N. Y. Squeezer.	694,517	Mar. 4	540	118	98	1828
Coombs, Arthur H., St. Louis, Mo. Burner attachment for gas-stoves.	691,356	Jan. 21	1836	426	98	430
Coombs, Frank J., Columbia Falls, Mont. Combined rule and square.	700,304	May 20	2948	534	99	1690
Coombs, James A., Llangollen, England. Valve mechanism for compressors.	711,939	Oct. 28	2997	658, 659, 660	101	674
Coombs, James F., assignor of one-fourth to F. K. Lawrence, Chicago, Ill. Eyeglass-guard.	707,827	Aug. 26	3565	806	100	1890
Coon, Arthur D., Ballston Spa, N. Y. Folding car-step.	691,895	Jan. 23	2898	652	98	655
Coon Brothers <i>et al.</i> (See Coon, Charles A., assignor.)						
Coon, Charles A., assignor to Coon Brothers, Troy, N. Y., and R. L. McDonald & Co., St. Joseph, Mo. Tab for suspender connection to garments.	702,925	June 24	3002	691	99	2783
Coon, Frank J. and M. C. Battlecreek, Mich. Washing-machine.	713,065	Nov. 11	1132	260	101	1145
Coon, Isaac A., Ellenville, N. Y. Pliers.	702,542	June 17	2283	520	99	2615
Coon, Mead C. (See Coon, Frank J. and M. C.)						
Cooper, Alexander R., Milam, Tex. Bed-slat-holding means.	705,384	July 22	3957	857	100	850
Cooper, Arthur W., Chicago, Ill. Metal window.	700,621	May 20	2928	674	99	1811
Cooper, D. P., <i>et al.</i> (See Armstrong, George A., assignor.)						
Cooper, Erastus. (See Ezzell, Azzeriah D., assignor.)						
Cooper, Frederick G., New Haven, Conn. Damper mechanism.	713,066	Nov. 11	1134	260	101	1145
Cooper, George B. F., Detroit, Mich. Brake-beam and attachment.	712,654	Nov. 4	363	83, 84	101	973
Cooper, George L., assignor to G. P. Carroll, Bridgeport, Conn. Switch-operating mechanism.	706,024	Aug. 5	36	8	100	1123
Cooper, Herbert W. (See Creedon, John J., assignor.)						
Cooper, Howell C. (See Cowley and Cooper.)						
Cooper, Hugh, assignor of one-half to G. C. Gordon, Brockport, N. Y. Game-board.	712,044	Oct. 28	3189	698	101	711
Cooper, J. E., <i>et al.</i> (See Turner and Mitchell, assignors.)						
Cooper, James F., assignor of one-half to J. B. Williams, Denver, Colo. Toy engine.	696,315	Mar. 25	3770	840	98	2546
Cooper, John, <i>et al.</i> (See Horton, Peter D., assignor.)						
Cooper, John, Mount Vernon, Ohio. Combined wrench and can-opener.	713,403	Nov. 11	1823	411	101	1288
Cooper, John H., Madera, assignor of one-half to L. Wilson, Merced, Cal. Vehicle-axle.	710,254	Sept. 30	4284	996	100	2946
Cooper, Maxey, assignor of one-half to G. W. Ballard, Selma, Ala. Mechanism for operating vibrating churns.	696,944	Apr. 8	1080	239	99	249
Cooper, T. W. (See Baughn, Samuel C., Jr., assignor.)						
Cooper, Theodore, New York, N. Y. Pneumatic tunneling-shield.	715,244	Dec. 9	1138	244	101	2086
Cooper, Vincent J. (See Dunham and Cooper.)						
Cooper, William, Denver, Colo. Controller for propellers.	702,129	June 10	1528	345	99	2441
Cooper, William, Denver, Colo. Valve.	715,758	Dec. 16	2108	472	101	2306
Cooper, William A. (See Best, William N., assignor.)						
Cooper, William F. (See Sharps and Cooper.)						
Cooper, William M., Kennedale, assignor of one-half to O. R. Galloway, Fort Worth, Tex. Railway-crossing.	698,175	Apr. 22	3358	735	99	760
Coover, Gideon S., Bourneville, Ohio. End gate for wagons.	705,385	July 22	3959	858	100	850
Cope, Arthur, Chicago, Ill. Station-indicator.	693,377	Feb. 18	2198	482, 483	98	1298
Cope, Caleb F., Philadelphia, Pa. Starting device for explosive-engines.	704,618	July 15	2334	507, 508	100	503
Cope, George W., Detroit, Mich., assignor to J. W. Van Cleave, St. Louis, Mo. Stove or furnace.	716,195	Dec. 16	3015	658	101	2499
Cope, Joseph H., Windsor, Colo. Hay-stacker.	701,257	May 27	4145	953	99	2079
Cope, Robert S., New York, N. Y. Shift-key-actuating device.	709,748	Sept. 23	3384	759	100	2721
Cope, Troy, New Waterford, Ohio. Switch-operating device.	697,238	Apr. 8	1593	357	99	357
Copeland Boot and Shoe Treeing Company. (See Ballard, Harrie A., assignor.)						
Copeland Boot and Shoe Treeing Company. (See Ballard and Copeland, assignors.)						
Copeland Boot and Shoe Treeing Company. (See Copeland, Jones, and Ballard, assignors.)						
Copeland, Charles C. (See Betts, Frank J., assignor.)						
Copeland, Charles W. (See Fulton, Lefevre, and Copeland.)						
Copeland, James S., Hartford, Conn., assignor to American Bicycle Company, Jersey City, N. J., and New York, N. Y. Transmitting-gear.	697,200	Apr. 8	1535	343	99	345
Copeland, James S., Hartford, Conn., assignor to American Bicycle Company, Jersey City, N. J., and New York, N. Y. Drive and brake mechanism for velocipedes.	710,844	Oct. 7	858	186	101	174
Copeland, James S., Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Velocipede.	716,625	Dec. 23	3870	845	101	2692
Copeland, John D., <i>et al.</i> (See Hackett, George H., assignor.)						
Copeland, L. D. (See Mitchell, George, assignor.)						
Copeland, Lucius D. (See Mitchell and Copeland.)						
Copeland, Lucius D., assignor of one-half to G. Mitchell, Los Angeles, Cal. Apparatus for generating motive power.	711,389	Oct. 14	1729	374	101	373



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Copeland, Lucius D., assignor of one-half to G. Mitchell, Los Angeles, Cal. Slag steam-generator	711,290	Oct. 14	1732	374 375	101	375
Copeland, Lucius D., assignor of one-half to G. Mitchell, Los Angeles, Cal. Slag steam-generator	711,291	Oct. 14	1733	375	101	376
Copeland, Robert J., Toronto, Canada. Cabinet-desk	700,174	May 20	2009	473	99	1634
Copeland, William A. (See Ballard and Copeland.)						
Copeland, William A. (See Chain and Copeland.)						
Copeland, William A., Malden, G. Jones and H. A. Ballard, South Framingham, Mass., assignors to Copeland Boot and Shoe Treering Company, Portland, Me. Machine for treering boots or shoes	691,602	Jan. 21	2329	523	98	519
Copeland, Willis E., and M. M. Massey, Alamogordo, N. Mex. Bridle-rod for railway-rails	713,404	Nov. 11	1824	411	101	1288
Copenhagen Automatic Fire Alarm Company. (See Khotinsky, Achilles de, assignor.)						
Copenhaver, Samuel T., Losantville, Ind. Dust-cup for hubs	706,530	Aug. 12	1047	230	100	1342
Copenhaver, William E. (See Foos and Copenhaver.)						
Copenhaver, William E., assignor to Foos Manufacturing Company, Springfield, Ohio. Mill	692,243	Feb. 4	47	10	98	808
Copithorn, John T., Hingham, Mass. Tide or other motor	712,180	Oct. 28	3149	756 757	101	760
Copland, Alexander W., Cambridge, Mass. Cracker-machine	705,040	July 22	3197	691 692	100	698
Copland, Alexander W., Cambridge, Mass. Cracker-machine	705,041	July 22	3202	691 692	100	698
Coppin, Daniel G. (See Meredith, Washington, assignor.)						
Corbett, Frederick J., Prahran, Victoria, Australia. Manufacturing white lead	694,138	Feb. 25	3657	809	98	1613
Corbett, Frederick J., South Yarra, Victoria, Australia. Apparatus for manufacturing white lead	694,139	Feb. 25	3660	809	98	1613
Corbett, James, assignor of two-thirds to W. G. Phillips and A. H. Fessenden, Toronto, Canada. Workman's time-checker	710,430	Oct. 7	58	13, 14	101	14
Corbett, Joseph A., Medford, Okla. Ter. Hernial truss	695,377	Mar. 11	1964	499	98	2142
Corbett, William H., Portland, Oreg. Clutch	697,913	Apr. 15	2831	626 627	99	633
Corbin, Albert F., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Key-less lock	698,114	Feb. 11	1675	364	98	1160
Corbin, Albert F., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Mail-box	697,450	Apr. 15	2010	444	99	462
Corbin Cabinet Lock Company. (See Corbin, Albert F., assignor.)						
Corbin Cabinet Lock Company. (See Judd, Edward A., assignor.)						
Corbin, David. (See Raders and Meier, assignors.)						
Corbin, Wilbur R. (See Pickup and Corbin.)						
Corbin, William S., Johnstown, N. Y. Pipe or main	696,316	Mar. 25	3771	840	98	2547
Corby, Charles I. (See Corby, William S. and C. I.)						
Corby, William S. and C. I., Washington, D. C. Making dough for bread	691,749	Jan. 28	2634		98	601
Corby, William S. and C. I., Washington, D. C. Machine for working and shaping dough	703,116	June 24	3383	777 778	99	2857
Cordeau, Gaston E., Brooklyn, N. Y. Pneumatic alarm for automobiles	711,940	Oct. 28	3001	661	101	674
Cordes, Henry. (See Fischer and Cordes.)						
Cordes, John F., Chicago, Ill. Thread-cutting attachment for spools	690,400	Jan. 7	27	9	98	9
Cordes, John F., Chicago, Ill. Transfer-frame for letter-files and binders	703,767	July 1	721	160	100	145
Cordes, John F., Chicago, Ill. Temporary loose-leaf binder	710,763	Oct. 7	701	148	101	143
Cordes, William. (See Holden, Sylvanus L., assignor.)						
Cordill, William H., Grand View, S. D. Car-coupling	695,280	Mar. 11	1796	399 400 401	98	2107
Cordovez, Julio E., Panama, Colombia. Lightning-arrester	714,455	Nov. 25	3873	855	101	1745
Cordray, Henry A., Brenham, Tex. Oil-burning attachment for stoves or furnaces	712,767	Nov. 4	551	126 127	101	1011
Corell, John J. (See Bryant, Edward W., assignor.)						
Corey, Charles W., Boston, assignor of three-fourths to R. I. Davis, Chelsea, Mass., and F. M. Ambrose, New York, N. Y. Ball-caster	692,632	Feb. 4	731	169	98	950
Corey, Fred B., Schenectady, N. Y., assignor to General Electric Company. Latch for controller-handles	713,858	Nov. 18	2691	600	101	1483
Corey, Varian S., assignor to Hampden Watch Co., Canton, Ohio. Watch-barrel	711,476	Oct. 21	2075	449	101	460
Corey, William F., et al. (See Poulson, Peter, assignor.)						
Cork, William H. (See Damey and Cork.)						
Corliss, Joseph, New York, N. Y. Hand doweling-pige	706,392	Aug. 5	788	171	100	1274
Cornack, Robert Y., Jamaica, N. Y. Pencil and sharpener therefor	710,255	Sept. 30	4385	986	100	2946
Corn King Husker Company. (See Van Ness, Albert, assignor.)						
Cornell, Robert F., assignor of one-fourth to J. C. McLeod, Phillipsburg, Mont. Cycle-support	711,717	Oct. 21	2538	558	101	559
Cornell, Robert F., assignor of one-fourth to J. C. McLeod, Phillipsburg, Mont. Support for bicycles	711,922	Oct. 21	2956	650 651	101	646
Cornellison, Robert W. (See Osborne and Cornellison.)						
Cornelius, Jesse W., Cincinnati, Ohio. Electrotype-base	715,245	Dec. 9	1140	244	101	2087
Cornelius, Peter W. (See Nicolay, Peter, assignor.)						
Cornell, Charles H. (See Ogden, James A., assignor.)						
Cornell, Evan W., assignor of one-half to S. M. Dole, Adrian, Mich. Lighting attachment for gas-burners	703,043	June 24	3245	746 747	99	2830
Cornell, Joseph, Earlville, N. Y. Extension-table	690,401	Jan. 7	28	6	98	9
Cornell, Mable C., Alma, Kans. Type-writing or other like machine	694,354	Mar. 4	22	5, 6	98	1717
Cornell, Samuel B. (See Burge and Cornell.)						
Cornely, Robert, Paris, France. Machine for fixing spangled material to textile fabrics	700,305	May 20	2350	534 535	99	1690
Corner, George E., Chicago, Ill., assignor of one-half to J. P. Dixey, Springfield, Ohio. Art glass and making same	696,392	Mar. 25	3938	872	98	2579
Corner, George S., et al. (See Wade, Eli G. D., assignor.)						
Cornett, Louis, Natividad, Cal. Animal-exterminator	709,297	Sept. 16	2307	524	100	2486
Cornett, Reuben E., and G. G. Walker, Cherokee, Tex. Vehicle-axle	710,431	Oct. 7	60	14	101	14
Cornfield, Noah, assignor to A. Harris, trustee, Chicago, Ill. Emery grinder	710,068	Sept. 30	4083	921	100	2881
Corning Glass Works. (See Houghton, Alanson B., assignor.)						
Corning, Thomas J., Sterling, Ill. Baling-press	699,661	May 13	1024	239	99	1400
Cornuault, Joseph P., Chantilly, France. Starting-gate for races	707,762	Aug. 26	3124	771	100	1870
Cornwall, Bruce. (See Roe, Alpheus E., assignor.)						
Cornwall, Frederick R. (See Wands and Cornwall.)						
Cornwall, Frederick R., St. Louis, Mo., assignor to Chicago Railway Equipment Company, Chicago, Ill. Side bearing for railway-cars	694,461	Mar. 4	235	52	98	1763

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Cornwall, Frederick R., St. Louis, Mo., assignor to Chicago Railway Equipment Company, Chicago, Ill. Side bearing for railway-cars	698,176	Apr. 22	3360	735	99	760
Cornwall, Frederick R., St. Louis, Mo., assignor to Chicago Railway Equipment Company, Chicago, Ill. Side bearing for railway-cars	712,181	Oct. 28	3453	757	101	761
Cornwall, John B., assignor to Barnard and Leas Manufacturing Company, Moline, Ill. Rice-hulling machine	707,211	Aug. 19	2318	519	100	1627
Cornwallis-West, George F., London, England. Electric railway or tramway	711,292	Oct. 14	1738	375	101	876
Cornwell, Frank, Hutchinson, Kans. Steam-trap	711,288	Oct. 21	2759	611	101	605
Cornwell, James. (See Barclay, Robert, assignor.)						
Corpelet, Felix, and A. Dupré, Romilly, France. Hosiery-machine	713,609	Nov. 18	2236	496 497	101	1387
Corral, Francisco J. del, assignor to Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Raisin-seeder	699,494	May 6	693	160	99	1319
Correll, William E., Holyoke, Colo. Dust-pan	704,861	July 15	2782	602	100	596
Corrigan, Philip, Wakefield, N. Y. Furnace	708,768	July 1	722	160	100	145
Corrigan, Severinus J., St. Paul, Minn. Aero-steam engine	708,027	Sept. 2	46	11 12 13	100	1990
Corrington, Aldon R., Meriden, Iowa. Hoof-trimmer	695,540	Mar. 18	2255	509	98	2220
Corrington, Murray. (See Dodgson and Corrington.)						
Corrington, Murray, New York, N. Y. Automatic fluid-pressure brake apparatus	702,926	June 24	3003	692	99	2783
Corrington, Murray, New York, N. Y. Variable-speed safety-valve	717,081	Dec. 30	4839	1048	101	2921
Corron, Cécar, Lyons, France. Apparatus for dyeing, &c.	706,801	Aug. 12	1550	349	100	1452
Corry, Michael. (See Barker, Ruben F., assignor.)						
Corry, Michael. (See Barker and Corry.)						
Corry, Michael, et al. (See Prescott, De Witt C., assignor.)						
Corscaden, Adeline J., administratrix. (See Corscaden, Thomas.)						
Corscaden, Thomas, deceased; A. J. Corscaden, Philadelphia, Pa., administratrix. Roll for curving sheet-metal pulley-rims	694,910	Mar. 4	1100	243	98	1944
Corsen, Ferdinand, Rittergut Saarmund, near Potsdam, Germany, assignor of one-half to E. F. Wilkens, Haymarket, Va. Spring suspension for vehicle-bodies	709,396	Sept. 16	2689	603	100	2567
Cort, Thomas, South Orange, N. J. Foot-measuring device for shoemakers	709,605	Sept. 23	3217	718	100	2689
Cortelyou, James G. (See Gastren and Cortelyou.)						
Cortelyou, Joseph S., New York, N. Y. Scale	691,750	Jan. 28	2636	590 591	98	601
Cortelyou, William C., Oblong, Ill. Combined skirt-clasp and waist-retainer	699,286	May 6	295	69	99	1235
Cortelyou, William C., Oblong, Ill. Cuff-holder	699,287	May 6	298	69	99	1235
Cortis, Dwight T. (See Cortis, Frank A., assignor.)						
Cortis, Frank A., Meriden, Conn. Pencil-sharpener	705,322	July 22	3815	827	100	821
Cortis, Frank A., Meriden, Conn., assignor to D. T. Cortis, Boston, Mass. Lamp	708,957	Sept. 9	1783	411	100	2358
Cortland Carriage Goods Company. (See Howes, Omar C., assignor.)						
Corwin, Charlton B., Jefferson City, Mo. Shoe-lining trimmer	707,906	Aug. 26	3722	894	100	1928
Corwin, Eugene D. (See Reese, David D., assignor.)						
Cory, Colin. (See Tucker and Cory.)						
Cosgrave, Maria B., et al. (See Cosgrave, Sylvester A., assignor.)						
Cosgrave, Sylvester A., Pittsburg, assignor, by mesne assignments, to D. S. Wolcott, trustee, Sewickley, Pa. Compound ingot	694,618	Mar. 4	541	118	98	1228
Cosgrave, Sylvester A., assignor to A. French, M. L. Patterson, and M. B. Cosgrave, Pittsburg, Pa. Manufacture of compound ingots and mold therefor	694,731	Mar. 4	763	169	98	1872
Cosgrove, Thomas, Kansas City, Mo. Combined rail-joint and tie-plate	701,849	June 10	1011	225	99	2336
Cossar, Thomas, Govan, Scotland. Printing-machine	699,946	May 13	1509	365	99	1518
Cosseboom, Robert J., assignor of one-half to L. M. Smith, Leadville, Colo. Wrench	707,391	Aug. 19	2650	599	100	1695
Costa, Joseph A., East Cambridge, Mass. Hack	712,910	Nov. 4	843	195	131	1069
Coste, Eugene, et al. (See Doolittle, Irvin P., assignor.) (Reissue.)						
Costello, Joseph A., and W. S. Bidle, Cleveland, Ohio. Pressure-exerting machine	707,553	Aug. 26	2964	670	100	1777
Coster, Charles. (See Paget, Leonard, assignor.)						
Coster, Thomas J. (See Smith, Malcon O., assignor.)						
Cota, Aurelie, et al. (See Edwards, Isaac L., assignor.)						
Cota, Louise M., et al. (See Edwards, Isaac L., assignor.)						
Cotabish, Nelson C., Lakewood, Ohio. Electric contact device	695,861	Mar. 18	2838	644	98	2340
Côté, Henry, Woonsocket, R. I., assignor to Draper Company, Hopedale, Mass. Stopping mechanism for looms	706,164	Aug. 5	318	67, 68	100	1182
Cotsworth, Alfred G., London, England, assignor to Mergenthaler Linotype Company, New York, N. Y. Alining mechanism for linotype-machines	705,386	July 22	3959	858	100	850
Cotta, Charles, Shannon, Ill. Automobile	700,175	May 20	2073	473	99	1635
Cotten, Joab H., Bibb, Tex. Stalk-cutter	713,207	Nov. 11	1405	317	101	1202
Cotter, Joseph J., Bowerston, Ohio. Padlock	694,837	Mar. 4	954	212	98	1915
Cotter, Timothy, et al. (See Bourke, Edward J., assignor.)						
Cottier, William T., Chicago, Ill. Ventilator	709,699	Sept. 23	3279	734	100	2702
Cotton, Florence M., et al. (See Teninkel, August, assignor.)						
Cotton Seed Oil Syndicate. (See Stanley, John G. W., assignor.)						
Cotton, Walter H., assignor of seventeen-twentieths to H. L. Peck, P. Hickley, and W. P. Owens, Chicago, Ill. Electric generator	704,956	July 15	3030	650 651	100	649
Cottrell, Charles E. (See Iverson, John G., assignor.)						
Cottrell, Charles F., Minneapolis, Minn. Construction of buildings	709,257	Sept. 16	2404	545	100	2506
Cottrell, Charles P., Westerly, R. I., assignor to C. B. Cottrell & Sons Company, Stonington, Conn., and New York, N. Y. Sheet-delivery mechanism for printing-machines	690,623	Jan. 7	520	113	98	112
Cottrell, Charles P., Westerly, R. I., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-delivery apparatus for printing-machines	699,866	May 13	1434	331 332	99	1484
Cottrell, Charles P., Westerly, R. I., assignor to C. B. Cottrell & Sons Company, New York, N. Y., and Stonington, Conn. Sheet-delivery mechanism for printing-machines	699,867	May 13	1436	332	99	1484
Cottrell, Charles P., Westerly, R. I., assignor to C. B. Cottrell & Sons Company, New York, N. Y., and Stonington, Conn. Inking apparatus for printing-machines	701,545	June 3	469	105 106	99	2204
Cotton, Albert, assignor to L. A. Sayre & Co., Newark, N. J. Ticket-punch	698,820	Apr. 29	4620	109	99	1048
Cottrell, Herbert P., assignor to L. A. Sayre & Co., Newark, N. J. Ticket-punch	708,465	Sept. 2	839	191	100	2151
Cottrell, Jesse D., Providence, R. I. Automatic switch mechanism for street-railways	710,432	Oct. 7	61	14	101	15
Cottrill, Frank H., Milwaukee, Wis. Machine for printing and embossing checks	703,335	June 24	3774	869 870	99	2337
Couch, Andrew G., assignor to Couch Brothers & J. J. Eagan Company, Atlanta, Ga. Case for horse-collars	699,151	May 6	44	13	99	1185
Couch Brothers & J. J. Eagan Company. (See Couch, Andrew G., assignor.)						
Couch, Buel. (See Breun and Couch.)						
Couch, Buel. (See Kneidler, John D., assignor.)						
Couch, Elbert M., assignor to Whitney Manufacturing Company, Hartford, Conn. Clutch mechanism	715,640	Dec. 9	1863	414	101	2233



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Couch, Erwin J., Medford, Wis. Reversible plow	692,986	Feb. 11	1425	309	98	1117
Couch, Everett G., and N. D. Wells, Southern Pines, N. C. Work-holder	706,531	Aug. 12	1048	230	100	1342
Coudon, Joseph, Aiken, Md. Decoy	694,732	Mar. 4	764	170	98	1873
Coudon, Joseph, Aiken, Md. Decoy-duck	710,493	Oct. 7	62	14	101	15
Coughlen, David R., Concordia, Kans. Permutation-padlock	707,676	Aug. 26	3222	723	100	1831
Coughlin, James M. (See Smith and Coughlin.)						
Coughlin, Michael, et al. (See Martin, William, assignor.)						
Coulson, David E., assignor of one-half to K. T. Richards, Galesburg, Ill. Alternating-current motor	692,121	Jan. 28	3307	749	98	735
Coulson, Maggie A. (See Goldsmith, Jacob, assignor.)						
Coulter, Andrew, Milan, Russia. Belt-adjuster	697,608	Apr. 15	2281	510	99	516
Coulter, Charles J., and N. F. Adamson, Denver, Colo. Wrench	712,055	Nov. 4	363	84	101	973
Coulter, Edward P. (See Groff and Coulter.)						
Coulter, James L., Bovina Center, N. Y. Lock	704,862	July 15	2783	602	100	596
Coulter, John W. (See Chauvet and Coulter.)						
Coulter, Lewis C., Portland, Oreg. Pulley attachment	699,682	May 13	1027	239	99	1400
Coulter, William B., Waterbury, Conn. Electric time-switch	711,198	Oct. 14	1569	335	101	339
Coulter, William B., Waterbury, Conn. Electric time-switch	716,869	Dec. 30	4420	960	101	2835
Coulthard & Company, T. (See Norris, William, assignor.)						
Country Home Telephone Manufacturing Company. (See Farwell, Hart F., assignor.)						
Coupe, Joseph F. (See Brewster, William H., assignor.)						
Courant, Emil, Berlin, Germany. Triple salt and making same	693,378	Feb. 18	2201		98	1298
Coursen, Jacob E., Wilmington, Del. Letter-box	707,554	Aug. 26	2966	670	100	1778
Courson, John F., Pitcairn, Pa. Draw-gear for railway-cars	715,999	Dec. 16	2584	571	101	2407
Courson, John F., Pitcairn, Pa. Draft-gear	715,990	Dec. 16	2586	572	101	2407
Courtenay, John I. (See Butler and May, assignors.)						
Courtney, Daniel C., Elkins, W. Va. Car-truck bolster	703,117	June 24	3388	778	99	2857
Courville, Joseph, assignor to Farrand & Votey Organ Company, Detroit, Mich. Piano-player	695,862	Mar. 18	2840	645	98	2340
Courville, Joseph, assignor to Farrand Organ Company, Detroit, Mich. Self-playing attachment for musical instruments	700,677	May 20	3020	691	99	1831
Covell, Harry N. (See Baechold and Covell.)						
Covell, Harry N., Brooklyn, N. Y. Clutch-operating mechanism	700,682	May 20	2935	674	99	1812
Covell, Harry N., Brooklyn, assignor to Lidgerwood Manufacturing Company, New York, N. Y. Drum-reversing device for winding-engines	710,954	Oct. 14	1048	232 233	101	230
Covell, Harry N., Brooklyn, assignor to Lidgerwood Manufacturing Company, New York, N. Y. Winding-engine	711,618	Oct. 21	2351	514	101	518
Covell, Harry N., Brooklyn, N. Y., and C. A. Baechold, Westfield, N. J., assignors to Lidgerwood Manufacturing Company, New York, N. Y. Derrick swinging and controlling device	715,991	Dec. 16	2589	572	101	2408
Coveney, Robert G., County of Surrey, England. Venetian or like blind	691,603	Jan. 21	2332	526	98	520
Covert, Henry C., New Haven, Conn. Spinning-top	696,719	Apr. 1	620	138	99	134
Covert, Henry W., Watervliet, N. Y. Convertible car	698,259	Apr. 22	3318	774	99	734
Covert, James C., Watervliet, N. Y. Firing-iron	707,212	Aug. 19	2320	519	100	1627
Covert, James C., Watervliet, N. Y. Fire-escape	712,504	Nov. 4	71	18, 19	101	912
Covert, James C., assignor to Covert Manufacturing Company, Watervliet, N. Y. Halter-the-regulator and securer	716,387	Dec. 23	3384	739	101	2587
Covert Manufacturing Company. (See Covert, James C., assignor.)						
Covert Manufacturing Company. (See Grigg, Joseph, assignor.)						
Covo, Joseph T., assignor of one-half to T. Mooney, Fall River, Mass. Tension device for drawing-rolls	712,505	Nov. 4	72	19	101	912
Cowan, Alexander, Fenwick, assignor to A. Cowan & Sons, Limited, Fenwick, Mid-Lothian, Scotland. Sheet-delivering apparatus	708,958	Sept. 9	1784	411 412	100	2358
Cowan, Arthur S., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pattern mechanism for looms	699,104	Apr. 29	5120	1132 1133	99	1132
Cowan, Arthur S., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom-harness evener	701,683	June 3	727	180	99	2261
Cowan, Arthur S., and B. F. McGuiness, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Multiplier mechanism for looms	698,821	Apr. 29	4621	1019 1020	99	1048
Cowan, Charles B. (See Cade, James W., assignor.)						
Cowan, Edgar S., Harvey, Ill. Latch	712,120	Oct. 28	3845	732	101	741
Cowan, James W., Geneseo, assignor to Handy Company, Rochester, N. Y. Dental floss-holder	695,092	Mar. 11	1447	321	98	2034
Cowan, John A., Calgary, Canada. Automatic feed for straw-burning furnaces	701,015	May 27	3721	852	99	1992
Cowan, John A., Calgary, Canada. Automatic feeder for straw-burning furnaces	706,532	Aug. 12	1049	231	100	1343
Cowan, John A., Calgary, Canada. Harvester-binder	708,320	Sept. 2	595	135	100	2102
Cowan, Samuel, Jardine, Mont. Hoisting-hook	709,572	Sept. 23	3063	682	100	2657
Cowan & Sons, Alex. (See Cowan, Alexander, assignor.)						
Cowan, William G., and A. Jewett, Saginaw, and J. G. Wardell, East Tawas, Mich. Engine	707,828	Aug. 26	3567	806	100	1899
Coward, E. J. (See Shipley, Jack J., assignor.)						
Cowdrey, C. F., et al. (See Gammell, Joseph L., assignor.)						
Cowdrey, Charles F., et al. (See Haynes, Luther F., assignor.)						
Cowdrey, H. E., et al. (See Gammell, Joseph L., assignor.)						
Cowdrey, Henry E., et al. (See Haynes, Luther F., assignor.)						
Cowell, Julius J., Weedsport, N. Y. Shaft-coupling	691,448	Jan. 21	2054	460	98	463
Cowell, William B. (See Stewart-Wallace and Cowell.)						
Cowey, Leonard E., London, England. Weighing apparatus	701,684	June 3	729	161	99	2261
Cowham, Arthur M. (See Padgett, Cowham, and Allen.)						
Cowles, Arthur B., assignor to B. F. Johnson, Richmond, Va. Duplex envelop	696,225	Mar. 25	3566	798	98	2502
Cowles, Arthur B., assignor of one-half to E. A. Hoen, Richmond, Va. Alarm	698,392	Apr. 22	3737	825	99	840
Cowles, Dana O., Hardwick, Vt. Label-holding cabinet	715,350	Dec. 9	1340	289	101	2129
Cowles, Edward A., Franklin, Pa. Bit	713,067	Nov. 11	1135	260 261	101	1146
Cowles, Edward P., Warren, Ohio. Variable-speed friction-gearing	703,237	June 24	3618	832	99	2004
Cowles, Emma, Milwaukee, Wis. Dress-shield	706,802	Aug. 12	1561	349	100	1452
Cowles, John T., Chicago, Ill. Fire-escape	705,042	July 22	3205	692	100	699
Cowles, William B., Cleveland, Ohio. Air compressor and intercooler	699,288	May 6	300	69	99	1296
Cowles, William B., assignor to Long Arm System Company, Cleveland, Ohio. Check-valve	695,878	Mar. 11	1966	440	98	2142
Cowley, Charles R., Everett, Mass., and H. C. Cooper, Oil City, Pa. Boiler	713,068	Nov. 11	1136	261	101	1146
Cowley, James T. (See Lowry and Cowley.)						
Cowley, James T., Lowell, Mass., assignor to American Pneumatic Service Company, Dover, Del. Pneumatic despatch apparatus	706,639	Aug. 12	1230	273	100	1381
Cowley, William W., Cleveland, Ohio. Hair-drying device	696,412	Apr. 1	39	9	99	12
Cowper-Coles, Sherard, London, assignor, by mesne assignments, to Sherardizing Syndicate, Limited, Westminster, London, England. Depositing metals on metallic surfaces and the product thereof	701,298	June 3	33		99	2115

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Cowper, Peter H., Montreal, Canada, assignor to G. Hart, Williamsport, Pa. Hydraulic						
Cowperthwait, Allan, assignor to W. L. Tyler, Brooklyn, and A. B. See, New York, N.Y.	716,626	Dec. 23	3871	846	101	2692
Safety-stop for elevators.....	703,548	July 1	313	71	100	63
Cox, Alexander T., Scranton, Iowa. Chimney-cap.....	693,951	Feb. 25	3306	726	98	1541
Cox, Amos G., Winterville, N. C. Cotton-seed planter.....	698,459	Apr. 29	3870	854	99	883
Cox, Arthur, Acocks Green, England. Printer's quoin.....	711,829	Oct. 21	2761	611 612	101	605
Cox Brothers & Company. (See Cox and Odin, assignors.)						
Cox, Charles S., Brooklyn, N. Y. Automatic pencil-sharpener.....	691,117	Jan. 14	1935	317	98	305
Cox, Charley E., Chicago, Ill. Garbage-holding attachment for sinks.....	690,888	Jan. 7	901	200	98	190
Cox, Daniel M., Moulton, Iowa. Farm or yard gate.....	695,633	Mar. 18	2441	552	98	2258
Cox, Edmond F., and G. Blass, New York, N. Y. Water-heater.....	692,244	Feb. 4	48	11	98	808
Cox, Frank P. (See Fish and Cox.)						
Cox, Joshua J., Wrightsville, Ill. Draft-squidder.....	693,840	Feb. 25	3454	757	101	761
Cox, Henry G., assignor to J. T. Brush, Indianapolis, Ind. Smoke-consuming furnace.....	692,782	Feb. 4	996	225	98	1000
Cox, James B., Canton, N. Y. Combined lock and latch.....	705,387	July 22	3961	855	100	850
Cox, James B., Canton, N. Y. Combined lock and latch.....	716,671	Dec. 23	3949	863	101	2708
Cox, James D., and F. A. Odin; said Odin assignor to Cox Brothers & Company, Bridge-						
ton, N. J. Can-soldering machine.....	696,550	Apr. 1	281	66, 67	99	64
Cox, John E., Abingdon, Ill. Animal-trap.....	712,182	Oct. 28	3454	757	101	761
Cox, Joshua J., Wrightsville, Ill. Draft-squidder.....	693,840	Feb. 25	3454	757	98	1497
Cox, Lin J., et al. (See Sartain, Louis M., assignor.)						
Cox, Loren C., Quincy, Ill. Paper-fastener.....	715,992	Dec. 16	2592	573	101	2409
Cox, Marion W., Duquoin, Ill. Hoisting apparatus.....	694,091	Feb. 25	3585	798	98	1597
Cox, Nathan M., Ai, Tenn. Socket.....	717,353	Dec. 30	5352	1163	101	3032
Cox, Richard C. (See Paulson, Charles J., assignor.)						
Cox, Samuel J., and G. L. Ackerman, Lima, Ohio. Garment-fastening.....	715,351	Dec. 9	1941	289	101	2190
Cox, Solomon, and G. W. Warden, Granger, Iowa. Automatic car-coupling.....	708,296	Sept. 2	394	91	100	2062
Cox, Stephen J. (See Marius, Casteran J., assignor.)						
Cox, Walter C., Denver, Colo. Shirt and collar.....	694,532	Mar. 4	385	85	98	1794
Cox, William, assignor to G. Glover and Company, Limited, London, England. Coin-						
freed apparatus for delivering gas.....	712,911	Nov. 4	844	196	101	1069
Cox, William H. (See Waite, Henry W., assignor.)						
Cox, William H., Iron Mountain, Mich. Draft-rieger.....	703,118	June 24	3389	779	99	2858
Cox, William V., et al., executors. (See Mitchell, John H., assignor.)						
Coyan, William E., Homestead, Pa. Trowel.....	690,839	Jan. 7	902	200	98	191
Coyan, William E., Homestead, assignor of two-fifths to J. K. Skelley, McKeesport, Pa.						
Hardened railway-rail.....	694,838	Mar. 4	955	212	98	1915
Coyle, Albert A., Dubuque, Iowa. Button-drilling machine.....	699,663	May 13	1028	239 240	99	1400
Coyle, Andrew M. (See Otis and Coyle.)						
Coyle, Frank, Granville, assignor of one-half to N. B. Ballard, Barre, Vt. Rock-drill.....	715,933	Dec. 16	2593	573	101	2409
Coyle, Grace P., South Bethlehem, Pa. Cooking utensil.....	711,385	Oct. 14	1901	414	101	411
Coyne, Anthony, Hartrauff, Tenn. Alarm-lock.....	705,211	July 23	3573	773	100	774
Coyne, Frederick E., et al. (See Pitney, Arthur H., assignor.)						
Coyne, Patrick H., Scranton, Pa. Non-refillable bottle.....	698,906	Apr. 29	4803	1058	99	1086
Cozens, William W., Linden, Cal. Acetylene-gas generator.....	691,357	Jan. 21	1899	427	98	490
Cozens, Issachar, Glencove, N. Y. Knee-protector for stockings.....	694,115	Feb. 11	1676	364	98	1169
Crabb, James N., Indianapolis, Ind. Flexible-shank collar or cuff button.....	697,612	Apr. 15	2662	591	99	597
Crabb, James N., assignor of one-fourth to W. A. Zumpfe, Indianapolis, Ind. Com-						
pound railway-rail.....	712,121	Oct. 28	3347	733	101	741
Crabb, William, San Francisco, Cal. Fence.....	706,641	Aug. 12	1243	274	100	1385
Crabbe, Cyrus E. (See Glover, Theodore S., assignor.)						
Crabtree, James, Birkenhead, England. Refrigerating-chamber.....	696,133	Mar. 25	3375	762	98	2466
Cradick, Charles F., and G. W. Farlin, Jr., Butte, Mont. Pipe and flue cleaner.....	699,239	May 6	392	70	99	1236
Craft, Mark A., assignor of one-half to N. M. Jones, Lincoln, Me. Apparatus for remov-						
ing rolls of material from paper-machines.....	705,388	July 22	3963	858	100	851
Craft, William M., Galesburg, Ill. Fence.....	698,177	Apr. 22	3361	735	99	761
Crafts, Darwin B., Rapids, Ohio. Mail-box.....	699,746	May 13	1186	276	99	1430
Cragg, George L., et al. (See Davis, Charles L., assignor.)						
Craig, Albert W., assignor to Craig Keyless Lock Company, Chicago, Ill. Keyless lock.....	703,387	July 1	44	9	100	11
Craig, Alexander M., Westport, Canada. Tug and trace coupling.....	709,471	Sept. 23	2853	641	100	2612
Craig, Alvin J. (See McDonald, Morrison, assignor.)						
Craig, F. O. (See Craig, John T., assignor.)						
Craig, George, Glasgow, assignor to R. M. Paterson, Spiersfield, Paisley, Scotland. Ap-						
paratus for obtaining alkaline cyanids.....	695,087	Mar. 11	1348	297	98	2014
Craig, James. (See Summerer and Craig.)						
Craig, James A., Springfield, Ill., assignor to J. Lumsden, Montreal, Canada. Drill-chuck.....	691,449	Jan. 21	2056	460	98	463
Craig, James M., and W. H. Buck, Denver, Colo. Combined air-brake and slack-adjust-						
ing mechanism.....	716,196	Dec. 16	3017	659	101	2499
Craig, John F., and T. V. Fleming, Paris, Ill. Rotary steam-engine.....	701,299	June 3	35	7	99	2116
Craig, John S., Hartford, Conn. Washbow.....	695,038	Mar. 11	1351	298	98	2015
Craig, John T., Raymond, S. D., assignor to F. O. Craig, Payne, Ohio. Potato-lifter.....	691,843	Jan. 23	2310	631	98	636
Craig, Joseph A., Roscoe, Pa. Mine-car rail.....	707,999	Aug. 26	3894	875	100	1964
Craig, Joseph A., Roscoe, Pa. Mine-car rail.....						
Craig, Lee D., assignor, by mesne assignments, to Sub Marine Mining Company, San						
Francisco, Cal. Submarine gold-saving device.....	698,105	Apr. 22	3215	704	99	731
Craig, William R. (See Holmstrom, Patrick, assignor.)						
Craighead, Horace. (See Jayne, Benaiah G., assignor.)						
Craik, Albert S., West Superior, Wis. Middlings-purifier.....	697,451	Apr. 15	2010	444	99	462
Crain, Charles R., Meadow Lawn Station, L. C. Evans, and H. E. Dodson, Springfield,						
Ohio. Grain-drill.....	713,966	Nov. 18	2914	648	101	1530
Crain, Sidney I. and W. S., assignors of one-third to S. Shillito, Cincinnati, Ohio. Valve-						
gear.....	701,300	June 3	36	7	99	2116
Crain, Walter S. (See Crain, Sidney I. and W. S.)						
Craime, John W., Winfield, Kans. Cistern-filter.....	715,554	Dec. 9	1732	381	101	2306
Cram, Alonzo W., assignor to W. D. Cram, Haverhill, Mass. Pipe connection.....	691,246	Jan. 14	1629	372	98	355
Cram, Edwin B., Brooklyn, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y.						
Type-writing machine.....	706,025	Aug. 5	37	8, 9	100	1124
Cram, Edwin B., Brooklyn, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-						
writing machine.....	706,640	Aug. 12	1234	274	100	1382
Cram, William D. (See Cram, Alonzo W., assignor.)						
Cramer, George W., Trivoli, Ill. Door-fastener.....	704,619	July 15	2337	508	100	503
Cramer, Harry B., Minneapolis, Minn. Staging bracket or support.....	693,641	Feb. 18	2713	598	98	1404



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Cramer, Stephen S., et al. (See Johnson, Charles M., assignor.)						
Cramond, Alexander, Lyons, Iowa. Extension-cylinder for pin-locks	701,850	June 10	1011	226	99	2336
Crampton, John T., Pawnee City, Nebr., and D. Price, Nemaha County, Kans.; said Price assignor to said Crampton. Wagon-reach	715,994	Dec. 16	2594	573	101	2409
Crampton, Ulisses G., Tyrone, Pa. Soap-holder for shaving-cups	695,093	Mar. 11	1449	321	98	3035
Crandall, Frederick E., Chicago, assignor of three-fifths to W. B. Ewing and J. A. Murphy, Lagrange, Ill., Car-wheel	709,208	Sept. 16	2908	524	100	2486
Crandall, Stone & Company. (See Lester, Haviland, assignor.)						
Crandall, Andrew J., and C. A. Wood, Kalamazoo, Mich. Folding chair	714,562	Nov. 25	4061	899	101	1784
Crandall, James L., assignor to H. I. Crandall & Son Company, Boston, Mass. Cradle for marine railways	690,402	Jan. 7	30	7	98	9
Crandall, James L., assignor to H. I. Crandall & Son Company, Boston, Mass. Marine railway	694,911	Mar. 4	1109	243	98	1945
Crandall, Jesse A., assignor to S. V. White, Brooklyn, N. Y. Fountain marking-brush	702,286	June 10	1703	410	99	2495
Crandall, Lucian D., Springville, Utah. Vehicle hub and spindle	713,752	Nov. 18	2495	556	101	1444
Crandall, Lucien S. (See Norden and Crandall.)						
Crandall, Lucien S., Brooklyn, N. Y. Electric sign	715,555	Dec. 9	1732	381	101	2206
Crane and Breed Manufacturing Company. (See Brannock, James L., assignor.)						
Crane Buckle Company. (See Crane, Newton, assignor.)						
Crane, James L., Cleveland, Ohio. Show-case or show-front	710,141	Sept. 30	4174	940	100	2900
Crane, Joseph J., Summertown, Tenn. Cattle-guard	716,672	Dec. 23	3951	864	101	2708
Crane, Joshua, Jr., Westwood, Mass. Gas-burner	693,590	Feb. 18	2616	578	98	1383
Crane, Lewellyn F., et al. (See Hagan, Ira B., assignor.)						
Crane, Mary A., New York, N. Y. Ambulance-coach	693,822	Feb. 18	3096	670	98	1469
Crane, Newton, Boston, Mass. Clasp or fastener	705,823	July 29	4831	1049	100	1038
Crane, Newton, Boston, Mass. Clasp or fastener	709,536	Sept. 23	3004	699	100	2616
Crane, Newton, Newton, Mass., assignor to Crane Buckle Company, Portland, Me. Clasp	690,904	Jan. 7	1010	293	98	212
Crane, Richard T., Chicago, Ill. Pocket for golf-balls	715,759	Dec. 16	2110	473	101	2306
Crane, Walter E., Denver, Colo. Variable-speed device	705,209	July 22	3567	772	100	773
Crane, Walter E., El Paso, Tex., assignor to Pollard-Alling Manufacturing Company, New York, N. Y. Engraving-machine	708,719	July 1	632	141	100	125
Crane, Wendell P., assignor to E. Emanuel and J. N. Stevens, trustees, San Francisco, Cal. Peanut-roaster and popcorn-popper	701,258	May 27	4147	933	99	2080
Crane, William E., and E. T. Holton, Binghamton, N. Y. Soldering device	693,500	Feb. 18	2493	392	98	1347
Cranell, Orlo G., assignor of one-half to J. F. Bigelow, Worcester, Mass. Toy bank	704,239	July 8	1629	352	100	340
Cranston, Edmund W., assignor of one-half to D. P. Thomas, Worcester, Mass. Collar-button	693,689	Feb. 18	2807	617	98	1422
Cranston, Robert D., Reading, Pa. Lamp-globe holder	716,673	Dec. 23	3952	864	101	2708
Cranston, William M. (See Arnold and Cranston.)						
Crapp, Thomas S., Waynetown, Ind. Antiriction-collar for wood-shapers	706,488	Aug. 5	972	213	100	1313
Crapper, Ebenezer, Jr., assignor of one-half to J. A. Black, Akron, Ohio. Railway-switch-operating mechanism	708,800	Sept. 9	1469	335	100	2294
Crary, Thomas B. (See Casler, Alonzo A., assignor.)						
Crass, Fredrick H., Murfreesboro, Tenn. Paint	707,677	Aug. 26	3223		100	1831
Craven, Phinehas P., Manchester, England. Ring-spinning, doubling, or twisting machine	699,152	May 6	46	13, 14	99	1186
Craven, William E., Wilmington, Del. Adjustable hasp	712,656	Nov. 4	365	84	101	974
Cravens, George W., Schenectady, N. Y., assignor to General Electric Company. Connector	714,869	Dec. 2	459	98	101	1928
Craver, Charles F. (See Sharp, James A., assignor.)						
Craver, Charles F., Harvey, Ill. Harvester attachment	701,301	June 3	37	8	99	2116
Cravotto, Anthony, Montevideo, Uruguay. Combined seeder, fertilizer-distributor, and cultivator	703,238	June 24	3620	832	99	2904
Craw, Frank C., assignor of one-half to Austin and Craw, South Norwalk, Conn. Machine for trimming curled hat-brims	707,392	Aug. 19	2652	599	100	1696
Craw, Joseph T., Jersey City, N. J., and F. Schley, Brooklyn, N. Y. Furniture for forming paper-box blanks	705,389	July 22	3965	859	100	851
Craw, William N. (See Austin and Craw.)						
Crawford, Alexander R. (See Crawford, William and A. R.)						
Crawford, David. (See Sharkie and Crawford.)						
Crawford, Frances F., Dunnville, Canada. Garment-stretcher	708,026	Aug. 5	46	9	100	1127
Crawford, Frank H. (See Hamilton and Crawford.)						
Crawford, George G., Braddock, Pa. Furnace-valve and dust-catcher	693,240	Feb. 11	1495	423	98	1224
Crawford, George O., South Waymouth, assignor to C. H. Sprague, Brookline, Mass. Collapsible box	715,026	Dec. 2	737	156	101	1885
Crawford, James, Boston, Mass. Clean-out for drain or soil pipes	694,140	Feb. 25	3093	810	98	2214
Crawford, James, Boston, Mass. Sewer-trap	698,460	Apr. 29	3872	855	99	883
Crawford, James, Boston, Mass. Pipe-hanger	706,903	Aug. 12	1751	391	100	1192
Crawford, James L., Blackheath, England. Indicator	713,069	Nov. 11	1138	261	101	1446
Crawford, James W., Appleton, Wis. Scraper for pans, kettles, &c	710,955	Oct. 14	1050	233	101	230
Crawford, Mary W. M., San Francisco, Cal. Stretcher	713,405	Nov. 11	1825	411	101	1288
Crawford, Otto, assignor of one-half to H. B. Justice, Ironton, Ohio. Coat-hanger	711,477	Oct. 21	2077	449	101	460
Crawford, Pearl C., Salem, Ohio. Moistening-machine	704,779	July 15	2617	567	100	561
Crawford, William and A. R., Glasgow, Scotland. Apparatus for closing or opening water-tight bulkhead-doors	701,156	May 27	3967	912	99	2045
Crawley, James E., Milwaukee, Wis. Feed-water heater and purifier	705,028	Sept. 2	55	13	100	1992
Crayne, William. (See Finch and Crayne.)						
Crayton, V. J. (See Gray, Hiram B., assignor.)						
Creager, Jonathan, Cincinnati, Ohio. Brick-mold	692,006	Jan. 28	3094	696	98	693
Creahan, Michael P., Pittsburg, Pa. Trolley	700,134	May 13	1949	449	99	1585
Creaham, Michael P., Pittsburg, Pa. Curtain-rod	702,707	June 17	2599	598	99	2081
Creamery Package Manufacturing Company. (See Belknap, Hiram L., assignor.)						
Creamery Package Manufacturing Company. (See Valerius, Theodore L., assignor.)						
Creamery Package Manufacturing Company. (See Walker, George A., assignor.)						
Cren, Francis C., Montreal, Canada. Manufacturing iron and iron alloys	695,670	Mar. 18	2498	567	98	2370
Creancho, Louis, Paris, France. Driving mechanism for motor-vehicles	695,541	Mar. 18	2256	510	98	2214
Creasey, Samuel E., Sanford, Me. Aquarium-jardiniere	682,892	Feb. 11	1096	245	98	1048
Creelius, Carl F. (See Simpson and Creelius.)						
Creclius, Louis J., assignor of one-half to W. Grayson, St. Louis, Mo. Casting finished, pinious or gear-wheels	716,870	Dec. 30	4427	990	101	2836
Credlebaugh, Henry S., New Carlisle, Ohio. Speed-gage	705,514	July 22	4203	913	100	898
Credlebaugh, Henry S., New Carlisle, assignor of one-half to W. F. Bohlander, Phoneton, Ohio. Speed-regulating clutch	701,157	May 27	3968	913	99	2406

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Creecy, David R., Jr. (See Johnson, Clarence B., assignor.)						
Creedon, John J., assignor of one-half to H. W. Cooper, Moline, Ill. Harness-saddle	714,870	Dec. 2	462	98	101	1929
Cregar, Joshua W., Philadelphia, Pa. Air-cushion for valves	696,009	Mar. 25	3122	705	98	2411
Crehore, Albert C., Tarrytown, N. Y. Telegraphy	707,829	Aug. 26	3568	807	100	1900
Crehore, Albert C., Tarrytown, N. Y. Telegraphy	707,830	Aug. 26	3576	838	100	1901
Crehore, Albert C., Tarrytown, N. Y. Telegraphy	707,959	Aug. 26	3803	854	100	1943
Crehore, Albert C., Tarrytown, N. Y. Telegraphy	711,942	Oct. 28	3007	662	101	675
Crehore, Albert C., Tarrytown, N. Y. Telegraphy	711,943	Oct. 28	3009	663	101	675
Crehore, Albert C., Hanover, N. H., and G. O. Squier, Fort Monroe, Va., assignors to Crehore-Squier Intelligence Transmission Company, Cleveland, Ohio. Transmitting intelligence	698,260	Apr. 22	3520	774	99	765
Crehore, Albert C., Hanover, N. H., and G. O. Squier, U. S. Army, assignors to Crehore-Squier Intelligence Transmission Company, Cleveland, Ohio. Submarine-cable telegraph	698,261	Apr. 22	3525	775	99	796
Crehore, Albert C., Hanover, N. H., and G. O. Squier, U. S. Army, assignors to Crehore-Squier Intelligence Transmission Company, Cleveland, Ohio. Submarine-cable telegraph	711,941	Oct. 28	3008	661	101	674
Crehore-Squier Intelligence Transmission Company. (See Crehore and Squier, assignors.)						
Creighton, Melvin, Rensselaer Falls, N. Y. Sleigh-knee	716,674	Dec. 23	3953	864	101	2708
Crellin, Edwin W. (See Lake and Crellin.)						
Crellin, John W., et al. (See Lake and Crellin, assignors.)						
Crematory Company of New York. (See Kuehne, Henry O., assignor.)						
Crenshaw, William, Atlanta, Ga. Dental matrix	701,799	June 3	921	205	99	2301
Creplin, Bernhard, Goodland, Ind. Ter. Draft-equalizer	704,001	July 8	1171	255	100	248
Cressler, George H., Fort Wayne, Ind. Pocket-case for cigarettes or cigars	695,914	Mar. 25	2944	667	98	2376
Cressler, Will T., Cincinnati, Ohio. Stamp with changeable face	692,245	Feb. 4	49	11	98	809
Creswell & Waters Co. (See Myrick, Gilbert S., assignor.)						
Creutzbaur, W. Walter. (See Wilkens, John D., assignor.)						
Creutzbaur, Robert, Brooklyn, N. Y. Pulverizer	705,323	July 22	3815	837	100	821
Creveling, John L., New York, N. Y. Reflector	691,048	Jan. 14	1295	233	98	285
Creveling, John L., New York, N. Y. Means for driving dynamos from car-axles	691,358	Jan. 21	1901	427	98	431
Creveling, John L., New York, N. Y. Means for driving generators placed upon cars by power taken from the cars	691,359	Jan. 21	1903	428	98	431
Creveling, John L., New York, N. Y. System of distribution	704,694	July 15	2460	531	100	530
Creveling, John L., New York, N. Y. Means for regulating the output of dynamo-electric machines	704,696	July 15	2464	532	100	531
Creveling, John L., New York, N. Y. System of electrical distribution	704,883	July 15	2784	602	100	596
Creveling, John L., New York, N. Y. System of electrical distribution	704,884	July 15	2788	603	100	597
Creveling, John L., New York, N. Y. System of electrical distribution	704,885	July 15	2791	605	100	597
Creveling, John L., New York, N. Y. System of electrical distribution for car-lighting purposes	706,165	Aug. 5	320	68	100	1182
Creveling, John L., New York, N. Y. Regulation of electric-lighting systems	707,052	Aug. 12	2008	448	100	1543
Creveling, John L., New York, N. Y. Means for driving generators by power taken from car-axles	709,847	Sept. 23	3565	804	100	2761
Creveling, John L., New York, N. Y. Combined dynamo and driving gear	709,848	Sept. 23	3567	804	100	2762
Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Means for driving dynamos from car-axles. (Reissue.)	11,961	Jan. 21	2577	577	98	572
Creveling, John L., New York, N. Y., assignor to Safety Car Heating & Lighting Company. Combined electric and gas car-lighting system	704,695	July 15	2463	532	100	530
Creveling, John L., New York, N. Y., assignor to Safety Car Heating & Lighting Company. Electromagnetic switch	707,763	Aug. 26	3425	771	100	1871
Crewe, Frederick, assignor to Mardon, Son & Hall, Limited, Bristol, England. Guard for platen-presses	708,867	Sept. 9	1612	369	100	2325
Cribb, Joseph P., Southsea, England. Overhead electric trolley-wire	716,988	Dec. 30	4666	1012	101	2884
Cribbs, Clinton G., and F. M. Allerton, Benton Harbor, Mich. Wind-actuated advertising device	704,002	July 8	1172	255	100	249
Orichton, William E. (See Van Valkenburg, Randall T., assignor.)						
Orichton, William E. (See Van Valkenburg, Randall T. and C. J., assignors.)						
Cridger, Clarence C., Bangs, Ohio. Hitching-post	712,912	Nov. 4	847	196	101	1070
Crim, William W., Pekin, Ind. Flooring-gate	699,664	May 13	1031	240	99	1401
Crimmins, John C., Indianapolis, Ind. Storm-apron	715,027	Dec. 2	739	156	101	1985
Cripe, Jacob M., Mattoon, Ill. Heating system	697,813	Apr. 15	2663	591	99	597
Crippen, Henry D. (See Maxwell, George S., assignor.)						
Crippen, Henry D., New York, N. Y. Support for punching-bags	714,456	Nov. 25	3874	855	101	1745
Crismore, Joseph A., Chicago, Ill. Wood-cutting machine	705,324	July 22	3823	829	100	823
Crist, Alfred D., Ada, Ohio. Music-holder	704,003	July 8	1173	255	100	249
Criswell, Alexander P., assignor of one-half to Westerlin & Campbell, Chicago, Ill. Apparatus for drying grains	713,859	Nov. 18	2692	600	101	1483
Criswell, James A. E., New York, N. Y. Machine for making matches	716,809	Dec. 23	4201	920	101	2759
Criswell, James A. E., New York, N. Y. Machine for making matches	716,810	Dec. 23	4212	923	101	2763
Criswell, James A. E., New York, N. Y. Machine for making matches	716,811	Dec. 23	4226	924	101	2767
Criswell, James A. E., New York, N. Y. Machine for making matches	716,812	Dec. 23	4234	925	101	2769
Criswell, James A. E., New York, N. Y. Machine for making matches	716,813	Dec. 23	4247	925	101	2774
Criswell, James A. E., New York, N. Y. Machine for making matches	716,814	Dec. 23	4256	925	101	2777
Criswell, James A. E., New York, N. Y. Machine for making matches	716,815	Dec. 23	4266	929	101	2781
Criswell, James A. E., New York, N. Y. Machine for making matches	716,816	Dec. 23	4271	931	101	2783
Criswell, James A. E., New York, N. Y. Machine for making matches	716,817	Dec. 23	4282	932	101	2786
Criswell, James A. E., New York, N. Y. Machine for making matches	716,818	Dec. 23	4286	933	101	2787
Criswell, James A. E., New York, N. Y. Machine for making matches	716,819	Dec. 23	4290	933	101	2788



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Criswell, James A. E., New York, N. Y. Machine for making matches	716,820	Dec. 23	4295	934 935	101	2790
Criswell, James A. E., New York, N. Y. Machine for making matches	716,821	Dec. 23	4300	935	101	2791
Criswell, James A. E., New York, N. Y. Machine for making matches	716,822	Dec. 23	4307	936	101	2793
Criswell, James A. E., New York, N. Y. Machine for making matches	716,823	Dec. 23	4313	937 938	101	2795
Criswell, James A. E., New York, N. Y. Machine for making matches	716,824	Dec. 23	4321	939	101	2796
Criswell, James A. E., New York, N. Y. Machine for making matches	716,825	Dec. 23	4325	939 940	101	2797
Criswell, James A. E., New York, N. Y. Machine for making matches	716,826	Dec. 23	4330	940 941	101	2798
Criswell, James A. E., New York, N. Y. Machine for making matches	716,827	Dec. 23	4337	941	101	2800
Criswell, James A. E., New York, N. Y. Machine for making matches	716,828	Dec. 23	4343	942	101	2801
Criswell, James A. E., New York, N. Y. Machine for making matches	716,829	Dec. 23	4347	943 944	101	2802
Critchfield, Albert G., Alto, Wash. Fan or blast regulator	692,430	Feb. 4	365	90	98	875
Critchlow, William A., Vancouver, Canada. Vehicle-brake	702,287	June 10	1795	410	99	2495
Critzer, Augustus B., San Antonio, Tex. Eyeglasses	700,623	May 20	2337	679	99	1813
Crocker, Adams, Fitchburg, Mass. Grinding or polishing machine	686,945	Apr. 8	1082	235	99	250
Crocker, Eugene B., Providence, R. I. Spool or bobbin	700,176	May 20	2075	474	99	1696
Crocker, Frank H. (See Bush, Corydon L., assignor.)						
Crocker, George H. (See Gage, Walter H., assignor.)						
Crocker, Ross E., et al. (See Underwood and Butterfield, assignors.)						
Crocker, Samuel H., London, England. Pen	703,549	July 1	315	71	100	64
Crocker, Samuel H., London, England. Penholder	703,641	July 1	487	110	100	96
Crockett, Fred P. (See Johnson and Crockett.)						
Crockett, Fred P., and O. F. Johnson, Kalamazoo, Mich. Trolley-harp	690,693	Jan. 7	524	114	98	112
Crockett, William L., et al. (See Forney, Elwood W., assignor.)						
Croft, Frank P., Merion, Pa. Box or package	700,742	May 27	3106	728	99	1884
Croft, John R., assignor to Valves, Limited, London, England. Hermetic sealing of tins or like receptacles	708,868	Sept. 9	1614	369	100	2325
Croker, Samuel H., assignor of one-half to J. W. Barnes, Liverpool, England. Lathe auxiliary appliance	704,440	July 8	1996	434	100	420
Crome, Herman E., Jersey City, N. J. Drip-pan for painting metal furniture	707,087	Aug. 19	2080	465	100	1575
Crompton, Charles, Worcester, Mass. Pumping mechanism for feeding water to steam-boilers	699,081	Apr. 29	5081	1124	99	1144
Crompton, Charles, Worcester, Mass. Steering mechanism for motor-vehicles (See Alvord, Clinton, assignor.)	716,388	Dec. 23	3386	739	101	2587
Crompton & Knowles Loom Works. (See Armstrong and Clark, assignors.)						
Crompton & Knowles Loom Works. (See Bardsley, Henry, assignor.)						
Crompton & Knowles Loom Works. (See Clark, Eugene F., assignor.)						
Crompton & Knowles Loom Works. (See Cowan, Arthur S., assignor.)						
Crompton & Knowles Loom Works. (See Cowan and McGuiness, assignors.)						
Crompton & Knowles Loom Works. (See Cyr, Joseph T., assignor.)						
Crompton & Knowles Loom Works. (See Davenport and Bardsley, assignors.)						
Crompton & Knowles Loom Works. (See Hutchins, George F., assignor.)						
Crompton & Knowles Loom Works. (See Hutchins and Cyr, assignors.)						
Crompton & Knowles Loom Works. (See Hutchins and Ryan, assignors.)						
Crompton & Knowles Loom Works. (See Jarry, Henry J., assignor.)						
Crompton & Knowles Loom Works. (See Watlie, William, assignor.)						
Crompton & Knowles Loom Works. (See Wyman, Horace, assignor.)						
Crompton & Knowles Loom Works. (See Wyman and Clark, assignors.)						
Crompton & Knowles Loom Works. (See Wyman and Gordon, assignors.)						
Crompton, Samuel H., et al. (See Morris, George O., assignor.)						
Cromwell, John C., assignor of one-half to W. Garrett, Cleveland, Ohio. Feed-table-shifting mechanism	711,418	Oct. 14	1950	424 425	101	420
Crone, Charles C. (See Kuehn, Michael, assignor.)						
Crone, Seth A., New York, N. Y. Car-truck	690,403	Jan. 7	31	7	98	9
Crone, Seth A., New York, N. Y. Door for grain-cars and locking device therefor	694,462	Mar. 4	237	52	98	1763
Crone, Seth A., New York, N. Y. Car-truck	697,452	Apr. 15	2012	444	99	462
Crone, Seth A., New York, N. Y. Beam for car-trucks and cars	712,768	Nov. 4	551	127	101	1011
Crone, Seth A., New York, N. Y. End sill for cars	712,769	Nov. 4	555	128	101	1011
Crone, Seth A., New York, N. Y. Brake-beam	715,995	Dec. 16	2596	573	101	2410
Crone, Seth A., New York, N. Y. Brake-beam	715,996	Dec. 16	2598	574	101	2410
Crone, Seth A., New York, N. Y. Brake-beam	715,997	Dec. 16	2599	574	101	2410
Cronin, Cornelius J., Youngstown, Ohio. Boiler	690,701	Jan. 7	646	141	98	1316
Cronin, William D., Atlantic City, N. J., assignor to Atlantic Coast Amusement Company, New York, N. Y. Cycloidal carousel	713,070	Nov. 11	1139	261	101	1147
Cronk, Benjamin R., and H. P. Hornstead, Pa. Metallic tie and rail-fastener	696,720	Apr. 1	621	139	99	134
Cronk and Carrier Manufacturing Company. (See Rhodes, James B., assignor.)						
Cronk, Harrison T., New York, N. Y. Combined hose and electric signaling device	690,455	May 6	629	143	99	1906
Cronk, Harrison T., New York, N. Y. Hose-coupling	715,641	Dec. 9	1866	414	101	2233
Cronk, Henry P. (See Cronk, Benjamin R. and H. P.)						
Cronwall, Nils O., Hamburg, Germany. Piston-rod or other similar packing	695,195	Mar. 11	1640	364	98	2076
Crook, Charles, Jr., Brooklyn, assignor to L. S. Bush, New York, N. Y. Rotary engine	691,604	Jan. 21	2333	524	98	580
Crook, Charles M., Bristol, Conn., assignor to National Self-Winding Clock Company, Elgin, Ill. Self-winding electric clock	703,953	July 1	1058	230	100	211
Crook, Charles M., Bristol, Conn., assignor to C. S. Burton, trustee. Self-winding electric clock	704,620	July 15	2338	508	100	504
Crook, Charles M., Bristol, Conn., assignor, by mesne assignments, to National Self-Winding Clock Company, Jersey City, N. J., and Bristol, Conn. Electric clock	711,944	Oct. 28	3015	663	101	676
Crook, Edwin E. (See Hutton, Joseph H. and P. J., assignors.)						
Crooke, John J., New York, assignor of one-half to R. Crooke, Yonkers, N. Y. Converting salt-marsh material, &c., into a fertilizer and the product resulting therefrom	712,045	Oct. 28	3191		101	712
Crooke, Robert. (See Crooke, John J., assignor.)						
Crooker, Ralph, Jr. (See Suppes and Crooker.)						
Crooks, James W., Boston, assignor of one-half to W. Veazie, Brookline, Mass. Automatically-operated reed and pipe organ	697,327	Apr. 8	1750	390 391 392 393	99	392
Croom, Wiley G., assignor of one-half to W. F. Kean, Memphis, Tenn. Bracket for subsidiary shelving	704,957	July 15	3033	651	100	649

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Cropley, Charles B. (See Morgal, Lewis E., assignor.)						
Cropsey, George H. (See Wright, Harry L., assignor.)						
Crosby, George H., Albion, Me. Wheel	701,302	June 3	38	8	99	2116
Crosby, J. F. (See Struthers, Joshua, assignor.)						
Crosby, Jesse M., Mabel, Minn. Corn-husker and fodder-shredder	702,344	June 10	1902	435	99	2514
Crosby, John B., Buffalo, N. Y. Bottle-stopper	706,301	Aug. 5	601	131	100	1236
Crosby, Oliver, St. Paul, Minn. Reversing mechanism	706,027	Aug. 5	47	9, 10	100	1127
Crosby Steam Gate & Valve Company. (See Bates, Edward C., assignor.)						
Crosby Steam Gate & Valve Company. (See Davidson, Theodore, assignor.)						
Cross, Albert N., Grand Rapids, assignor of one-half to C. R. Treat, Meadow Valley, Wis. Propelling mechanism for dredges, &c.	717,354	Dec. 30	5354	1164	101	3033
Cross, Alonzo T., Providence, R. I. Fountain-pen	714,283	Nov. 25	3562	784	101	1684
Cross, Bradford, assignor to Parlin & Orendorf Company, Canton, Ill. Wheel-plow	704,240	July 8	1630	353	100	341
Cross, Charles F., E. J. Bevan, London, and C. Beadle, Erith, England, assignors to Cellulose Products Company, Wilmington, Del. Treating viscose and products derived therefrom	717,355	Dec. 30	5356		101	3033
Cross, Dick. (See Dalton and Cross.)						
Cross, Frank L., Mystic, Conn., assignor to American Paper Feeder Company, Boston, Mass. Feeding-machine	690,702	Jan. 7	647	141, 142	98	137
Cross, George W., Carbondale, Pa. Chain for conveyers	694,533	Mar. 4	386	85	98	1794
Cross, George W., Carbondale, Pa. Screen	697,071	Apr. 8	1317	291	99	298
Cross, George W., Carbondale, Pa. Conveyor	698,822	Apr. 29	4625	1020	99	1048
Cross, George W., Carbondale, Pa. Screen	704,004	July 8	1173	256	100	249
Cross, Marion S., assignor to W. Teller, trustee, Denver, Colo. Fire-escape	714,100	Nov. 18	3176	702, 703	101	1587
Cross of Albert, Alfred, Mitchell, Okla. Ter. Pruning implement	700,901	May 27	3498	803	99	1945
Cross of Albert, Alfred, Mitchell, Okla. Ter. Wire-stretcher	702,543	June 17	2284	520	99	2615
Cross, William A., Chicago, Ill. Warehouse-door	698,952	Feb. 25	3306	727	98	1541
Cross, William A., Chicago, Ill. Well-door for elevators	714,153	Nov. 25	3297	720	101	1632
Crosse, Walter T., County of Middlesex, England. Wooden panel, lining, ceiling, and floor for buildings, &c., and paving for streets	705,737	July 29	4690	1014, 1015	100	1008
Crossett, Albert, Hartley, Iowa. Four-horse evener	692,987	Feb. 11	1426	310	98	1118
Crossett, George H. (See Lankenau, Edward F., assignor.)						
Crossley, James E. (See Stretch and Crossley.)						
Crossley, John T. (See Mathias, Henry J., assignor.)						
Crossley, Samuel G., assignor of one-half to F. A. Wunder, Philadelphia, Pa. Locomotive-boiler	699,791	May 13	1279	295, 296, 601	99	1450
Crossley, William J., Manchester, and J. Atkinson, Marple, England. Exhaust-valve for internal-combustion motors	713,860	Nov. 18	2694	602	101	1484
Crosthwaite, Walter G. (See Westeryby and Crosthwaite.)						
Crothers, Abner M., Philadelphia, Pa. Coin-delivery machine	700,306	May 20	2351	535	99	1691
Crotser, Allen F., Fulton, Mich. Railway-tie	703,119	June 24	3392	779	99	2858
Crouch, Joseph B., Mayodan, assignor to himself, and P. H. Hanes, Jr., Winston, N. C. Silver-can	716,675	Dec. 23	3954	864	101	2709
Crouch, Thomas B. (See Bayne, Lester H., assignor.)						
Crouch, William S., Jr., Tacoma, Wash. Buoy	706,803	Aug. 12	1562	349	100	1453
Crouch, William S., Jr., Tacoma, Wash. Buoy	706,804	Aug. 12	1564	350	100	1453
Crouse, Beecher M., assignor to Avalon Knitwear Company, Utica, N. Y. Nether garment	700,177	May 20	2076	475	99	1636
Crouse, Henry P. (See Bossert, William F., assignor.)						
Crow, Charles S., Frendale, Iowa. Lock for wagon end-gates	703,550	July 1	316	71	100	64
Crow, Charles S., Frendale, Iowa. Bottom for milk-pails	703,551	July 1	317	72	100	64
Crow, William N., Cromwell, Ind. Band-cutter and feeder	707,393	Aug. 19	2657	600	100	1697
Crowder, John B., Talucah, Ala. Fertilizer-distributor and planter	715,556	Dec. 9	1734	881	101	2306
Crowdus, Walter A., Chicago, Ill. Brake	698,262	Apr. 22	3527	776	99	796
Crowdus, Walter A., Chicago, Ill. Motor-vehicle frame	698,376	Apr. 22	3709	819	99	834
Crowdus, Walter A., Chicago, Ill. Motor-vehicle	700,743	May 27	3197	729, 730	99	1884
Crowdus, Walter A., Chicago, Ill. Motor-vehicle frame	700,909	May 27	3499	803	99	1946
Crowdus, Walter A., Chicago, Ill. Steering-gear	703,552	July 1	319	72	100	64
Crowdus, Walter A., Chicago, Ill. Brake	703,553	July 1	319	72	100	64
Crowdus, Walter A., Chicago, Ill. Brake	715,231	Dec. 2	1113	238	101	2065
Crowe, Edgar P., et al. (See Sibley, William H., assignor.)						
Crowe, Frederick C., Chicago, Ill. Machine for making metal tags	693,241	Feb. 11	1947	424	98	1224
Crowe, Harry J., et al. (See Sibley, William H., assignor.)						
Crowe, Hugh, Eldon, Mo. Apparatus for moving steam-shovels, excavators, or the like	710,764	Oct. 7	702	148	101	144
Crowe, Paul L., Duluth, Minn. Means for raising or lowering grates	713,967	Nov. 18	2918	648	101	1532
Crowe, Paul L., New York, N. Y. Furnace-wall construction	713,968	Nov. 18	2920	649	101	1532
Crowe, Paul L., New York, N. Y. Traveling grate for furnaces	713,969	Nov. 18	2924	649, 650	101	1533
Crowe, W. A. (See Rye, Thor, assignor.)						
Crowell, Charles H., Lynn, Mass. Drier for paper, cloth, &c.	703,044	June 24	3247	747	99	2830
Crowell, Mabel. (See Avery, Mary L., assignor.)						
Crownshield, Walter H., et al. (See Waldron, Harry L., assignor.)						
Crowley, Charles W., St. Louis, Mo. Race-starting machine	705,043	July 22	3206	692, 693	100	699
Crowley, John J., Logan, Mont. Head-block or follower	698,461	Apr. 29	3873	855	99	884
Crown Cork Company. (See Moore, Elbert K., assignor.)						
Crown Cork Company. (See Wood, Frederick W., assignor.)						
Crowner, Truman A., Wilna, N. Y. Device for throwing heavy belts upon pulleys	692,833	Feb. 11	1007	245	98	1049
Crownshield, Walter H., et al. (See Rowse, George W., assignor.)						
Crownshield, Walter H., et al. (See Waldron, Harry L., assignor.)						
Crowther, Edgar F., Vicksburg, Miss. Device for assembling the rollers of roller-bearings	700,178	May 20	2077	475	99	1636
Crowther, Edgar F., Vicksburg, Miss. Journal-box and roller-bearing for railway-car axles	700,179	May 20	2079	476	99	1636
Crowther, John, Invercargill, New Zealand. Means for preventing dust, draft, and rain from entering under doors	704,441	July 8	1998	435	100	420
Croxton, David T., Canal Dover, Ohio. Casting apparatus. (Reissue.)	12,027	Sept. 2	923	210	100	2169
Croxton, David T., Canal Dover, and S. W. Croxton, Cleveland, Ohio. Casting apparatus. (Reissue.)	12,028	Sept. 9	1831	422	100	2368
Crozies, Samuel W. (See Croxton, David T. and S. W.) (Reissue.)						
Crozies, Alfred C. (See Jacques, William E., assignor.)						
Cruikshank, James W., Pittsburg, Pa. Leer for annealing plate-glass	717,172	Dec. 30	5050	1094	101	2967
Cruise, Daniel, New York, assignor to himself, E. and J. A. Jones, Yonkers, N. Y. Spring-heeled horseshoe	693,541	Feb. 18	2511	553	98	1362



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Crum, Eli H., Cloverhead, Ark. Back-band buckle	707,394	Aug. 19	2660	600	100	1697
Crum, Fred H., Tannersville, assignor of one-half to C. O. Bickelmann, Brooklyn, N. Y. Christmas-tree holder	703,554	July 1	321	72	100	65
Crum, W. D. (See Cambridge, Alonzo C., assignor.)						
Crume, John C. (See Clark and Crume.)						
Crump, Samuel, Poughkeepsie, assignor to Printers Roller Washing Machine Company, New York, N. Y. Machine for cleaning printers' rollers	696,134	Mar. 25	3377	762 763	98	2467
Crump, Walter S. (See Little, Anderson, assignor.)						
Crumplair, John R. (See Woods and Crumplair.)						
Cruse, S. D. (See Franke, Ferdinand, assignor.)						
Cruse, S. D. (See Franke, Frederick, assignor.)						
Crutchfield, John H., Atlanta, Ga. Baby-jumper	692,505	Feb. 4	499	117	98	900
Cruttenden, Henry L., Northfield, Minn. Dental-cement injector	716,676	Dec. 23	3956	865	101	2705
Cruttenden, Henry L., Northfield, Minn. Collapsible dental-cement-injecting tube	716,677	Dec. 23	3957	865	101	2706
Cruveller, Baptistin, Marseilles, France. Electric traction	691,360	Jan. 21	1906	428	98	341
Cryderman, James E., Edmonton, Canada. Vehicle-body raiser	708,207	Sept. 2	396	91, 92	100	2069
Cuber, John, and A. Hackenbroch, Chicago, Ill., assignors to F. Patzack Manufacturing Company. Sewing-machine table or cabinet head	710,042	Sept. 30	3965	894	100	2857
Cudahy Packing Company. (See Cameron, Daniel, assignor.)						
Cudlipp, Carlos V., Lima, Peru. Pencil	696,801	Apr. 1	769	175	99	168
Cudner, Gustavis L., New York, N. Y. Hydraulic dredger, excavator, and elevator	697,704	Apr. 15	2466	550	99	553
Cudner, Gustavis L., New York, N. Y. Hydraulic dredge	700,406	May 30	3541	582	99	1706
Cudner, Gustavis L., and J. Dyer, New York, N. Y. Apparatus for raising liquids	703,045	June 24	3252	748	99	2831
Cunioed, Hermann, Geneva, Switzerland. Electric arc lamp	717,497	Dec. 30	5614	1218	101	3043
Culbertson, Dayton T., Milo, Iowa. Potato-harvester	704,519	July 15	2171	470	100	470
Culbertson, James C., Goheenville, Pa. Nut-lock	696,317	Mar. 25	3773	841	98	2547
Cull, John E. L. (See McPhee and Cull.)						
Cullen, Charles J., Jersey City, N. J. Motor	709,877	Sept. 30	3628	880	100	2782
Cullen, Edwin C., Colorado, Tex. Combination-tool for manipulating wire	719,749	Sept. 23	3985	759	100	2723
Cullen, Elizabeth D., et al. (See Cullen, Orlan C., assignor.)						
Cullen, Francis N., Toronto, Canada. Petal for bicycles	706,028	Aug. 5	48	10	100	1129
Cullen, Orlan C., assignor to E. D. Cullen, Waterlick, Va., and E. W. Anderson, Washington, D. C. Firearm						
Cullers, William H., Sr., Allegheny, Pa. Metallic wheel-hub	696,318	Mar. 25	3774	841	98	2547
Cullinan, J. S., et al. (See Sloan, James W., assignor.)	693,347	Feb. 11	2123	468	98	2108
Cullmann, Albert C., La Croisburg, Wis. Bevel and square	708,533	Sept. 9	964	218	100	1967
Cullum, Perry D., McKees Rocks, Pa. Combined coop and nest	714,871	Dec. 2	463	98, 99	101	1929
Culmann, Edward, assignor to Schoellkopf, Hartford & Hanna Company, Buffalo, N. Y. Dark sulfur dye and making same	711,038	Oct. 14	1229		101	2926
Culmer, John W., assignor to National Computing Scale Company, Cleveland, Ohio. Spring-balance computing-scale	702,927	June 24	3015	692 693	99	2787
Culnweper, Harry E. (See Fratcher, David W., assignor.)						
Culp, Anna M. H., Drexburg, Pa. Curtain-pole	691,605	Jan. 21	2335	525	98	520
Culpepper, Robert S., assignor of two-thirds to A. B. Kerr and I. M. Bryce, Houston, Tex. Apparatus for cleaning bottoms of ships	693,242	Feb. 11	1951	424	98	1227
Culver, Charles, Sandon, Canada. Ore separator and classifier	701,851	June 10	1013	226	99	233
Culver, Harmon P., and M. Leichtenritzy, New York, N. Y. Window-guard	706,029	Aug. 5	50	10	100	1129
Cumbe, Ernest R. (See McClave, Kirby, and Cumbe.)						
Cummer, William H., Toledo, Ohio. Electropneumatic switch system for electric railways	701,685	June 3	732	162	99	2262
Cummin, Alexander B. (See Bags and Cummin.)						
Cumming, Paul, Keywest, Fla. Cuff-holder	697,328	Apr. 8	1755	393	99	393
Cumming, William S. (See Kenny, William J., assignor.)						
Cummings, Charles, assignor to Automatic Boiler Feed-Water Regulator Co., San Francisco, Cal. Automatic boiler-feeder	710,317	Sept. 30	4484	1012	100	2967
Cummings, Daniel J., New Haven, Conn. Removable horseshoe-pad	715,023	Dec. 2	740	157	101	1985
Cummings, George K., New York, N. Y. Machine for making prismatic glass	695,281	Mar. 11	1816	401	98	2106
Cummings, George K., New York, N. Y. Machine for making prismatic glass	695,282	Mar. 11	1809	401 402	98	2106
Cummings, George K., Center Rutland, Vt. Making sheets or panes of prismatic glass for use in making prismatic windows	695,283	Mar. 11	1812	402	98	2110
Cummings, George K., Center Rutland, Vt. Making prismatic windows	695,284	Mar. 11	1815	403	98	2115
Cummings, George K., Center Rutland, Vt. Prismatic-glass window	710,434	Oct. 7	63	15	101	151
Cummings, Henry H., Malden, Mass., assignor to National Fibre Board Company. Paper-folding machine	691,751	Jan. 28	2640	591	98	602
Cummings, Henry H., Malden, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Stringing-tool	711,030	Oct. 14	1230	268	101	2968
Cummings, Matthew, assignor of one-half to J. B. Moran, Boston, Mass. Device for protecting furnace doors	713,288	Nov. 11	1615	365	101	1243
Cummings, Robert T., and W. W. Wikoff, Maysville, Ky. Attachment for railway water-tanks	711,293	Oct. 14	1739	376	101	377
Cummins, Archer S., and A. J. Bland, Crewe, Va. Train-pipe hose-coupling	705,210	July 22	3571	773	100	774
Cummins, Edwin M., Sioux City, Iowa. Hand-truck	710,845	Oct. 7	860	186	101	175
Cummins, Stephen S. (See House, Charles A., and J. J., assignors.)						
Cumms, Frank F., Rutland, Vt. Punching-machine	692,122	Jan. 28	3808	749 750	98	736
Cunnoek, George W., and F. E. Warren, Woonsocket, R. I., assignors to Parker Mills, Fall River, Mass. Loom for weaving bordered fabrics	702,635	June 17	2468	564 567	99	2653
Cundell, Edward D. (See Carson and Cundell.)						
Cundell, Edward D., Paterson, N. J. Portable fire-shield	717,173	Dec. 30	5051	1065	101	2968
Cunin, George, Montreal, Canada. Metal-crimping machine	706,030	Aug. 5	51	11, 12	100	1128
Cunniff, Edward. (See Cunniff, John V., and E.)						
Cunniff, John V., and E., New Bedford, Mass., assignors to American Mechanical Warp Stop Company, Pawtucket, R. I. Warp stop-motion for looms	691,533	Jan. 21	2201	495	98	494
Cunniff, John V., and E., assignors of one-half to A. E. Hathaway, New Bedford, Mass. Warp stop-motion for looms	692,431	Feb. 4	367	90	98	875
Cunniff, John V., and E., New Bedford, Mass., assignors to American Mechanical Warp Stop Company, Pawtucket, R. I. Warp stop-motion for looms	713,610	Nov. 18	2238	498 499	101	1387
Cunning, Florence, East Liverpool, Ohio. Folding box	700,965	Sept. 30	3838	864	100	2820
Cunning, James, Indianapolis, Ind. Rolling, wrapping, or winding machine	714,457	Nov. 25	3875	856	101	1746
Cunningham, Andrew C., Washington, D. C. Floating dry-dock	710,765	Oct. 7	703	148 149	101	144
Cunningham, Andrew C., Washington, D. C. Means for coating ships at sea	717,356	Dec. 30	5357	1164 1165	101	3033
Cunningham, Archie J., Chicago, Ill. Metallic piston and valve rod packing	711,478	Oct. 21	2078	449	101	404

## Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr. g.	Vol.	Page.
Cunningham, John E., St. Albans, W. Va. Horseshoe-calk .....	669,836	May 13	1371	318	99	1470
Cunningham, John N., Washington, D. C. Belt and shirt-waist connector .....	697,329	Apr. 8	1757	393	99	393
Cunningham, Nora L., <i>et al.</i> (See Cunningham, Walter C., assignor.) .....						
Cunningham, Thomas W., <i>et al.</i> (See Graves, George A., assignor.) .....						
Cunningham, Walter C., assignor to N. L. Cunningham, St. Paul, Minn., and O. P. Higdon, Ottumwa, Iowa. Manufacturing smoking pipes .....	702,708	June 17	2600	598	99	2681
Cunningham, William J., Philadelphia, Pa. Machine for washing or sterilizing bottles .....	697,201	Apr. 8	1537	599	99	346
Cunningham, William J., Philadelphia, Pa. Bottle-washing machine .....	708,321	Sept. 2	508	136	100	2103
Cunningham, William J., Philadelphia, Pa. Bottle-washing machine .....	711,244	Oct. 14	1638	352	101	355
Cunningham, William J., Philadelphia, Pa. Bottle-washer .....	712,265	Oct. 28	3593	785	101	791
Cunningham, William J., Philadelphia, Pa. Bottle-washing machine .....	712,266	Oct. 28	3595	785	101	791
Cunningham, William R., assignor to American Clay-Working Machinery Company, Bucyrus, Ohio. Combined tile-machine and pug-mill .....	707,831	Aug. 26	3581	1808	100	1901
Currier, Emile L., East Orange, N. J. Shade-fixture .....	704,816	July 15	2712	586	100	580
Curled Fibre Manufacturing Company. (See Wessel, Karl, assignor.) .....						
Curlett, Lewis K., assignor of one-half to W. D. Allen, Chicago, Ill. Electric signal for elevators .....	707,305	Aug. 19	2495	560	100	1664
Curley, Terence F. (See Hilton, John H., assignor.) .....						
Curlin, Charles W., Hickman, Ky. Inflatable article .....	691,118	Jan. 14	1396	318	98	305
Curline, James L., Dunedin, New Zealand. Shot-making machine .....	697,814	Apr. 15	2665	591	99	597
Curran, Arthur D., <i>et al.</i> (See Huff, Henry H., assignor.) .....						
Curran, Edward J., Sydney, New South Wales, Australia. Drafting garment-patterns .....	711,479	Oct. 21	2080	450	101	461
Curran, John J., Chicago, Ill. Dry-kiln .....	691,606	Jan. 21	2336	525	98	521
Curran, Michael P., <i>et al.</i> , trustees. (See Weitz, George G., assignor.) .....						
Curran, Philip B., Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company. Hydrocarbon incandescent lamp .....	705,044	July 22	3207	693	100	699
Currier, Charles W., Columbus, Ohio. Gas-burner .....	701,303	June 3	40	8	99	2117
Currier, Jeremiah M., assignor of one-third to C. Sale, Louisville, Ky. Combined sad-iron and vapor-stove .....	700,180	May 20	2082	476	99	1637
Currier, John W. (See Bond, Albert, assignor.) .....						
Currier, John W., North Troy, Vt. Registering cloth-board .....	694,001	Feb. 25	3419	753	98	1564
Currier, John W., Boston, Mass. Mail-box .....	696,721	Apr. 1	622	139	99	135
Curry, Andrew J., assignor of one-half to N. J. McEvoy, St. Louis, Mo. Hat-trunk .....	698,293	Apr. 22	3520	776	99	797
Curry, Hill M., California, Pa. Plumb-bob .....	702,298	June 10	1797	111	99	2495
Curry, James, Rockford, Ill. Automatic hydraulic fire-extinguishing system .....	699,665	May 13	1032	240	99	1401
Curry, Jasper, Buffalo, Tex. Whiffletree-clip .....	694,254	Feb. 25	3887	860	98	1657
Curry, Lewis M., Brighton, Mich. Plane .....	715,352	Dec. 9	1341	289	101	2130
Curry, Monroe, assignor of two-thirds to W. P. and M. Roberts, Killeen, Tex. Baling-press .....	711,480	Oct. 21	2081	451	101	461
Curtain Supply Company. (See Burrows, Edward T., assignor.) .....						
Curtain Supply Company. (See Milans, Joseph H., assignor.) .....						
Curtis, Arthur W., assignor to C. P. Lee, Beverly, Mass. Clamping device for cutting cloth .....	715,642	Dec. 9	1867	1414	101	2234
Curtis, Charles G., New York, N. Y. Commutator-brush .....	690,516	Jan. 7	299	58	98	63
Curtis, Charles G., New York, N. Y., assignor, by mesne assignments, to Curtis Steam Turbine Company. Elastic-fluid turbine .....	700,744	May 27	3201	731	99	1885
Curtis, Charles G., New York, N. Y., assignor, by mesne assignments, to Curtis Steam Turbine Company. Governor for elastic-fluid turbines .....	715,246	Dec. 9	1142	245	101	2087
Curtis, Charles L. (See Lispenard, George, assignor.) .....						
Curtis, Edmund A., Chicago, Ill. Car-truck .....	696,627	Apr. 1	422	98	99	92
Curtis, Frank, Ingersoll, Canada. Screw-making machine .....	712,508	Nov. 4	73	19,20	101	912
Curtis, Nelson, Boston, Mass. Automatic boiler-feeding device .....	698,326	Mar. 25	3567	739	98	2503
Curtis, Nelson, assignor to Sumner and Goodwin Company, Boston, Mass. Faucet .....	696,135	Mar. 25	3386	763	98	2468
Curtis, Nelson, assignor to Sumner & Goodwin Company, Boston, Mass. Automatic valve .....	707,395	Aug. 19	2661	600	100	1698
Curtis, Samuel, Kirkwood, Mo. Embossing-press .....	695,542	Mar. 18	2257	510	98	2220
Curtis Steam Turbine Company. (See Book, Dwight D., assignor.) .....						
Curtis Steam Turbine Company. (See Curtis, Charles G., assignor.) .....						
Curtis, Timothy A., Newark, N. J. Tape-needle .....	669,153	May 6	49	14	99	1186
Curtiss, Charles E., assignor to International Harvester Company, Chicago, Ill. Pneumatic stacker for stalk-shredding machines .....	715,760	Dec. 16	2112	473	101	2806
Curtiss, George W., Peoria, Ill., assignor to Morrow Protective Process Company. Carbonizing apparatus .....	709,966	Sept. 30	3839	864	100	2830
Curtiss, George W., Peoria, Ill., assignor to Morrow Protective Process Company. Carbonizing apparatus .....	709,967	Sept. 30	3843	865	100	2831
Curtright, Walter W., Atlanta, Ga. Merry-go-round, seesaw, and jogger-board attachment .....	707,555	Aug. 26	2968	671	100	1779
Curtis, Robert P., Columbus, Ohio. Physician's examining chair and table .....	696,722	Apr. 1	623	139	99	135
Cushing, Alvin M., Springfield, Mass. Burglar-proof device for safe-doors .....	703,167	June 24	3526	811	99	2684
Cushing, Augustus M., Mink, Ill. Running-gear for wagons .....	714,563	Nov. 25	4062	899	101	1734
Cushing, Clarence P., North Abington, Mass., assignor to Standard Shoe Machinery Company, East Orange, N. J. Sole-rounding machine .....	700,624	May 20	2939	675	99	1813
Cushing, Frederick W., Highland Park, Ill. Means for forming beaches .....	715,557	Dec. 9	1736	382	101	2207
Cushing, Guy M. (See Kennedy and Cushing.) .....						
Cushing, John W., San Francisco, Cal., assignor of one-half to G. R. Elliott, Baker City, Ore. Speeding attachment for mills .....	693,642	Feb. 18	2714	599	98	1404
Cushman, Ava T., Auburn, Me. Gument-forming machine .....	710,435	Oct. 7	66	15	101	15
Cushman and Denison. (See Shedlock, Alfred, assignor.) .....						
Cushman, Edward S., Centerville, Iowa. Cooling-can. (Reissue) .....	11,966	Feb. 4	1058	237	98	1012
Cushman, Everett B. and L. S., Lincoln, Nebr. Gas-engine .....	703,695	July 1	599	133	100	119
Cushman, James S., New York, N. Y. Device for displaying cards, price-tickets, &c .....	716,389	Dec. 23	3391	740	101	2588
Cushman, Leslie S. (See Cushman, Everett B. and L. S.) .....						
Custer, Clemat T., Great Cacapon, W. Va. Can-opener .....	708,801	Sept. 9	1471	336	100	2295
Custer, William F., Summitville, Ind. Combined shears and punch .....	713,459	Dec. 9	1532	333	101	2167
Cutcheon, Frederick R. M., St. Paul, Minn. Current-regulator for electric transformers .....	693,841	Feb. 25	3079	679	98	1497
Cuthriell, Alonzo P., assignor of two-thirds to C. A. McLean and H. L. Maynard, Portsmouth, Va. Coating ships' bottoms or other objects .....	716,678	Dec. 23	3958	-----	101	2709
Cutler, Arthur E. (See Casey and Cutler.) .....						
Cutler, Fred, Bradfordford, Ill. Separator .....	704,241	July 8	1632	353	100	241
Cutler, Henry H., Chicago, Ill. Controller for electric vehicles .....	697,086	Apr. 22	2986	638	99	683
Cutler, Henry H., Chicago, Ill. Controller for electric vehicles .....	697,987	Apr. 22	2989	659	99	684



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Cutler, Henry H., Milwaukee, Wis. Multiple switch .....	702,409	June 17	2038	464	99	2562
Cutler, Lorenzo, New York, and C. W. Smith, Brooklyn, N. Y. Self-adjusting feed-bag .....	710,670	Oct. 7	526	109	101	106
Cutten, Elisha B., New York, and A. C. Fraser, assignors to said Fraser and G. H. Fraser, Brooklyn, N. Y. Locomotive-cab electric railway-signal .....	716,871	Dec. 30	4429	961 962	101	2836
Cutter Electrical & Manufacturing Company. (See Scott, William M., assignor.)						
Cuttendall, Jacob R., Hoopeston, Ill. Apparatus for preparing corn for canning. ....	695,196	Mar. 11	1641	364 365	98	2076
Cyr, Joseph T. (See Hutchins and Cyr.)						
Cyr, Joseph T., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pin-wheel and star-wheel motion .....	699,910	May 13	1528	351	99	1505
Cyr, Joseph T., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Clutch mechanism .....	714,872	Dec. 2	466	99	101	1930
Czermak, Johana, Dusseldorf, Germany. Manufacturing artificial marble .....	704,621	July 15	2341		100	504
Czermak, John W., and J. Tischler, Port Chester, N. Y. Latch .....	703,642	July 1	487	110	100	96
Czerniewski, Stanislaw A. (See Krygoski and Lowrie, assignors.)						
D. Clint Prescott Co. (See Prescott, Clay S., assignor.)						
D. F. Briggs Company. (See Bennett, Thomas S., assignor.)						
D. H. Burrell & Company. (See Feldmeier, Harvey, assignor.)						
D. M. Osborne & Company. (See Kennedy, Samuel V., assignor.)						
D. M. Osborne & Company. (See Sharp, Charles S., assignor.)						
D. M. Sechler Carriage Company. (See Samuels, Jonathan H., assignor.)						
D. M. Sechler Carriage Company. (See Tunnickliff, John C., assignor.)						
D. T. Dudley & Son Company. (See Caisse, Nelson, assignor.)						
D. & W. Manufacturing Company. (See Wende and Carter, assignors.)						
D. C. & U. Gas Engine Company. (See Dahlberg, Clicquenois, and Uhlin, assignors.)						
D. (Reissue.)						
D'Asson, Armand D. (See Stoerk, Dubois, and D'Asson.)						
D'Espine, Charles, assignor to Société D'Espine Achard et Cie, Paris, France. System of jointing for joining up boxes, &c. ....	691,049	Jan. 14	1297	294	98	286
D'Homergue, John B., Pittsburg, Pa. Frame for doors, windows, &c. ....	698,201	Apr. 22	3417	752	99	773
D'Humy, Fernand E., Boston, Mass. Telegraph .....	693,605	Feb. 18	2647	584	98	1389
D'Orlowsky, Jules. (See Vullich and D'Orlowsky.)						
Daboll, Nathan T., New London, Conn. Storage-battery plate .....	711,481	Oct. 21	2087	452	101	463
Dabus, John, Piqua, Ohio. Draft attachment for doubletrees .....	698,178	Apr. 22	3363	736	99	761
Dade, Harry E., Mount Vernon, N. Y. Binder .....	691,844	Jan. 28	2812	631	98	637
Dade, Harry E., Yonkers, N. Y. Binder .....	713,289	Nov. 11	1617	366	101	1243
Daft, Leo, and A. Williams, Wimbledon, England. Means for signaling to or communicating with ships .....	711,386	Oct. 14	1902	414	101	411
Daggett, Daniel, Lexington, Nebr. Calf-weaner .....	709,140	Sept. 16	2168	497	100	2458
Daggett, John P., Fort Worth, and H. Hestand, Dundee, Tex. Horseshoeing-rasp .....	693,285	Mar. 11	1818	403	98	2111
Dahl, Axel, North Tarrytown, N. Y. Wrench .....	708,210	Sept. 2	400	92	100	2063
Dahl, Charles A., Lynn, assignor to Reece Buttonhole Sewing Machine Company, Boston, Mass. Eyelet-hole-sewing machine .....	699,371	May 6	456	106 107	99	1208
Dahl, Charles A., Lynn, and G. S. Hill, Haverhill, Mass., assignors to Reece Buttonhole Sewing Machine Company, Portland, Me., and Boston, Mass. Buttonhole-sewing machine .....	714,284	Nov. 25	3563	785 786	101	1685
Dahl, Franz, Bruckhausen, Germany. Hydraulic press .....	696,010	Mar. 25	3123	705	98	2411
Dahl, Olaus A., Nash, N. D. Churn .....	701,304	June 3	41	9	99	2117
Dahl, Olaus A., Nash, N. D. Ball-bearing stove-leg .....	712,122	Oct. 28	3348	733	101	741
Dahlberg, Charles L., Des Moines, Iowa. Tabulating-scale for type-writers .....	691,896	Jan. 28	2899	653	98	655
Dahlberg, Frank J., et al. (See Neubauer, Carl E., assignor.)						
Dahlberg, Gustave, McDonald, J. Clicquenois, Taylorstown, and E. Uhlin, McDonald, assignors to D. C. & U. Gas Engine Company, Washington County, Pa. Gas and steam convertible engine. (Reissue.)	12,021	Aug. 19	2906	658	100	1749
Dahlberg, Gustave, McDonald, J. Clicquenois, Taylorstown, and E. Uhlin, McDonald, assignors to D. C. & U. Gas Engine Company, Washington County, Pa. Gas and steam convertible engine. (Reissue.)	12,024	Aug. 26	3894	1875 1876	100	1964
Dahlén, Andrew, assignor of one-half to H. L. Brynildsen and O. E. Anderson, Vasa, Minn. Rotary engine .....	708,129	Sept. 2	243	57, 58	100	2032
Dahlgren, John. (See Anderson, Andrew P., assignor.)						
Dahman, William H., assignor to A. Geisel Manufacturing Company, St. Louis, Mo. Knockdown oven .....	704,300	July 8	1738	1379 1380	100	305
Dahmen, Hans von, Vienna, Austria-Hungary. Detonating composition .....	702,357	June 10	1925		99	2520
Daigneault, Joseph C., assignor of one-half to W. A. Beaudette, Worcester, Mass. Floor-laying and nailing machine .....	706,805	Aug. 12	1566	350 351	100	1454
Dail, Elias E., Ayden, N. C. Churn .....	710,436	Oct. 7	67	16	101	16
Dailey, Charles I., Cleveland, Ohio. Heating-furnace .....	715,029	Dec. 2	742	157	101	1986
Dailey, Charles W. (See Devoe and Dailey.)						
Dailey, Frank, Port Byron, Ill. Hay or fodder fork .....	715,761	Dec. 16	2114	474	101	2307
Dailey, James H., Milwaukee, Wis. Blanket .....	691,534	Jan. 21	2203	495	98	494
Dailey, William A. (See Butler and Dailey.)						
Dailey, William D., Parkersburg, W. Va. Frictional gearing .....	705,390	July 22	3967	859	100	832
Dailey, William F., et al. (See Cahill, Thomas H., assignor.)						
Daily, Arthur, and R. B. Baker, Otisom, Ind. Grapple .....	709,750	Sept. 23	9386	759	100	2722
Daily, Dora S., San Francisco, Cal. Hook and eye .....	710,671	Oct. 7	527	108	101	107
Daime, Joseph, Marseilles, France. Strengthened cast cement .....	690,840	Jan. 7	902	200 201	98	191
Daimler Manufacturing Company. (See Bardwell, Arthur F., assignor.)						
Daimler Manufacturing Company. (See Maybach, Wilhelm A., assignor.)						
Dairymen's Manufacturing Company. (See Howell, James C., assignor.)						
Dakers, James, Aberdeen, Scotland. Bottle-closure .....	698,907	Apr. 29	4804	1058 1059	99	1086
Dakin, Henry. (See Chaplin and Halloran, assignors.)						
Dakin, S. M. (See Spates, Charles D., assignor.)						
Dalbert, Louis, Arlington, assignor of one-half to F. E. Zepp, Star Tannery, Va. Window-shade support .....	711,294	Oct. 14	1741	376	101	377
Dale, George L., New York, N. Y. Feed-bar .....	695,286	Mar. 11	1819	404	98	2111
Daley, Daniel F., Brooklyn, N. Y., assignor to Mergenthaler Linotype Co. Linotype .....	694,141	Feb. 25	3664	810	98	1614
Daley, Thomas F., et al. (See McNeerney, Thomas H., assignor.)						
Dalgaty, Herbert, New York, N. Y. Interlocking collar-fastener .....	705,212	July 22	3574	773	100	774
Dallas, George M., assignor of one-half to W. R. Chittenden, Chicago, Ill. Artificial fuel .....	706,533	Aug. 12	1052		100	1348
Dallas, James M., New Orleans, La. Apparatus for operating farm-machines .....	710,845	Oct. 7	861	187	101	175
Dallas, William F., et al. (See Brown, Thomas H., assignor.)						
Dallett & Company, Thomas H. (See Soley, William H., assignor.)						
Dallinger, Frank W., Cambridge, Mass. Apparatus for making coffee, &c. ....	699,495	May 6	694	161	99	1320

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Dallmeyer, Thomas R. (See Hill, Frederick H., assignor.)						
Dally, Charles A., Carnot, Pa., assignor of one-half to N. E. Whitaker, Wheeling, W. Va. Fuel-burner	701,800	June 3	924	206	99	2301
Dalmar, Richard. (See Wander and Dalmar.)						
Dalrymple, John B., Boston, Mass. Hammock-sling	696,413	Apr. 1	40	9	99	12
Dalsheimer, Simon, Baltimore, Md. Box	698,106	Apr. 23	3216	704	99	732
Dalton, Lewis, and D. Cross, Santo, Tex. Lock	714,458	Nov. 25	3857	856	101	1746
Daly, J. E. (See Clark, Harry A., assignor.)						
Daly, John A., Washington, D. C. Covering textile and porous materials with metal	694,946	Mar. 11	1170		98	1978
Daly, John A., Washington, D. C. Electrodepositing metal on lace	707,306	Aug. 19	2496	560	100	1664
Daly, John M., Peoria, Ill. Graphic tonnage-resistance indicator	715,197	Dec. 2	1045	225	101	2050
Daly, John M., Peoria, Ill. Graphic chart	715,198	Dec. 2	1049	226	101	2051
Daly, John M., Peoria, Ill. System for computing the resistance of railway-trains	715,199	Dec. 2	1050	227	101	2051
Daly, John M., Peoria, Ill. Tonnage-resistance indicator	715,200	Dec. 2	1054	227	101	2052
Daly, John M., Peoria, Ill. Gravity computing-machine	715,460	Dec. 9	1533	333	101	2167
Daly, John M., Chicago, Ill. System for computing tonnage resistance in railway-trains	715,201	Dec. 2	1055	227	101	2052
Daly, John M., Chicago, Ill. Computing-machine	715,461	Dec. 9	1536	334	101	2168
Daly, Michael J., Pittsburg, Pa., assignor of one-half to I. E. Josephs, W. S. McMillan, and T. F. Vickers. Mailing-envelop	711,945	Oct. 28	3018	663	101	677
Damascus Brake Beam Company. (See Handiges, Philip T., assignor.)						
Damascus Brake Beam Company. (See Rudesill, John T. W., assignor.)						
Dambrun, Maggie, Des Moines, Iowa. Adjustable invalid-mattress	696,802	Apr. 1	770	175	99	163
Damerell, Henry, Racine, Wis., assignor of one-half to F. Way, Chillicothe, Mo. Valve-gear	695,445	Mar. 18	2075	468	98	2184
Damey, James, and W. H. Cork, assignors of one-third to N. S. Bouton, Chicago, Ill. Heater	700,745	May 27	3206	732	99	1886
Damon, Lyman R., Dexter, Me. Sanitary commode	709,305	Sept. 16	2500	563	100	2527
Damon, Walter L. (See Caldwell and Damon.)						
Dancyger, Simon. (See Pickering, Barton, assignor.)						
Dancyger, Simon, Dayton, Ohio. Price-tag	690,404	Jan. 7	33	7	98	10
Dancyger, Simon, Dayton, Ohio. Spring-ticket fastener	708,756	Sept. 9	1375	314	100	2274
Dando, Anna M., and F. H. Stair, Scranton, Pa. Miner's safety-lamp	700,407	May 20	2543	582	99	1729
Dane, George M., Worcester, Mass. Trousers	707,556	Aug. 26	2969	671	100	1779
Danforth, Frank L., Grand Rapids, Mich. File-wrapper	713,071	Nov. 11	1140	262	101	1147
Danforth, Henry C., Philadelphia, Pa. Adjustable gas or fluid check	693,116	Feb. 11	1677	394	98	1160
Danforth, Raymond H. (See Allen and Danforth.)						
Daniel, Charles, Sycamore, Kans. Combined tail and rein guard	697,453	Apr. 15	2013	444	99	463
Daniel, Charles T., Kansas City, Mo. Letter-file, &c	699,290	May 6	304	70	99	1237
Daniel, Jacob, Los Angeles, Cal. Combined door stop and catch	706,904	Aug. 12	1751	391	100	1492
Daniel, William S., and W. O. Shackelford, Abilene, Tex. Milk-cooler	714,450	Nov. 25	3879	856	101	1747
Daniels, Charles L. (See Loveless, Fred H., assignor.)						
Daniels, Fred H., Worcester, Mass. Making ball-ties	703,555	July 1	322	73	100	65
Daniels, Fred H., Worcester, Mass. Furnace for annealing wire	706,031	Aug. 5	54	12	100	1129
Daniels, Fred H., Worcester, Mass. Heating-furnace	706,032	Aug. 5	56	12	100	1129
Daniels, Fred H., and H. W. Wyman, Worcester, Mass. Manufacture of rail-bonds	709,878	Sept. 30	3630	821	100	2788
Daniels, Fred H., and C. S. Marshall, Worcester, Mass. Spring cutting-machine	713,208	Nov. 11	1406	317	101	1202
Daniels, Fred H., and C. S. Marshall, Worcester, Mass. Manufacture of springs	716,681	Dec. 23	3964	868	101	2710
Daniels, Fred H., and C. S. Marshall, Worcester, Mass. Manufacture of spiral springs	716,682	Dec. 23	3967	868	101	2711
Daniels, Fred H., and C. S. Marshall, Worcester, Mass. Machine for separating the coils of spiral springs	716,683	Dec. 23	3969	868	101	2711
Daniels, Fred H., and H. W. Wyman, assignors to American Steel & Wire Company, Worcester, Mass. Rail-bond	698,179	Apr. 22	3363	736	99	761
Daniels, Fred H., C. S. Marshall, and J. O. E. Trotz, Worcester, Mass., assignors to American Steel & Wire Company. Manufacture of springs	716,679	Dec. 23	3959	866	101	2709
Daniels, Fred H., C. S. Marshall, and J. O. E. Trotz, Worcester, Mass., assignors to American Steel & Wire Company. Manufacture of springs	716,680	Dec. 23	3961	866	101	2710
Daniels, John J., New London, Minn. Trap for pocket-gophers	703,556	July 1	325	73	100	66
Daniels, Merwin G., New York, N. Y., assignor to Standard Caster and Wheel Company. Caster	714,636	Nov. 25	4203	929	101	1811
Daniels, Samuel, assignor of one-half to J. C. Reeder, Harvey, Ill. Spring-gun	710,437	Oct. 7	69	16	101	16
Daniels, Winfield S., St. Louis, Mo. Hinge-pin	692,633	Feb. 4	732	169	98	950
Danielsen, Wilhelm G., Logan, Utah. Hay derrick or stacker	708,625	Sept. 9	1116	251	100	2219
Danielson, Ernst, Westerås, Sweden. Alternating-electric-current induction-machine	694,092	Feb. 25	3586	793	98	1598
Dankhof, Ellen. (See Smith and Leonhard, assignors.)						
Danley, William R. (See Woody, Danley, and Young.)						
Danley, Willis W., Chicago, Ill., assignor to American Pneumatic Service Company, Boston, Mass. Pneumatic-carrier system	703,120	June 24	3394	779	99	2859
Dann, Horace E., et al. (See Punzelt, Edward E., assignor.)						
Dannenberg, Otto F., and R. L. Morgan, Toledo, Ohio, assignors to American Bicycle Company, Jersey City, N. J., and New York, N. Y. Engine controlling mechanism	702,410	June 17	2039	464	99	2564
Danner, Frederick, Tarentum, Pa. Annealing-furnace	694,054	Feb. 25	3527	776	98	1586
Dannhardt, Ferdinand H., South Yarra, assignor of two-thirds to M. Mailer, North Carlton, near Melbourne, Victoria, Australia. Earth or rock drill	705,910	July 29	4988	1086	100	1069
Danser, Asa L. (See Thornburg and Danser.)						
Dansk Rekyli-Riffel Syndicate. (See Rasmussen, Julius A. N., assignor.)						
Dant, John P., Louisville, Ky. Seal for jugs or bottles	695,709	Mar. 18	2563	580	98	2282
Danver, James H., assignor to C. F. Arrott, Pittsburg, Pa. Washstand, basin, sink, &c	713,406	Nov. 11	1826	411	101	1289
Darby, Averno A. and W. L. Vidalia, Ga. Engine	695,798	Mar. 18	2728	632	98	2316
Darby, Sidney C. (See Darby, Thomas C., T. A., and S. C.)						
Darby, Thomas A. (See Darby, Thomas C., T. A., and S. C.)						
Darby, Thomas C., T. A., and S. C., Wickford Junction, England. Implement for digging or cultivating land	715,030	Dec. 2	744	157	101	1986
Darby, William L. (See Darby, Averno A. and W. L.)						
Darling, Albert M., et al. (See Hills, Howard L., assignor.)						
Darling, James D., assignor to Harrison Bros. & Co., Incorporated, Philadelphia, Pa. Making alkaline cyanids	698,462	Apr. 29	3875	855	99	894
Darling, James D., assignor to Harrison Bros. & Co., Incorporated, Philadelphia, Pa. Making cyanids	698,463	Apr. 29	3876	856	99	894



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Darling, James D., assignor to Harrison Bros. & Co., Incorporated, Philadelphia, Pa. Making alkaline cyanids	698,464	Apr. 29	3877		99	884
Darling, John, Rutherglen, Scotland. Automatic car-coupling	700,625	May 20	2941	675	99	1814
Darling, John, Gallowflats, Rutherglen, assignor to Darling's Patent Automatic Coupling, Limited, Glasgow, Scotland. Automatic car-coupling	699,082	Apr. 29	5083	1124 1125	99	1144
Darling, Joseph, Chicago, and C. C. Ellenberger, Jr., Peachville, Pa. Reversing-pulley mechanism	707,396	Aug. 19	2665	601	100	1699
Darling, Levi B., Providence, R. I. Means for extracting precious metals from ores	706,302	Aug. 5	603	131	100	1237
Darling, Levi B., Providence, R. I. Extracting precious metals from ores	706,303	Aug. 5	606	132	100	1237
Darling, Thaddeus, Marietta, Ohio. Coupling for cables, ropes, &c.	706,393	Aug. 5	789	172	100	1274
Darling, Winfield, South Setauket, N. Y. Egg-tray	702,780	June 17	2738	630	99	2710
Darling's Patent Automatic Coupling. (See Darling, John, assignor.)						
Darlington, Frederic W., Philadelphia, Pa. Fountain	690,405	Jan. 7	33	8	98	10
Darlington, Thomas, South Melbourne, Victoria, Australia. Means for ventilating buildings	697,815	Apr. 15	2666	591 592	99	597
Darnell, Carter C., assignor to one-half to C. C. Neal, Ashland, Ga. Combined plow-foot and scraper	712,362	Oct. 28	3760	823	101	825
Darr, Abraham L., assignor to W. A. and H. E. Darr, Carroll, Iowa. Detachable fastener for window-sashes	702,089	June 10	1464	329	99	2427
Darr, Harry E., et al. (See Darr, Abraham L., assignor.)						
Darr, Winfield A., et al. (See Darr, Abraham L., assignor.)						
Darrin, David H., Cranford, N. J., assignor to E. McLean, Brooklyn, N. Y. Damper-controller	697,705	Apr. 15	2468	550 551	99	553
Darrin, David H., Cranford, N. J., and E. McLean, Brooklyn, N. Y.; said Darrin assignor to said McLean. Automatic heat-controller for steam-boiler furnaces	690,931	Jan. 14	1065	239 240	98	239
Darrin, David H., New York, and W. M. Dollar, Buffalo, N. Y., assignors to Howard Iron Works. Hoisting apparatus	698,465	Apr. 29	3878	857	99	884
Darrow, Noble C., Minneapolis, Minn. Type-writing machine	704,242	July 8	1632	353 354	100	341
Darst, Edward A., Eureka, Ill. Wind-stacker	692,246	Feb. 4	52	11	98	809
Dart, Albert E., Boston, Mass. Pipe-coupling	690,517	Jan. 7	291	58	98	63
Dart, Edward N., New York, N. Y. Ellipsograph	717,082	Dec. 30	4841	1049	101	2922
Darwin, Frank L., assignor to seven-eighths to H. Hanson, J. J. Mothander, R. Sohberg, F. Wehremiller, A. Haertlein, F. and J. Burison, C. Ross, C. Lindstrom, S. C. Bybee, G. W. Hanson, Marquette, Kans., and C. A. Ingemanson, Railway-switch	692,247	Feb. 4	54	12	98	810
Dascomb, Charles H. (See Palmer, William J., assignor.)						
Dascomb, Charles H., El Paso, Tex. Music-leve turner	694,839	Mar. 4	956	213	98	1915
Dassori, Frederick. (See Kleinschmidt, Edward E., assignor.)						
Dattlebaum, Marcus, Oakland, Cal. Strap connection for garments or the like	712,363	Oct. 28	3761	823	101	826
Daub, Henry W. (See White and Daub.)						
Daube, Oscar, New York, N. Y. Carbonizing organic materials	705,213	July 22	3576	773 774	100	775
Daubenbis, William J. (See Wehmeier and Daubenbis.)						
Daubitz, Franz, Rixdorf, and A. Loewy, Berlin, Germany. Manufacturing molded elastic goods	715,462	Dec. 9	1539		101	2168
Dauer, Edward, assignor of two-thirds to P. and N. E. McLoon, Sulphur Springs, Mo. Wrench	716,197	Dec. 16	3019	659	101	2500
Daughenbaugh, William H., et al. (See Kent, Thomas J., assignor.)						
Daughtry, William R., Montgomery, Ala. Holder for handles of kitchen utensils	701,305	June 3	42	9	99	2117
Dauphin, Joseph O., Rat Portage, Canada. Rod-swab	694,810	Mar. 4	957	213	98	1916
Daus, Louis A., Evansville, Ind. Support for awning-rollers	705,214	July 22	3579	774	100	775
Daus, Louis A., Evansville, Ind. Awning-locking mechanism	715,463	Dec. 9	1540	334	101	2168
Dave Barnard & Co. (See Barnard, Davis, assignor.)						
Davenport, Arthur C., et al. (See Mook, Hugo, assignor.)						
Davenport, Delmer. (See Nabbs, Charles W., assignor.)						
Davenport, Edward W., and H. Bardsley, assignors to Crompton & Knowles Loom Works, Providence, R. I. Loom-shuttle	691,607	Jan. 21	2338	526	98	521
Davenport, Edward W., and H. Bardsley, assignors to Crompton & Knowles Loom Works, Providence, R. I. Pattern mechanism for looms	691,608	Jan. 21	2340	526	98	521
Davenport, Frank W., Providence, R. I. Educational device	701,997	June 10	1288	294	99	2390
Davenport, Hudson A. (See Lane and Davenport.)						
Davenport, William B., executor. (See Miller, Frederic S.)						
Davenport, William H., Norwich, Conn. Breakdown gun	701,158	May 27	3969	913	99	2046
Davenport, William H., Norwich, Conn. Locking-key for firearms	701,159	May 27	3970	913	99	2046
Davenport, William S., assignor to Brown and Sharpe Manufacturing Company, Providence, R. I. Sloting mechanism for screw-machines	703,121	June 24	3400	780	99	2860
Davey, Edward, New Rochelle, N. Y. Window frame and sash	709,666	Sept. 23	3219	718 719	100	2690
David Bradley Manufacturing Company. (See Brunner, William T. M., assignor.)						
David, Florance M., Neasden, England. Scaffolding	714,101	Nov. 18	3179	703	101	1587
David, Joseph, St. Louis, Mo. Spreader for shawl roll-bolsters	691,119	Jan. 14	1398	318	98	306
Davidoff, Joseph, Brooklyn, N. Y. Folding cot	708,809	Sept. 9	1616	370	100	2325
David's, Max. (See Jenkins and Rohlmann, assignors.)						
Davidson, Alexander, Joliet, Ill. Land, marine, or submarine merry-go-round	710,043	Sept. 30	3967	895	100	2357
Davidson, Alexander, Joliet, Ill. System of submarine transportation	710,044	Sept. 30	3969	895	100	2357
Davidson, Charles E., Greenville, Ill. Hub-attaching device	703,643	July 1	489	110	100	96
Davidson, Charles W., Tonti, Ill. Heating-drum	705,217	July 22	3586	775	100	776
Davidson, George M., Big Rapids, Mich. Hammer	705,045	July 22	3520	693	100	700
Davidson, George M., Oakpark, Ill. Water-purifier	712,770	Nov. 4	557	128	101	1012
Davidson, George M., Oakpark, Ill. Water-purifier	712,771	Nov. 4	560	129 130	101	1013
Davidson, George M., Oakpark, Ill. Water-purifier	715,031	Dec. 2	746	158	101	1987
Davidson, George P., Port Chester, N. Y. Plane	696,414	Apr. 1	42	10	99	13
Davidson, George R., Lenox, Mich. Bean-cleaning machine	710,142	Sept. 30	4175	940 941	101	2901
Davidson, George R., Lenox, Mich. Scalper and bolter	711,890	Oct. 21	3762	612	101	65
Davidson, John V., Decatur, Ill. Banana-crate	698,396	June 24	3780	871	99	2198
Davidson, John A., assignor to National Filter Company, Chicago, Ill. Filter	716,989	Dec. 30	4666	1012	101	2884
Davidson, Marshall T. (See Groshon, John A., assignor.)						
Davidson, Marshall T., and W. A. Drewett, Brooklyn, N. Y. Ejector apparatus	708,757	Sept. 9	1376	314 315	100	2274
Davidson, Otis E., assignor to J. B. Knott and Cumberland Foundry & Manufacturing Company, Nashua, N. H. Combseller	710,848	Oct. 7	865	187	101	176
Davidson Rubber Company. (See Seltzer, Cyrus J., assignor.)						
Davidson, Samuel C., Belfast, Ireland. Rotary fan or pump	691,609	Jan. 21	2344	527	98	522

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Davidson, Samuel C., Belfast, Ireland. Rotary propeller-fan and propeller for ships	705,046	July 22	3210	693 694 695	100	700
Davidson, Theodore, Salem, assignor to Crosby Steam Gage & Valve Company, Boston, Mass. Steam-engine indicator	713,611	Nov. 18	2241	499	9	1888
Davidson, William N. L., Southwick, England. Photographic-plate holder	701,306	June 3	43	9	99	2117
Davie, James, Glasgow, Scotland. Feed-water filter and heater	700,626	May 20	2943	676 677 678	99	1814
Davies, Charles G., Benton Harbor, Mich. Machine for molding bricks or blocks	700,746	May 27	3209	733 734	99	1887
Davies, Edward, Reading, Mich. Making cement fence-posts	703,644	July 1	490	111	100	96
Davies, John, Birmingham, England. Safety-door for lifts	715,464	Dec. 9	1541	334 335 336	101	2169
Davies, John L., Highbury, England. Electric-arc lamp	701,016	May 27	3723	853 854	99	1993
Davies, John R., Waukegan, Ill. Sand-molding machine	705,215	July 22	3582	774 775	100	775
Davies, Rowland, Utica, Wis. Threshing-machine	702,345	June 10	1905	485 486	99	2515
Davies, Samuel, Iola, Kans. Smelting zinc	694,947	Mar. 11	1171	256	98	1978
Davies, Thomas F., Duquesne, Pa. Rail joint and fastening	717,357	Dec. 30	3361	1165	101	3094
Davies, Thomas H., Homestead, Pa. Envelop	716,684	Dec. 23	3971	869	101	2712
Davies, Thomas W., Chicago, Ill. Shaft-tug	712,364	Oct. 28	3762	823	101	826
Davies, Usher L., et al. (See McWhorter, Milton.)						
Davies, William. (See Matthews and Davies.)						
Davis, Abraham R., Topeka, Kans. Machine for truing piston-ring bushings	705,738	July 29	4691	1015	100	1008
Davis, Adelbert S., assignor to Seneca Falls Manufacturing Company, Seneca Falls, N. Y. Drill-duck	692,988	Feb. 11	1427	310	98	1118
Davis, Albert, Independence, Kans. Detachable plowshare	713,612	Nov. 18	2244	499	101	1389
Davis, Albert D., Yonkers, assignor to F. W. Livermore, New York, N. Y. Photographic camera	702,358	June 10	1926	439	99	2520
Davis, Albert G., Schenectady, N. Y., assignor to General Electric Company. Variable-speed electric motor	713,861	Nov. 18	2696	602 603	101	1484
Davis, Albert G., Schenectady, N. Y., assignor to General Electric Company. Regenerative system	714,157	Nov. 25	3307	731 732	101	1634
Davis, Albert G., Schenectady, N. Y., assignor to General Electric Company. Train-signal system	714,866	Nov. 25	3712	817 818	101	1714
Davis, Albert G., Schenectady, N. Y., assignor to General Electric Company. Increasing the number of phases of electric currents	714,637	Nov. 25	4205	929 930	101	1811
Davis, Albert G., Schenectady, N. Y., assignor to General Electric Company. Increasing the number of phases of currents in alternating systems	714,638	Nov. 25	4207	930	101	1812
Davis, Albert G., Schenectady, N. Y., assignor to General Electric Company. Producing multiple phase currents from single-phase currents	714,639	Nov. 25	4208	931	101	1812
Davis, Albert G., Schenectady, N. Y., assignor to General Electric Company. Frequency-compensating means for electric meters	717,358	Dec. 30	3361	1165	101	3034
Davis, Albert G., Schenectady, N. Y., assignor to General Electric Company. Rotary transforming apparatus	717,359	Dec. 30	3363	1165 1166	101	3034
Davis, Albert G., Washington, D. C., assignor to General Electric Company. System of electrical distribution	714,154	Nov. 25	3299	729 730	101	1632
Davis, Albert G., Washington, D. C., assignor to General Electric Company. System of electrical distribution	714,155	Nov. 25	3302	730	101	1633
Davis, Albert G., Washington, D. C., assignor to General Electric Company. Phase-modifier and system of electrical distribution	714,156	Nov. 25	3304	730 731	101	1634
Davis, Alexander C., Lafayette, Ind. Scarecrow	697,072	Apr. 8	1318	291	99	298
Davis, Augustine, Chicago, Ill. Acetylene-gas generator	701,852	June 10	1016	227 228	99	2337
Davis, Augustine, Chicago, Ill., and P. L. Davis, Marquette, Mich. Acetylene-gas generator	705,739	July 29	4693	1015 1016	100	1009
Davis, Augustus H., assignor to one-half to J. E. Barnett, Crawfordsville, Ind. Carpet-stretcher	699,105	Apr. 29	5123	1133	99	1152
Davis, Benjamin M., Los Angeles, and C. E. Cook, Whittier, Cal. Disinfecting apparatus	714,785	Dec. 2	258	53	101	1890
Davis, Bethuel M., assignor to Advance Machine Company, Chicago, Ill. Automatic vending machine	696,011	Mar. 25	3123	705 706	98	2411
Davis, Calvin R., assignor to Oliver Chilled Plow Works, South Bend, Ind. Sprue-pin for molding-machines	695,146	Mar. 11	1559	345	98	2059
Davis, Calvin R., assignor to Oliver Chilled Plow Works, South Bend, Ind. Clamp	699,911	May 13	1530	351	99	1505
Davis, Calvin R., assignor to Oliver Chilled Plow Works, South Bend, Ind. Pattern-plate	707,397	Aug. 19	2668	601 602	100	1699
Davis, Calvin R., assignor to Oliver Chilled Plow Works, South Bend, Ind. Grinding or polishing machine	712,772	Nov. 4	564	130 131	101	1013
Davis, Calvin R., assignor to South Bend Iron Works, South Bend, Ind. Sprue for molding apparatus	695,543	Mar. 18	2260	511	98	2221
Davis, Calvin R., assignor to South Bend Iron Works, South Bend, Ind. Molding apparatus	696,551	Apr. 1	286	67	99	65
Davis, Calvin R., assignor to South Bend Iron Works, South Bend, Ind. Making pattern-plates	702,928	June 24	3017	663 664	99	2784
Davis, Calyx Drill Company. (See Davis, Francis H., assignor.)						
Davis, Charles E., assignor to one-third to H. D. Harrower, New York, N. Y. Geographical clock	693,814	Feb. 18	3019	667	98	1466
Davis, Charles E., assignor to one-third to H. D. Harrower, New York, N. Y. Geographical clock	693,953	Feb. 25	3308	727	98	1541
Davis, Charles E., assignor to one-third to H. D. Harrower, New York, N. Y. Geographical timepiece	701,583	June 10	1020	227	99	2337
Davis, Charles H., New York, N. Y. Roll mechanism	708,999	Sept. 16	1878	432	100	2396
Davis, Charles L., assignor to E. and W. H. Heuer and A. M. Beifield, Chicago, Ill. Joint for use in pneumatic apparatus	705,515	July 22	4205	914	100	899
Davis, Charles L., assignor to one-half to A. Heuer, Jr., C. A. Brown, G. L. Cragg, and A. M. Beifield, Chicago, Ill. Pneumatic motor	692,194	Jan. 28	3432	777	98	761
Davis, Charles M., Chicago, Ill. Telegraphic apparatus	707,557	Aug. 26	2972	671	100	1779
Davis, Charles M., Cambridgeport, assignor to one-half to J. S. Condinho, East Cambridge, Mass. Marine railway	696,723	Apr. 1	624	140	99	135
Davis, Charles W. (See King, Galusha A., assignor.)						
Davis, Cleland, U. S. Navy. Range-finder	691,247	Jan. 14	1631	372 373	98	355
Davis, Cleland, U. S. Navy. Golf-ball	697,816	Apr. 15	2667	592	99	598



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Davis, Cleland, U. S. Navy. Golf-ball	703,239	June 24	3622	833	99	2905
Davis, David L., Kansas City, Kans., assignor to Swift and Company, Chicago, Ill. Apparatus for washing fat	706,033	Aug. 5	58	13	100	1129
Davis, David J., Ventland, Pa. Car-coupling	710,256	Sept. 30	4387	986	100	2946
Davis, David O., Atlanta, Ga. Window-ventilator	706,905	Aug. 12	1753	392	100	1493
Davis, David R., Nemaha, Iowa. Belt-stretcher	715,998	Dec. 16	2601	574	101	2411
Davis, David W., assignor to S. R. Dixon, trustee, Detroit, Mich. Preserving frozen food products	709,751	Sept. 23	3387	760	100	2732
Davis, Earl G. (See Rundell, Albert L., assignor.)						
Davis, Edna N., Chicago, Ill. Hair-retainer	712,657	Nov. 4	367	85	101	974
Davis, Edward H., Mesa Grande, assignor to Nailless Lid Box Company, San Francisco, Cal. Package	708,696	Sept. 9	1254	286	100	2246
Davis, Edward P., assignor to Whiting & Davis, Wrentham, Mass. Bracelet or the like	704,243	July 8	1634	354	100	341
Davis, Eugene M., Dunkirk, N. Y. Bicycle-gear	697,073	Apr. 8	1319	291	99	299
Davis, Eugene N., Brookline, Mass. Swinging jointed mast-arm fixture	716,333	Dec. 16	3264	713	101	2548
Davis, Ewing O., New Geneva, Pa. Rail-joint	701,160	May 27	3972	913	99	2047
Davis, Francis H., assignor to Davis Calyx Drill Company, New York, N. Y. Boring holes in rock, &c.	694,534	Mar. 4	388	85	98	1795
Davis, Francis H., assignor to Davis Calyx Drill Company, New York, N. Y. Apparatus for boring holes in rock or similar material in the earth's strata	694,535	Mar. 4	389	85	98	1795
Davis, Francis H., assignor to Davis Calyx Drill Company, New York, N. Y. Tower. (Reissue)	11,975	Mar. 11	2047	459	98	2159
Davis, Francis H., Newburgh, and C. A. Terry, New York, N. Y. Bit	693,117	Feb. 11	1678	365	98	1170
Davis, Francis H., C. A. Terry, assignors to Davis Calyx Drill Company, New York, N. Y. Rotary drilling-machine	710,438	Oct. 7	70	16	101	16
Davis, Frank B., Audubon, Iowa. Hog-trough	697,239	Apr. 8	1594	357	99	358
Davis, Frank E., La Crosse, Wis. Seeding-machine	709,472	Sept. 23	2854	641	100	2613
Davis, Franklin P., Mobile, Ala. Combined bale-tie fastening and identification-tag	711,831	Oct. 21	2764	612	101	605
Davis, Fred D. (See Lancaster, Charles F., assignor.)						
Davis & Furber Machine Company. (See Rundlett, William D., assignor.)						
Davis, G. Howlett. (See Beach, Harry E., assignor.)						
Davis, G. Howlett. (See Clark, George P., assignor.)						
Davis, George. (See Randall and Davis.)						
Davis, George, West Kensington, England. Electric railway	690,406	Jan. 7	36	9	98	10
Davis, George, Lyons, N. Y. Device for warming bride-bits	701,161	May 27	3973	914	99	2047
Davis, George H. (See Clark and Davis.)						
Davis, George H., Orange, N. J. Burning metallic particles from paper, &c.	692,894	Feb. 11	1097	246	98	1049
Davis, George H., Brooklyn, N. Y. Apparatus for removing metallic particles from strips or webs	692,989	Feb. 11	1429	310	98	1118
Davis, George H., Brooklyn, N. Y. Stencil-printing machine	703,388	July 1	46	9	100	12
Davis, George H., Brooklyn, N. Y. Machine for forming stencils from which musical sheets are printed	703,389	July 1	48	10	100	12
Davis, George H., assignor to American Automatic Company, New York, N. Y. Musical stringed instrument	692,248	Feb. 4	57	13	98	810
Davis, George M., Burrill, Ill. Cap for vehicle-poles	714,678	Dec. 2	48	10	101	1847
Davis, George R. C., assignor to one-half to J. Champoux, Manchester, N. H. Bicycle-coupling	698,379	Feb. 18	2201	483	98	1298
Davis, Harry G., Dayton, Ohio. Hand-machine for attaching tickets to goods	715,032	Dec. 2	748	158	101	1987
Davis, Harry G., Norwalk, Conn. Bottle-capping machine	715,558	Dec. 9	1737	383	101	2207
Davis, Harry P., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Co. Resistance-coil and support therefor	710,143	Sept. 30	4177	941	100	2901
Davis, Henry J., assignor to one-half to W. H. Davis, Waynesboro, Ga. Tether	695,427	Mar. 11	2040	468	98	2157
Davis, Herman, Dayton, Nev. Extracting precious metals from their ores	692,634	Feb. 4	733		98	950
Davis, Howard W., Auburn, Cal. Mining-elevator	694,002	Feb. 25	3420	753	98	1564
Davis, Huber B., Cardington, Ohio. Cable-clip	705,391	July 22	3969	899	100	852
Davis, Irving S., Scranton, Pa. Steam-motor	708,788	Sept. 9	1378	315	100	2275
Davis, Irving S., Scranton, Pa. Boiler-feeder	712,267	Oct. 28	3596	785	101	792
Davis, Isaac, New York, N. Y. Garment	700,747	May 27	3213	734	99	1888
Davis, Isaac, New York, N. Y. Garment	700,903	May 27	3301	803	99	1946
Davis, Isaac, New York, N. Y. Garment-supporter	716,198	Dec. 16	3020	659	101	2500
Davis, Isaac H., Boston, assignor to one-half to E. D. Mellen, Cambridge, Mass. Power-transmitting device	690,641	Jan. 7	527	115	98	113
Davis, Isaac H., Boston, and E. D. Mellen, Cambridge, Mass. Igniting-plug	690,640	Jan. 7	525	115	98	112
Davis, James C. (See Doyle, Harry S., assignor.)						
Davis, James H., Chicago, Ill., assignor to American Steam Heating Specialty Company. Automatic controlling device for steam-heating systems	716,850	Dec. 23	4985	950	101	2810
Davis, John, Pittsburg, Pa. Apparatus for purifying water	704,244	July 8	1635	354	100	342
Davis, John B., Dayton, assignor to one-half to W. J. and N. B. Peters, Troy, Ohio. Bicycle attachment	704,871	July 15	2801	606	100	599
Davis, John F., et al. (See Wade, Eli G. D., assignor.)						
Davis, John H., Chicago, Ill. Drying-garment	701,546	June 3	470	106	99	2204
Davis, John N., assignor to Weston Paper and Manufacturing Company, Dayton, Ohio. Paper pad	692,990	Feb. 11	1432	310	98	1119
Davis, John S., Creek, N. C. Spoke and felly fastener	692,123	Jan. 28	3310	750	98	736
Davis, John T., San Francisco, Cal. Well-boring apparatus	701,547	June 3	474	107	99	2305
Davis, John T., San Francisco, Cal. Artificial fuel	705,216	July 22	3384		100	776
Davis, John W., Steelton, Pa. Coin-counter	715,247	Dec. 9	1144	245	101	2087
Davis, Jonathan, Phoenixville, Pa. Guide for sewing edgings	706,166	Aug. 5	323	68	100	1183
Davis, Jonathan, Phoenixville, Pa. Machine for threading tape into edgings	708,130	Dec. 2	245	58	101	2032
Davis, Katherine M., Lake Providence, La., assignor to one-half to M. T. Ruple, Cleveland, Ohio. Protective garment	715,248	Sept. 9	1147	245	101	2038
Davis, Leonard D., Erie, Pa. Piercing and shaping metallic ingots	697,988	Apr. 22	2993	659	99	684
Davis, Lewis K., Indianapolis, Ind. Protecting exposed filters or other confined liquid bodies from freezing	705,740	July 29	4697	1016	100	1010
Davis, Linford J., Battlecreek, Mich. Marking-pin	691,361	Jan. 21	1908	429	98	431
Davis, Lot, Ironton, assignor to W. G. Jacob and C. G. Shulze, Circleville, Ohio. Vehicle-wrench	710,847	Oct. 7	863	187	101	176
Davis, Mack H. (See Rosenberry, Alvin M., assignor.)						
Davis, Madison T., Jr., Charleston, W. Va. Car-wheel	706,906	Aug. 12	1754	392	100	1493

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Davis, Mark, assignor of one-half to I. Lauterstein, New York, N. Y. Apparel-cap .....	692,249	Feb. 4	61	13	98	811
Davis, Moses, <i>et al.</i> (See Gaschlin, Frederick G., assignor.) .....						
Davis, Noah, New York, N. Y., assignor to Standard Caster and Wheel Company. Caster. ....	690,792	May 13	1280	296	99	1450
Davis, Paris L. (See Davis, Augustine and P. L.) .....						
Davis, Robert and W. H., Washington, D. C., and D. C. Woodbury, Hoboken, N. J. Re- cording system .....	691,450	Jan. 21	2057	460 461	98	464
Davis, Robert I., <i>et al.</i> (See Corey, Charles W., assignor.) .....						
Davis, Robert L. (See Little, William G., assignor.) .....						
Davis & Roesch Temperature Controlling Company. (See Roesch, Alfred, assignor.) .....						
Davis, Samuel T., Jr., Ardsley-on-Hudson, assignor to "Locomobile" Company of Amer- ica, New York, N. Y. Automobile .....	705,824	July 29	4832	1049	100	1088
Davis, Simon, <i>et al.</i> (See Gaschlin, Frederick G., assignor.) .....						
Davis, Sylvester, Hawarden, Iowa. Axle-spindle cutter .....	691,845	Jan. 28	2815	681 682	98	687
Davis, Theron, New York, N. Y. Making dress-shields or other waterproof articles .....	715,573	Nov. 4	79	21	101	913
Davis, Walter A. E., Toledo, Ohio, assignor to W. H. Lidell, Brooklyn, N. Y. Trolley head and wheel .....	705,825	July 29	4834	1050	100	1088
Davis, Wilbur G., Newton, Mass. Pneumatic-carrier system .....	714,873	Dec. 2	468	99	101	1980
Davis, Wilbur G., Newton, Mass. Pressure-creating device for cash-carrier systems .....	714,874	Dec. 2	474	100	101	1981
Davis, Wilbur G., Newton Center, assignor to M. Bray, Newton, Mass. Leg or standard for furniture, &c. ....	705,653	July 29	4830	981 982	100	975
Davis, Wilbur M., Chelsea, Mass. Toilet-paper .....	714,652	Nov. 25	4233	985 986	101	1817
Davis, Wilbur M., Chelsea, Mass. Toilet-paper fixture .....	717,174	Dec. 30	5052	1095	101	2968
Davis, William, County of Middlesex, England. Chimney and ventilator .....	696,724	Apr. 1	625	140	99	135
Davis, William C. (See Hanchett and Davis.) .....						
Davis, William C., Denver, Colo. Apparatus for roasting and cooling ores .....	700,135	May 13	1951	449 450 451	99	1586
Davis, William C., Denver, Colo. Wire-rope tramway .....	711,451	Oct. 14	2018	437 438 439	101	435
Davis, William F., Milwaukee, Wis. Explosive-engine .....	694,948	Mar. 11	1172	256 257	98	1978
Davis, William H. (See Davis, Henry J., assignor.) .....						
Davis, William H. (See Davis and Woodbury.) .....						
Davis, William H. (See Hamilton, Clayton M., assignor.) .....						
Davis, William H., Beaver Meadow, Ala. Axle .....	708,466	Sept. 2	840	192	100	2151
Davis, William M., assignor to Stromberg-Carlson Telephone Manufacturing Company, Chicago, Ill. Telephone-exchange system .....	697,989	Apr. 22	2395	660	99	685
Davis, William M., assignor to Stromberg-Carlson Telephone Manufacturing Company, Chicago, Ill. Clearing-out signaling apparatus .....	697,990	Apr. 22	2398	660	99	686
Davis, William M., assignor to Stromberg-Carlson Telephone Manufacturing Company, Chicago, Ill. Multiple-switchboard telephone-exchange system .....	697,991	Apr. 23	3001	660	99	687
Davis, William M., assignor to Stromberg-Carlson Telephone Manufacturing Company, Chicago, Ill. Telephone-exchange system .....	697,992	Apr. 23	3003	660	99	687
Davis, William M., assignor to Stromberg-Carlson Telephone Manufacturing Company, Chicago, Ill. Telephone-exchange system .....	697,993	Apr. 23	3005	661	99	688
Davis, William M., assignor to Stromberg-Carlson Telephone Manufacturing Company, Chicago, Ill. Telephone system .....	715,999	Dec. 16	2022	575	101	2411
Davison, Charles W., Friendsville, Md. Riding-spur .....	701,854	June 10	1628	228	99	2387
Davison, George R. (See Cheney, Davison, and Skinner.) .....						
Davison, James W., Caryville, Mass. Device for adjusting belts to pulleys .....	697,454	Apr. 15	2014	445	99	468
Davison, John C., assignor of one-half to E. C. W. Ryland, Friendsville, Md. Wrench .....	703,898	July 1	971	212	100	194
Davison, Tom C., assignor of sixty-two and one-half per cent. to R. A. Smith, Omaha, Nebr. Railway-ticket .....	702,636	June 17	2472	568 569	99	2654
Davy, David, Sheffield, England. Raising or lowering apparatus for mines or the like .....	695,287	Mar. 11	1821	404 405	98	2111
Daw, James G., Llanelly, England. Metalliferous stamping mill or machine .....	707,673	Aug. 26	3224	723 724	100	1831
Daw, Zacharias W., London, England. Percussive rock-drill .....	706,394	Aug. 5	791	172	100	1274
Dawe, Godfrey, Eau Claire, Wis. Ironing-board .....	690,932	Jan. 14	1067	240	98	239
Dawes, John L., and W. F. Hull, Pittsburg, Pa.; said Hull assignor to said Dawes. Chip- ping glass .....	698,243	Feb. 11	1952		98	1226
Dawley, Winfield W., Geneva, Ohio. Hatch-cover .....	691,752	Jan. 28	2642	592	98	602
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers, Sons & Maxim, Limited, Westminster, England. Obturator for breech-loading ordnance .....	695,799	Mar. 18	2729	622 623	98	2316
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Sons & Maxim, Limited, Westminster, London, England. Gun-carriage .....	707,398	Aug. 19	2669	602 603	100	1699
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Sons & Maxim, Limited, Westminster, London, England. Gun-carriage .....	707,399	Aug. 19	2671	603 604	100	1700
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Sons & Maxim, Limited, Westminster, London, England. Cartridge-extractor for guns .....	708,871	Sept. 9	1623	372 373	100	2327
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Sons & Maxim, Limited, Westminster, London, England. Firing mechanism for guns .....	716,685	Dec. 23	3972	869 870 871	101	2712
Dawson, Arthur T., London, and J. Horne, Barrow-in-Furness, assignors to Vickers Sons & Maxim, Limited, Westminster, London, England. Ramming apparatus for ordnance .....	708,870	Sept. 9	1618	371 372	100	2326
Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Sons & Maxim, Limited, London, England. Ammunition-hoist for ordnance .....	709,436	Sept. 16	2762	621 622	100	2582
Dawson, Clarence L., assignor of one-half to W. H. Graham, Jacksonville, and F. Mc- Cuddy, Clinton, Ill. Universal printing-machine .....	699,496	May 6	696	161 162	99	1320
Dawson, Edward T., assignor of one-third to H. W. Pierce, Butte, Mont. Friction-gear .....	701,162	May 27	3974	914	99	2047
Dawson, Henry A. (See Dawson, Henry T. and H. A.) .....						
Dawson, Henry T. and H. A., Canterbury, England. Electrical ignition apparatus .....	701,307	June 3	44	10	99	2118
Dawson, James, Rochester, N. Y. Vehicle-frame .....	706,534	Aug. 12	1053	231	100	1343
Dawson, James B. (See Greenwalt and Dawson.) .....						
Dawson, John W., Bradford, England. Apparatus for judging the color and density of photographic negatives or like bodies .....	696,860	Apr. 1	870	201	99	184
Dawson, William F., Mangum, Okla. Oil-burner .....	715,354	Dec. 9	1345	290	101	2130
Dawson, William F., Schenectady, N. Y., assignor to General Electric Company. Means for attaching commutator-leads .....	712,046	Oct. 28	3193	698	101	712
Dawson, William F., Schenectady, N. Y., assignor to General Electric Company. Oil- guard for commutators .....	714,158	Nov. 25	3314	732 733	101	1635
Day, Alice J., Brooklyn, N. Y. Sleeve-form .....	716,199	Dec. 16	3022	659 660	101	2500



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Day, Andrew J., Exeter, South Australia, Australia. Geographical clock .....	694,256	Feb. 25	2880	861 862 863	98 1658
Day, Charles B., East Orange, N. J. Flushing apparatus .....	701,548	June 3	475	107	99 2206
Day, Charles D., Baltimore, Md. Apparatus for unloading coal .....	706,222	Aug. 5	423	90, 91	100 1202
Day, Charles H., et al. (See Marks, Joseph P., assignor.) .....					
Day, Charles M., assignor to Draper Company, Hopedale, Mass. Clutch mechanism .....	699,954	Feb. 25	3909	727	98 1541
Day, Charles M., assignor to Draper Company, Hopedale, Mass. Clutch mechanism .....	699,955	Feb. 25	3911	728	98 1542
Day, Charles M., assignor to Draper Company, Hopedale, Mass. Molding apparatus .....	697,134	Apr. 8	1417	316	99 322
Day, Charles M., assignor to Draper Company, Hopedale, Mass. Loom shipper mechanism .....	702,346	June 10	1906	436	99 2515
Day, Charles M., assignor of one-half to M. W. Walker, Maltabend, Mo. Air-pump .....	709,968	Sept. 30	3847	865 866	100 2832
Day, Charles M., and J. Anderson, Hopedale, Mass., assignors to Draper Company, Portland, Me., and Hopedale, Mass. Molding-machine .....	714,285	Nov. 25	3574	786	101 1687
Day, Elizabeth S., executrix. (See Day, Isaac W.) .....					
Day, George J., Boston, Mass. Oven-thermometer .....	693,118	Feb. 11	1679	365	98 1170
Day, Horace G., Steubenville, Ohio. Can-opener .....	701,686	June 3	735	162	99 2262
Day, Isaac W., deceased; E. S. Day, executrix, assignor, by mesne assignments, to Sanitary Coupling Company, Bridgeport, Conn. Water-closet .....	711,946	Oct. 28	3019	663 664	101 677
Day, Josiah F., New York, N. Y. Dumping-wagon .....	714,286	Nov. 25	3578	786 787	101 1687
Day, Maxwell W., Schenectady, N. Y., assignor to General Electric Company. Controlling electric motors .....	696,946	Apr. 8	1085	240	99 251
Day, Maxwell W., Schenectady, N. Y., assignor to General Electric Company. Electrical steering-gear .....	710,045	Sept. 30	3970	895 896	100 2358
Day, Maxwell W., Schenectady, N. Y., assignor to General Electric Company. Controlling electric motor .....	714,786	Dec. 2	259	53	101 1890
Day, Maxwell W., Schenectady, N. Y., assignor to General Electric Company. Controlling electric motor .....	716,200	Dec. 16	3023	660	101 2500
Day, St. John, Los Angeles, assignor to V. V. Hopkins, San Bernardino, Cal. Clothes-line prop .....	714,102	Nov. 18	3180	703	101 1587
Day, William A., Kearney, Nebr. Adding and subtracting machine .....	696,415	Apr. 1	44	10	99 13
Day, William A., Clay Center, Nebr. End-gate-rod fastener .....	696,899	Apr. 1	973	217	99 207
Day, William A., Southsea, England. Means for operating tramway or similar points from vehicles .....	697,609	Apr. 15	2282	510	99 516
Day, William H., Hounslow, England. Machine for making candles .....	694,093	Feb. 25	3388	738 739	98 1598
Daykin, Simon J., New York, N. Y. Non-refillable bottle .....	702,709	June 17	2603	599	99 2681
Dayton Electrical Manufacturing Company. (See Apple, Vincent G., assignor.) .....					
Dayton Malleable Iron Company. (See Street, Clement F., assignor.) .....					
Dayton Manufacturing Company. (See Kirby, John, Jr., assignor.) .....					
Dayton Manufacturing Company. (See Linkert, John G., assignor.) .....					
Dayton Motor Vehicle Co. (See Warner and Lonsdale, assignors.) .....					
Dayton Paper Novelty Company. (See Haas, Walter G., assignor.) (Reissue.) .....					
Dayton, Wilbur O., Chicago, Ill. Clothes-line prop .....	698,398	Apr. 22	3738	826	99 840
De Alf, Joseph R., Brooklyn, N. Y. Non-refillable bottle .....	712,183	Oct. 28	3455	757	101 761
De Baun, Edwin, Passaic, N. J. Shoe-polisher .....	702,289	June 10	1798	411	99 2495
De Brouwer, Joseph, Bruges, Belgium. Apparatus for charging retorts .....	716,201	Dec. 16	3025	660 661	101 2501
De Camp Engine Company. (See De Camp and Haas, assignors.) .....					
De Camp, George, and C. A. Haas, assignors to De Camp Engine Company, St. Louis, Mo. Engine .....	703,557	July 1	326	74	100 66
De Camp, William S., Chillicothe, Ohio. Angle-cock adjuster for air-brakes .....	696,803	Apr. 1	773	175	99 164
De Cesare, Giuseppe, assignor of one-half to G. Tuoti, New York, N. Y. Lock .....	711,040	Oct. 14	1232	268	101 270
De Cew, Cortland, assignor of one-fourth to G. Anderson, Brooklyn, N. Y. Railway-tie .....	694,257	Feb. 25	3892	863	98 1658
De Force, Mary A., Corry, Pa., assignor of two-thirds to D. Pierce and G. A. Williams, Jamestown, N. Y. Flower-stand .....	699,154	May 6	51	14	99 1186
De Ford, Isaac, Forest City, Mo. Wrench .....	713,407	Nov. 11	1827	412	101 1249
De Ford, Isaac, assignor to C. A. Jones, Forest City, Mo. Wrench .....	716,202	Dec. 16	3027	661	101 2501
De Ford, Paul F., Pasadena, Cal. Device for playing games of chance .....	693,821	Feb. 18	3085	670	98 1469
De Ford, Paul F., Pasadena, Cal. Puzzle device .....	708,558	July 1	329	73	100 66
De Forest, Lee, Chicago, and E. H. Smythe, Freeport, Ill. Wireless telegraphy .....	716,308	Dec. 16	3028	661	101 2501
De Forest, Lee, Chicago, and E. H. Smythe, Freeport, Ill. Wireless telegraphy .....	716,000	Dec. 16	2906	575	101 2412
De Forest, Lee, Jersey City, N. J., and E. H. Smythe, Chicago, Ill., assignors to Wireless Telegraph Company of America. Communicating signals through space .....	716,334	Dec. 16	3265	714	101 2548
De Forest, Louis S., New Haven, Conn. Bottle attachment .....	706,806	Aug. 12	1570	352	100 1454
De Freitas, William, New York, N. Y. Tube-clamp .....	697,330	Apr. 8	1758	394	99 394
De Groot, George F., and L. L. Thompson, Morristown, N. J., assignors of one-third to P. Farrelly, New York, N. Y. Collection-recording mechanism .....	700,019	May 13	1716	395	99 1541
De Haven, Hugh, Brooklyn, N. Y. Bale-tie .....	701,259	May 27	4148	954	99 2080
De Haven, Lewis L. (See Bender, Daniel W., assignor.) .....					
De Huff, Henry. (See Young and Ueberroth, assignors.) .....					
De Jong, Peter M., Norton County, Kans. Endless-belt conveyer .....	706,395	Aug. 5	794	173	100 1275
De Kukulierski, Gustave, Brussels, Belgium. Dyeing .....	703,122	June 24	3403	780	99 2361
De Knight, Victor P., assignor to Victor P. De Knight Gun Company, Washington, D. C. Automatic rapid-fire gun .....	698,107	Apr. 22	3219	705 706	99 732
De Knight, Victor P., assignor to Victor P. De Knight Gun Company, Washington, D. C. Automatic rapid-fire gun .....	709,880	Sept. 30	3633	821 822 823	100 2788
De Knight, Victor P., assignor to Victor P. De Knight Gun Company, Washington, D. C. Automatic rapid-fire gun .....	709,881	Sept. 30	3640	824 825	100 2790
De Knight, Victor P., assignor to Victor P. De Knight Gun Company, Washington, D. C. Automatic rapid-fire gun .....	709,882	Sept. 30	3659	826 827	100 2792
De Knight, Victor P., assignor to Victor P. De Knight Gun Company, Washington, D. C. Automatic rapid-fire gun .....	709,883	Sept. 30	3668	827 828	100 2794
De la Fresnaye, Jean. (See Combainaire and De la Fresnaye.) .....					
De la Garza, Marcos, Chihuahua, Mexico. Solar heating apparatus .....	696,326	Mar. 25	3787	844	98 2550
De la Harpe, Charles, assignor to Dye Works, formerly L. Durand Huguenin & Co., Basle, Switzerland. Leucogalloycyanin and making same .....	704,301	July 8	1741		100 366
De la Harpe, Charles, assignor to Dye Works, formerly L. Durand Huguenin & Co., Basle, Switzerland. Blue dye and making same .....	707,832	Aug. 26	3584		100 1902
De la Harpe, Charles, assignor to Dye Works, formerly L. Durand Huguenin & Co., Basle, Switzerland. Blue dye and making same .....	707,833	Aug. 26	3584		100 1902

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De La Mare, Thomas, Tooele, Utah. Axle-spindle.	697,455	Apr. 15	2015	445	90	463
De Lacy, George S., New York, N. Y. Tank for storing aerated liquids under pressure.	697,818	Apr. 15	2669	592	99	598
De Lacy, Peter, assignor to E. C. Seaman, New York, N. Y. Soda-water fountain.	695,874	Mar. 18	2866	650	98	2346
De Lamar, James, Delark, Ark. Automatic road-gate.	691,363	Jan. 21	1910	420	98	432
De Lamarter, William D., Elizabeth, and F. W. Wallace, Plainfield, N. J., assignors to Waclark Wire Company. Rod-coiling apparatus.	694,003	Feb. 25	3421	753	98	1564
De Lancey, Charles E., Newport, Pa. Garment-fastening.	708,534	Sept. 9	965	218	100	2189
De Laney, Emma, Philadelphia, Pa. Waist-lengthening device.	696,804	Apr. 1	775	176	90	164
De Lapp, Fred M., Chicago, Ill. Railway-track lubricator.	699,747	May 13	1187	376	99	1431
De Laval, George, Cambridge, and G. P. Aborn, Boston, Mass. Compensating high-duty pumping-engine.	690,969	Jan. 14	1136	257	98	253
De Laval, George, Cambridge, and C. W. Chisholm, Somerville, Mass., assignors to International Steam Pump Company, New York, N. Y. Wire-rod-straightening machine.	696,344	Mar. 25	3814	851	98	2555
De Laval, George, Cambridge, and C. W. Chisholm, Somerville, Mass., assignors to George F. Blake Manufacturing Company, New York, N. Y. Boring-machine.	708,660	July 1	524	118	100	103
De Laval Separator Company. (See Berrigan, John J., assignor.)						
De Laval Steam Turbine Company. (See Bomgren, Johan A., assignor.)						
De Laval Steam Turbine Company. (See Brunau, Sven, assignor.)						
De Laval Steam Turbine Company. (See Lindmark, Tore G. E., assignor.)						
De Laval Steam Turbine Company. (See Olsson, Georg O. M., assignor.)						
De Leeuw, Adolph L., Hamilton, Ohio. Magnetic drilling-jig.	710,257	Sept. 30	4388	987	100	2947
De Leeuw, Adolph L., assignor to Niles Tool Works Company, Hamilton, Ohio. Tool-relief for metal-planers.	713,614	Nov. 18	2248	500	101	1890
De Lery, Joseph E. (See Moran, Katherine V., assignor.)						
De Long, Charles E., Hot Springs, Ark. Single-trigger mechanism for double guns.	699,291	May 6	306	70	99	1237
De Long, George E., New York, assignor to Industrial Machine Company, Phoenix, N. Y. Motor-vehicle.	708,769	July 1	725	160	100	145
De Long, Joseph J., Brooklyn, N. Y. Shade-roller bracket.	701,164	May 27	3079	915	99	2048
De Man, Alphonse, New York, N. Y. Building-block.	701,165	May 27	3980	915	93	2048
De Man, Alphonse, New York, N. Y. Building-wall.	705,048	July 22	3216	695	100	701
De Man, Alphonse, New York, N. Y. Vaulting-machine.	709,849	Sept. 23	3549	805	100	2762
De Marais, Lemuel E., St. Paul, Minn. Toy and puzzle.	713,072	Nov. 11	1141	262	101	1147
De Mars, William O., Cleveland, Ohio. Puncture-healing composition.	699,083	Apr. 29	5085		99	1145
De May, John H., and F. Hoyland, Jr., Jackson, Mich. Car-brake.	709,884	Sept. 30	3673	828	100	2795
De Mayo, Joseph, Mount Vernon, N. Y. Coat.	699,498	May 6	702	163	99	1321
De Merell, Richard N. (See Palmer, Merritt W., assignor.)						
De Meritte, Lewis L. (See Hanson, Albert G., assignor.)						
De Meulemeester, Emile, Brussels, Belgium. Apparatus for the reception of sound-signals for nautical purposes.	701,166	May 27	3982	915	99	2049
De Meulemeester, Emile, Brussels, Belgium. Ear-trumpet.	705,218	July 22	3586	776	100	776
De Meulemeester, Emile, Brussels, Belgium, assignor to B. Müller-Rau, Frankfurt-on-the-Main, Germany. Filtering apparatus.	703,559	July 1	331	75	100	67
De Moulin, Edmund and U. S., Greenville, Ill. Dummy lung-tester.	692,251	Feb. 4	64	14	98	812
De Moulin, Edmund and U. S., Greenville, Ill. Automatic water-cooler for initiating purposes.	698,466	Apr. 29	3880	857	99	885
De Moulin, Ulysses S. (See De Moulin, Edmund and U. S.)						
De Rochemont, Perkins H., Chattanooga, Tenn. Center-iron and lap-rap.	701,168	May 27	3985	916	99	2050
De Rochemont, Perkins H., assignor to one-half to C. Herron, Chattanooga, Tenn. Singletree end iron.	695,289	Mar. 11	1828	406	98	2113
De Rochemont, Perkins H., assignor to C. Herron, Chattanooga, Tenn. Combined clip and lap-link.	701,803	June 3	927	206	99	2302
De Silra, Frank, Boston, Mass. Vestibule-directory.	708,560	July 1	1333	76	100	67
De Sollar, Herbert S., Denver, Colo. Combined shade-roller and curtain-pole holder.	706,728	Aug. 12	1396	311	100	1418
De Vilbiss, Allen, Toledo, Ohio. Atomizer.	704,780	July 15	2618	567	100	562
De Vilbiss, Allen, Jr., Toledo, Ohio, assignor, by mesne assignments, to Toledo Scale and Cash Register Company, Newark, N. J. Scale. (Reissue.)	12,029	Sept. 9	1832	422	100	2369
De Vito, John A., Boston, Mass. Flexible shaft.	715,356	Dec. 9	1349	290	101	2131
De Vito, John A., Boston, Mass. Non-refillable bottle.	716,391	Dec. 23	3394	740	101	2389
De Vos, Albert H., Chicago, Ill. Hemming and cording attachment for sewing-machines.	696,417	Apr. 1	148	10	111	34
De Voll, Charles H., Oakland, Cal. Hydrocarbon-lamp.	699,912	May 13	1531	352	99	1506
De Waldo, Alfonso G., Warren, Ohio. Guard for water-meters.	716,204	Dec. 16	3091	661	101	2502
De Wallace, Harry St., Paul, Minn. Operating device for dating or other stamps.	710,144	Sept. 30	4178	941	100	2901
De Walloff, Dayve B., Brooklyn, N. Y. Pessary.	703,392	July 22	3970	860	100	852
De Witt, Theodore F., Ovid, Mich. Fence.	692,991	Feb. 11	1433	311	98	1119
De Worth, William F., Bordentown, N. J. Clamp.	707,680	Aug. 26	3227	724	100	1832
De Wright, Richard, Saugatuck, Mich. Crate.	706,908	Aug. 12	1756	393	100	1433
De Zeng, Henry L., Jr., assignor to Cataract Tool and Optical Company, Buffalo, N. Y. Telescope-mounting for guns.	691,248	Jan. 14	1123	373	98	356
Deakin, Charles H. (See Deakin, Thomas, assignor.)						
Deakin, Thomas, Eccles, assignor to himself and C. H. Deakin, Monton, Eccles, England, Engine.	708,697	Sept. 9	1256	287	100	2247
Deakin, Ulysses G., Decatur, Ill. Folding umbrella.	717,175	Dec. 30	5053	1005	101	2968
Dean, Cyrus S., Fort Erie, Canada. Pneumatic railway-signal.	709,258	Sept. 16	2405	545	100	2507
Dean, Frederick W., Des Moines, Iowa. Handpiece for dental engines.	691,753	Jan. 28	2643	592	98	602
Dean, Harry K. (See Sargent, James F., Jr., assignor.)						
Dean, J. R. (See Honts, George W., assignor.)						
Dean, James S., and W. H. Thomas, assignors of one-half to M. Mullen, Cincinnati, Ohio. Parcel-tying device.	706,034	Aug. 5	60	13	100	1130
Dean, John, assignor of one-half to J. F. Kerr, Paterson, N. J. Driving mechanism for jacquard-machines.	691,362	Jan. 21	1909	429	98	431
Dean, John F., et al. (See Eberstein, John G., assignor.)						
Dean, Mark, Boston, Mass., assignor to Central Foundry Company, New York, N. Y. Joint for pipes, fittings, or other connections.	712,047	Oct. 28	3196	698	101	712
Dean, Maurice S., et al. (See James, Ulysses S., assignor.)						
Dean, Patrick, Second, et al. (See Rooney, Henry F., assignor.)						
Dean, Samuel, Chicago, Ill. Cabinet-scraper holder.	717,498	Dec. 30	5616	1219	101	3034
Dean, William A., Chicago, Ill. Envelop.	701,308	June 3	47	10	99	2118
Dean, William W., assignor to Western Electric Company, Chicago, Ill. Calling apparatus for telephone-lines.	692,250	Feb. 4	62	14	98	811
Dean, William W., assignor to Western Electric Company, Chicago, Ill. Toll apparatus for telephone-exchanges.	710,318	Sept. 30	4488	1012	100	2968
Dean, William W., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone hook-switch.	704,697	July 15	2466	532	100	521
Deane, Albert L., et al. (See Olsen, Feder, assignor.)						
Dear, James W., assignor of one-half to P. W. Miningan and J. Kennel, Dayton, Ohio. Car-mover.	703,337	June 24	3781	871	99	2938



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Dear, William Y., Jersey City, N. J. Machine for cutting and collating paper	704,472	July 8	2066	447 448	100	434
Dearborn, Charles A., New York, N. Y., assignor, by mesne assignments, to F. W. Lorch. Blind-stitch sewing machine	705,325	July 22	3825	829	100	823
Dearborn, Charles A., New York, N. Y., assignor, by mesne assignments, to F. W. Lorch. Feeding mechanism for sewing machines	705,326	July 22	3830	830	100	824
Deardorff, Calvin A., Washington, D. C. Garment-supporter	709,879	Sept. 30	3632	831	100	2788
Deare, Joseph H., and J. M. Leckner, assignors to American Lubricator Company, Detroit, Mich. Lubricator	711,295	Oct. 14	1742	376	101	377
Dearholt, John H. (See Geschwander and Dearholt.)						
Dearing, David M., assignor of one-half to H. W. Scott, Jackson, Mich. Antislipping device	697,135	Apr. 8	1420	316	99	322
Dearing, David M., assignor to G. S. Wood, Denver, Colo., and H. P. Dearing, Sandstone, Mich. Rotary engine	693,348	Feb. 11	2134	469	98	1265
Deaton, Henry P., et al. (See Dearing, David M., assignor.)						
Deaton, Noah G., Buford, Ga. Collar-fastener	703,046	June 24	3254	748	99	2381
Debacher, Robert R., New York, N. Y. Handle for toilet articles	714,460	Nov. 25	3881	856	101	1747
Debbs, Eduard, Blankensee, near Hamburg, assignor to H. Eckert, Munich, Germany. Ball-and-socket joint for dolls or the like	703,899	July 1	972	212	100	195
Debord, Austin H., Canon City, Colo. Hitching device	709,473	Sept. 23	2857	642	100	2613
Decarie, Felix L., Minneapolis, Minn., assignor to Decarie Manufacturing Company, Crematory. (Reissue)	12,059	Nov. 25	4240	936 937 938	101	1819
Decarie Manufacturing Company. (See Decarie, Felix L., assignor.) (Reissue.)						
Decherd, Constant K., assignor to International Silver Co., Meriden, Conn. Heat-insulator for handled vessels	713,862	Nov. 18	2697	603	101	1484
Deckard, Thomas E., Cleveland, Ohio. Photographic-printing-frame holder	711,190	Oct. 14	1561	385	101	340
Decker, Annie E., Brooklyn, N. Y. Corset	696,237	Mar. 25	3570	799	98	2503
Decker, George W., Scranton, Pa. Lubricating attachment for car-axes	701,855	June 10	1023	228	99	2338
Decker, Harrison, Columbia Falls, Mont. Wrench	698,377	Apr. 22	3711	820	99	835
Decker, John A., Millinocket, Me. Paper-pulp screen	711,041	Oct. 14	1234	269	101	270
Decker, John M., assignor of one-half to J. O. Black, N. L. Gartner, and S. R. Sibrell, Kingston, Ohio. Tire-setting machine	692,635	Feb. 4	734	169	98	50
Decker, Spencer M., Malden, Mass. Bending and cutting pliers	690,933	Jan. 14	1069	240	98	239
Deckert, Joseph O., Philadelphia, Pa., C. H. Mann, Haddonfield, N. J., and H. A. Frier, Philadelphia, Pa. Recording device	713,613	Nov. 18	2245	500	101	1389
Decrow, David A., assignor of one-half to Holly Manufacturing Company, Lockport, N. Y. Motor-engine	715,559	Dec. 9	1740	383	101	2207
Decuir, Joseph A., New Orleans, La. Bicycle-pedal	709,306	Sept. 16	2503	564	100	2528
Dedman, Bryant, assignor to L. D. Shryock, Marietta, Ohio. Device for adjustably uniting the rims and spokes of pulleys, wheels, &c.	716,872	Dec. 30	4440	963	101	2838
Dedrick, Philip H., Grandview-on-Hudson, N. Y. Fire-escape	715,560	Dec. 9	1742	385	101	2206
Deere & Company. (See Poole, Staley D., assignor.)						
Deere & Company. (See Weaver, Ira A., assignor.)						
Deere and Mansur Company. (See Barclay, James, assignor.)						
Deering Harvester Company. (See Appleby, John F., assignor.)						
Deering Harvester Company. (See Ellis, George H., assignor.)						
Deering Harvester Company. (See Kennedy, James J., assignor.) (Reissue.)						
Deering Harvester Company. (See Packer, George W., assignor.)						
Deering Harvester Company. (See Rand, Charles A. A., assignor.)						
Deering Harvester Company. (See Ryther, Frank A., assignor.)						
Deering, Isaac W., et al. (See Redding, Jerome, assignor.)						
Deering, Mark L., New York, N. Y., assignor to Standard Oil Company, Bayonne, N. J. Apparatus for shaping metal receptacles	701,549	June 3	480	107 108	99	2207
Deering, Mark L., New York, N. Y., assignor to Standard Oil Company, Bayonne, N. J. Shaping metal receptacles	701,550	June 3	488	108	99	2210
Deering, Uriah H., assignor of one-half to J. D. Olinger, Cleburne, Tex. Grave-filler	707,503	Aug. 19	2845	644	100	1737
Dees, Mark A., Mosspoint, Miss. Price-scale	693,842	Feb. 25	3080	679 680 681	98	1497
Dees, Mark A., Mosspoint, Miss. Computing-scale	693,843	Feb. 25	3086	682 683 684	98	1498
Dees, Mark A., St. Louis, Mo. Freight-car	715,355	Dec. 9	1347	290	101	2131
Deeter, Edward D., Milford, Ind. Combined air and water pump	701,163	May 27	3975	914	99	2047
Deffenbaugh, Grant G., Madisonburg, Ohio. Sliding-door latch	703,390	July 1	51	10	100	13
Defence Machine Works. (See Ensign, George A., assignor.)						
Defence Machine Works. (See Seymour, Charles, assignor.)						
Deforge, Fortunat, assignor of one-half to L. F. Thoin, Worcester, Mass. Wrench	717,083	Dec. 30	4842	1049	101	2922
Degenhard, Valentine, Lincoln, Ill. Corn-harvester	690,841	Jan. 7	904	201 202	98	191
Degerdon, Adolph. (See Biernbaum, Charles, assignor.)						
Degner, Otto, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Co., New York, N. Y. Fatty compound of iodine and sulfur and making same	696,900	Apr. 1	974		99	206
Dégrange, Claude, Lyons, France. Vehicle-wheel	693,380	Feb. 18	2203	483 484	98	1299
Deharde, Gerhard, Wiesbaden, Germany. Device for electrically connecting rails	697,817	Apr. 15	2668	592	99	598
Dehekker, John J. T., St. Louis, Mo. Valve	712,268	Oct. 28	3601	786	101	792
Dehoff, Leopold H. (See Ducat, Marnas, and Dehoff.)						
Deihl, Sylvester H., Altoona, Pa. Railway-joint	704,817	July 15	2713	587	100	581
Deiller, Martin, Newark, N. J. Tobacco stripping or stemming machine	716,627	Dec. 23	3874	846 847	101	2692
Deimel, Gustave, assignor of one-fourth to C. M. Starr, Detroit, Mich. Disinfectant-holder for water-closet bowls	715,762	Dec. 16	2115	474	101	2307
Deinlein, Karl, assignor to Skodawerke, Actiengesellschaft in Pilsen, Pilsen, Austria-Hungary. Gun-carriage	700,114	May 13	1891	439	99	1576
Deinlein, Karl, assignor to Skodawerke, Actiengesellschaft in Pilsen, Pilsen, Austria-Hungary. Gun-carriage	700,627	May 20	2045	676	99	1814
Deinlein, Karl, assignor to Skodawerke Actiengesellschaft in Pilsen, Pilsen, Austria-Hungary. Recoil apparatus for ordnance	701,801	June 3	924	206	99	2303
Deinlein, Karl, assignor to Skodawerke Actiengesellschaft in Pilsen, Pilsen, Austria-Hungary. Gun-carriage	703,900	July 1	973	212	100	195
Deinlein, Karl, assignor to Skodawerke Actiengesellschaft in Pilsen, Pilsen, Austria-Hungary. Firing-gear for ordnance	704,866	July 15	2793	603	100	598
Deis, Philip H., Washington, D. C. Pump	705,047	July 22	3213	695	100	701

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Deis, Philip H., Washington, D. C. Pump	716,890	Dec. 23	4350	944	101	2803
Deissler, Robert, Treptow, near Berlin, assignor to C. B. Schultz, Berlin, Germany. Heating metal parts. (Reissue.)	12,003	June 24	3850	-----	99	2955
Deiter, Frank B., Coudersport, Pa. Display-case	704,005	July 8	1175	256	100	249
Deitsch, Edward J., New York, N. Y. Portable jewel-case, &c.	701,309	June 3	48	10, 11	99	2118
Dejev, Johanny, Lyons, France. Hardening metals.	712,365	Oct. 28	3763	824	101	826
Del Mar, Eugene. (See Del Mar, Harry, assignor.)						
Del Mar, Harry, assignor of one-half to E. Del Mar, New York, N. Y. Tube clamping, cutting, and expanding machine.	704,520	July 15	2173	470 471	100	471
Dela Mar, Joseph, assignor of nine-tenths to S. Kaufman, New York, N. Y., G. A. Kohler, G. S., W. H., J. A. and F. W. Mayer, G. C. McDade, I. Kohler, and J. C. Heckert, York, Pa. Match-making machine.	690,905	Jan. 7	1012	228 229	98	212
Delafont, Philippe, Paris, France. Electric battery	702,544	June 17	2235	520	99	2616
Delahunty, William T., et al. (See Field, William C., assignor.)						
Delaney, Daniel W., New York, N. Y. Cushion for billiard or pool tables	711,482	Oct. 21	2088	452	101	463
Delaney, James A., Orange, Mass. Grave-marker	700,904	May 27	3508	804	99	1946
Delaney, James G., New York, N. Y., and T. S. Miller, South Orange, N. J. Conveying apparatus	694,355	Mar. 4	26	6	98	1718
Delaney, James G., New York, N. Y., and T. S. Miller, South Orange, N. J. Automatic dumping device for cableways	717,176	Dec. 30	5054	1095 405	101	2968
Delaney, James J., Shamokin, Pa. Pumping-engine	695,288	Mar. 11	1826	406	98	2112
Delaney, Thomas A. (See McCanna and Delaney.)						
Delaney, Charles E., New York, N. Y., assignor to Delanoy Safety Log Company. Apparatus for indicating, recording, and integrating the speed of vessels	691,451	Jan. 21	2062	461 462	98	465
Delanoy Safety Log Company. (See Delaney, Charles E., assignor.)						
Delany, Patrick B., South Orange, N. J. Means for handling telegraphic receiving-tapes for transatlantic	709,752	Sept. 23	3988	760	100	2722
DeLaunay, Belleville, Louis M. G., Neuilly-sur-Seine, France. Manhole-cover	713,970	Nov. 18	2931	650	101	1534
Delgrande, Antonio, Petersburg, Va. Combined detonator and catapult.	710,956	Oct. 14	1051	233	101	231
Delgrande, Antonio, assignor of two-thirds to R. H. Seabury and N. Delgrande, Petersburg, Va. Fire-cracker	692,769	Feb. 4	972	220	98	996
Delgrande, Antonio, assignor of two-thirds to R. H. Seabury and N. Delgrande, Petersburg, Va. Pyrotechnic compound	692,770	Feb. 4	974	-----	98	996
Delgrande, Nicholas, et al. (See Delgrande, Antonio, assignor.)						
Delion, Albert L., Paris, France. Hat.	708,872	Sept. 9	1624	373	100	2327
Delisle, Joseph W. (See Leclerc, Joseph C., assignor.)						
Della Torre, Frank, and D. B. Banks, Baltimore, Md. Alining, securing, and bonding of rail ends	700,994	May 27	3660	840 841	99	1977
Dellamore, Albert, Los Angeles, Cal. Waste-pipe connection for closet-bowls	699,497	May 6	701	163	99	1321
Dellinger, John, Buffalo, N. Y. Collapsible match-box	695,600	Mar. 18	2731	622	98	2317
Dellwig, Erich, San Jose, Cal. Comparator	712,658	Nov. 4	368	85	101	974
Dellwo, John. (See Ortenblad, Magnus, assignor.)						
Demarest, Cornelius T., Hackensack, N. J. Boiler-tube cleaner	697,331	Apr. 8	1759	394	99	394
Demarest, Cornelius T., Hackensack, N. J. Sad-iron handle	702,290	June 10	1799	411	99	2496
Demarest, David C., Angels Camp, Cal. Guide for stamp-stems	698,378	Apr. 22	3712	820	99	835
Demarty, John, Chicago, Ill. Wheel-gear	714,367	Nov. 25	3717	818	101	1715
Dembowski, Rudolf. (See Dudek and Dembowski.)						
Demeler, Karl. (See Eichengrün and Demeler.)						
Dement, Isaac S., Chicago, Ill., assignor, by mesne assignments, to American Mechanical Cashier Company. Combined mechanical cashier and register	700,748	May 27	3214	735 736 737 738	99	1888
Dement, Isaac S., Chicago, Ill., assignor, by mesne assignments, to American Mechanical Cashier Company. Cash-register	703,188	June 24	3528	811 812	90	2885
Dement, Isaac S., East Orange, N. J., assignor, by mesne assignments, to American Mechanical Cashier Company. Cash-receptacle for mechanical cashiers	711,619	Oct. 21	2352	514	101	518
Dement, Isaac S., Chicago, Ill., and A. D. King, Grand Rapids, Mich., assignors, by mesne assignments, to American Mechanical Cashier Company. Mechanical cashier	702,710	June 17	2605	599 600	99	2682
Dement, Isaac S., East Orange, N. J., and F. J. Hull, Brooklyn, N. Y., assignors, by mesne assignments, to American Mechanical Cashier Company. Keyboard mechanism for cash-registers	710,258	Sept. 30	4390	987 988	100	2947
Dement, Isaac S., East Orange, N. J., and F. J. Hull, Brooklyn, N. Y., assignors, by mesne assignments, to American Mechanical Cashier Company. Mechanical cashier	711,151	Oct. 14	1441	312 313	101	315
Dement, Wallace E., assignor of two-thirds to J. Marcus and M. Aronson, Blaine, Wash. Machine for placing shields in cans	717,360	Dec. 30	5365	1166	101	3095
Deming Company. (See Deming, William L., assignor.)						
Deming, Ferdinand, Waterbury, Conn. Tube-machine	710,046	Sept. 30	3974	896 897	100	2858
Deming, William J., Murphysboro, Ill. Carbon-guide for electric lamps	715,643	Dec. 9	1869	415	101	2234
Deming, William L., assignor to Deming Company, Salem, Ohio. Hydraulic ram	706,727	Aug. 12	1394	310 311	100	1418
Demorest, David L., Tacoma, Wash. Time circuit-closer	696,319	Mar. 25	3775	841	98	2548
Dempsey, James, Keating Summit, Pa. Hammer	704,006	July 8	1176	256	100	249
Dempsey, James E., Chicago, Ill. Telegraphic code	703,991	July 1	52	10	100	13
Dempsey, James T., assignor of one-half to P. W. Carey, Kansas City, Kans. Machine for preparing and laying concrete	693,844	Feb. 25	3093	684	98	1500
Dempsey, James T., assignor of one-half to P. W. Carey, Kansas City, Kans. Loading or unloading apparatus	693,845	Feb. 25	3097	685	98	1500
Dempsey, Michael E. (See Harden, Rabbe, and Dempsey.)						
Dempsey, Michael E. (See Rabbe, Harden, and Dempsey.)						
Dempster, John, and W. S. Bradley, Knoxville, Tenn. Churn	705,219	July 22	3587	776	100	776
Dempster, Mary, et al. (See Dempster, Robert, assignor.)						
Dempster, Robert, assignor to M. Dempster, H. H. Burns, and N. Morrow, Marietta, Ohio. Apparatus for the manufacture of illuminating-gas	692,771	Feb. 4	975	320 321	98	996
Dempster, Robert, assignor to M. Dempster, H. H. Burns, and N. Morrow, Marietta, Ohio. Apparatus for making oil-gas	703,901	July 1	975	312 313	100	195
Dempster, William E., assignor of one-half to C. P. Goodyear, Sr. and Jr., Brunswick, Ga. Paint-roll	706,907	Aug. 12	1755	-----	100	1493
Den, Nicholas, et al. (See Bonhorst, Harry L. von, assignor.)						
Dendick, Nelsine P., Denver, Colo. Work-holder	691,364	Jan. 21	1912	430	98	432
Deneal, Jackson, assignor of two-fifths to S. Brophy, Toledo, Ohio. Multiple-expansion steam-engine	716,523	Dec. 23	3659	799	101	2645
Denege, Edward, assignor to McCord & Company, Chicago, Ill. Spring-cushion	709,969	Sept. 30	3848	866	100	2832
Denege, William P., Philadelphia, Pa. Squeeze-roll	696,416	Apr. 1	46	10	99	13



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Denham, John E., Stanberry, Mo., assignor of one-half to J. W. Devero, Corning, Kans. Tire-setter.	717,084	Dec. 30	4843	1049	101	2922
Denhard, Augustus M., et al. (See Alz. Urban S., assignor.)						
Denhard, Frederick, et al. (See Alz. Urban S., assignor.)						
Denis, Hormisdas, Ville St. Louis, Canada. Rotary steam-engine	713,073	Nov. 11	1142	262 263 264	101	1147
Denison, Francis N., Victoria, Canada. Combined electric log and speed-recorder.	713,753	Nov. 18	2496	556	101	1444
Denison, Hugh W., Glade, Pa., assignor of one-half to J. S. Hersberger, Grantsville, Md. Automatic check-lock	709,141	Sept. 16	2170	497	100	2458
Denison, Lester C., Anaconda, Mont. Adjustable side bearing for cars	711,832	Oct. 21	2765	612	101	606
Denlinger, Benjamin E. (See Denlinger, John B., assignor.)						
Denlinger, John B., assignor of one-half to B. E. Denlinger, Union City, Ind. Band-cut-ter and feeder.	705,516	July 22	4207	1914 1915	100	899
Denman, Burt J., assignor to J. R. B. Ransom, Toledo, Ohio. Air-compressor for air-brakes	712,508	Nov. 4	81	21	101	913
Denman, Libeus M., et al. (See Tottleben, William F. A., assignor.)						
Denmead, John W. (See Palmer and Denmead.)						
Denmead, John W., Akron, Ohio. Box-making machine	713,074	Nov. 11	1148	264 265	101	1149
Dennert, Jean H. C., assignor to Dennert & Pape, Altona, Germany. Slide-rule	694,258	Feb. 25	3894	863	98	1658
Dennert & Pape. (See Dennert, Jean H. C., assignor.)						
Denney, Harmer, deceased; T. Denney, Brooklyn, N. Y., administratrix. Machinery for making tubes of paper	692,636	Feb. 4	737	1170 1171	98	950
Denney, Harmer, deceased; T. Denney, Brooklyn, N. Y., administratrix. Hydrant	695,147	Mar. 11	1560	346	98	2059
Denney, Teresa, administratrix. (See Denney, Harmer.)						
Denney, Thomas H., assignor to L. J. Whitehead, J. B. Jones, Cape Charles, and J. F. Russell, Irvington, Va. Antifouling paint	715,763	Dec. 16	2116		101	2307
Denning, Joseph N., Cedar Rapids, Iowa. Woven-wire fencing	697,074	Apr. 8	1320	292	99	299
Dennis, George G., assignor of one-half to G. A. Dolber, Manchester, N. H. Bench-plane guide	701,471	June 3	343	76	99	2180
Dennis, Henry P., A. D. Pottler, N. Y. Hemming attachment for sewing-machine	693,846	Feb. 25	3099	685	98	1501
Dennis, James, Jr., East Providence, R. I. Combined gas and air feeding attachment for gas-stoves	700,020	May 13	1721	396	99	1542
Dennis, John, Lowell, Mass. Vise	701,167	May 27	3984	916	99	2049
Dennis, Samuel K., assignor to Plano Manufacturing Company, Chicago, Ill. Harvester	712,509	Nov. 4	82	21	101	914
Dennis, Thomas. (See Hammond and Dennis.)						
Dennison Manufacturing Company. (See Mussinan, Oscar, assignor.)						
Dennison, Thomas F., Brooklyn, N. Y. Hemming attachment for sewing-machines	706,223	Aug. 5	426	91	100	1203
Denny, David W., Warrenville, S. C., assignor to Draper Company, Hopdale, Mass. Weft-fork clearer for looms	693,501	Feb. 18	2435	532	98	1347
Denny, Harrison A. (See Travis and Denny.)						
Densmore, Harry T., Knoxville, Pa. Rail-joint	693,788	Feb. 18	2966	655	98	1455
Densmore Typewriter Company. (See Barron, Walter J., assignor.)						
Densmore Typewriter Company. (See Weir, Max W., assignor.)						
Dent, Frank W., assignor of two-thirds to G. W. Swagart and B. Griffin, Waukesha, Wis. Wrench	690,407	Jan. 7	37	9	98	11
Dent, William H., New York, N. Y. Lathe attachment	697,819	Apr. 15	2671	593	99	598
Dental Protective Supply Company. (See Wilkens, John D., assignor.)						
Denton, James A., and J. H. Peas, assignors of one-third to E. C. Kirkpatrick, Johnson City, Tenn. Smokeless powder and compounding same	701,802	June 3	926		99	2302
Denton, John L., assignor of one-half to McMillin & Lively, Whitewright, Tex. Cotton-compass	707,679	Aug. 26	3225	724	100	1881
Denver Engineering Works Company. (See Cammett, Ira A., assignor.)						
Denver, Matthew R., et al. (See Mann, George R., assignor.)						
Denzel, Eugene, et al. (See Lasswell, Martin, assignor.)						
Depetro, Eugene, Paris, France. Retting ramie or similar fiber	707,907	Aug. 26	3724		100	1999
Depew, George M., Canandaigua, N. Y. Bale tie	702,929	June 24	3019	694	99	3785
Deplanty, Charles F. (See Caudry and Deplanty.)						
Deplanty, Charles F., assignor to E. W. Roessky, Coffeyville, Kans. Desk	704,473	July 8	2069	448	100	435
Depoe, Lawson S., Washington, Pa. Panel-raiser	702,711	June 17	2610	601	99	2683
Deposit Coupon Company. (See Kuehn, Paul, assignor.)						
Depue, Michael H., Washington, N. J. Reversible propeller	712,123	Oct. 28	3349	733	101	741
Derbyshire, Richard W., Dagenham, England. Tidal motor	700,408	May 20	2544	583	99	1729
Dereaucourt, Henry. (See Gimmig and Dereaucourt.)						
Deringer, Milo S., assignor of one-half to F. W. J. A. L., and E. W. Hefner, Burnsville, W. Va. Carbureter	702,637	June 17	2478	568	99	2656
Dern, Jasper L., Philadelphia, Pa. Chocolate-coating machine	691,610	Jan. 21	2346	527 528	98	522
Dernell, Frederick P. (See Eichhorn and Dernell.)						
Dernell, Herman F., Athens, N. Y. Cushion heel-plate	713,971	Nov. 18	2931	650	101	1534
Derr, Frank P., Baltimore, Md. Electric-railway construction	693,244	Feb. 11	1933	424	98	1236
Derr, George W., Philadelphia, Pa. Hernal truss	698,264	Apr. 22	3530	779	99	797
Derr, Heister C. (See Parsons and Derr.)						
Derr, William R., Baltimore, Md., assignor to M. W. Gatch, Cincinnati, Ohio. Shoe-pol-isher	693,245	Feb. 11	1954	424	98	1236
Derrick, Franklin R., Brodhead, Wis. Supplemental book-cover fastener	694,841	Mar. 4	3548	213	98	1916
Desaullès, Georges, Bourbon, France. Apparatus for purging sugar, &c	701,687	June 3	736	102 103	99	2262
Deskin, Enoch C., Moberly, Mo. Car-wheel-holding device	704,474	July 8	2071	448	100	436
Desmarais, Louis, New York, N. Y. Spirit-level	716,001	Dec. 16	2015	575	101	2415
Desmarais, Joseph, assignor to Compagnie Générale Aérohydraulique, Paris, France. Temperature-exchanging apparatus	704,818	July 15	2714	587 588	100	581
Desmond, John, assignor to William Powell Company, Cincinnati, Ohio. Steam-injec-tor	708,323	Sept. 2	603	137	100	2104
Despatre-Cousin, Albert. (See Choquet and Despatre-Cousin.)						
Désy, Louis A., assignor of one-half to M. Benoit, Montreal, Canada. Machine for un-raveling knit goods	692,195	Jan. 28	3434	778 779	98	762
Deterding, Henry F., Commerce, Mo. Pulverizing-shoe	706,729	Aug. 12	1397	311 312	100	1418
Deters, Jerome H., assignor of four-fifths to American Fire Hose Signal Company, Cin-cinnati, Ohio. Signal installation for fire-engines	711,718	Oct. 21	2540	558	101	550
Detheffs, Max, Stuttgart, Germany. Preparing make-readies or overlays for printing-presses	715,561	Dec. 9	1748	385	101	2208

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Dethloff, William L., Milwaukee, Wis. Pool-billiard table.....	691,452	Jan. 21	2066	462	98	465
Detling, Charles E., Ansonia, Ohio. Corn-harvester.....	716,390	Dec. 23	3392	740	101	2589
Detroit Composite Company. (See Schanz, William, assignor.)						
Detroit Electric Signal Company. (See Fessenden, Howard A., assignor.)						
Detroit Trolley and Manufacturing Company. (See Lidke, Otto F., assignor.)						
Detroit Trust Company, trustee. (See DeWitt, Arthur E., assignor.)						
Deibner, John W. (See Jaynes and Deibner.)						
Deibner, John W., Chicago, Ill., assignor to International Time Recording Company, Binghamton, N. Y. Time-recorder.....	698,828	Apr. 20	4627	1020 1021 1022 1023	99	1040
Deutsche Continental Gas Gesellschaft. (See Sauer, Albert, assignor.)						
Deutsche Waffen- und Munitionsfabriken. (See Brüggemann, August, assignor.)						
Deutsche Waffen- und Munitionsfabriken. (See Riebe, August, assignor.)						
Devauz, Narcisse, and H. Richard, Vonnas, France. Railway-sleeper made of metal and wood.....	695,671	Mar. 18	2500	567 568	98	2270
Devero, J. W. (See Denham, John E., assignor.)						
Deviese, John T., assignor of two-thirds to E. L. Morrison, Crownhill, J. C. Morrison and T. E. Embleton, Charleston, W. Va. Rail-bond.....	698,180	Apr. 22	3365	736	99	761
Devine, Charles E., Toledo, Ohio, assignor of one-fourth to P. H. Goodall, Indianapolis, Ind. Hook and eye.....	706,304	Aug. 5	608	132	100	1238
Devine, Charles E., Toledo, Ohio, assignor of one-fourth to O. Schroeder, New York, N. Y. Corset-clasp.....	712,773	Nov. 4	566	131	101	1014
Devine, John D. (See Dixon and Devine.)						
Devine, William P., South Boston, Mass., assignor to Consolidated Fastener Company, Portland, Me. Fastener for gloves, &c.....	601,308	Jan. 14	1772	408	98	384
Devine, William P., Boston, Mass., assignor to Consolidated Fastener Company, Portland, Me. Fastener.....	716,002	Dec. 16	2616	576	101	2415
Devlin & Co., Thomas. (See Evans, Henry O., assignor.)						
Devlin & Co., Thomas. (See Finnegan, John, assignor.)						
Devlin & Company, Thomas. (See Bussinger, William J., assignor.)						
Devlin, Walter E. (See Bennett, Dwight V., assignor.)						
Devoe, Albert H. Chicago, Ill., assignor of one-half to A. H. Simon, Jefferson County, Ky. Sewing-machine hemmer.....	691,754	Jan. 28	2645	592	98	603
Devoe, Benjamin G., Lima, Ohio. Oil-burner.....	698,467	Apr. 29	3882	857	99	885
Devoe, Benjamin G., and C. W. Dailey, Lima, Ohio. Oil-burner.....	693,502	Feb. 18	2136	532 533	98	1347
Devore, Francis M., Thompson, assignor to himself, and A. L. Hoover, Waterloo, Iowa. Cow-milker.....	700,740	May 27	3223	738	99	1800
Dewes, John, New York, N. Y. Die.....	695,544	Mar. 18	2262	511	98	2221
Dewey, Harper W. and M. B. Sidney Center, N. Y. Traceless harness.....	715,357	Dec. 9	1350	290	101	2132
Dewey, Mark B. (See Dewey, Harper W. and M. B.)						
Dewey, Stanley M., Rutherford, N. J. Calendar-blotter.....	701,169	May 27	3986	917	99	2050
Dewey, William R., trustee. (See Smith, John Y., assignor.)						
Dews, Julius N., Portsmouth, Va. Pill-making machine.....	704,867	July 15	2796	604	100	568
Dexter, Leonard W., San Jose, Cal. Elevator.....	708,626	Sept. 9	1119	251 252	100	2219
Dexter, Talbot C., Pearl River, N. Y. Sheet-calipering device.....	690,708	Jan. 7	653	143	98	138
Dexter, Talbot C., Pearl River, N. Y. Collating-machine.....	691,933	Jan. 28	2958	666 667 668 669 670	98	667
Dexter, Talbot C., Pearl River, N. Y. Automatic printing-press controller.....	699,913	May 13	1533	353 354	99	1506
Dexter, Talbot C., Pearl River, N. Y. Automatic protector for printing-presses, &c.....	705,220	July 22	3589	776 777	100	777
Dey, Frank C., Newark, N. J. Hoist elevator or hoist.....	706,305	Aug. 5	609	132 133	100	1238
Dey, Gilbert S., assignor to Gundlach Optical Company, Rochester, N. Y. Photographic shutter.....	704,781	July 15	2619	567 568	100	562
Dezell, James A., Kingston, Ala. Heating apparatus.....	690,704	Jan. 7	655	143	98	138
Di Puglia, Matteo. (See Howell, Israel G., assignor.)						
Dial, Robert E., and M. E. Garwood, Fontanet, Ind.; said Garwood assignor to said Dial. Corn-planter.....	704,622	July 15	2341	508 509	100	504
Dial, Wilbur F. (See Dimond and Dial.)						
Dial, Wilbur F., and G. H. Dimond, assignors to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Take-up for sewing-machines.....	695,915	Mar. 25	2945	667 668 669 670	98	2376
Diamant, Sigismondo, and C. Margoni, Trieste, Austria-Hungary. Liquid brake.....	712,048	Oct. 28	3197	828 829	101	712
Diamond, Edward F., Oakland, Cal. Emergency-shackle.....	696,136	Mar. 25	3388	764	98	2469
Diamond Match Company. (See Anthony, Mark, assignor.)						
Diamond Match Company. (See Bowman, Charles M., assignor.)						
Diamond Match Company. (See Palmer and Carlson, assignors.)						
Diamond Match Company. (See Palmer and Denmead, assignors.)						
Diamond Match Company. (See Wright, Jacob P., assignor.)						
Diamond Meter Company. (See Scheffer, Gustave A., assignor.)						
Diaz, Francisco R., Tampa, Fla. Implement for opening cigar-boxes.....	695,672	Mar. 18	2501	568	98	2270
Dicaire, Joseph, Alpena, Mich. Spring-wheel.....	709,142	Sept. 16	2172	497	100	2459
Dice, Andrew F., Joliet, Ill. Folding crate for poultry.....	702,411	June 17	2040	465	99	2564
Dice, Urban E., Columbus, Ohio. Ball-and-socket fastening.....	710,439	Oct. 7	74	17	101	17
Dick, Albert B., Chicago, Ill. Stencil-printing machine.....	709,885	Sept. 30	3674	829 830	100	2795
Dick, Albert B., assignor to A. B. Dick Company, Chicago, Ill. Automatic paper-feed- ing and stencil-printing apparatus.....	713,764	Dec. 16	2117	474 475	101	2307
Dick, George A., London, England, assignor to American Brass Company, Waterbury, Conn. Manufacture of various articles from copper or copper alloys.....	715,358	Dec. 9	1351	291	101	2132
Dick, Joseph, Canton, Ohio. (See Richardson, George W., assignor.)	690,934	Jan. 14	1049	210	98	240
Dick, Joseph C. F., Belvidere, Ill. Cigar-cutter.....	709,209	Sept. 16	2309	525	100	2486
Dickelman-Bowers Manufacturing Company. (See Smith, Edward H., assignor.)						
Dicken, William, Hanley, assignor, by mesne assignments, to Climax Kila Company, Limited, Burslem, England. Continuous muffle-furnace. (Reissue).....	11,998	June 3	962	214	99	2310
Dickenson, Charles, Washington, D. C. Life-bat.....	695,634	Mar. 18	2442	552	98	2258
Dickenson, Richardson W., Sioux Falls, S. D. Index-cabinet. (Reissue).....	12,011	July 15	3145	679	100	671
Dickerson, Edgar W., et al. (See Richardson, George W., assignor.)						
Dickerson, Edward N., New York, N. Y. Acetylene-gas generator.....	692,638	Feb. 4	741	171	98	951
Dickerson, Edward N., New York, N. Y. Apparatus for generating acetylene gas.....	696,418	Apr. 1	49	11	99	14



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Dickerson, Fred G., assignor of one-half to A. W. Witherell, Chicago, Ill. Tipping-machine	701,260	May 27	4149	954 955	99	2980
Dickerson, George H., and J. M. Gordon, Columbus, Ind. Molding spoke wheels and the product thereof	707,213	Aug. 19	2321	520	100	1628
Dickerson, William W., Wilson, Kans. Fastening for watch-dials	711,333	Oct. 21	2705	613	101	1646
Dickey, Alexander, Newark, N. J. Fireproof flooring	716,628	Dec. 23	3879	848	101	2634
Dickey, Andrew, Buffalo, N. Y. Tap-hole plug	714,159	Nov. 25	3315	732	101	1636
Dickey, James M. (See Smith, Luella, assignor.)						
Dickey, John T., Hoboken, N. J. Apparatus for covering flexible conduits with rubber in cement or liquid form	701,472	June 3	344	76	99	2180
Dickey, Robert B., Waco, Tex. Memorandum clip-board	690,842	Jan. 7	905	202	98	192
Dickie, William V., San Antonio, Tex. Nut-cracker	696,805	Apr. 1	776	176	99	165
Dickie, James E., Gillespie, Ill. Ratchet-wrench	710,185	Sept. 30	4256	959	100	2918
Dickie, Robert B., Kenosha, Wis. Fountain-pen	699,499	May 6	704	163	99	1321
Dickie, Robert B., Kenosha, Wis. Fountain-pen	709,307	Sept. 16	2504	564	100	2528
Dickie, Robert B., North Freedom, Wis. Fountain-pen	715,359	Dec. 9	1353	291	101	2132
Dickinson, Charles W. (See Breckenridge, Robert S., assignor.)						
Dickinson, H. L., et al. (See Williams, Joseph H., assignor.)						
Dickinson, Herbert. (See Macculloch and Dickinson.)						
Dickinson, Howell P., Hurtsboro, Ala. Tire-tightener	708,535	Sept. 9	966	219	100	2189
Dickinson, John E. T., assignor of one-half to S. Avey, Beatrice, Nebr. Heating-stove	716,990	Dec. 30	4668	1013	101	2885
Dickinson, Joseph H., Detroit, Mich. Air-pressure regulator	704,782	July 15	2826	568	100	564
Dickinson, Reuben O., et al. (See Black, William C., assignor.)						
Dickinson, William A., assignor to Sears Manufacturing Company, Newark, N. J. Toilet-paper holder	710,440	Oct. 7	76	17	101	17
Dicks, Joseph C., Winterton, N. Y. Protector for railway-switches	716,686	Dec. 29	3974	870	101	2712
Dicks, Thomas A., Wilkinsburg, Pa. Changeable-speed and reversing gear	702,980	June 24	3020	694	99	2785
Dicks, William, Beaverfalls, assignor of one-half to G. H. Blaxter, Pittsburg, Pa. Guiding device for tube-mills	693,381	Feb. 18	2204	484	98	1299
Dickson, Archibald A., Toronto, Canada. Die-block	692,992	Feb. 11	1434	311	98	1119
Dickson, Archibald A., Toronto, Canada. Disintegrating-machine	696,628	Apr. 1	425	98	99	92
Dickson, Edward S. (See Weierbach and Dickson.)	701,856	June 10	1024	228	99	2338
Dickson, George E., assignor of one-fourth to C. H. Burras, Chicago, Ill. Non-telescoping car	714,640	Nov. 25	4211	931	101	1812
Dickson, Henry, Middleboro, Mass. Collapsible wall clothes-drier	695,379	Mar. 11	1967	440	98	2142
Dickson, James D., New Brighton, N. Y. Ink-well	710,359	Sept. 30	4393	989	100	2948
Dickson, William D., Peoria, Ill. Grain-spout	708,208	Sept. 2	397	92	100	2062
Dickson, William K. L., London, England, assignor to American Mutoscope Company, New York, N. Y. Consecutive-view apparatus	695,916	Mar. 25	2961	668	98	2377
Didelon, Charles E. L., Paris, France. Device for supplying liquids	698,205	Apr. 22	3530	777	99	797
Diebel, William, Philadelphia, Pa. Differential-speed and reversing mechanism	695,673	Mar. 18	2503	568	98	2271
Diebel, William, Philadelphia, Pa. Heat-radiating device	695,674	Mar. 18	2507	569	98	2271
Diebold, Theodore A., Stuart, Iowa. Automatic bicycle-pump	709,397	Sept. 16	3091	604	100	2567
Diekman, Carl F., assignor to Spencer Lens Company, Buffalo, N. Y. Microscope	700,409	May 20	2545	588	99	1729
Diekman, Carl F., assignor to Spencer Lens Company, Buffalo, N. Y. Mechanical stage for microscopes	703,047	June 24	3258	748	99	2831
Diedreath, Charles, Stockton, Cal. Steam-boiler	712,269	Oct. 28	3601	786	101	958
Diedrich, Henry, Paris, France. Drying apparatus	698,635	Apr. 29	4212	929	99	952
Diehl, George C., and J. A. Barber, Butler, Ind. Carbureter	700,307	May 20	2352	535	99	1691
Diehl, George W. (See Holton, George J., assignor.)						
Diehl, J. Herbert. (See Hanson, Richard B., assignor.)						
Diehl, Jacob, assignor of one-half to W. H. and E. H. Schmidt, West New York, N. J. Rail-joint	694,940	Mar. 11	1177	258	98	1979
Diehl Manufacturing Company. (See Miller and Marx, assignors.)						
Diehl, Philip, Elizabeth, N. J. Sewing-machine ruffler	705,517	July 22	4211	915	100	900
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company. Take-up device for sewing machines	705,328	July 22	3841	832	100	826
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company. Compartment-box	716,008	Dec. 16	2618	576	101	2415
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company. Sewing-machine-attachment drawer	716,004	Dec. 16	2619	576	101	2415
Diehl, Philip, and M. Hemleb, Elizabeth, N. J., assignors to Singer Manufacturing Company. Rotary take-up device for sewing machines	705,221	July 22	3592	777	100	777
Diehl, Philip, and M. Hemleb, Elizabeth, N. J., assignors to Singer Manufacturing Company. Rotary take-up for sewing machines	705,327	July 22	3888	891	100	826
Dienst, Emil J., et al. (See Kolb, Max, assignor.)						
Dierdorf, John, Indianapolis, Ind. Pedal-action for pianos	712,774	Nov. 4	567	131	101	1014
Dierdorff, Henry B., assignor to J. A. Jeffrey, Columbus, Ohio. Mining-machine	700,628	May 20	2946	677	99	1815
Dierix, Albert C. (See Rankin and Dierix.)						
Dierkes, Alex., Chicago, Ill. Dish-washer	691,453	Jan. 21	2068	463	98	465
Dies, Charles A., Chicago, Ill. Manufacture of pipe-fittings	691,454	Jan. 21	2069	463	98	466
Diescher, Alfred J., Pittsburg, Pa. Apparatus for slitting and piling sheets	710,441	Oct. 7	77	17, 18	101	18
Diescher, Samuel, assignor to S. Diescher & Sons, Pittsburg, Pa. Heating-furnace	693,120	Feb. 11	1683	366	98	1170
Diescher, Samuel E., Pittsburg, Pa. Drawing tubes	693,119	Feb. 11	1681	365	98	1170
Diescher, Samuel E., Pittsburg, Pa. Shaft-coupling	701,017	May 27	3724	833	99	1993
Diescher, Samuel E., Pittsburg, Pa. Shaft-coupling, &c	701,018	May 27	3725	834	99	1993
Diescher, Samuel E., Pittsburg, Pa. Coupling for pipes, &c	701,019	May 27	3726	834	99	1994
Diescher, Samuel E., Pittsburg, Pa. Coupling for pipes, shafts, &c	701,020	May 27	3728	834	99	1994
Diescher & Sons, Samuel. (See Diescher, Samuel, assignor.)						
Diesel Motor Company of America. (See Diesel, Rudolf, assignor.)						
Diesel, Rudolf, Munich, Germany, assignor to Diesel Motor Company of America, New York, N. Y. Internal-combustion engine	708,029	Sept. 2	56	13	100	1992
Diestler, Herman. (See Jack, Robert E., assignor.)						
Dieter, Alvin A., Winchester, Mass. Collar foundation	714,461	Nov. 25	3882	857	101	1747
Dieter, Alvin A., Newton, assignor to Great Eastern Manufacturing Company, Boston, Mass. Dish-washer	694,619	Mar. 4	543	118	98	1828
Dieter, William, Brooklyn, N. Y., and H. Orum, Chicago, Ill.; said Orum assignor to I. A. O'Hara, Brooklyn, N. Y. Motor	701,857	June 10	1025	229	99	2338

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Dieterich, Fred G., Washington, D. C. Round-bale compress	704,958	July 15	8038	651 652 653	100	650
Dieterich, Karl, Helfenberg, Germany. Testing-paper and making same	691,249	Jan. 11	1636		98	356
Dieterle, John M., St. Louis, Mo. Beer-cooler	710,145	Sept. 30	4180	941	100	2002
Dieterich, Harry A. R., South Bethlehem, Pa. Steam-heating system	704,623	July 15	2344	509	100	505
Dietrich, Robert. (See Schaaß, Heinrich, assignor.)						
Dietrich, Mersburg, Germany. Treatment of waste material for use in the manufacture of paper	701,310	June 3	50	11	99	2118
Dietz, Alanson F., Altamont, N. Y. Step for vehicles	717,361	Dec. 30	5368	1166	101	3036
Dietz, Conrad, Cincinnati, Ohio. Mechanical movement	692,993	Feb. 11	1435	311 312	98	1120
Dietz, Conrad, Cincinnati, Ohio. Hinge	698,408	Apr. 29	3884	858	99	886
Dietz, John. (See Titus, Richard G., assignor.)						
Dietz, John F., Cincinnati, Ohio. Desk-leaf support	695,545	Mar. 18	2263	512	98	2222
Diggins, William T. S., assignor of one-half to A. F. Holden, Centralia, W. Va. Sawmill log-reflector	709,627	Sept. 23	3152	702 703	100	2675
Diggle, John H., Lasalle, Ill. Protecting device for induction-motors	703,902	July 1	977	213	100	196
Diguess, Samuel, Hatton, N. D. Awning	701,170	May 27	3988	917	99	2050
Dikeman, Edmund B., Chicago, Ill. Shaft or pole support	696,552	Apr. 1	288	67	99	65
Dills, James S., Provincetown, assignor of one-half to E. A. Hammond, Sandwich, Mass. Floating seine-net or weir for fishing	699,084	Apr. 29	5086	1125	99	1145
Diller, Peter. (See Klay, Gideon, assignor.)						
Dillingham, Edward, Chelsea, Mass. Attachment for handles of brooms, hoes, or like articles	695,197	Mar. 11	1643	365	98	2077
Dillon, Ivy H., assignor to Dillon Machine Company, Dallas, Tex. Angle-bending machine	716,005	Dec. 10	2620	576	101	2416
Dillon, John, New York, N. Y. Horseshoe	703,123	June 24	2405	781	99	2862
Dillon, Lybran J., assignor to J. Brown, C. L. Swanson, A. B. Shaw, and W. Burns, Chicago, Ill. Thrill-coupling	713,290	Nov. 11	1621	366	101	1244
Dillon Machine Company. (See Dillon, Ivy H., assignor.)						
Dillon, Thomas H., Leesville, La. Log-turner	699,085	Apr. 29	5087	1122	99	1145
Dillon, William S., San Francisco, Cal. Confectionery-machine	695,801	Mar. 18	2731	622	98	2317
Dilthey, Albert, Cortland, and M. F. Rock, Homer, N. Y. Door-holder	712,270	Oct. 28	3602	787	101	738
Dilworth, Robert, Philadelphia, Pa. Whiffletree-hook	713,615	Nov. 18	2250	501	101	1390
Dilworth, De Witt, et al. (See Clark, Edward B., assignor.)						
Dilworth, William P., et al. (See Clark, Edward B., assignor.)						
Dimant, Elias, et al. (See Dugins, William F., assignor.)						
Dimick, Jeremiah W., Jr., and J. Jagger, Rifton, N. Y. Warping-machine	699,615	May 6	925	215	99	1366
Dimick, Jeremiah W., Jr., and J. Jagger, Rifton, N. Y. Velvet carpet and making same	699,616	May 6	927	215	99	1367
Dimick, Jeremiah W., Jr., and J. Jagger, Rifton, N. Y. Stretching apparatus	712,510	Nov. 4	84	22	101	914
Dimond, George H. (See Dial and Dimond.)						
Dimond, George H., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Stitched seam	708,467	Sept. 2	841	192	100	2152
Dimond, George H., and W. F. Dial, assignors to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Sewing-machine cloth-presser	696,012	Mar. 25	3127	706	98	2412
Dinesman, Maurice, Paris, France. Making thymol	697,994	Apr. 22	3008		99	688
Dinger, Isaac, McKees Rocks, Pa. Steel tie for railways	690,705	Jan. 7	655	143	98	138
Dinger, Isaac, McKees Rocks, Pa. Fruit-picking device	703,770	July 1	727	161	100	146
Dingle, William G., Los Angeles, Cal. Street-sweeping machine	694,620	Mar. 4	544	119	98	1828
Dings, Alvin, Milwaukee, Wis. Magnetic separator	707,088	Aug. 19	2082	465	100	1876
Dinkelspiel, Joseph L., New York, N. Y. Fastener for garments, &c.	715,644	Dec. 9	1870	415	101	2235
Dinkelspiel, Joseph L., New York, N. Y. Fastener for gloves, &c.	715,645	Dec. 9	1871	416	101	2235
Dinsmoor, Winfield L., Portland, Oreg. Garment fastener and supporter	706,909	Aug. 12	1757	393	100	1493
Dinsmore, Clarence G., Staatsburg, N. Y. Pneumatic tire protector	690,706	Jan. 7	656	144	98	138
Dinwoody, George A., et al. (See McKee, William, assignor.)						
Dion, Albert de, and G. Bouton, Puteaux, France. Electric battery	691,611	Jan. 21	2350	528	98	523
Dion, Albert de, and G. Bouton, Puteaux, France. Variable-speed and gear-reversing mechanism for motor road-vehicles	694,842	Mar. 4	959	213 214	98	1916
Dion, Léon, Boston, Mass. Electric traction road	694,317	Feb. 25	4060	902 903	98	1686
Dion, Léon, Boston, Mass. Electric traction-road	694,843	Apr. 2	962	214	98	1916
Dippert, William E., Des Moines, Iowa. Trace-carrier	701,858	June 10	1026	229	99	2338
Dirand, Louis J., Torrington, Conn. Motor-vehicle	695,802	Mar. 18	2733	623	98	2317
Disher, George W., Knoxville, Tenn. Type-writer	716,887	Dec. 23	3975	870	101	2713
Diss, Albert B., Brooklyn, N. Y. Caster. (Reissue)	11,982	May 6	967	223	99	1374
Diss, Albert B., Brooklyn, N. Y., assignor to United States Braid Machine Manufacturing Company, Newark, N. J. Braiding-carrier	694,536	Mar. 4	390	86	98	1795
Diss, Albert B., Brooklyn, N. Y., assignor to United States Braid Machine Manufacturing Company, Newark, N. J. Braiding-machine	695,601	Mar. 18	2378	539 540	98	2246
Diss, Albert B., Brooklyn, N. Y., assignor to United States Braid Machine Manufacturing Company, Newark, N. J. Braiding-machine	696,094	Mar. 25	3293	742 743	98	2448
Ditchburn, Henry, Gravenhurst, Canada. Car-lock guard	699,667	Sept. 23	3223	719	100	2690
Ditchfield, Frank, Avalon, assignor to Pressed Steel Car Company, Pittsburg, Pa. Metal-bending machine	709,753	Sept. 23	3389	760 761	100	2723
Ditchfield, Frank, Avalon, assignor to Pressed Steel Car Company, Pittsburg, Pa. Metal-bending machine	709,754	Sept. 23	3390	761	100	2723
Ditchfield, Frank, Avalon, assignor to Pressed Steel Car Company, Pittsburg, Pa. Center-bearing for railway-cars	709,755	Sept. 23	3391	761	100	2723
Dithridge, Edward, Ellwood City, Pa. Enameling-fork for bath-tubs	700,021	May 13	1722	396	99	1542
Dittbenner, Hermann G., Minneapolis, Minn. Gear-cover and frame for live-rolls	711,947	Oct. 28	3021	664	101	677
Dittler, Friedrich W., Berlin, Germany. Apparatus for clarifying fecal matter	691,365	Jan. 21	1913	480	98	433
Dittmar, Frank E. (See Guenzel, Ernst J., assignor.)						
Dixey, John P. (See Corner, George E., assignor.)						
Dixon, Charles E. and J. E., Pittsburg, Pa. Ditching-jack	706,807	Aug. 12	1570	352	100	1455
Dixon, Charles W., assignor of one-half to T. Peacock, Pittsburg, Pa. Ceiling-block	699,914	May 13	1537	354	99	1507
Dixon, George W. (See Kendrick and Dixon.)						
Dixon, Henry L., Pittsburg, Pa. Glass-pot furnace	691,250	Jan. 14	1637	373	98	356
Dixon, Henry L., Pittsburg, Pa. Plate-glass-annealing apparatus	707,324	Aug. 26	3585	809	100	1902
Dixon, James N., Richmondale, Ohio. Dumping-wagon	695,246	Feb. 11	1855	425	98	1226
Dixon, John E. (See Dixon, Charles E. and J. E.)						
Dixon, Joseph W. and J. D. Devine, Versailles, Pa. Rail-joint	705,827	July 29	4836	1050	100	1039
Dixon, Julian T., Birmingham, Ala. Employee's wage-statement and pay-envelope	714,462	Nov. 25	3883	857	101	1747
Dixon, Laurens P., assignor to Yost-Miller Company, Toledo, Ohio. Incandescent-lamp socket	698,394	Apr. 22	3740	826	99	840



## Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume		Official Gazette.	
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Dixon, Robert M., East Orange, N. J. Valve	692,252	Feb. 4	66	14	98	813
Dixon, Robert M., East Orange, N. J. System of operating fans by power for ventilating passenger-cars	696,947	Apr. 8	1088	241	99	251
Dixon, Robert M., East Orange, N. J. Globe-support for lamps	711,296	Oct. 14	1743	377	101	378
Dixon, Robert M., East Orange, N. J. Dome-support for lamps	711,297	Oct. 14	1745	377	101	378
Dixon, Robert M., East Orange, N. J. Lamp	711,298	Oct. 14	1746	377	101	378
Dixon, Robert M., East Orange, N. J. Lamp	711,299	Oct. 14	1747	378	101	379
Dixon, Robert M., East Orange, N. J. Hose-coupling	712,775	Nov. 4	569	131	101	1014
Dixon, Sidney R., trustee. (See Davis, David W., assignor.)						
Dixon, Walter L., (See Dixon, William W. and W. L.)						
Dixon, William, Newark, N. J. Polishing-brush	696,725	Apr. 1	637	141	99	136
Dixon, William W., Boston, Mass., assignor to Reece Button Hole Machine Company, Portland, Me. Buttonhole-stitching machine	695,089	Mar. 11	1352	298	98	2015
Dixon, William W. and W. L., Boston, Mass., assignor to Reece Folding Machine Company, Portland, Me., and Boston, Mass. Machine for folding collar-blanks, &c.	694,844	Mar. 4	963	215	98	1916
Djup, Bertha, Stambaugh, Mich. Rolling-pin	705,654	July 29	4521	982	100	975
Doak, Alva S., Winchester, Ohio. Self-computing leveling-rod	716,006	Dec. 16	2621	577	101	2416
Doak, John S., Fort Worth, and A. G. Farrington, Yoakum, Tex. Boll-weevil or other insect destroyer	696,419	Apr. 1	50	11	99	14
Doan, Gerard, Union Springs, N. Y. Twyer	694,004	Feb. 25	3422	754	98	1565
Doane, Samuel E., Marlboro, Mass., assignor to Bryan-Marsh Company, New York, N. Y. Exhausting incandescent electric lamps of relatively low voltage	710,099	Sept. 30	4085	922	100	2881
Doane, Samuel E., Marlboro, Mass., assignor to Bryan-Marsh Company, New York, N. Y. Exhausting incandescent electric lamps	710,186	Sept. 30	4257	959	100	2918
Dobbins, William J., assignor of one-half to J. M. Hackney, Morris, Canada. Grain-drill	713,616	Nov. 18	2251	501	101	1390
Dobbins, Calvin S., North Bend, Nebr. Wagon-lock	690,408	Jan. 7	38	10	98	11
Dobbs, Archibald E., (See Johnston, John, assignor.)						
Doble, William H., Quincy, Mass., assignor to Pneumatic Scale Corporation, Portland, Me. Feed apparatus for weighing or packaging machines	705,222	July 22	3594	778	100	778
Doble, William H., Quincy, Mass., assignor to Pneumatic Scale Corporation, Portland, Me. Packaging-machine	708,627	Sept. 9	1122	252	100	2220
Doble, William H., Quincy, Mass., assignor to Pneumatic Scale Corporation, Portland, Me. Packaging-machine	714,875	Dec. 2	477	100	101	1932
Doble, William H., Quincy, Mass., assignor to Pneumatic Scale Corporation, Portland, Me. Packaging-machine	716,007	Dec. 16	2623	577	101	2416
Dobson, Alexander, Beaverton, assignor of one-half to W. Irwin, Toronto, Canada. Peat-press	701,311	June 3	52	11	99	2119
Dobson, Alexander, Beaverton, assignor to Peat Machinery Supply Company, Limited, Toronto, Canada. Apparatus for harvesting peat	706,535	Aug. 12	1055	232	100	1344
Dobson, John and James. (See Benham, Walter, assignor.)						
Dockett, John A., et al. (See Triance, John C., assignor.)						
Docter, Charles T., Vanwick, Ga. Grain-door attachment	705,655	July 29	4522	982	100	975
Dodd, Edwin, Adelaide, South Australia, Australia. Spring coupling-pin	710,840	Oct. 7	867	188	101	176
Dodd, George R., Anderson, S. C. Pole-hoister	695,230	Mar. 11	1829	407	98	2113
Dodd, Joseph L., assignor of one-half to U. C. McKee, Camden, N. J. Scale and gage for printers' use	691,715	Jan. 21	2535	568	98	563
Dodd, Sydney H., et al. (See Greening, Frederick, assignor.)						
Dodd, William S., Washington, Pa. Metallic railway-tie and fastener	704,783	July 15	2628	598	100	564
Dodd, Willis G., San Francisco, Cal. Ore or pulp sampler	693,690	Feb. 18	2808	617	98	1423
Dodd, Willis G., San Francisco, Cal. Ore-concentrator	694,005	Feb. 25	3425	754	98	1565
Dodd, Willis G., San Francisco, Cal. Ore-concentrator	701,859	June 10	1028	229	99	2338
Dodd, Willis G., San Francisco, Cal. Ore-concentrating table	716,205	Dec. 16	3032	662	101	2502
Doddridge, John S., et al. (See Meyer, Ralph J., assignor.)						
Doddridge, Lillian S., et al. (See Meyer, Ralph J., assignor.)						
Dodge, Arthur P., New York, N. Y. Condenser for steam-motors	711,387	Oct. 14	1904	414	101	419
Dodge, Arthur P., New York, N. Y. Locomotive	713,558	Nov. 11	2134	447	101	1350
Dodge, Charles H., et al. (See Haas, Cyrus A., assignor.)						
Dodge Coal Storage Company. (See Piez and Beaumont, assignors.)						
Dodge, Edward E. (See Heath, Clarence F., assignor.)						
Dodge, Frank, Boston, Mass. Cloth-cutting machine	698,908	Apr. 29	4806	1059	99	1087
Dodge, Frederick E., Vienna, Austria-Hungary. Writing or drawing tablet	716,629	Dec. 23	3381	848	101	2694
Dodge, James, Newark, N. J. Vise	711,948	Oct. 28	3023	664	101	672
Dodge, James M., Philadelphia, Pa., assignor to Stair Lift Company, Camden, N. J. Stair-lift	693,789	Feb. 18	2968	655	98	1455
Dodge, James M., Philadelphia, Pa., assignor to Stair Lift Company, Camden, N. J., and Philadelphia, Pa. Moving stairway. (Reissue)	12,036	Sept. 30	4632	1044	100	2996
Dodge, James M., Philadelphia, Pa., assignor to Stair Lift Company, Camden, N. J. Stair-lift	712,913	Nov. 4	848	197	101	1076
Dodge, James M., assignor to Link Belt Engineering Company, Philadelphia, Pa. Wheel or pulley	696,320	Mar. 25	3777	842	98	2548
Dodge, James M., assignor to Link Belt Engineering Company, Philadelphia, Pa. Conveyor-belt	700,308	May 20	2353	536	99	1691
Dodge, James M., assignor to Link Belt Engineering Company, Philadelphia, Pa. Discharge device for conveyers	703,903	July 1	979	213	100	196
Dodge, James M., assignor to Link Belt Engineering Company, Philadelphia, Pa. Cane-sling	705,393	July 22	3971	860	100	852
Dodge, James M., assignor to Link Belt Engineering Company, Philadelphia, Pa. Horizontal-conveyer	708,698	Sept. 9	1259	289	100	2347
Dodge, James M., assignor to Link Belt Engineering Company, Philadelphia, Pa. Endless-conveyer	708,759	Sept. 9	1382	316	100	2275
Dodge, James M., assignor to Link Belt Engineering Company, Philadelphia, Pa. Drive-chain	715,562	Dec. 9	1744	385	101	2308
Dodge, James M., and A. D. Shaw, assignors to Link Belt Engineering Company, Philadelphia, Pa. Feeding mechanism for conveyers	702,347	June 10	1908	496	99	2516
Dodge, Lemuel F., assignor to H. M. Whitehead, New York, N. Y. Gas-tubing	713,559	Nov. 11	2135	478	101	1351
Dodge, Lemuel F., assignor to H. M. Whitehead, New York, N. Y. Paper conduit	713,560	Nov. 11	2137	478	101	1351
Dodge, Lewis H., et al. (See Fowler, Rufus B., assignor.)						
Dodge, Nathaniel B., Fitchburg, Mass. Track-sander	692,253	Feb. 4	68	15	98	813
Dodge, Philip T., Washington, D. C. Type-writing machine	694,537	Mar. 4	392	86	98	1796

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Dodge, Philip T., New York, N. Y., assignor to Mergenthaler Linotype Company. Linotype-machine.	690,707	Jan. 7	657	144	98	139
Dodge, Philip T., Washington, D. C., assignor to Mergenthaler Linotype Company. Linotype-machine.	696,806	Apr. 1	777	176	99	165
Dodge, Philip T., Washington, D. C., assignor to Mergenthaler Linotype Company. Linotype-machine.	697,456	Apr. 15	2017	445	99	463
Dodge, Philip T., Washington, D. C., assignor to Mergenthaler Linotype Company. Linotype-machine.	700,022	May 13	1723	396	99	1542
Dodge, Philip T., Washington, D. C., assignor to Mergenthaler Linotype Company. Linotype-machine.	702,781	June 17	2739	630	99	2710
Dodge, Philip T., Washington, D. C., assignor to Mergenthaler Linotype Company. Linotype-machine.	702,782	June 17	2742	631	99	2710
Dodge, Philip T., Washington, D. C., assignor to Mergenthaler Linotype Company. Linotype-machine.	702,783	June 17	2744	631	99	2711
Dodge, Willie A., et al. (See Fowler, Rufus B., assignor.)						
Dodgson, Frank L., assignor, by mesne assignments, to Pneumatic Signal Company, Rochester, N. Y. Track-clearer for air-brake-setting devices.	716,873	Dec. 30	4441	963	101	2338
Dodgson, Frank L., Rochester, and M. Corrington, New York, assignors to International Pneumatic Railway Signal Company, Rochester, N. Y. Pneumatic railway switch and signal apparatus.	702,931	June 24	3024	695 696	99	2785
Dods, Henry, Virginia City, Nev. Machine for cutting material into strips for the manufacture of piston-packing.	691,612	Jan. 21	2351	528	98	523
Dods, John C., assignor to J. Green, St. Louis, Mo. Clamp for retort-mouthpieces.	703,642	Aug. 12	1243	275	100	1385
Dodson, Edwin L., Bellevue, Ky. Running-account hotel cabinet or rack.	716,991	Dec. 30	4671	1013	101	2885
Dodson, Harry E. (See Crain, Evans, and Dodson.)						
Dodson, Joseph H., et al. (See Peckham, Charles V., assignor.)						
Dodson, Roy, Dallas, assignor of one-half to H. O. Wolf, Dallas County, Tex. Horse-collar-blocking machine.	694,733	Mar. 4	765	170	98	1873
Doe, Charles R., Mount Pleasant, Iowa. Car-door fastener.	693,691	Feb. 18	2810	618	98	1423
Doebling, Louis F., Davenport, Iowa. Filling-indicator.	704,442	July 8	1999	435	100	421
Doepppe, Charles L. A. (See Millhiser and Doepppe.)						
Doering, August, Burt, assignor of three-fourths to W. K. Ferguson, E. J. Murtagh, and W. P. Jones, Algona, Iowa. Platform-scale.	693,847	Feb. 25	3101	686	98	1501
Doering, August, Burt, assignor of three-fourths to W. K. Ferguson, E. J. Murtagh, and W. P. Jones, Algona, Iowa. Platform-scale.	703,392	July 1	55	10	100	14
Doering, August F., Philadelphia, Pa. Game apparatus.	697,457	Apr. 15	2018	445	99	463
Doering, Ernst, Berlin, Germany. Box or case.	705,323	July 22	3506	778	100	778
Doering, George H., Brooklyn, N. Y. Trap fish-hook.	696,013	Mar. 25	3129	706	98	2412
Doerner, William H., and J. A. Whalen, Cumberland, Md. Car-door and grain-door combined.	697,820	Apr. 15	2672	593	99	599
Doerr, John P. (See Zimmermann and Doerr.)						
Doerr, Lawrence, East Jordan, Mich. Spraying-machine.	699,292	May 6	308	71	99	1237
Doersch, Conrad, trustee. (See Young, James A., assignor.)						
Doerschlen, Edward, Dwyer, Mo. Brake for traction-engines.	713,408	Nov. 11	1828	412	101	1289
Doggett, Reginald L. S., East Orange, N. J., assignor to Standard Varnish Works, New York, N. Y. Expandible stopper.	707,764	Aug. 26	3427	772	100	1872
Doherty, George, Boston, Mass. Ink-well.	690,843	Jan. 7	907	202	98	192
Doherty, George, Boston, Mass. Bottle-rinsing machine.	695,446	Mar. 18	2077	469 468	98	2184
Doherty, John. (See Flesche, Hall, and Doherty.)						
Doherty, Michael J., et al. (See Reynolds, Willie H., assignor.)						
Doherty, Thomas, Sarnia, Canada. Gas-engine.	706,167	Aug. 5	324	68, 69	100	1183
Doig, Emma, executrix. (See Milliken, John A., assignor.)						
Dolan, Edward J., Philadelphia, Pa. Gas-burner.	692,254	Feb. 4	69	15	98	813
Dolan, Edward J., Philadelphia, Pa., assignor, by mesne assignments, to Acetylene House Lighting Company. Acetylene-gas generator.	696,948	Apr. 8	1089	241	99	251
Dolan, James J., and E. Ester, Soudrich, Ill. Metal-bending tool.	704,581	July 15	2175	471	100	472
Dolan, John J., Jr., Baltimore, Md. Track-sanding apparatus.	704,784	July 15	2029	505	100	564
Dolbear, Clinton E., assignor to American Mining and Metal Extraction Company, Boston, Mass. Electrolytically treating ores.	709,817	Sept. 23	3519	-----	100	2751
Dolber, George A. (See Dennis, George G., assignor.)						
Doldt, John E., Providence, R. I. Map or chart case.	699,293	May 6	310	71	99	1238
Dole, S. Milo. (See Cornell, Evan W., assignor.)						
Dolen, Felix P., Sutherland Springs, Tex. Hose-coupling.	710,850	Oct. 7	868	188	101	176
Dolezalek, Friedrich, Halensee, assignor to Siemens & Halske Aktiengesellschaft, Berlin, Germany. Inductance-coil.	716,206	Dec. 16	3035	662	101	2502
Doll, Horace H., and M. H. Bostian, Camden, N. J. Automatic switch.	697,821	July 1	334	76	100	67
Doll, William, San Francisco, Cal. Fire-extinguishing device.	697,611	Apr. 15	2285	511	99	517
Dollar, William M. (See Darrin and Dollar.)						
Dollan, William M. (See Greene and Dollan.)						
Dolley, Linus. (See Church, Frank S., assignor.)						
Dollfus, Walter, assignor to Farbwärke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Blue sulfur dye and making same.	710,766	Oct. 7	706	-----	101	144
Dollison, Cordy C., assignor of one-half to G. Kull, Lancaster, Ohio. Umbrella.	711,949	Oct. 28	3026	665	101	679
Dolphin, Harold E., Cressington, near Liverpool, England. Apparatus for aerating or agitating liquids.	699,294	May 6	311	71, 72	99	1238
Doman, Lewis B., Elbridge, N. Y. Music-roll.	697,821	Apr. 15	2673	493 594	99	599
Dominick, Ambiel, and L. Krebs, New York, N. Y. Boat.	695,917	Mar. 25	2953	668	98	677
Dominy, Ezra, Frederick, S. D. Harvester.	691,846	Jan. 28	2817	632	98	638
Donaghy, Joseph F., assignor of one-half to M. E. Johnson, Coraopolis, Pa. Wire fence.	711,388	Oct. 14	1906	415	101	412
Donald, James, Collingswood, and J. Pohl, Camden, N. J. Care of live stock.	713,075	Nov. 11	1155	266	101	1150
Donald, John A., and H. L. Bussey, South Ryegate, Vt. Fruit-jar and cover.	691,396	Jan. 21	1916	490	98	493
Donaldson, Edwin, Brooklyn, assignor to International Blind Stitch Company, New York, N. Y. Sewing-machine attachment for overedge or blind stitching.	709,308	Sept. 16	2506	505	100	2528
Donaldson, James H., et al. (See Schroyer, Harry H., assignor.)						
Donaldson, James H., Chicago, Ill. Window-shade holder.	708,468	Sept. 2	841	192	100	2152
Donaldson, James H., and H. H. Schroyer, assignors to themselves and E. J. Ward Company, Chicago, Ill. Diaphragm for ear-vestibules.	695,918	Mar. 25	2953	669	98	2377
Donaldson, William R. (See Worth and Donaldson.)						
Donaldson, William R., et al. (See Rice, John V., Jr., assignor.)						
Donaldson, William R., et al. (See Worth, William O., assignor.)						
Donally, Melvin E., Brooklyn, N. Y. Oil-quenching apparatus.	696,014	Mar. 25	3132	707	98	2413



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Donat, Johannes von. (See Leps, Karl, assignor.)						
Donavin, George B., Columbus, Ohio. Locking device for combined mess-chests and ranges	692,639	Feb. 4	744	172	98	952
Doner, Martin J., assignor of one-half to J. J. Dunnivant, St. Louis, Mo. Roundabout	708,873	Sept. 9	1825	373	100	2327
Dones, Ella B., assignor of one-half to F. W. Hendley, Cincinnati, Ohio. Invalid-bed	708,332	Sept. 2	600	136	100	2104
Doney, Alfred, Pen Argyl, assignor of one-third to L. W. Morss, Scranton, Pa. Bicycle-brake	698,181	Apr. 22	3366	737	99	761
Doney, Edward D., Ovando, Mont. Hay rake and loader	709,756	Sept. 23	3392	762	100	2723
Doney, John, Pen Argyle, Pa. Feed-screw adjustment	697,332	Apr. 8	1760	394	99	391
Dönitz, Emil, assignor to Firm of C. Zeiss, Jena, Germany. Photographic shutter	709,079	Sept. 16	2053	468	100	2432
Donkers, Louis B., Antwerp, Belgium. Machine for kneading and washing margarin or other similar substances	701,473	June 3	345	76	99	2180
Donley, James F., Buffalo, N. Y. Paper basket	717,362	Dec. 30	5369	1167	101	3036
Donley, William H., Springfield, Mass. Mouthpiece for boiler-furnaces	699,500	May 6	704	163	99	1322
Donnatin, Charles E., and C. V. Greenamy, assignors to W. H. Holabird, Los Angeles, Cal. Means for connecting motors to machines	712,659	Nov. 4	369	85	101	974
Donne, Emma, Chicago, Ill., assignor, by mesne assignments, to J. M. Arnold, Pittsburgh, Pa. Machine for testing lungs	711,697	Oct. 21	2502	549	101	552
Donne, Leon, Chicago, Ill., assignor to L. and F. Ingersoll, Pittsburg, Pa. Mechanism for transferring boats	697,202	Apr. 8	1540	314	99	347
Donnell, James W., et al. (See Olsen, Peder, assignor.)						
Donnell, James W., Evanston, assignor to Hall's Safe & Lock Company, Chicago, Ill. Vault	701,688	June 3	740	163	99	2263
Donnell, Jesse F., et al. (See Meyer, Henry L., assignor.)						
Donnell, Jesse F., et al. (See Pickel, John W., assignor.)						
Donnelly, Edward P., Boston, Mass. Air-brake apparatus	704,737	July 15	2543	550	100	547
Donnelly, George, Diamond, Ind. Safety attachment for elevators	696,726	Apr. 1	628	141	99	136
Donnelly, James A. (See Serrell and Donnelly.)						
Donnelly, James A., Brooklyn, N. Y. Hot-water heating system	710,566	Oct. 7	327	71	101	66
Donnelly, James H., assignor of one-half to W. W. Ruley, Philadelphia, Pa. Side guard for cars	708,209	Sept. 2	398	92	100	2063
Donnelly, Peter J. (See Cole and Donnelly.)						
Donoghue, Jeremiah G. (See Hood, John H., assignor.)						
Donohue, James S., assignor of one-half to J. W. Whelan, Georgetown, D. C. Gas-purifier	695,875	Mar. 18	2867	650	98	2346
Donohue, James S., Washington, assignor to P. I. Moran, Georgetown, D. C. Smoke-consumer	703,048	June 24	3258	749	99	2832
Donoughe, Francis J., Gallitzin, Pa. Mechanical movement	712,366	Oct. 28	3764	824	101	826
Donovan, Alfred, assignor of two-thirds to J. and D. Myers and J. G. Pizagno, Atlantic City, N. J. Butter-cutter	699,501	May 6	706	164	99	1322
Donovan, James, assignor to Roberts Car & Wheel Company, Three Rivers, Mich. Hand-car	716,524	Dec. 23	3661	799	101	2645
Donovan, Joseph S., New York, N. Y. Game	701,171	May 27	3989	917	99	2050
Donovan, Michael J., assignor of one-third to L. M. Schlenker, Vicksburg, Miss. Draft attachment for railway-cars	700,629	May 20	2946	678	99	1815
Donovan, Oliver J., Three Rivers, Mich. Railway-velocipede	711,245	Oct. 14	1639	353	101	356
Donovan, Thomas J., and E. G. Alderson, Nashville, Tenn. Junction-sleeve for electrical conductors	695,863	Mar. 18	2841	645	98	2340
Doolan, Henry J., Washington, D. C. Carburetor	692,255	Feb. 4	71	15	98	813
Doolling, Peter, assignor of one-half to J. McEachen, Douglas, Canada. Ditching-plow	716,092	Dec. 30	4674	1014	101	2886
Doolittle, Charles A., Omaha, Nebr., assignor, by mesne assignments, of one-half to F. E. Snider, Can. Cover-fastening for fruit-jars or similar vessels. (Reissue)	715,093	Dec. 2	750	159	101	1988
Doolittle, Irvin P., assignor of one-half to E. Coste and G. Ritchie, Toronto, Canada. Cover-fastening for fruit-jars or similar vessels. (Reissue)	12,065	Dec. 23	4387	951	101	2810
Doolittle, James E., Bridgeport, Conn., assignor to Birdsey and Somers, Bridgeport, Conn., and New York, N. Y. Corset	704,007	July 8	1177	256	100	250
Doore, Allen J. (See Doore, George W. and A. J.)						
Doore, George W., Dover, Me., and A. J. Doore, Greene, Iowa; said A. J. Doore assignor to said George W. Doore. Paint	704,959	July 15	3041		100	650
Dopheide, Frank E., Palmyra, Ill. Jar-closure	702,412	June 17	2041	465	99	2564
Doppelmayer, Louis, Valverde, and M. Weber, Denver, Colo. Celery-bunching device	706,643	Aug. 12	1244	275	100	1385
Doran, Christopher J., Jersey City, N. J. Electric switch	711,246	Oct. 14	1640	353	101	356
Doran, Harry G., Brooklyn, N. Y. Combined crib and table	704,413	July 8	2000	435	100	421
Doran, James A., Pawtucket, R. I. Badge-button	713,076	Nov. 11	1157	266	101	1151
Doremus, James M. (See Beebe, William, assignor.)						
Doremus, Willard D., Washington, D. C. Car-seal	691,716	Jan. 21	2537	568	98	563
Dorer, Charles H., et al. (See Penty and Eulard, assignors.)						
Dorey, James, Seattle, Wash. Hod	714,297	Nov. 25	3580	787	101	1688
Döring, Albert, assignor to Aktiengesellschaft, vormals Seidel & Naumann, Dresden, Saxony, Germany. Bobbin holder-case for sewing-machines	709,886	Sept. 30	3679	820	100	2706
Dorland, W. A. N. (See Ritter, Isaac, Jr., assignor.)						
Dorland, William A. N., Philadelphia, Pa. Automatic switch-controller	692,050	Jan. 28	3182	717	98	710
Dorman, William S., New York, N. Y. Machine for sealing bottles	705,564	July 29	4365	946	100	945
Dorman, William S., Brooklyn, N. Y., assignor to H. F. Turner, Baltimore, Md. Stopper or seal for bottles	716,392	Dec. 23	3395	741	101	2389
Dormandy, Garry J., Lansingsburg, assignor to United Shirt and Collar Company, Troy, N. Y. Machine for folding collar-blanks, &c.	708,030	Sept. 2	58	14, 15	100	1903
Dormandy, Garry J., Lansingsburg, assignor to United Shirt and Collar Company, Troy, N. Y. Machine for folding collar-blanks, &c.	714,787	Dec. 2	203	53	101	1891
Dormandy, Garry J., Lansingsburg, N. Y., assignor to United Shirt and Collar Company, Machine for folding collar-blanks, &c.	714,788	Dec. 2	272	57	101	1892
Dorn, Christian, assignor to C. Rath, Philadelphia, Pa. Bottle-stopper	715,765	Dec. 16	2123	475	101	2309
Dorn, Edward H. (See Hopkins and Dorn.)						
Dorn, Johann, Spital-on-the-Pyhrn, Austria-Hungary. Water-gage	697,995	Apr. 22	3008	661	99	688
Dorn, Rufus H., Los Angeles, Cal. Miter-box	697,203	Apr. 8	1541	345	99	347
Dornan, Thomas B., Philadelphia, Pa. Woven pile fabric	696,015	Mar. 25	3133	707	98	2413
Dornblaser, Arthur S. (See Segner, Harry H. and C. B., assignors.)						
Dorner, Henry A., assignor to Dorner Truck & Foundry Co., Logansport, Ind. Car-truck	705,049	July 22	3217	695	100	701

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Dorner, Peter. (See Monehan and Dorner.)						
Dorner Truck & Foundry Co. (See Dorner, Henry A., assignor.)						
Dornfeld, John F., Milwaukee, Wis. Malt-kiln	693,121	Feb. 11	1084	367	98	1171
Dornfeld, John F., Chicago, Ill. Malting-drum	715,465	Dec. 9	1543	335	101	2169
Dorough, Walter P., et al. (See McLaughlin, James A., assignor.)						
Dorpmüller, Heinrich, Aix-la-Chapelle, Germany. Device for preventing the creeping of rails	716,207	Dec. 16	3387	662	101	2543
Dorr, Andrew M., and J. Spang, Boston, Mass., assignors to Chemical and Electrical Ore Reducing Company, of West Virginia. Treating ores	699,456	May 6	631	144	99	1306
Dorr, Andrew M., and J. Spang, Boston, Mass., assignors to Chemical and Electrical Ore Reducing Company, of West Virginia. Apparatus for treating ores	699,457	May 6	634	144	99	1307
Dörr, Carl T., Ohliges, assignor to F. Krupp, Essen, Germany. Ordnance powder-bag	707,401	Aug. 19	2675	583	100	1701
Dörr, Clemens, Gernersheim, Germany. Production of solid materials from tar, &c.	691,934	Jan. 28	2661	583	98	668
Dörr, Clemens, Cologne, Germany. Utilizing carboniferous colliery waste	703,696	July 1	601	100	119	
Dorrestein, C. A., administrator. (See Allison, Samuel B.)						
Dorrestein, C. A., administrator. (See Allison, Samuel B. and M. E.)						
Dorrestein, C. A., administrator, et al. (See Morrell, James A., assignor.)						
Dorries, Herman A., assignor of one-half to J. T. Pace, Breese, Ill. Muzzle	713,617	Nov. 18	2254	501	101	1391
Dorris, George P., St. Louis, Mo. Transmission-gear for automobiles	707,400	Aug. 19	2673	604	100	1700
Dorris, George P., assignor of one-half to St. Louis Motor Carriage Co., St. Louis, Mo. Automobile	698,900	Apr. 29	4808	1060	99	1087
Dorsemanen, Alfred, Wesel, Germany. Working zinc and substances containing silicic acid in electric furnaces	716,008	Dec. 16	2630	579	101	2417
Dorsey, Charles J., Baltimore, Md. Plural-fuse cut-out	700,410	May 20	2547	584	99	1730
Dorsey, Charles J., assignor of one-half to J. Felsenstein, Baltimore, Md. Plural-fuse cut-out	694,912	Mar. 4	1104	243	98	1945
Dorsey, Charles J., assignor to H. S. Dulaney, Baltimore, Md. Horseshoe game-board	711,493	Oct. 21	2089	452	101	463
Dorsey, Charles J., Baltimore, Md., assignor to Acme Fuse Box Company. Plural-fuse cut-out	697,935	Apr. 15	2883	635	99	643
Dorsey, John S., Langdon, D. C. Garment-supporter	693,122	Feb. 11	1687	367	98	1171
Dorticus, Clatonia J., Newton, N. J., assignor to Dorticus Manufacturing Co. Photograph-burnisher	709,757	Sept. 23	3395	763	100	2724
Dorticus Manufacturing Co. (See Dorticus, Clatonia J., assignor.)						
Dorton, John M. (See Joy and Dorton.)						
Dosch, Peter, Yonkers, N. Y. Sash-cord pulley	709,000	Sept. 16	1880	432	100	2396
Dossey, William J., Rhome, Tex. Apparatus for cooling water	709,587	Sept. 30	3680	830	100	2796
Dostál Ferdinand, New York, N. Y. Trimming or binding for pocket-books, &c.	711,834	Oct. 21	2767	613	101	606
Dotts, Hiram S., Thoburn, assignor of one-half to J. C. Nay, Monongah, W. Va. Egg-opener	696,016	Mar. 25	3135	707	98	2412
Doty, Alphonso H., Owatonna, Minn. Match-box holder	699,666	May 13	1034	241	99	1402
Doty, Latimer B. (See Frankel, Aaron, assignor.)						
Doty, Monroe, et al. (See Hemphill, Henry B., assignor.)						
Doty, Walter G., Middletown, Ohio. Cheese-cutter	710,672	Oct. 7	528	110	101	107
Doublat, Charles, assignor to F. Strobel & Sons, New York, N. Y. Garment-rack	715,563	Dec. 9	1745	386	101	2308
Doud, Charles A., La Crosse, Wis. Banana-crate	694,845	Mar. 4	972	216	98	1919
Doud, Charles A., and C. B. Shouse, assignors to Western Banana Crate Manufacturing Company, La Crosse, Wis. Banana-crate	710,353	Sept. 30	458	1026	100	2981
Dougan, David W., and F. C. Watson, Philadelphia, Pa. Stuffing-box for piston-rods	706,536	Aug. 12	1057	232	100	1344
Douge, Jules, Paris, France. Preparation of collodion for the manufacture of artificial silk	699,155	May 6	52	99	1186	
Dougherty, Charles E., et al. (See MacCallum, John, Jr., assignor.)						
Dougherty, Edward G., Elgin, Ill. Printers' furniture	700,750	May 27	3225	738	99	1890
Dougherty, Harry L. (See Lippard, William A., assignor.)						
Dougherty, John W., Steelton, Pa. Mechanical stirrer or poker for gas-producers	696,420	Apr. 1	52	12	99	15
Dougherty, Stephen O., Toronto, Ohio. Rail-joint	716,831	Dec. 23	4352	944	101	2803
Dougherty, William H., New York, N. Y., assignor to American Motor and Power Company, Jersey City, N. J. Rotary engine	697,398	Apr. 8	1894	423	99	422
Douglas, Heman F. (See Snyder, William J., assignor.)						
Douglas, Henry W. (See Henning, Abel, assignor.)						
Douglas, John, and V. Hansen, Elizabeth, N. J., assignors to Singer Manufacturing Company. Sewing-machine ruffler or gatherer	703,049	June 24	3259	749	99	2832
Douglas, Nathan, Cambridge, Mass. Garment-holder	709,970	Sept. 30	3350	866	100	2833
Douglas, Peyton, assignor to P. W. Ward and A. B. Collingbourne, Cleveland, Ohio. Garment-supporter	701,998	June 10	1289	294	99	2390
Douglas, Stephen A., Leavenworth, and M. Alcorn, Leavenworth County, Kans. Railway-switch	702,545	June 17	2286	520	99	2616
Douglas, William D., Chicago, Ill. Air-freeding device	707,053	Aug. 12	2007	449	100	1544
Douglas, William H., Washington, D. C. Cock or faucet	704,522	July 15	2177	471	100	472
Douglass, Benjamin F., St. Louis, Mo. Screen hanger and lock	715,034	Dec. 2	732	159	101	1988
Douillet, Edouard, La Garenne-Colombes, France. Refining oils	700,181	May 20	2084	476	99	1637
Douillet, Edouard, La Garenne-Colombes, France. Apparatus for refining oils	707,960	Aug. 26	3811	856	100	1947
Doutt, Charles W., et al. (See Gahagan, Arthur B., assignor.)						
Dover, George W., Cranston, R. I. Pin	711,152	Oct. 14	1444	313	101	315
Dover, George W., Cranston, R. I., assignor to George W. Dover Company. Pin	706,168	Aug. 5	325	69	100	1183
Dover, Horace W., Northampton, England. Covering electric conductors and making cables	699,458	May 6	635	145	99	1307
Dover, Horace W., Northampton, England. Apparatus for insulating or covering strands and forming same into cables	699,459	May 6	637	147	99	1307
Dovey, George J. (See Head and Dovey.)						
Dow, Albert N., Exeter, N. H. Necktie-fastener	701,172	May 27	3991	918	99	2051
Dow Chemical Company. (See Dow, Herbert H., assignor.)						
Dow, Daniel, Grand Forks, N. D. Pneumatic stacker	696,553	Apr. 1	289	68	99	65
Dow, Herbert H., Midland, Mich. Apparatus for the prevention of sparking and arcing in electric circuits	692,432	Feb. 4	868	91	98	876
Dow, Herbert H., Midland, Mich. Means for generating counter electromotive force	707,835	Aug. 26	3586	809	100	1902
Dow, Herbert H., assignor to Dow Chemical Company, Midland, Mich. Extracting bromine from brine	714,160	Nov. 25	3319	732	101	1636
Dow, Josiah, Philadelphia, Pa. Rotating-piston engine	697,075	Apr. 8	1321	292	99	299
Dow, Samuel W., Mallard, Iowa. Sand-screen	697,076	Apr. 8	1322	294	99	301



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Dow and Snell Company. (See Kessler, Edward J., assignor.)						
Dowagiac Manufacturing Company. (See Brown, William F., assignor.)						
Dowd, John B., et al. (See Meyer, Ralph J., assignor.)						
Dowden, Ashford T., assignor to Dowden Manufacturing Company, Prairie City, Iowa. Portable chair-swing	704,523	July 15	2179	472	100	472
Dowden Manufacturing Company. (See Dowden, Ashford T., assignor.)						
Dowell, Arthur E., Washington, D. C., assignor to Duplex Printing Press Company, Battlecreek, Mich. Printing-press	694,846	Mar. 4	973	217	98	1919
Dowell, Arthur E., Washington, D. C., assignor, by mesne assignments, to Detroit Trust Company, trustee, Detroit, Mich. Printing-press	702,546	June 17	2287	521	99	2616
Dowell, Arthur E., Washington, D. C., and W. B. McHenry, Pittsburg, Pa. Drier and kiln	700,482	May 20	2690	616	99	1760
Down, Archibald P., German Valley, N. J. Machine for forming covers	712,660	Nov. 4	371	86	101	975
Down, Ernest U., Haskins, assignor of one-fourth to A. C. Beil, Waterville, Ohio. Valve for engines	705,224	July 22	3597	779	100	778
Downard, Byron B., Milwaukee, Wis. Key-fastener	706,537	Aug. 12	1059	293	100	1345
Downer, Benjamin J. (See Fisher, Harvey L., assignor.)						
Downer, John H., Allenport, Pa. Adjustable ice-creper	710,167	Sept. 30	4259	960	100	2918
Downes, Henry P. (See Murphy, Barney, assignor.)						
Downes, Louis W., Providence, R. I. Electric snap-switch	708,211	Sept. 2	401	93	100	3063
Downes, Louis W., Providence, R. I. Manufacturing electrical conductors	709,041	Sept. 16	1831	433	100	2396
Downey, Clement L., Cincinnati, Ohio. Addressing attachment for type-writers	698,469	Apr. 29	3885	858	99	886
Downey, Edward, New York, N. Y. Gas-burner tip	715,093	Dec. 2	753	159	101	1988
Downey, Richard F., assignor to Automatic Portable Bowling Alley Company, Menominee, Mich. Game-table	693,382	Feb. 18	2205	484	98	1299
Downey, Richard F., assignor to Automatic Portable Bowling Alley Company, Menominee, Mich. Cushion for game-tables	694,463	Mar. 4	240	52	98	1763
Downey, Richard F., Milwaukee, Wis., assignor to Automatic Portable Bowling Alley Company, Menominee, Mich. Hand-ball	700,411	May 20	2549	584	99	1730
Downey, Richard F., Milwaukee, Wis., assignor to Automatic Portable Bowling Alley Company, Menominee, Mich. Bowling-alley	715,202	Dec. 2	1059	298	101	2053
Downie, Robert M., assignor to Keystone Driller Company, Beaverfalls, Pa. Drilling-machine	700,678	May 20	3022	692	99	1831
Downie, Robert M., and D. A. Messner, assignors to Keystone Driller Company, Beaverfalls, Pa. Drilling-machine	711,557	Oct. 21	2325	1485	101	494
Downie, William, Detroit, assignor, by mesne assignments, to Stimpson Credit Register Company, Battlecreek, Mich. Paper-file	710,442	Oct. 7	79	18	101	18
Downing & Co., C. J. (See Rice, Vieta L., assignor.)						
Downing, Horatio E., Reeding, Okla. Ter. Animal-poke	709,474	Sept. 23	2858	642	100	2613
Downing, James M., Mount Pulaski, Ill. Clothes-rack	716,393	Dec. 23	3396	741	101	2589
Downs, Duncan, and D. W. Draper, West Superior, Wis. Grain-car door	696,561	Apr. 1	871	201	99	184
Downs, Edgar S., New Haven, Conn., assignor of one-half to C. S. McLean, Rochester, N. Y. Carbonometer	690,409	Jan. 7	39	10	98	11
Downs, Wallace A. (See Cole, William L., assignor.)						
Downs, William, Orange, N. J. Fuel-economizer feed-water heater	708,099	Sept. 9	1261	289	100	2248
Downs, William F., Jersey City, N. J. Lubricant and making same	697,996	Apr. 22	3010		99	689
Downs, William F., Jersey City, N. J. Treating rebellious ores of the precious metals	707,214	Aug. 19	2924		100	1628
Downs, William H. (See Bickford, Faten, and Downs.)						
Dowse, William B. H., Newton, Mass. Fastener	707,054	Aug. 12	2010	450	100	1544
Dowse, William B. H., Newton, Mass. Fastener	716,394	Dec. 23	3397	741	101	2590
Dowse, William B. H., Newton, Mass., assignor to Consolidated Fastener Company, Portland, Me. Fastener						
Dowsing, Herbert J., London, England. Electric lamp and lamp-holder	707,504	Aug. 19	2948	645	100	1788
Dowsling, George B., Hamilton, Canada. Washing-machine	697,458	Apr. 15	2019	446	99	464
Doyen, Denis, Brussels, Belgium. Collapsible or folding bridge	690,410	Jan. 7	42	10	98	12
Doyle, Dayton A. (See Boylan, Michael, assignor.)	713,561	Nov. 11	2139	478	101	1351
Doyle, Harry S., assignor of one-half to J. C. Davis, St. Louis, Mo. Trolley-harp	715,036	Dec. 2	753	160	101	1988
Doyle, Henry. (See Jones, William T., assignor.)						
Doyle, James M., Denver, Colo. Safety device for blasting purposes	701,173	May 27	3992	918	99	2051
Doyle, John, Grand Rapids, and G. H. Kimball, Detroit, assignors of one-third to W. J. McWain, Saginaw, Mich. Railway-tie	706,808	Aug. 12	1572	352	100	1455
Doyle, John F., Philadelphia, Pa. Faucet for dispensing beverages and filling siphon-bottles	714,161	Nov. 25	3322	733	101	1696
Doyle, Michael. (See Drum and Doyle.)						
Doyle, Michael, Rochester, and F. Gebbie, St. Johnsville, N. Y. Can-capping machine	701,021	May 27	3728	854	99	1994
Doyle, Michael F., Scranton, Pa. Carpenter's tool	707,307	Aug. 19	2497	561	100	1664
Doyle, Michael J. (See Alvord, Elmer S., assignor.)						
Doyle, Peter J., Stamford, Conn. Cooler for liquids	691,613	Jan. 21	2353	529	98	523
Doyle, William D., Penn. N. D. Harrow	711,950	Oct. 28	3027	665	101	679
Dr. Paul Meyer Actiengesellschaft. (See Jahnz, Erwin H., assignor.)						
Drake, Alson L., New York, N. Y. Fastening device	698,470	Apr. 29	3889	858	99	887
Drake, Charles E., Corning, N. Y. Acetylene-gas generator	697,612	Apr. 15	2288	511	99	518
Drake, Chester T., Chicago, Ill. Hopper-bottom for mixers or the like	698,182	Apr. 22	3368	737	99	792
Drake, Chester T., Chicago, Ill. Conveyor attachment for mixing-machines or the like	698,910	Apr. 29	4809	1060	99	1087
Drake, Chester T., Chicago, Ill. Drawing mechanism for mixing-machine vehicles or the like	699,667	May 13	1035	241	99	1402
Drake, Chester T., Chicago, Ill. Apparatus for mixing concrete	699,668	May 13	1037	242	99	1402
Drake, Chester T., Chicago, Ill. Conveyor for mixing-machines or the like	701,312	June 3	55	11, 12	99	2120
Drake, John A., Halifax, England. Regenerative furnace	717,177	Dec. 30	5056	1096	101	2969
Drake, Julian F., Holly, Minn. Detachable boiler-flue	696,421	Apr. 1	54	13	99	15
Drake, Julian F., Tracy, Minn. Detachable boiler-flue	698,471	Apr. 29	3890	859	99	887
Drake, William H., Hackettstown, N. J. Furnace	712,271	Oct. 28	3604	788	101	793
Drake, William H., Chicago, Ill. Building construction	714,876	Dec. 2	483	102	101	1933
Drake, Zachariah E., and J. C. Semple, Modesto, Cal. Fly-trap	690,566	Jan. 7	382	79	98	83
Drandt, Howard A. (See Schmid and Drandt.)						
Draper, Alexander T., assignor of five-sixths to C. H. Simmons and M. H. Lambert, New Haven, Conn. Shoemaker's jack	698,636	Apr. 29	4213	930	99	952
Draper, Clare H., assignor to Draper Company, Hopedale, Mass. Shuttle-checking means for looms	692,835	Feb. 11	1099	246	98	1049
Draper, Clare H., assignor to Draper Company, Hopedale, Mass. Shuttle-checking mechanism for looms	705,911	July 29	4991	1086	100	1070
Draper, Clare H., assignor to Draper Company, Hopedale, Mass. Warp-stop-motion for looms	708,536	Sept. 9	968	219	100	2189

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Draper, Clare H., and E. S. Stimpson, assignors to Draper Company, Hopedale, Mass. Filling-replenishing mechanism for looms	605,040	Mar. 11	1358	298 299	98	2016
Draper Company. (See Anderson, John, assignor.)						
Draper Company. (See Bailey and Snow, assignors.)						
Draper Company. (See Bracken, Howard W., assignor.)						
Draper Company. (See Burton, John L., assignor.)						
Draper Company. (See Côté, Henry, assignor.)						
Draper Company. (See Day, Charles M., assignor.)						
Draper Company. (See Day and Anderson, assignors.)						
Draper Company. (See Denny, David W., assignor.)						
Draper Company. (See Draper, Clare H., assignor.)						
Draper Company. (See Draper, George A., assignor.)						
Draper Company. (See Draper, George O., assignor.)						
Draper Company. (See Draper and Stimpson, assignors.)						
Draper Company. (See Edwards, John C., assignor.)						
Draper Company. (See Emery, Abram D., assignor.)						
Draper Company. (See Gleason, Oscar, assignor.)						
Draper Company. (See Goulet, Joseph A. G., assignor.)						
Draper Company. (See Lamb, John A., assignor.)						
Draper Company. (See Mahoney, Denis B., assignor.)						
Draper Company. (See Marcoux, Alida M., assignor.)						
Draper Company. (See McCleary, William E., assignor.)						
Draper Company. (See Northrop, Jonas, assignor.)						
Draper Company. (See Parkins and King, assignors.)						
Draper Company. (See Rhoades, Alonzo E., assignor.)						
Draper Company. (See Roper, Charles F., assignor.)						
Draper Company. (See Senn, Preston L., assignor.)						
Draper Company. (See Shelters, Ernest E., assignor.)						
Draper Company. (See Stafford, Alfred E., assignor.)						
Draper Company. (See Stimpson, Edward S., assignor.)						
Draper Company. (See Stimpson, Wallace L., assignor.)						
Draper Company. (See Sullivan, Michael E., assignor.)						
Draper Company. (See Tubby and Broomhead, assignors.)						
Draper Company. (See Ward, Neil, assignor.)						
Draper Company. (See Warren, Charles H., assignor.)						
Draper Company. (See Welch, William, assignor.)						
Draper Company. (See Wright, William C., assignor.)						
Draper, Daniel W. (See Downs and Draper.)						
Draper, Egbert, assignor to Judson L. Thomson Manufacturing Company, Waltham, Mass. Guide-pocket for rivet-setting machines	709,002	Sept. 16	1883	433	100	2397
Draper, George A., assignor to Draper Company, Hopedale, Mass. Spinning-spindle	713,618	Nov. 18	2255	502	101	1391
Draper, George O., Hopedale, Mass. Automobile	693,591	Feb. 18	2619	578	98	1383
Draper, George O., Hopedale, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Yarn-spinning apparatus	707,215	Aug. 19	2326	520	100	1629
Draper, Thomas B., San Francisco, and G. T. Lyon, East Oakland, Cal. Fire-starter or gas-heater	702,049	June 10	1380	313	99	2408
Draver, Emil R., Winchester, Ind. Dust-collector	699,460	May 6	638	147	99	1308
Draver, Emil R., Winchester, Ind. Dust-collector	711,761	Oct. 21	2629	579	101	578
Dravo, Charles M., and T. B. Miller, McKeesport, Pa. Can-cover	711,100	Oct. 14	1347	293	101	293
Drechsler, Arno, Zeicha, Germany. Hay rack or wagon	715,037	Dec. 2	754	160	101	1989
Dreman, Edward F., Cleveland, Ohio. Street or other sign	715,766	Dec. 16	2124	476	101	2309
Drengwitz, William, Pittsburg, Pa. Heating-stove	705,828	July 29	4837	1050	100	1039
Drennen, Eugene J. A., et al. (See Barr, Addison, assignor.)						
Dreser, Heinrich, and J. Calsen, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Co., New York, N. Y. Atropinum alkyl nitrate	707,402	Aug. 19	2676		100	1701
Dressel, Albert R., Brooklyn, assignor of one-half to D. Williams, New York, N. Y. Making books	702,413	June 17	2044	465 466	99	2565
Dressel, Charles H., New York, N. Y., assignor to Dressel Railway Lamp Works. Signal-lamp	714,564	Nov. 25	4063	899	101	1784
Dressel Railway Lamp Works. (See Dressel, Charles H., assignor.)						
Dresser, Solomon R. (See Smith, Frank N., assignor.)						
Dressler, Oscar. (See Van Schott, Gerard J., assignor.)						
Drew, Marshall. (See Nelson, Robert D., assignor.)						
Drew, Samuel J. (See Howell and Drew.)						
Drew, Warren F., assignor of one-half to F. G. Snook, Sacramento, Cal. Adjustable crutch	705,741	July 29	4698	1017	100	1010
Drewett, William A. (See Davidson and Drewett.)						
Driggs, Louis L., Washington, D. C., assignor to Driggs-Seabury Gun and Ammunition Company, New York, N. Y. Automatic gun	698,472	Apr. 29	3891	859 860	99	887
Driggs-Seabury Gun and Ammunition Company. (See Driggs, Louis L., assignor.)						
Driggs-Seabury Gun & Ammunition Company. (See Erdman, Albert W., assignor.)						
Drinksau, Philipp, Detroit, Mich. Machine for cutting picture-mats	697,997	Apr. 22	3011	661	99	689
Driscoll, Joseph B. (See Faxton and Driscoll.)						
Driscoll, Richard J., Tarrytown, N. Y. Eraser	715,646	Dec. 9	1873	416	101	2235
Drittler, William H. (See Schwarz and Drittler.)						
Driver, Charles H., Racine, Wis. Sandpapering-machine	704,785	July 15	2631	569	100	564
Droeshout, Pedro, and J. M. Clark, Havana, Cuba. Tipping-table	696,164	Mar. 25	3453	774	98	2481
Drohen, James L., Dunkirk, N. Y. Bag-filling machine	704,176	July 8	1524	327	100	321
Drotzour, Michael A., Pittsburg, Pa., and G. F. Kalkhoff, Brooklyn, N. Y. Sheet-attachment for printing-presses	692,124	Jan. 28	3310	751	98	736
Dronne, Francois, Annadale, N. Y. Detachable handle for cooking vessels	691,050	Jan. 14	1298	294	98	286
Drory, Edward, Berlin, Germany. Means for charging gas-retorts	705,656	July 29	4523	982	100	975
Droste, Henry L. (See Minck and Droste.)						
Droulidge, Henry, Auckland, New Zealand. Ballot-box	706,910	Aug. 12	1760	393	100	1494
Drover, James, St. Johns, Newfoundland. Thread measuring and cutting device for net-lamp	694,950	Mar. 11	1179	258	98	1980
Drown, Charles W., et al. (See Gearing, Charles M., assignor.)						
Drown, Charles W., Brattleboro, Vt. Bride-bit	709,700	Sept. 23	3281	735	100	2702
Druar, John S., and J. G. Kreger, Buffalo, N. Y. Advertising device	697,240	Apr. 8	1595	358	99	358
Drucklieb, Charles A. (See Sticker, Francis, assignor.)						
Drucklieb, Julius C., New York, N. Y. Cigarette-paper book	712,914	Nov. 4	850	197	101	1071
Drum, James, and M. Doyle, Brazil, Ind. Harness	711,951	Oct. 28	3028	665	101	679
Drummond, Dugald, Surbiton, England. Spark-preventer for locomotive or other engines	704,008	July 8	1178	257	100	250
Drummond, Dugald, Surbiton, England. Spark-preventer for locomotive or other engines	712,776	Nov. 4	569	132	101	1014



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Drummond, Dugald, Surbiton, England. Spark-preventer for locomotive or other engines.	712,997	Nov. 4	996	233	101	1100
Drummond, George W. (See Drummond, Walter and G. W.)						
Drummond, Walter and G. W., Govan, Scotland. Tablet picking up and depositing apparatus for use on single lines of railways.	704,786	July 15	2634	569 570	100	565
Drury, Sumner, Wolcott, N. Y. Slicing-machine.	692,640	Feb. 4	745	172	98	952
Dryer, George W., New York, N. Y. Car-seat.	696,095	Mar. 25	3300	743	98	2450
Drynan, Thomas, Sewickley, Pa. Fruit or flower picker.	690,567	Jan. 7	383	79	98	83
Drysdale, Charles V., New Barnet, England. Apparatus for testing the magnetic qualities of materials.	701,174	May 27	3994	918	99	2051
Drysdale, Hugh, Cleveland, Ohio. Animal shears.	716,874	Dec. 30	4443	963	101	2839
Drzewiecki, Stephan J. J., Paris, France. Torpedo-launching apparatus.	708,051	Sept. 2	65	15, 16	100	1905
Du Bois, Charles F., Denver, Colo. Combined journal-bearing and air-compressor.	704,475	July 8	2072	449	100	436
Du Bois, James F., Bellaire, Ohio. Continuous brick kiln and drier.	706,035	Aug. 5	63	13, 14	100	1131
Du Bois, Josiah S., Camden, N. J. Type-writer.	694,464	Mar. 4	242	53, 54	98	1764
Du Bois, Josiah S., Camden, N. J. Self-sealing jar.	712,049	Oct. 28	3200	701	101	712
Du Bois, Matthew N., Philadelphia, Pa. Saw-set.	694,142	Feb. 25	3665	810	98	1614
Du Brul, Cyriac and L. J., Brooklyn, N. Y., assignors to Miller, Du Brul and Peters Manufacturing Co., Cincinnati, Ohio. Cigar-wrapper cutter.	694,259	Feb. 25	3894	864	98	1658
Du Brul, Lester J. (See Du Brul, Cyriac and L. J.)						
Du Brul, Napoleon, Cincinnati, Ohio. Guide-plate for cigar-wrapper-cutting machines.	697,706	Apr. 15	2470	551	99	554
Du Ket, John J., Toledo, Ohio. Toy jack-o'-lantern.	699,669	May 13	1040	243	99	1408
Du Perow, Silas, Cleveland, Ohio. Cable-hanger.	704,788	July 15	2636	570	100	565
Du Perow, Silas, assignor of one-half to W. T. Norton, Sr., Cleveland, Ohio. Cable-suspending hanger.	698,185	Apr. 22	3373	739	99	763
Du Pont, Francis G., Wilmington, Del. Separating solvents from substances.	712,406	Oct. 28	3947	842	101	846
Du Roth, John, Uniontown, Pa. Wheel.	700,183	May 20	2086	477	99	1638
Dubbs, Jesse A., Pittsburg, Pa. Distilling oil.	694,621	Mar. 4	545	119	98	1829
Dubbs, Jesse A., Pittsburg, Pa. Distilling oil.	694,632	Mar. 4	546	119	98	1829
Dubois, Alexander N., Philadelphia, Pa. Oxidizing apparatus.	701,560	June 10	1030	230	99	2339
Dubois, Alexander N., Philadelphia, Pa. Oxidizing apparatus.	708,874	Sept. 9	1636	374	100	2327
Dubois, Georges (See Seiler, Dubois, and D'Asson.)						
Dubois, Louis, Montreal, Canada. Sewer-cleaner.	713,077	Nov. 11	1158	267	101	1151
Dubois, Louis J. M. (See Priour and Dubois.)						
Dubois Watch-Case Company. (See Bilat, Edward, assignor.)						
Duby, Joseph U., Longbranch, assignor of one-half to W. N. Shinn, Lakehurst, N. J. Carpenter's tool.	700,023	May 13	1724	397	99	1542
Duc, Henry A., Jr., Charleston, S. C. Dough mixer and kneader.	698,911	Apr. 23	4811	1060	99	1088
Duc, Henry A., Jr., Charleston, S. C. Steam-boiler.	707,216	Aug. 19	2337	520	100	1629
Ducabie, Alfred, Paris, France. Pneumatic tire.	690,935	Jan. 14	1070	241	98	240
Ducat, Mathieu, Neuville-sur-Saône, C. J. A. Marnas, Lyons, France, and L. H. Dehoff, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen, Germany. Silk-printing.	711,835	Oct. 21	2768	613	101	606
Duchanois, Joseph E., Cottonwood Falls, Kans. Gang-saw attachment.	704,787	July 15	2635	570	100	565
Duchemin, Edmund H., Newark, N. J. Curtain.	716,208	Dec. 16	3038	663	101	2503
Duck Brake Company of New York (See Bill, Louis H., assignor.)						
Duck, Joseph G. (See Labadie, William D., assignor.)						
Ducker Automatic Gas Cut-Off Company. (See Ducker, Louis F., assignor.)						
Ducker, Louis F., assignor to Ducker Automatic Gas Cut-Off Company, Boston, Mass. Automatic cut-off for gas-burners.	705,320	July 22	3843	832	100	827
Ducker, Louis F., Boston, Mass., assignor to Ducker Automatic Gas Cut-Off Company, Augusta, Me. Safety gas-burner.	714,162	Nov. 25	3324	733	101	1637
Duckworth, Ira, Fort Smith, Ark. Corn-pad.	707,089	Aug. 19	2084	465	100	1576
Duclos, Alexandre. (See Charon, Antoine, assignor.)						
Ducouso, Théophile, Paris, France. Electrical apparatus for operating railway switches and signals.	704,177	July 8	1527	328 329	100	321
Ducouso, Théophile and F. Rodary, Paris, France. Electrical operation and control of railway-switches.	694,847	Mar. 4	977	217	98	1920
Ducrotet, Eugène. (See Gaillard and Ducrotet.)						
Ducros, Edward O. (See Fernandez, Felix T., assignor.)						
Dudach, Ladislaus, Newark, N. J. Paper-cutting machine.	693,503	Feb. 18	2437	533	98	1347
Duddles, George G. (See McConaghy and Duddles.)						
Dudek, Franz, Biala, and R. Dembowski, assignors of one-half to Firm of G. Josephy & Erben, Bielitz, Austria-Hungary. Woodworking-machine.	704,476	July 8	2074	449 450	100	436
Dudgeon, William M., executor. (See Pitcher, Lewis S., assignor.)						
Dudgeon, William M., executor. (See Stansbury, William K., assignor.)						
Dudley, Alpha T., Brockton, Mass. Supporting-tool.	696,554	Apr. 1	230	68, 69	99	66
Dudley, Alpha T., Brockton, Mass. Supporting grapple.	712,272	Oct. 28	3607	788	101	794
Dudley, Arthur L. (See Dudley, George W. and A. L.)						
Dudley, Charles T., Golden, Colo., assignor of one-fourth to W. W. Dudley, F. L. Browne, and W. T. Norton, Washington, D. C. Treatment of steel ingots for forging.	705,330	July 22	3845	832	100	827
Dudley, Cory W., Chicago, Ill. Support for punching-bags.	698,395	Apr. 22	3743	826	99	841
Dudley, George W. and A. L., Staunton, Va., assignors to Numerograph Manufacturing Company, Charleston, W. Va. Recording and adding machine.	712,777	Nov. 4	570	132 133 134	101	1015
Dudley, William W., et al. (See Dudley, Charles T., assignor.)						
Duer, Lenna G., assignor to M. J. Jordan, Colorado Springs, Colo. Combined pipe-holder and cigar-tray.	695,380	Mar. 11	1968	440	98	2143
Duerst, Joseph A., Philadelphia, Pa. Zither support and sounding device.	694,094	Feb. 25	3589	794	98	1598
Duff, Edward J., Liverpool, England. Gas-producer.	697,399	Apr. 8	1896	423	99	422
Duff, Edward J., assignor of one-half to United Alkali Company, Limited, Liverpool, England. Gas-furnace for steam-boilers.	701,561	June 10	1031	231	99	2339
Duff, Hugh Y. B., Cheswick, Pa. Hide-securing apparatus.	697,559	Aug. 26	2978	672	100	1780
Duffield, Albert E. W., Newcastle, Pa. Curtain-fixture.	697,832	Apr. 15	2674	594	99	599
Duffield, Bethune, et al. (See La Flamboy, Harry C., assignor.)						
Duffin, James F., Averyville, assignor to Kingman Plow Company, Peoria, Ill. Harrow-tooth fastener.	698,473	Apr. 29	3896	860	99	888
Duffner, Matthew, Allegheny, assignor of one-sixth to C. C. Williams, Pittsburg, Pa. Exerciser.	714,463	Nov. 25	3384	857	101	1747
Duffy, Edward S., Chicago, Ill. Clamp for washbowls, &c.	696,432	Apr. 1	55	13	99	15
Duffy, James F., Chicago, Ill. Apparatus for refining, aging, mellowing, and purifying alcoholic liquors.	698,183	Apr. 22	3370	737 738 739	99	762
Duffy, James F., Chicago, Ill. Refining, aging, mellowing, and purifying alcoholic liquors.	698,184	Apr. 22	3371	738 739 740	99	763
Duffy, John J., Washington, D. C. Temporary binder.	711,656	Oct. 21	2415	531	101	532
Duffy, John M., Philadelphia, Pa. Fastening for articles of clothing.	701,313	June 3	56	12	99	2120
Dufour, Corinne, Savannah, Ga. Combined undervest and corset-cover.	707,558	Aug. 26	2977	672	100	1780

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Dufwa, Frederick W., Mexico, Mexico. Blade for propellers for air-ships.	694,356	Mar. 4	28	6	98	1718
Dugan, Robert C., Irvington, Iowa. Chimney-top	713,409	Nov. 11	1829	412	101	1289
Dugan, John A., Quincy, Mass. Headlight and illuminated sign for street-cars or other purposes	714,877	Dec. 2	485	102	101	1933
Duggan, Timothy, Denver, Colo. Tobacco-pipe	693,730	Feb. 18	2970	656	98	1456
Dugger, William T., assignor of one-half to S. Block, St. Joseph, Mo. Suspender-buckle	701,089	June 3	742	164	99	2324
Dugins, William F., assignor of three-fourths to J. J. P. Garrett, Kew, H. M. Todd and E. Dumant, Melbourne, Victoria, Australia. Blind-roller	695,094	Mar. 11	1450	321	98	2035
Duitte, Pierre. (See Vrand, Vendredy, Duitte, and Gauthier.)						
Dukesmith, Frank H., Charlestown, W. Va., assignor of one-half to B. F. Ackerman, Palestine, Tex. Air-brake signaling and releasing device	712,915	Nov. 4	851	197 198	101	1071
Duket, John J., Toledo, and L. Flinker, Columbus, Ohio; said Duket assignor to said Flinker. Safety-guard attachment for razor-blades	712,778	Nov. 4	588	134	101	1019
Dulaney, Henry S. (See Dorsey, Charles J., assignor.)						
Dulin, Charles E., Sandyhill, N. Y., assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper-bag machine	715,360	Dec. 9	1354	292 293	101	2132
Dumas, Frank E. (See McCormick, Marion F., assignor.)						
Dumesnil, Antoine. (See Cicotte, Joseph, assignor.)						
Dümler, Hermann. (See Schrier and Dümler.)						
Dummer, Edward, Newton, Mass. Paper-feeder	704,444	July 8	2002	436	100	421
Dummer, Samuel R., Jr., Roselle, N. J. Gage	712,367	Oct. 28	3765	824	101	827
Dumont, Maurice, Aurora, Ill. Check device for loom picker-sticks	711,693	Oct. 21	2504	550	101	552
Dun Lany, William P., Cleveland, Ohio. Fastener	706,036	Aug. 5	66	14	100	1181
Dunahoe, James M., Hood River, assignor of one-half to R. J. Ginn, Moro, Oreg. Endless-chain reel	704,445	July 8	2007	436	100	422
Dunbar, Alexander, Liverpool, England. Machinery for jointing or finishing stave-blanks for casks	702,932	June 24	3034	697 698 699	99	2787
Dunbar, Everett H., Lynn, Mass. Game apparatus	715,249	Dec. 9	1148	246	101	2088
Dunbar, Francis W., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. (Reissue)	12,031	Sept. 16	2811	932	100	2593
Dunbar, Harold F., Turners Falls, Mass. Paper-stop	701,175	May 27	3995	918	99	2051
Dunbar, William. (See Mittinger, George E., Jr., assignor.)						
Dunbar, William H., Toledo, Ohio. Door-check	716,009	Dec. 16	2631	579	101	2417
Duncan, Alfred D., Galveston, Tex., and W. H. Wafer, Chicago, Ill. Retort hydrocarbon-burner	702,638	June 17	2479	568 569	99	2656
Duncan, Arthur T., Clinton, Mo. Shell-base for cartridges	707,681	Aug. 26	3228	725	100	1832
Duncan, Charles B., assignor to J. C. Henderson, New York, N. Y. Compressed-air heater	699,156	May 6	53	14	99	1187
Duncan, Frederick B., Akron, Ohio. Means for adjusting dynamos or motors on their bed-plates	697,998	Apr. 22	3013	661	99	689
Duncan, Frederick B., Akron, Ohio. Brush-holding ring for dynamos or motors	700,182	May 20	2085	477	99	1638
Duncan, Frederick B., assignor to Northern Electrical Manufacturing Company, Madison, Wis. Lubricating device	708,324	Sept. 2	604	137	100	2104
Duncan, James. (See Duncan, William M., assignor.)						
Duncan, James E., Jennings, La. Screen	715,767	Dec. 16	2126	476	101	2309
Duncan, John D. E. (See Blossom and Duncan.)						
Duncan, John R., assignor of one-half to Specialty Manufacturing Company, Indianapolis, Ind. Can-capper	701,176	May 27	3996	919	99	2052
Duncan, John W., et al. (See Le Marr, Samuel E., assignor.)						
Duncan, Joseph B., et al. (See Le Marr, Samuel E., assignor.)						
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Holder for card-indexes and printing-plates	692,994	Feb. 11	1437	312	98	1120
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Combined card-index and stencil-frame	692,995	Feb. 11	1439	312	98	1121
Duncan, Joseph S., assignor to Icecubator Company, Chicago, Ill. Machine for sawing ice into cubes or blocks	694,260	Feb. 25	3898	865	98	1660
Duncan, Lewis S., New York, N. Y. Moistener	703,771	July 1	728	161	100	146
Duncan, Max E., New York, N. Y., assignor to B. R. Bacon, South Orange, N. J. Can-opener	707,560	Aug. 26	2979	672	100	1781
Duncan, Max E., New York, N. Y., assignor to B. R. Bacon, South Orange, N. J. Can-opener	707,561	Aug. 26	2980	673	100	1781
Duncan, Nelson L., Fayetteville, Ark. Account-book	700,630	May 20	2350	678	99	1816
Duncan, Signora H., Nashville, Tenn. Cuspidor	706,598	Aug. 12	1060	233	100	1945
Duncan, Thomas, Fort Wayne, Ind., assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter	698,637	Apr. 29	4214	931	99	952
Duncan, Thomas, Fort Wayne, Ind., assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter	698,638	Apr. 29	4216	931	99	953
Duncan, Thomas, Fort Wayne, Ind., assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter	698,639	Apr. 29	4220	932	99	953
Duncan, Thomas, Fort Wayne, Ind., assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter	698,640	Apr. 29	4223	933	99	954
Duncan, Thomas, Fort Wayne, Ind., assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter	698,641	Apr. 29	4226	934	99	954
Duncan, Thomas, Fort Wayne, Ind., assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter	698,642	Apr. 29	4230	934	99	955
Duncan, Thomas, Fort Wayne, Ind., assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter	698,643	Apr. 29	4232	935	99	956
Duncan, Thomas, Fort Wayne, Ind., assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter	698,644	Apr. 29	4234	935	99	956
Duncan, Thomas, Fort Wayne, Ind., assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter	698,645	Apr. 29	4236	935	99	957
Duncan, Thomas, Fort Wayne, Ind., assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter	698,646	Apr. 29	4238	936	99	957
Duncan, Thomas, Oakpark, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electrical measuring instrument	698,647	Apr. 29	4241	937	99	957
Duncan, Thomas, Oakpark, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electrical meter	698,648	Apr. 29	4242	937 938	99	958
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter	698,649	Apr. 29	4245	938	99	958
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter	698,650	Apr. 29	4246	939	99	959
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter	698,651	Apr. 29	4248	939	99	959
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter	698,652	Apr. 29	4249	940	99	959



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Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Direct-current meter.....	698,653	Apr. 29	4250	940 941	99	959
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Alternating-current meter.....	698,654	Apr. 29	4253	941 942	99	960
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Alternating-current motor-meter.....	698,655	Apr. 29	4255	942	99	960
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Induction motor-meter.....	698,656	Apr. 29	4258	942	99	961
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Induction motor-meter.....	698,657	Apr. 29	4260	943	99	961
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Motor-meter.....	698,658	Apr. 29	4262	943	99	962
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Motor-meter.....	698,659	Apr. 29	4265	943	99	963
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Polyphase motor-meter.....	698,660	Apr. 29	4267	944	99	964
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Motor-meter.....	698,661	Apr. 29	4270	944 945	99	964
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter.....	698,662	Apr. 29	4273	945	99	965
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter.....	698,663	Apr. 29	4275	946	99	965
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Motor-meter.....	698,664	Apr. 29	4276	947	99	966
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Alternating-current meter.....	698,665	Apr. 29	4279	947	99	967
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Alternating-current meter.....	698,666	Apr. 29	4284	947 948	99	968
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter.....	698,667	Apr. 29	4289	948	99	969
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter.....	698,668	Apr. 29	4290	948	99	969
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter.....	698,669	Apr. 29	4291	949	99	969
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Alternating-current meter.....	698,670	Apr. 29	4293	949	99	970
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Alternating-current meter.....	698,671	Apr. 29	4295	949	99	971
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Alternating-current meter.....	698,672	Apr. 29	4297	950	99	971
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter.....	698,673	Apr. 29	4300	950	99	972
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Alternating-current meter.....	698,674	Apr. 29	4302	950 951	99	972
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter.....	698,675	Apr. 29	4307	951	99	974
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter.....	698,676	Apr. 29	4309	952	99	975
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter.....	698,677	Apr. 29	4314	953	99	976
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter.....	698,678	Apr. 29	4316	954	99	976
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electrical measuring instrument.....	698,679	Apr. 29	4319	954	99	977
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electrical measuring instrument.....	698,680	Apr. 29	4322	954	99	978
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electrical measuring instrument.....	698,681	Apr. 29	4327	955	99	979
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electrical measuring instrument.....	698,682	Apr. 29	4330	955	99	980
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electrical measuring instrument.....	698,683	Apr. 29	4334	955	99	982
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electrical measuring instrument.....	698,684	Apr. 29	4336	956	99	982
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electrical measuring instrument.....	698,685	Apr. 29	4339	956	99	983
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electrical measuring instrument.....	698,686	Apr. 29	4342	956 957	99	984
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electrical measuring instrument.....	698,687	Apr. 29	4345	957	99	985
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Induction motor-meter.....	698,688	Apr. 29	4347	957 958	99	985
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electrical measuring instrument.....	698,689	Apr. 29	4349	958 959	99	986
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electrical measuring instrument.....	698,690	Apr. 29	4351	959	99	986
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electrical measuring instrument.....	698,691	Apr. 29	4353	959 960	99	986
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electrical measuring instrument.....	698,692	Apr. 29	4356	960	99	987
Duncan, Thomas, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric meter.....	698,693	Apr. 29	4358	960 961	99	988
Duncan, William M., assignor of one-half to J. Duncan, Alton, Ill. Molding-machine.....	704,712	July 15	2493	539 540	100	537
Duncombe, George H. (See Faulkner, Alonzo D., assignor.).....						
Duncombe, Tyrrell H., St. Thomas, Canada. Acetylene-gas generator.....	713,291	Nov. 11	1623	366	101	1244
Duner, John C., Chicago, Ill. Door opening or closing mechanism.....	712,511	Nov. 4	85	22	101	915
Dunford, John, Johnstown, Pa. Furnace bottom and making and repairing same.....	714,565	Nov. 25	4064	890	101	1784
Dungern, Emil von, Frankfurt-on-the-Main, assignor to Farbwerke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Modified milk and obtaining same.....	700,631	May 20	2951	102	99	1816
Dunham, Charles A., Chicago, Ill. Clip for safety devices for railway-switches.....	713,619	Nov. 18	2256	502	101	1391
Dunham, Charles L., Centerville, Ohio. Pipe-wrench.....	705,742	July 29	4700	1017	100	1010
Dunham, Charles L., Centerville, Ohio. Nut-lock.....	705,743	July 29	4700	1017	100	1010
Dunham, Daniel, and V. J. Cooper, London, England. Lead-pencil.....	700,632	May 20	2952	628	99	1816
Dunham, Frederick C., Flemington, N. J. Dumping-car.....	695,803	Mar. 18	2736	628	98	2318
Dunham, George W., and J. W. Fox, East Cleveland, Ohio. Foot-warmer for vehicles.....	707,908	Aug. 26	3725	835	100	1929

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Dunham, H. G., et al., trustees (See McClave, William, assignor.)	709,003	Sept. 16	1886	-----	100	2307
Dunham, Henry V., New York, N. Y., Producing soluble milk-albumen.	695,198	Mar. 11	1644	-----	98	2077
Dunham, Henry V., New York, N. Y., assignor to Casein Company of America. Insoluble casein and producing same.	717,085	Dec. 30	4846	-----	101	2923
Dunham, Henry V., New York, N. Y., assignor to Casein Company of America. Casein compound.	715,768	Dec. 16	2127	-----	101	2310
Dunham, Herbert F., New York, N. Y. Constructing and laying subaqueous tunnels.	715,088	Dec. 2	755	160	101	1989
Dunham, Marcus V., Rutherford, N. J. Mirror-support.	700,905	May 27	3504	804	99	1947
Dunham, Sylvester C., Vail, Iowa. Hay-stacker.	707,090	Aug. 19	2085	466	100	1576
Dunham, Willard A., Weymouth, Mass. Lacing-hook.	697,936	Apr. 15	2884	636	99	644
Dunham, William G., Brooklyn, N. Y., assignor of one-half to E. J. Manville Machine Company. Waterbury, Conn. Necktie-band fastener.	706,911	Aug. 12	1762	393	100	1494
Dunham, William R., Jr., Providence, R. I. Street-railway switch.	712,779	Nov. 4	591	134	101	1020
Dunhill, Alfred. (See Studley, John T., assignor.)						
Dunkelsbühler, Moritz. (See Wachwitz, Heinrich, assignor.)						
Dunlap, Herbert E., et al. (See Sharp, Samuel J., assignor.)						
Dunlap, John M., and J. W. Tracy, Vicksburg, Ky.; said Tracy assignor to said Dunlap. Singletree or doubletree.	712,916	Nov. 4	833	198	101	1071
Dunlap, Sam H., Kurten, Tex. Wire-stretcher.	691,847	Jan. 28	2818	632	98	638
Dunlap, Simon L., Indianapolis, Ind. Form or pattern for cement cisterns.	695,804	Mar. 18	2737	624	98	2318
Dunlap, Thomas, Toledo, Ohio. Water-tube boiler.	716,875	Dec. 30	4445	963	101	2839
Dunlap, William J., Etna, Pa. Tool for oil-wells, &c.	708,325	Sept. 2	605	187	100	2105
Dunlap, William O., Portales, N. Mex. Ter. Wire-reeling machine.	696,727	Apr. 1	629	142	99	136
Dunlavy, William P., et al. (See Stephenson, Levi T., assignor.)						
Dunlavy, James P., et al. (See Stephenson, Levi T., assignor.)						
Dunn, Charles A., West Heston, Pa. Envelop.	707,308	Aug. 19	2498	561	100	1664
Dunn, Emanuel W., San Jose, Cal. Oil-burner.	701,177	May 27	3998	919	99	2052
Dunn, George F., Brockton, Mass. Vamp-throating die.	716,876	Dec. 30	4446	964	101	2839
Dunn, George F., assignor to W. B. Arnold, Brockton, Mass. Shoe-tree.	693,848	Feb. 25	3103	686	98	1501
Dunn, Henry L., Seneca, Cal. Chute and discharge-gate.	712,661	Nov. 4	373	86	101	976
Dunn, Hugh T., assignor of one-half to B. A. Jackson, New York, N. Y. Rotary engine.	711,952	Oct. 28	3029	666	101	670
Dunn, James E., Chicago, Ill. Artificial denture.	713,730	July 1	641	142	100	128
Dunn, James F., Salt Lake City, Utah. Locomotive front-end-coupling gear.	695,291	Mar. 11	1830	407	98	2113
Dunn, Louis, Minneapolis, Minn. Safety device for point-switches.	698,108	Apr. 22	3231	706	99	734
Dunn, Mary A., New York, N. Y. Safety attachment for harness.	690,642	Jan. 7	529	115	98	118
Dunn, Morton E., and O. B. Henderson, Indianapolis, Ind. Garment-fastener.	696,238	Mar. 25	3571	790	98	2503
Dunn, Thomas F., Boston, Mass. Necktie.	699,295	May 6	313	72	99	1238
Dunn, William A., Smithville, assignor of one-half to A. M. Miller, Duluth, Minn. Shaping metal I-beams, channel-beams, &c.	707,562	Aug. 26	2982	673	100	1781
Dunn, William A., Smithville, assignor of one-half to A. M. Miller, Duluth, Minn. Machine for shaping metal I-beams, channel-beams, &c.	709,081	Sept. 16	2055	469	100	2433
Dunn, William A., Smithville, assignor of one-half to A. M. Miller, Duluth, Minn. Roller-mill.	709,082	Sept. 16	2058	471	100	2433
Dunn, William A., Smithville, assignor of one-half to A. M. Miller, Duluth, Minn. Machine for rolling metal I-beams, channel-beams, &c.	709,083	Sept. 16	2059	471	100	2434
Dunn, William A., Smithville, assignor of one-half to A. M. Miller, Duluth, Minn. Roller-mill and cutter.	709,084	Sept. 16	2062	473	100	2434
Dunn, William A., Smithville, assignor of one-half to A. M. Miller, Duluth, Minn. Machine for rolling metal I-beams, channel-beams, &c.	709,085	Sept. 16	2063	473	100	2434
Dunn, William H., and D. McCurdy, Waco, Tex. Ironing-machine.	691,735	Jan. 28	2647	592	98	603
Dunnivant, John J. (See Decker, Martin J., assignor.)						
Dunne, Leopold A. (See Gerstmaier, Anton, assignor.)						
Dunne, Patrick W., River Forest, Ill. Means for transmitting rotary motion.	704,245	July 8	1636	354	100	342
Dunne, Patrick W., River Forest, Ill. Burglar-alarm.	704,246	July 8	1637	355	100	342
Dunne, Thomas J. (See Koehler, Fred L., assignor.)						
Dunnegan, Edward E., Greenville, Mo. Riding-stirrup.	715,647	Dec. 9	1875	416	101	2335
Dunningham, Charles S., Wellington, New Zealand. Brooch.	698,824	Apr. 29	4641	1023	99	1050
Dunster, Henry, Jr., et al. (See Sibley, Edward W., assignor.)						
Dupire, Lucien J., P. M. Y., St. Pol, France. Cattle food and making same.	713,620	Nov. 18	2258	-----	101	1392
Duplex Printing Press Co. (See Higgins, Eugene, assignor.)						
Duplex Printing Press Company. (See Bechman, Henry F., assignor.)						
Duplex Printing Press Company. (See Dowell, Arthur E., assignor.)						
Duplex Printing Press Company. (See Warner, Austin P., assignor.)						
Duplex Roller Bushing Company. (See McIntire, Clarence E., assignor.)						
Dupont, Charles E., and A. S. Marchester, N. H. Whiffletree construction.	691,897	Jan. 28	2900	653	98	655
Dupont, Paul, Le Cateau, France. Machine for mechanically enameling baths or other metal objects.	710,443	Oct. 7	80	18	101	19
Dupont, Paul A., Rouen, France. Two-cycle rotary motor.	706,730	Aug. 12	1399	312	100	1418
Dupoy, Jean R., Paris, France. Gas-meter.	715,564	Dec. 9	1747	386	101	2209
Duppler, Anton. (See Krey and Duppler.)						
Dupré, Albert. (See Corpelet and Dupré.)						
Durand, Frederic, Fall River, Mass. Vehicle propulsion mechanism.	693,956	Feb. 25	3313	728	98	1542
Durand, Ernest F., Paris, France, assignor to Union Special Sewing Machine Co., Chicago, Ill. Trimming attachment for sewing-machines.	698,912	Apr. 29	4814	1061	99	1089
Duraud, Henry S., Rochester, N. Y. Mechanical motor.	709,668	Sept. 23	3225	719	100	2691
Duraud, Henry S., Rochester, N. Y. Rope-tip.	716,877	Dec. 30	4448	964	101	2839
Durand and Ivey. (See Durand, John, assignor.)						
Durand, John, Durham, N. C., assignor to Durand and Ivey, Union Point, Ga. Hand-stamp.	704,302	July 8	1742	380	100	366
Durand, Nelson C., assignor to International Text Book Company, Scranton, Pa. Sound-modifier.	707,909	Aug. 26	3726	835	100	1929
Durbin, Richard L., assignor to J. R. Cardwell, Chicago, Ill. Brake-shoe.	716,993	Dec. 30	4678	1014	101	2887
Durbin, Alfred B., Medford, Mass. Comb.	707,563	Aug. 26	2983	673	100	1781
Durbin, Alfred B., Medford, Mass. Comb.	707,564	Aug. 26	2984	673	100	1781
Durham, Shiloh W., San Jose, Cal. Penholder.	691,614	Jan. 21	2254	529	98	524
Durham, Thomas F., Philadelphia, Pa. Safety blasting-cartridge.	691,367	Jan. 21	1917	431	98	433
Durham, William E., Port Chester, N. Y. Hemming attachment for sewing-machines.	715,565	Dec. 9	1749	387	101	2210
Durkee, Frederick M., Newton, assignor of one-half to U. Blatter, Jamaica Plain, Boston, Mass. Watch-dial illuminator.	704,446	July 8	2009	437	100	423
Durkin, Daniel, Manville, R. I. Picker-motion for looms.	693,592	Feb. 18	2621	579	98	1384



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Durland, Albert E., Staplehurst, Nebr. Buckle .....	699,502	May 6	706	164	99	1322
Durner, Augustus E., Evansville, Wis. Harrow-disk sharpener .....	708,982	Sept. 9	1472	336	100	2295
Dürr, Fritz, Schlachtensee, Germany. Double-cylinder hydrocarbon-motor .....	699,503	May 6	707	164	99	1322
Durr, Henry H., New York, N. Y. Elastic tie for vehicles .....	715,361	Dec. 9	1357	293	101	2133
Durrett, Thomas J., Sr., Arcadia, La. Canopy-support .....	693,641	Feb. 4	746	172	98	952
Durston, Alfred H., Syracuse, N. Y. Gun-cleaning tool .....	702,359	June 10	1928	440	99	2521
Durston, Alfred H., Syracuse, N. Y. Gun-cleaning tool .....	713,754	Nov. 18	2502	556	101	1448
Duryea, Chester B., New York, N. Y. Making thin boiling starch .....	696,949	Apr. 8	1091	241	99	252
Duryea, James F., Springfield, Mass. Carburetor for explosive-engines .....	699,504	May 6	708	165	99	1322
Duryea, James F., Springfield, Mass. Inlet-valve-governing mechanism for engines .....	702,090	June 10	1465	330	99	2427
Duryea, James F., Springfield, Mass. Steering mechanism for vehicles .....	714,878	Dec. 2	486	102	101	1933
Dusek, Anton E., assignor of one-half to J. W. Dusek, Crowlake, S. D. Soap-holder .....	709,143	Sept. 16	2173	498	100	2459
Dusek, Joseph W., (See Dusek, Anton E., assignor.) .....						
Dusenbery, Samuel, San Francisco, Cal. Extension-table .....	711,042	Oct. 14	1286	270	101	270
Dussault, Napoleon, Montreal, Canada. Nail-making machine .....	701,178	May 27	3999	919	99	2052
Dutcher, Robert L., Stites, Idaho. Traction-wheel .....	716,688	Dec. 23	3977	871	101	2713
Dutchess Tool Company. (See Van Houten, Frank H., assignor.) .....						
Dutemple, William R., Auburn, R. I. Cigar-vending machine .....	699,670	May 13	1042	243	99	1404
Dutemple, William R., Auburn, R. I. Cigar-vending machine .....	702,639	June 17	2481	569	99	2056
Duthie, William E., Indianapolis, Ind. Handle and fastener for paper vessels .....	708,050	June 24	3252	750	99	2833
Dutremblay, Louis. (See Planeur and Dutremblay.) .....						
Dutton, Edgar F., Schenectady, N. Y., assignor to General Electric Company. Control- ler for electric motors .....	696,017	Mar. 25	3137	707	98	2414
Dutton, Samuel T., Worcester, assignor to J. F. Pease and Company, Limited, Darling- ton and Worcester, England. Pulley for signal-wires or other purposes .....	695,381	Mar. 11	1969	441	98	2143
Dutton, Thomas A., Egypt, Ga. Sugar-cane stripper .....	707,091	Aug. 19	2086	466	100	1576
Duvall, Stephen A., Peurith, W. Va. Railway-switch .....	703,772	July 1	729	161	100	146
Duwe, Francis, New York, N. Y. Coin-controlled stereopticon .....	712,780	Nov. 4	592	135	101	1020
Duwe, Francis, New York, N. Y. Coin-controlled electric battery .....	712,781	Nov. 4	594	135	101	1021
Duwe, Oscar F. J., Enghien, Belgium. Devulcanizing india rubber .....	696,423	Apr. 1	57		99	16
Dwelly, Arthur P., Boston, Mass. Signaling mechanism .....	697,999	Apr. 22	3014		99	689
Dwiggins, John W., and L. Swank, assignors to Dwiggins Wire Fence Company, Ander- son, Ind. Wire-fence machine .....	698,186	Apr. 22	3375	740	99	764
Dwiggins Wire Fence Company. (See Dwiggins and Swank, assignors.) .....						
Dwight, William M., Detroit, Mich. Automatic cut-off sawing-machine .....	702,360	June 10	1930	440	99	2521
Dwight, Willis H., Lemars, Iowa. Means for attaching tooth members .....	710,444	Oct. 7	81	19	101	191
Dwyer, John C., Wells, Minn. Box-raising device for wagons .....	712,782	Nov. 4	596	136	101	1021
Dyblie, Julius A., Joliet, Ill. Reversing-valve for heating-furnaces .....	691,251	Jan. 14	1639	374	98	357
Dye, William H., assignor of one-half to J. M. Wharton, Indianapolis, Ind. Oil-fuel gen- erator .....	705,565	July 29	4367	946	100	945
Dye Works, formerly L. Durand Huguenin & Co. (See De la Harpe, Charles, assignor.) .....						
Dyer, Charles, Osage City, Kans. Liquid-measuring device .....	690,936	Jan. 14	1071	241	98	240
Dyer, Charles V., and W. S. Willette, Conroe, Tex. Insect-destroying machine .....	698,187	Apr. 22	3381	741	99	766
Dyer, Charles V., and W. S. Willette, Conroe, Tex. Insect-destroying machine .....	708,700	Sept. 9	1923	290	100	2246
Dyer, Fayette, Pasadena, assignor of one-half to H. T. Hazard and G. E. Harpham, Los Angeles, Cal. Hinge .....	702,640	June 17	2484	570	99	2657
Dyer, Frank L., Montclair, N. J. Assembly voting-machine .....	701,314	June 3	57	13	99	2120
Dyer, Frank L., Montclair, N. J., assignor to C. S. Bradley, Avon, N. Y. Reducing the temperature of gases or vapors .....	710,957	Oct. 14	1052	233	101	231
Dyer, Frank L., Montclair, N. J., assignor to C. S. Bradley, New York, N. Y. Appara- tus for reducing the temperature of gases or vapors .....	711,419	Oct. 14	1950	425	101	421
Dyer, Frank M. (See Newton, William J., assignor.) .....						
Dyer, Henry. (See Koeller and Dyer.) .....						
Dyer, John. (See Cudner and Dyer.) .....						
Dyer, Louise M., and A. B. Colhoun, Yazoo City, Miss. Ink-well .....	690,643	Jan. 7	530	116	98	113
Dyer, Silas H., assignor of one-half to E. W. Orswell, Pawtucket, R. I. Balanced valve for gas-engines .....	699,372	May 6	460	108	99	1269
Dygett, Alberta Q., et al. (See Polmeteer, Andrew J., assignor.) .....						
Dyre, William E., Takoma Park, D. C., assignor of one-half to H. Parker, New York, N. Y. Winding attachment for graphophones .....	692,763	Feb. 4	907	226	98	1001
Dysart, William C., Dallas, Tex. Draft-equalizer .....	701,179	May 27	406	92	99	2053
Dyson, Harry, Lockwood, Huddersfield, assignor of three-fourths to J. S. Gaunt, Man- chester, England. Work-an'time-recorder .....	691,252	Jan. 14	1643	376	98	358
Dyson, Herbert W. C. K., London, England. Manufacturing red aggregates for use as artificial stone, &c. .....	716,689	Dec. 23	3978		101	2713
Dyson, Orion E., Chicago, Ill. Soft-tread horseshoe .....	699,373	May 6	461	108	99	1269
Dysterud, Emil, Monterey, Mexico. Clutch .....	699,461	May 6	641	147	99	1308
Dziech, John, assignor of one-half to C. Frankenstein, Cincinnati, Ohio. Tailor's press- ing-machine .....	705,826	July 29	4835	1050	100	1029
E. Faber Pencil Company. (See Blakeslee, Edward E., assignor.) .....						
E. Ingraham Company. (See Throop and Ingraham, assignors.) .....						
E. Van Noorden Company. (See Steffey, Josiah H., assignor.) .....						
E. A. Bliss Co. (See Brown, Martin H., assignor.) .....						
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E. & H. T. Anthony & Co. (See Bornmann, Carl, assignor.) .....						
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Eacutt, Isaac A. (See Cawthorn, James T., assignor.) .....						
Eagan, Daniel. (See Schaffer, Morse B., assignor.) .....						
Eagan, John H. D., Philadelphia, Pa. Car-coupling .....	699,505	May 6	710	165	99	1323
Eagen, John J., Oakland, Cal. Dumping-wagon .....	709,210	Sept. 16	2312	525	100	2487

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Eagle Chemical Works. (See Schwartz, Louis, assignor.)						
Eagle Lock Co. (See Roche, James, assignor.)						
Eagle Pencil Company. (See Boman, Claes W., assignor.)						
Eagle Pencil Company. (See Fischer, Frederick J. W., assignor.)						
Eagle Pencil Company. (See Holzworth, Louis, assignor.)						
Eagle Pencil Company. (See Krauss, Emil, assignor.)						
Eagle Pencil Company. (See McIntyre, Frank, assignor.)						
Eames, George M., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Treadle-power stand for sewing-machines	704,524	July 15	2181	472	100	473
Earnhart, Sylvester F. (See Kiler, Charles M., assignor.)						
Earl, Charles M., assignor of two-thirds to W. J. Stapleton and E. McBride, Detroit, Mich. Cable-sleeve	707,055	Aug. 12	2011	450	100	1544
Earl, Oliver C., Allegheny, Pa. Bolt	690,617	May 6	930	216	99	1367
Earl, William D. (See Adams, George E., assignor.)						
Earle, Hardman A., Manchester, England. Electromagnetic transmission-gear	711,300	Oct. 14	1748	378	101	379
Earle, John, Birmingham, England. Manufacture of curved tubes, pipe-coils, or the like	717,178	Dec. 30	5057	1096	101	2969
Earnest, Leslie, <i>et al.</i> (See Blackman, Luman, assignor.)						
Earnshaw, Edward H., assignor to United Gas Improvement Company, Philadelphia, Pa. Pyrometer	711,484	Oct. 21	2090	453	101	464
Earnshaw, Henry P. J., Hydepark, Mass. Steam-generator	696,165	Mar. 25	3454	774	98	2482
Earnshaw, Richard J. (See Manuel and Nottingham, assignors.)						
Easdown, Roland H., Mount McDonald, New South Wales, Australia. Fastening for mail-bags, &c.	712,783	Nov. 4	598	137	101	1022
East, James W., Tate Springs, Tenn. Tool	704,819	July 15	2716	588	100	581
East, Samuel, Harbor Beach, Mich. Clothes-rack	691,368	Jan. 21	1919	431	98	434
Eastman, Ernest A., <i>et al.</i> (See Harrison, Julian R., assignor.)						
Eastman, John M., <i>et al.</i> (See Harrison, Julian R., assignor.)						
Eastern Carbon Works. (See Mills, William, assignor.)						
Eastman, Albert G. (See Eastman, Franklin C. and A. G.)						
Eastman, Ambrose, <i>et al.</i> (See Cooley, John F., assignor.)						
Eastman Automobile Company. (See McLouth, Hayes, and Wissman, assignors.)						
Eastman, Edgar D., Concord, N. H. Sprinkler-head for watering-carts	714,566	Nov. 25	4066	900	101	1785
Eastman, Ernest A. (See Spright, Eugene T., assignor.)						
Eastman, Franklin C., Cambridge, and A. G. Eastman, Brookline, Mass. Window-screen	699,157	May 6	54	15	99	1187
Eastman, Henry F., assignor to Eastman Metallic Body Company, Cleveland, Ohio. Metallic body for vehicles	691,455	Jan. 21	2070	463 464	98	466
Eastman Kodak Company. (See Brownell, Frank A., assignor.)						
Eastman Kodak Company. (See Forsheim, Joseph, assignor.)						
Eastman Kodak Company. (See McCurdy, Arthur W., assignor.)						
Eastman Kodak Company of New Jersey. (See Clarke, Joseph T., assignor.)						
Eastman Metallic Body Company. (See Eastman, Henry F., assignor.)						
Easton & Burnham Machine Company. (See Fay, Rimmon C., assignor.)						
Easton & Burnham Machine Company. (See Fay, Rimmon C. and F. L., assignors.)						
Eastwood, Arthur C., assignor to Electric Controller and Supply Company, Cleveland, Ohio. Resistance-coil	693,692	Feb. 18	2812	618	98	1423
Eastwood, Arthur C., assignor to Electric Controller & Supply Company, Cleveland, Ohio. Electric controller	693,791	Feb. 18	2971	656	98	1456
Eastwood, Arthur C., assignor to Electric Controller and Supply Company, Cleveland, Ohio. Electric controller	699,506	May 6	712	166	99	1823
Eastwood, Arthur C., assignor to Electric Controller & Supply Company, Cleveland, Ohio. Protective operating device for electric motors	704,447	July 8	2010	437	100	423
Eastwood, Arthur C., assignor to Electric Controller and Supply Company, Cleveland, Ohio. Rheostat	704,448	July 8	2014	437	100	424
Eastwood Wire Manufacturing Company. (See Joule, Joseph, assignor.)						
Easty, Charles B., Glenville, Ohio. Rotary flue-cleaning cutter	711,043	Oct. 14	1237	270	101	271
Eaton, Andrew L., New York, N. Y. Bar-dressing	691,935	Jan. 28	2964	667	98	668
Eaton, Arthur W., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sewing-machine	701,862	June 10	1033	231	99	2240
Eaton, Asahel K., Brooklyn, N. Y. Removing scale oxid from the surface of iron or steel	702,050	June 10	1381	...	99	2409
Eaton, Carp D., and A. L. Norton, Allen, Mich. Fly-paper holder	702,547	June 17	2290	521	99	2617
Eaton, Edward G. (See Bebb and Eaton.)						
Eaton, Hiram W., Jr. (See Benson, Andrew, assignor.)						
Eaton, Hiram W., Jr. and A. Benson, Bradford, Pa. Sand-reel for oil or Artesian wells	701,315	June 3	68	14	99	2123
Eaton-Hurlbut Paper Company. (See Pike, William A., assignor.)						
Eaton, John, Stoeport, assignor of four-fifths to R. J. C. Mitchell, Waterfoot, England. Apparatus for producing pile or nap fabrics	702,854	June 17	2875	664	99	2739
Eaton, Matthias B., Boston, Mass. Flanger	704,525	July 15	2183	473	100	473
Eaton, Oscar E., Boston, and P. C. Burrill, Hull, Mass. Compass-light	705,050	July 22	3218	696	100	702
Eaton, Parley H. (See Haber, Frederick, assignor.)						
Eaton, Russell W., Brunswick, Me. Speed-recording apparatus	694,913	Mar. 4	1106	244	98	1946
Eaton, William G., and W. A. Reed, assignors to Flagg Manufacturing Company, Boston, Mass. Stopping or starting device	697,707	Apr. 15	2472	551 552	99	554
Eaton, William S., Sag Harbor, N. Y. Routing or engraving machine	696,050	Apr. 8	1093	241 242	99	252
Eaton, William S., Sag Harbor, N. Y. Routing or engraving machine	696,951	Apr. 8	1096	242 243	99	253
Eaton, William S., Sag Harbor, N. Y. Engraving-machine	696,952	Apr. 8	1100	243 244 245	99	254
Ebbets, William S., assignor to firm of E. Faber, New York, N. Y. Document-file	711,301	Oct. 14	1749	378	101	379
Ebbs, Hermann E., assignor to Vereinigte Maschinenfabrik Augsburg und Maschinenbaugesellschaft Nürnberg A. G., Nuremberg, Germany. Water-cooled valve	698,474	Apr. 29	3897	860	99	889
Ebbs, Hermann E., assignor to Vereinigte Maschinenfabrik Augsburg und Maschinenbaugesellschaft Nürnberg A. G., Nuremberg, Germany. Piston for gas or other motors	700,309	May 20	2354	536	99	1691
Ebbs, Hermann E., assignor to Vereinigte Maschinenfabrik Augsburg und Maschinenbaugesellschaft Nürnberg A. G., Nuremberg, Germany. Gas-engine cylinder	710,911	Oct. 7	963	212	101	196
Ebel, George H., St. Paul, Minn. Reversing-gear for engines	695,075	Mar. 18	2509	569 570	98	2271
Ebeling, Phillip, Moundsville, assignor of one-half to G. L. Caldwell, Wellsburg, W. Va. Glass-press	708,326	Sept. 2	606	137 138	100	2105
Ebeling, Phillip, Moundsville, assignor of one-half to G. L. Caldwell, Wellsburg, W. Va. Stroke-regulating mechanism for glass-presses, &c.	708,469	Sept. 2	843	182 183	100	2152



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr. G.	Vol.	Page.
Eberhard, Otto, Ludwigslust, Germany. Making milk extracts .....	712,274	Oct. 23	3610		101	794
Eberhardt, Elmer G. (See Eberhardt, Henry E., F. L., and E. G.)						
Eberhardt, Fred L. (See Eberhardt, Henry E., F. L., and E. G.)						
Eberhardt, Fred L., assignor to Gould & Eberhardt, Newark, N. J. Detachable gear for transfer-presses .....	716,535	Dec. 23	3662	799 800	101	2645
Eberhardt, Fred L., and H. F. Emme, assignors to Gould & Eberhardt, Newark, N. J. Gear-cutting engine .....	700,184	May 20	2087	477 478	99	1638
Eberhardt, Fred L., and H. F. Emme, assignors to Gould & Eberhardt, Newark, N. J. Oil-hole protector .....	706,809	Aug. 12	1573	352	100	1455
Eberhardt, Henry E., assignor to Gould & Eberhardt, Newark, N. J. Shaft-driver .....	712,273	Oct. 28	3608	788	101	794
Eberhardt, Henry E., and F. L. Newark, N. J., and E. G. Eberhardt, Ithaca, N. Y., assignors to Gould & Eberhardt, Newark, N. J. Crank-planner or analogous tool .....	700,670	May 20	2027	692 693	99	1882
Eberhardt, John, Chicago, Ill. Electric arc lamp .....	697,077	Apr. 8	1329	295	99	301
Eberhardt, Ulrich, Newark, N. J. Sand-sifter .....	700,751	May 27	3236	739	99	1890
Eberly, Levi B., Smithville, Ohio. Belt and roller press .....	714,579	Dec. 2	49	11	101	1847
Ebersole, Edward O. (See Vogt, George, assignor.)						
Ebersole, John, Chambersburg, Pa. Hot-water heating system .....	704,009	July 8	1178	257	100	250
Ebersole, Mary. (See Ebersole, Samuel, assignor.)						
Ebersole, Peter K., Conoy Township, assignor of one-half to I. W. Hoffman, Elizabethtown, Pa. Nut-lock .....	716,395	Dec. 23	3399	741	101	2569
Ebersole, Samuel, assignor to M. Ebersole, Clearspring, Md. Tongue-support .....	702,291	June 10	1800	411	99	2496
Eberstein, John G., assignor to J. J. Hovey, J. F. Dean, and R. A. Brachvogel, Chicago, Ill. Door or window alarm .....	708,337	Sept. 2	609	138	100	2105
Ebert, George F. (See Moore and Ebert.)						
Ebert, Henry F., Brooklyn, N. Y. Brush .....	716,690	Dec. 23	3979	871	101	2714
Eberts, Heinrich, Crefeld, Germany. Larding-pin .....	700,185	May 20	2091	478	99	1639
Eberwein, Paul, Jackson, Mich. Dust-collector .....	703,124	June 24	3406	782	99	2862
Eber, Joseph L., Vincennes, Ind. Steam washing and purifying apparatus .....	712,368	Oct. 28	3769	824	101	828
Ebner, Peter, Columbus, assignor, by mesne assignments, to H. Black, Plain City, Ohio. Fire-shutter .....	698,475	Apr. 29	3898	890 891	99	889
Eccles, Richard, Auburn, N. Y. Thill-coupling .....	714,163	Nov. 25	3326	733	101	1637
Eccleston, Charles W., Centralia, Wash. Crosscut-saw .....	717,363	Dec. 30	3371	1167 1168	101	3036
Echemendia, Leandro. (See Figueredo and Echemendia.)						
Ecker, Heinrich, Sinzig, Germany. Military stool .....	692,506	Feb. 4	500	117	98	901
Eckert, Charles F., assignor to W. M. Bird, Jr., Indianapolis, Ind. Type-writer attachment .....	716,011	Dec. 16	2633	580	101	2418
Eckert, Heinrich. (See Debes, Eduard, assignor.)						
Eckert, Herman F. (See Fisher and Eckert.)						
Eckert, Joseph, New York, N. Y. Window shade and fixture .....	703,773	July 1	731	162	100	147
Eclipse Office Furniture Company of Ottawa. (See Seybold and Mountford assignors.)						
Economic Machine Company. (See Williams, George R., assignor.)						
Economical Gas Apparatus Construction Company et al. (See Merrifield, Leonard L., assignor.)						
Economy Furnace Company. (See Gallagher, George S., assignor.)						
Economy Locomotive Sander Company. (See Hooper, John C., assignor.)						
Ecroyd, Samuel, Chorlton-cum-Hardy, near Manchester, and E. E. Marsden, Didsbury, near Manchester, England. Apparatus for unbalancing raw cotton .....	697,459	Apr. 15	2020	446	99	464
Edblad, Johan W., Asele, Sweden. Driving mechanism for cycles .....	690,411	Jan. 7	48	11	98	12
Edkins, Edward R., St. Louis, Mo. Boiler-setting .....	702,414	June 17	2048	466	99	2566
Eddy, George W., assignor to Scovill Manufacturing Company, Waterbury, Conn. Air-pump .....	695,199	Mar. 11	1645	366	98	2077
Eddy, Richard H., Providence, R. I. Syringe .....	696,728	Apr. 1	631	142	99	137
Eddy, Richard H., Providence, R. I. Syringe-bulb .....	716,526	Dec. 23	3664	800	101	2646
Eddy, Richard H., and J. B. Johnston, Providence, R. I. Vaginal syringe .....	691,698	Jan. 21	2511	562	98	558
Eddy, Walton A., Randolph, N. Y. Foot-rest attachment for chairs .....	694,538	Mar. 4	394	86	98	1796
Edelen, William R., Washington, D. C. Burglar alarm or door-signal. (Reissue) .....	12,057	Nov. 25	4235	936	101	1817
Edenborough, Arthur. (See Frölich, Duth, and Edelman.)						
Edenborough, Harold, Snarebrook, assignor of one-half to G. H. Price and Co., London, England. Wheel for vehicles .....	695,805	Mar. 18	2739	624	98	2319
Eder, Reinhold, assignor to E. Schuster, Berlin, Germany. Lasting-machine .....	694,476	Apr. 20	3900	861	99	889
Edgar, Butler, Danville, Pa. Fish-hook .....	696,018	Mar. 25	3138	708	98	2414
Edgar, Ellis F., Woodbridge, N. J. Boiler .....	698,825	Apr. 29	4642	1023 1024	99	1051
Edgar, George B., Lawrence, Kans. Seal-lock .....	712,275	Oct. 28	3611	788	101	794
Edgar, John, Hydepark, Mass. assignor to Becker-Brainard Milling Machine Company, Portland, Me. Change-feed mechanism .....	714,567	Nov. 25	4067	900	101	1785
Edgerton, A. Lewis, Chicago, Ill. Hand-stamp .....	694,318	Feb. 25	4061	903	98	1636
Edge, William, Brooklyn, assignor to A. N. Benjamin, New York, N. Y. Staple forming and driving mechanism .....	702,091	June 10	1408	330 331	99	2427
Edgecombe, Edward F., Cuyahoga Falls, Ohio. Foot-power hammer .....	710,567	Oct. 7	328	71	101	66
Edgely, Henry H., Altamont, Pa. Ringless curtain-pole .....	700,539	Aug. 12	1961	291	100	1345
Edgerly, Clarence E., Biddeford, Me. Game apparatus .....	709,134	Sept. 16	2174	498	100	2459
Edgerly, Isaiah I., Swampscott, Mass. Clothes-line reel .....	698,477	Apr. 29	3900	861	99	889
Edgerton, Arthur D., assignor of one-half to H. C. Campion and J. W. Jennings, Philadelphia, Pa. Storage battery .....	702,361	June 10	1932	440	99	2521
Edgerton, Joseph W. (See Sjoberg, Albert, assignor.)						
Edgerton, Nathan H., Philadelphia, Pa. Dynamo and magneto-electric machine .....	708,803	Sept. 9	1474	336 337	100	2295
Edgerton, Nathan H., Philadelphia, Pa. Dynamo and magneto-electric machine .....	708,875	Sept. 9	1628	374	100	2328
Edison Phonograph Works. (See Waterman and Berthold, assignors.)						
Edison, Simeon O., East Orange, N. J. Treating fibers of annual growth for industrial purposes .....	704,698	July 15	2469	533	100	532
Edison Storage Battery Company. (See Edison, Thomas A., assignor.)						
Edison, Thomas A. (See White, James H., assignor.)						
Edison, Thomas A., Llewellyn Park, N. J. Electric meter .....	708,051	June 24	3962	750	99	2833
Edison, Thomas A., Llewellyn Park, N. J. Apparatus for bricking pulverized material .....	703,592	July 1	336	76	100	67
Edison, Thomas A., Llewellyn Park, N. J. Reproducer for phonographs .....	703,774	July 1	733	162 163	100	147
Edison, Thomas A., Llewellyn Park, N. J. Apparatus for concentrating magnetic iron ores .....	704,010	July 8	1180	257	100	250
Edison, Thomas A., Llewellyn Park, N. J. Reproducer for sound-records .....	705,823	July 29	4388	1051	100	1630
Edison, Thomas A., Llewellyn Park, N. J. Kinetoscope. (Reissue) .....	12,057	Sept. 30	4636	1017	100	2098
Edison, Thomas A., Llewellyn Park, N. J. Kinetoscopic film. (Reissue) .....	12,038	Sept. 30	4639	1048	100	2099

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Edison, Thomas A., Llewellyn Park, N. J. Duplicating phonograms	713,209	Nov. 11	1410	319	101	1203
Edison, Thomas A., Llewellyn Park, N. J. Coating phonograph records	713,863	Nov. 18	2998	603	101	1485
Edison, Thomas A., Llewellyn Park, N. J., assignor to Edison Storage Battery Company. Reversible galvanic battery	692,507	Feb. 4	502	117 118	98	901
Edison, Thomas A., Llewellyn Park, N. J., assignor to Edison Storage Battery Company. Reversible galvanic battery	700,136	May 13	1964	451	99	1580
Edison, Thomas A., Llewellyn Park, N. J., assignor to Edison Storage Battery Company. Reversible galvanic battery	700,137	May 13	1965	452	99	1590
Edison, Thomas A., Llewellyn Park, N. J., assignor to Edison Storage Battery Company. Reversible galvanic battery	701,804	June 3	928	206	99	2302
Edison, Thomas A., Llewellyn Park, N. J., assignor to Edison Storage Battery Company. Reversible galvanic battery	704,303	July 8	1743	381	100	366
Edison, Thomas A., Llewellyn Park, N. J., assignor to Edison Storage Battery Company. Reversible galvanic battery	704,304	July 8	1744	381	100	366
Edison, Thomas A., Llewellyn Park, N. J., assignor to Edison Storage Battery Company. Electrode for batteries	704,305	July 8	1746	381	100	367
Edison, Thomas A., Llewellyn Park, N. J., assignor to Edison Storage Battery Company. Reversible galvanic battery	704,306	July 8	1748	381	100	367
Edler, Lewis J., et al. (See MacMillan, Clyde, assignor.)						
Edmison, George A., and A. H. Myers, Spokane, Wash. Trussed scaling-ladder	690,374	May 6	403	108	99	1200
Edmiston, George F., Chicago, assignor of one-half to G. R. Ainsworth, Wilmette, Ill. Steam cooking utensil	707,217	Aug. 19	2329	521	100	1620
Edmond, Oscar G., Wausau, Wis. Lathe	712,277	Oct. 23	3614	789 790	101	795
Edmonds, Austin B., Ridgefield, Wash. Combined saw set, gage, swage, and jointer	693,501	Feb. 18	2440	534	98	1348
Edmonds, Henry, Birmingham, England. Mechanical movement	712,376	Oct. 28	3612	789	101	794
Edmonds, Thomas H., Washington, D. C. Bicycle package-carrier	702,292	June 10	1801	412	99	2196
Edmondson, Gilbert W., Champaign, Ill. Door-calendar	690,837	May 13	1372	318	99	1471
Edmund, Wilbraham, Ealing, assignor to himself and A. Macnab, London, England. Pneumatic tire	714,164	Nov. 25	3327	733 734	101	1637
Edmunds, John, Waltham, Mass. Apparatus for destroying gases	690,296	May 6	314	72	99	1238
Edmunds, John, Waltham, Mass. Apparatus for manufacturing sulfurous acid	711,485	Oct. 21	2992	458	101	464
Edmunds, Lou C., Boston, Mass. Skirt-holder	713,972	Nov. 18	2933	866	101	1594
Edner, Edwin, and M. Wildermann, London, England. Electrolytic decomposition of alkaline salts	709,971	Sept. 30	3852	867	100	2833
Edson, Eugene R., Cleveland, Ohio. Condensing apparatus	690,793	May 13	1282	296	99	1451
Edson, Eugene R., Cleveland, Ohio. Obtaining gelatin-yieldable liquids	703,240	June 24	3623	833	99	2107
Edson, Eugene R., Cleveland, Ohio. Drying oil yieldable or oil-containing material	703,393	July 1	57	11	100	14
Edson, Eugene R., Cleveland, Ohio. Apparatus for separating naphtha from oil	704,011	July 8	1184	258	100	281
Edson, Eugene R., Cleveland, Ohio. Rendering apparatus	707,565	Aug. 26	2985	674	100	1781
Edson, Eugene R., Cleveland, Ohio. Reducing or rendering fish or other material	707,566	Aug. 26	2991	674	100	1783
Edson, Eugene R., Cleveland, Ohio. Rendering apparatus	707,567	Aug. 26	2993	674	100	1783
Edson, Eugene R., Cleveland, Ohio, assignor to Edison Reduction Machinery Company. Augusta, Me. Apparatus for disposing of foul vapors	714,165	Nov. 25	3333	734 735	101	1638
Edson Reduction Machinery Company. (See Edson, Eugene R., assignor.)						
Edward Miller & Company. (See Williams, Frank T., assignor.)						
Edward Miller & Company et al. (See Beck and Homan, assignors.)						
Edward Stern & Company. (See Schneider, Carl, assignor.)						
Edwards, Able, Range, Okla. Ter. Wire-gate fastener	692,996	Feb. 11	1440	313	98	1121
Edwards, Arthur H., London, England. Apparatus for the transmission of power in varying directions	703,904	July 1	980	213 214	100	196
Edwards, Arthur H., London, England. Mechanism for releasing or operating photographic shutters	708,876	Sept. 9	1630	374 375	100	2328
Edwards, Arthur W., Narragansett Pier, R. I. Shoe-holding device	711,200	Oct. 14	1562	386	101	840
Edwards, Arthur W., Sacramento, Cal. Acetylene-gas apparatus	702,082	June 10	1471	331	99	2128
Edwards, Chandler S., et al. (See Coleman, Albert, assignor.)						
Edwards, Charles, Brooklyn, N. Y. Type-writing clavier	700,906	May 27	3505	804 805	99	1947
Edwards, Charles, Brooklyn, N. Y. Mechanical base-ball pitcher	702,415	June 17	2049	467	99	2566
Edwards, Charles R., Pittsburgh, Pa. Rail-joint	705,506	July 29	4369	946	100	946
Edwards, Charles W., St. Thomas, England. Musical skipping-rope	693,039	Feb. 18	2814	618	98	1424
Edwards, Edgar A., Cincinnati, Ohio. Electric-arc lamp	708,082	Sept. 2	70	16, 17	100	1995
Edwards, Edward R., Norwood, Ohio. System of keeping accounts	690,708	Jan. 7	659	144 145	99	139
Edwards, Edward W., Cincinnati, Ohio. Day and night corner-sign	715,769	Dec. 16	2132	477	101	2310
Edwards, Elbert C., Emporia, Kans. Elevator-stop	706,644	Aug. 12	1246	275	100	1886
Edwards, Ellsworth J., Aspen, Colo. Wheel	705,567	July 29	4370	947	100	946
Edwards, Eugene O., assignor to Fountain City Drill Company, La Crosse, Wis. Tooth for seeders and cultivators	697,460	Apr. 15	2022	446	99	464
Edwards, Ezra, Webster City, Iowa. Ferrule for awl or knife handles	699,794	May 13	1284	297	99	1451
Edwards, F. G., et al. (See Bennet, Charles R., assignor.)						
Edwards, Frank W., Logansport, Ind. Lubricator	706,224	Aug. 5	429	91	100	1204
Edwards, George and J., Stockport, England. Hat-rest	700,907	May 27	3509	805 806	99	1948
Edwards, Harold, Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution	712,050	Oct. 28	3201	701	101	713
Edwards, Ira C. (See Cain, Charles E., assignor.)						
Edwards, Isaac L., assignor of two-thirds to E. A. Sanders, L. M. and A. Cota, Aurora, Ill. Trolley-wire hanger	697,937	Apr. 15	2885	636	99	644
Edwards, Isaac L., assignor of two-thirds to E. A. Sanders, L. M. and A. Cota, Aurora, Ill. Grain-car door	701,551	June 3	491	108	99	2210
Edwards, J. W. (See Merriman, Alvin F., assignor.)						
Edwards, James, Peru, Ill. Wheel	692,256	Feb. 4	73	16	98	814
Edwards, James D., St. Louis Mo. Brake	691,848	Jan. 28	2820	632	98	638
Edwards, James H. T., Sanford, S. C. Combined spring-bed and invalid-chair	690,844	Jan. 7	908	203	98	192
Edwards, James N., Macon Mo. Rotary engine	706,781	Aug. 12	1401	312 313	100	1419
Edwards, Jennie A., Hot Springs, Ark. Plant-fertilizer-distributing receptacle	701,316	June 3	69	11	99	2123
Edwards, John. (See Edwards, George and J.)						
Edwards, John C., Brookline, Mass. Electromechanical controlling mechanism for looms	690,644	Jan. 7	532	116	98	114
Edwards, John C., Brookline, assignor to Draper Company, Hopedale, Mass. Filling-replenishing loom	691,456	Jan. 21	2072	464	98	466
Edwards, John D., Weedsport, N. Y. Oil-filter	713,292	Nov. 11	1624	367	101	1244
Edwards, John W., Cleveland, Ohio. Non-refillable bottle	710,319	Sept. 30	4492	1013	100	2369
Edwards, Joseph, Brooklyn, N. Y. Bushing for centrifugal pumps	693,247	Feb. 11	1956	425	98	1236



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Edwards, Lewis J. (See Wright and Edwards.)						
Edwards, Oliver M., Syracuse, N. Y. Shade-roller	704,738	July 15	2547	550	100	547
Edwards, Oliver M., Syracuse, N. Y. Shade-roller	708,701	Sept. 9	1264	290	100	2248
Edwards, Percy M., et al. (See Russell, Oscar, assignor.)						
Edwards, Philip W., Portland, Me. Combined eraser and calendaring device	715,770	Dec. 16	2133	478	101	2311
Edwards, R. M., et al. (See Bloodgood, James, assignor.)						
Edwards, Richard N., Williamsport, assignor of one-half to J. H. Harty, Mingo, Mo. Hand-brake for cars	715,250	Dec. 9	1149	246	101	2089
Edwards, Robert B., Worcester, Mass. Scythe-snath fastener	711,558	Oct. 21	2238	486	101	495
Edwards, Roland H., London, England. Projecting apparatus	704,419	July 8	2015	438	100	424
Edwards, Samuel, Charleston, W. Va. Sawmill feed-works	714,870	Dec. 2	489	103	101	1934
Edwards, Thomas, Sebastopol, Ballarat, Victoria, Australia. Generator for chlorine gas	709,004	Sept. 16	1887	433	100	2398
Edwards, Thomas, Sebastopol, Ballarat, Victoria, Australia. Furnace for roasting ores	714,464	Nov. 25	3885	857 858	101	1748
Edwards, Thomas E., assignor of one-half to G. T. Allmendinger, Ann Arbor, Mich. Machine for separating plastic materials into shreds	702,933	June 24	3089	699	99	2788
Edwards, Victor E. (See George and Edwards.)						
Edwards, Victor E., Worcester, Mass. Rolling-mill	709,972	Sept. 30	3833	867 868	100	2833
Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Furnace	701,022	May 27	3733	855	99	1965
Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Conveyor for metal rods or bars	701,024	May 27	3737	856	99	1996
Edwards, Victor E., and E. H. Carroll, Worcester, Mass. Feeding mechanism for billet-heating furnaces	701,023	May 27	3735	856	99	1995
Edwards, Victor E., and P. B. Morgan, assignors to Morgan Construction Company, Worcester, Mass. Furnace for heating ingots	691,849	Jan. 28	2821	639	98	639
Edwards, William J., and W. M. Wauters, Bayonne, N. J. Doweling-machine	705,657	Jan. 29	4524	983 984	100	976
Edwards, William J., and W. M. Wauters, Bayonne, N. J. Machine for drilling edges of boards	705,658	July 29	4331	984	100	978
Eek, Albin C., and A. F. Cederquist, St. Louis, Mo. Rotary engine	708,328	Sept. 2	611	138 139	100	2106
Effron, Jacob, et al. (See Simpson, Daniel B., assignor.)						
Egan, Charles E., Durham, N. C. Pay-telephone	714,680	Dec. 2	54	11, 12	101	1848
Egan, Charles E., Durham, N. C. Signal-bell for telephone systems	714,681	Dec. 2	57	12	101	1849
Egan, Charles E., assignor to J. S. Carr, Durham, N. C. Apparatus for teaching telegraphy	695,447	Mar. 18	2078	469	98	2185
Egan, Charles E., assignor to J. S. Carr, Durham, N. C. Lightning-arrester	708,329	Sept. 2	613	139	100	2106
Egan, Patrick J. (See Jordan and Egan.)	695,546	Mar. 18	2265	512	98	2222
Egbers, George H., Cincinnati, Ohio. Device for raising or lowering awnings	705,744	July 29	4701	1017	100	1010
Egelal, Hans P., Thor, Iowa. Gate	707,218	Aug. 19	2331	521	100	1629
Eggen, Joseph B. (See Thompson, William H., assignor.)						
Egger, Christian A., New Kensington, Pa. Railway-switch	692,125	Jan. 28	3312	751	98	737
Eggers, Alvin. (See Wolf, Josef, assignor.)						
Eggers, Anton C., trustee. (See Phillipson, Emil, assignor.)						
Eggers, Anton C., assignor to Goodyear India Rubber Glove Manufacturing Company, New York, N. Y. Box for fountain-syringes	702,187	June 10	1638	367 439 440	99	2463
Egli, John, Minier, Ill. Dumping apparatus	700,115	May 13	1892	439 440	99	1576
Egnér, Carl. (See Stafsing and Egnér.)						
Egry Autographic Register Company. (See Schirmer, Theodor F., assignor.)						
Ehle, Frank G. O., Buffalo, N. Y. Nestable pail	699,402	May 6	642	148	99	1308
Ehlmann, Erich, Dresden, Germany. Manufacturing autotype-plates	691,535	Jan. 21	2204	435	98	494
Ehrenfeld, Charles, Pasadena, Cal. Dredge and well-borer	706,396	Aug. 5	796	173	100	1275
Ehret, Cornelius D., Washington, D. C., assignor of one-half to American Wireless Telephone and Telegraph Company. Wireless-telegraph system	699,158	May 6	57	15	99	1188
Ehret, Cornelius D., Philadelphia, Pa., assignor to American Wireless Telephone and Telegraph Company and Consolidated Wireless Telegraph and Telephone Company. Automatic selective system	707,056	Aug. 12	2012	450	100	1545
Ehret, Cornelius D., Washington, D. C., assignor to American Wireless Telephone and Telegraph Company and Consolidated Wireless Telegraph and Telephone Company. Wireless-telegraph system	710,354	Sept. 30	4549	1027	100	2381
Ehret, Cornelius D., Rosemont, Pa., assignor to Consolidated Wireless Telegraph and Telephone Company. Wireless-telegraph system	710,355	Sept. 30	4552	1027	100	2381
Ehrhardt, Gustav, Eisenach, Germany. Means for securing center pivots to axles in guns	700,633	May 20	2953	678	99	1816
Ehrhardt, Gustav, Eisenach, Germany. Firing-pin arrangement for breech-loading ordnance	700,701	Sept. 23	3282	735	100	2702
Ehrhardt, Gustav, Eisenach, Germany. Breech mechanism for guns	715,039	Dec. 2	756	160	101	1990
Ehrhardt, Gustav, Eisenach, Germany. Means for securing the pivots of guns to carriage-axles	717,364	Dec. 30	5373	1168	101	3037
Ehrhardt, John A., et al. (See Zander, William A. H., assignor.)						
Ehrhardt, Ludwig, assignor of one-half to T. Sehmer, Malstatt-Burbach, Germany. Valve	717,365	Dec. 30	5373	1168	101	3037
Ehrhart, George, Fulton, N. Y. Paper-making machine	703,775	July 1	735	163	100	148
Ehrle, Oscar F. (See Oehmen, Gustave N., assignor.)						
Ehrlich, John B., Indianapolis, Ind. Combined hot blast and smoke-consumer	698,478	Apr. 29	3902	862	99	890
Ehrlich, John B., Indianapolis, Ind. Hot-blast for ranges or cooking-stoves	701,474	June 3	346	77	99	2180
Ehrlich, Leo. (See Fassett, Francis K., assignor.)						
Ehrman, Clarence P. (See Gibbs, James E., assignor.)						
Eichberg, Rudolph C. (See Hutchinson, Maurice P., assignor.)						
Eichelbaum, Georg, Berlin, Germany. Obtaining food extracts	708,330	Sept. 2	615	1086 1087	100	2107
Eichenberger, William, Windber, Pa. Soot-cleaner for steam-boilers	705,912	July 29	4993	1087	100	1070
Eichenberger, Otto, assignor to P. Galopin, Geneva, Switzerland. Perspectograph	704,307	July 8	1751	382	100	368
Eichengrün, Arthur, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Co., New York, N. Y. Photographic developer	707,403	Aug. 19	2677	.....	100	1701
Eichengrün, Arthur, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Co., New York, N. Y. Pyro-technic compound	710,047	Sept. 30	3976	.....	100	2850
Eichengrün, Arthur, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Co., New York, N. Y. Photographic fixing-bath	710,568	Oct. 7	331	.....	101	67
Eichengrün, Arthur, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Co., New York, N. Y. Developing photographic pictures	716,396	Dec. 23	3400	.....	101	2590

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Eichengrün, Arthur, and K. Demeler, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Co., New York, N. Y. Developing photographic pictures.	696,019	Mar. 25	3139	-----	98	2415
Eichengrün, Arthur, and K. Demeler, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Co., New York, N. Y. Amidooxybenzyl compound and making same.	696,020	Mar. 25	3140	-----	98	2415
Eichengrün, Arthur, and R. Berendes, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Co., New York, N. Y. Zinc gelatose compound.	698,694	Apr. 29	4361	-----	99	988
Eichengrün, Arthur, and K. Demeler, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Co., New York, N. Y. Photographic developer.	703,241	June 24	3625	-----	99	2905
Eichengrün, Arthur, and K. Demeler, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Co., New York, N. Y. Developing photographic pictures.	703,242	June 24	3626	-----	99	2905
Eichengrün, Arthur, and T. Becker, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Co., New York, N. Y. Photographic developer and making same.	703,243	June 24	3627	-----	99	2905
Eichholtz, William B., Prosperity, assignor of nine-twentieths to F. C. Hurst and F. L. Harrington, Joplin, Mo. Shirt and collar.	709,309	Sept. 16	2508	565	100	2529
Eichhorn, Augustus, Orange, N. J. Radiator.	713,973	Nov. 18	2934	651	101	1534
Eichhorn, Charles H. (See Eichhorn and Dernel.)	709,758	Sept. 23	3400	763	100	2725
Eichhorn, Charles J. (See Conger and Eichhorn.)						
Eichhorn, Frederick H. and C. H. and F. P. Dernel, Athens, N. Y. Ice-runway.	704,450	July 8	2020	439	100	425
Eick, Otto, Baltimore, Md. Heel-cushion.	699,297	May 6	316	72	99	1239
Eickemeyer, Carl, et al., executors. (See Eickemeyer, Rudolf.)						
Eickemeyer, Mary T., et al., executors. (See Eickemeyer, Rudolf.)						
Eickemeyer, Rudolf, deceased, Yonkers, N. Y.; R. J. R., C., and M. T. Eickemeyer, executors. Alternating-current electric motor and controlling means therefor.	700,310	May 20	2354	536 537 538 539 540	99	1091
Eidel, Johann B., Jr., Kehl, and G. Hartmann, Strasburg, Germany. Rotary engine.	695,095	Mar. 11	1451	821 822	98	2036
Eidmann, Edward C. (See Wood, Augustus L., assignor.)						
Eidmann, Wilhelm E. (See Moerer and Eidmann.)						
Eigen, Benno vom, assignor to A. Goertz & Co., Newark, N. J. Holding-catch for purse or bag frames.	716,397	Dec. 23	3401	742	101	2590
Eikel, Joseph, et al. (See Seifert, John W., assignor.)						
Eikel, Louise. (See Seifert, John W., assignor.)						
Eilenberger, Peter E., Belvidere, N. Y. Try-square.	709,759	Sept. 23	3402	763	100	2725
Eilerman, Benjamin F. (See Grimes, Sunderland, and Eilerman.)						
Eilertsen, Lucien, Paris, France. Dental apparatus.	709,973	Sept. 30	3856	868	100	2834
Elmer, August, New York, N. Y. Crucible.	716,680	Dec. 23	3881	848	101	2694
Einfeldt, Emil, Davenport, Iowa, assignor to Bettendorf Metal Wheel Company. Machine for forming spoke-holes in hubs.	690,906	Jan. 7	1017	239	98	212
Einfeldt, Emil, Davenport, Iowa, assignor to Bettendorf Metal Wheel Company. Making metal wheels.	700,024	May 13	1727	397 398 399	99	1543
Einfeldt, Emil, Davenport, Iowa, assignor to Bettendorf Metal Wheel Company. Machine for making metal wheels.	700,025	May 13	1729	397 398 399	99	1544
Einfeldt, Emil, Davenport, Iowa, assignor to Bettendorf Metal Wheel Company. Cleat for traction-wheels.	701,180	May 27	4007	921	99	2054
Einfeldt, Emil, Davenport, Iowa, assignor to Bettendorf Metal Wheel Company. Metal wheel.	703,697	July 1	602	133	100	119
Einfeldt, Emil, Davenport, Iowa, assignor to Bettendorf Metal Wheel Company. Machine for forming wheel-hubs from tubular blanks.	705,518	July 22	4213	915 916	100	900
Einstein, Alfred C., St. Louis, Mo. Acetylene-gas generator.	693,248	Feb. 11	1957	425	98	1227
Einstein, Alfred C., St. Louis, Mo. Acetylene-gas generator.	700,908	May 27	3510	806	99	1948
Einstein, Alfred C., St. Louis, Mo. Acetylene-gas generator.	706,810	Aug. 12	1575	353	100	1455
Eippert, Edward C. (See Kimberlin, Winfield M., assignor.)						
Eis, Reinhold J., Two Rivers, Wis. Bale-tie machine.	698,095	Apr. 29	4361	961 962	99	988
Eisaman, Amos B., Greensburg, Pa. Wagon-bolster stake.	690,845	Jan. 7	909	203	98	192
Eisele, Jacob, Pittsburg, Pa. Switch-operating mechanism.	694,006	Feb. 25	3427	754	98	1565
Eisele, Josef. (See Lombardo, Wilhelm, assignor.)						
Eiseman, Moses H., Chicago, Ill. Hook for attaching hose-supporting pads.	711,657	Oct. 21	2416	532	101	532
Eiseman, Moses H., Chicago, Ill. Hose-supporter.	715,566	Dec. 9	1751	387	101	2210
Eiseman, Moses H., Chicago, Ill., assignor of one-half to L. Roser, Jr. Hose-supporter.	705,519	July 22	4215	916	100	901
Eisenhart, Edward H., New York, N. Y. Match-making machine.	692,126	Jan. 28	3314	751 752	98	737
Eisenhart, Edward H., New York, N. Y. Match-making machine.	716,691	Dec. 23	3981	871 872	101	2714
Eisenhuth, Oscar, assignor to C. F. Heyerman, Detroit, Mich. Pipe-coupling.	692,642	Feb. 4	747	173	98	953
Eisenmann, Jacob, Frankfurt-on-the-Main, Germany. Guard device for coupled cars.	709,145	Sept. 16	2716	498	100	2460
Eisenmann, Richard, Chicago, Ill. Boiler-front.	715,466	Dec. 9	1545	335	101	2169
Ek, Arvid, Portland, Me. Net-support for ping-pong tables.	709,699	Sept. 23	3227	720	100	2691
Ekelund, John A., Minneapolis, assignor of one-fourth to N. A. Johnson, Murdock, Minn. Folding umbrella.	698,396	Apr. 22	3744	827	99	841
Ekelund, John A., Minneapolis, assignor of one-fourth to N. A. Johnson, Murdock, Minn. Folding bicycle lunch-box.	698,397	Apr. 22	3745	827	99	841
Ekelund, John A., Minneapolis, assignor of one-fourth to N. A. Johnson, Murdock, Minn. Combined cane and fishpole.	706,925	Aug. 5	432	92	100	1204
Ekenberg, Martin, Gothenburg, Sweden. Vacuum-pan.	711,719	Oct. 21	2542	559	101	560
Eklund, Alexander, Attleboro, Mass. Bottle-stopper.	704,820	July 15	2717	588	100	581
Eklund, Peter S., Newcastle, Pa. Nut-lock.	690,846	Jan. 7	910	203	98	192
Elam, William E., Atlanta, Ga. Reversibly-suspended flexible sheet.	703,394	July 1	58	11	100	14
Ebers, Alexander D., Hoboken, N. J. Treating fine iron ores for blast-furnace.	708,391	Sept. 2	616	-----	100	2107
Elden, Leonard L., Boston, assignor of one-half to S. B. Condit, Jr., Somerville, Mass. Electrical switch.	707,505	Aug. 19	2849	645	100	1738
Elder, Edward H., assignor to Hopkins & Allen Arms Co., Norwich, Conn. Ejector for breakdown guns.	690,568	Jan. 7	384	79	98	83
Elder, Fred L. (See Elder, James E. and F. L.)						
Elder, Horace W., Dawkins, assignor of one-half to M. J. Toof, Wigwam, Colo. Head-gate.	716,012	Dec. 16	2636	580 581 582	101	2418
Elder, James E. and F. L., Dayton, Wash. Threshing-machine.	693,505	Feb. 18	2442	534 535	98	1348
Eldred, Byron E., Brookline, Mass. Calcining lime, &c.	692,257	Feb. 4	74	16	98	814
Eldridge, Hillary, Memphis, Tenn. Gas-burner.	697,461	Apr. 15	2023	447	99	464
Eldridge, Hillary, Memphis, Tenn. Gas-burner.	701,025	May 27	3741	856	99	1997
Eldridge, Hillary, Memphis, Tenn. Gas-stove.	711,389	Oct. 14	1907	415	101	412



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Eldridge, John, San Francisco, Cal. Can-body-forming machine .....	712,998	Nov. 4	907	233	101	1100
Eldridge, Reuben C., Niagara Falls, Canada. Tethering-pin .....	716,010	Dec. 16	2632	234	101	2418
Electric Boat Company. (See Brady, Francis W., assignor.)						
Electric Boat Company. (See Holland, John P., assignor.)						
Electric Controller and Supply Company. (See Eastwood, Arthur C., assignor.)						
Electric Furnace Company. (See Conley, Michael R., assignor.)						
Electric Gas Lighting Company. (See Howes, Charles F., assignor.)						
Electric Gas Lighting Company. (See Thomas, Edward G., assignor.)						
Electric Gas Lighting Company. (See Thomson, Henry C., assignor.)						
Electric Laundry Machinery Co. (See Gustafson, Axel R., assignor.)						
Electric Lighting Boards. (See Lefebvre, Armand, assignor.)						
Electric Ozone Syndicate. (See Smith, Robert F. W., assignor.)						
Electric Power Development Company. (See Kennedy, Charles W., assignor.)						
Electric Power Development Company. (See Pocock and Kennedy, assignors.)						
Electric Purifying Company. (See Holland, Charles E., assignor.)						
Electric Railway Signalling Syndicate. (See Spagnoletti, James E., assignor.)						
Electric Resistance and Heating Company. (See Bachmann and Vogt, assignors.)						
Electric Sparking and Illuminating Company. (See Wilson, James M., assignor.)						
Electric and Steam Railway Supply Co. (See Hoffman and Powers, assignors.)						
Electric Storage Battery Company. (See Entz, Justus B., assignor.)						
Electric Storage Battery Company. (See Ford, Bruce, assignor.)						
Electric Storage Battery Company. (See Lesley, Hugh, assignor.)						
Electric Storage Battery Company. (See Lloyd, Henry H., assignor.)						
Electric Storage Battery Company. (See Martin, Harold M., assignor.)						
Electric Storage Battery Company. (See Rodman, Hugh, assignor.)						
Electric Storage Battery Company. (See Smith, Edward W., assignor.)						
Electric Storage Battery Company. (See Steinmetz, Edward G., assignor.)						
Electric Storage Battery Company. (See Taylor, William, assignor.)						
Electric Vehicle Company. (See Maxim, Hiram P., assignor.)						
Electric Vehicle Company. (See Maxim and Pope, assignors.)						
Electrical Construction Supply Co. (See Poole, Lemon, assignor.)						
Electrite Company. (See Gill, Edwin R., assignor.)						
Electrite Company. (See Sundh, August, assignor.)						
Electro-Chemical Company. (See Le Sueur, Ernest A., assignor.)						
Electro Dental Manufacturing Company. (See Schramm, Adolph W., assignor.)						
Electro Dental Manufacturing Company. (See Schramm and Wilford, assignors.)						
Electro Dental Manufacturing Company. (See Schramm, Wilford, and Fulton, assignors.)						
Electrograph Company of America. (See Palmer, Herbert R., assignor.)						
Elevated Whirling Scenic Railway Company. (See St. Clair, Joseph, assignor.)						
Elevator Safety Company. (See Kirsch, Charles W., assignor.)						
Elevator Safety Device Company. (See Kirsch, Charles W., assignor.)						
Elevator Supply & Repair Company. (See Braden and Smalley, assignors.)						
Elevator Supply & Repair Company. (See Collett, Samuel D., assignor.)						
Elevator Supply & Repair Company. (See Fassett, Francis K., assignor.)						
Eley, David, Lakefork, Ohio. Corn-planter .....	705,051	July 22	3219	696	100	702
Eley, David, Lakefork, Ohio. Corn-planter .....	705,052	July 22	3224	697	100	708
Eley, David, Lakefork, Ohio. Corn-planter .....	705,053	July 22	3228	698	100	708
Eley, Thomas J., <i>et al.</i> (See Bangley, Joseph L., assignor.)				699		
Elger, William D., (See Beam, William D., assignor.)						
Elgin Wind Power and Pump Company. (See Snow, Gilbert B., assignor.)						
Elias, Abraham J. (See Ernewein, Frank J., assignor.)						
Elias, Friedrich, Berlin, Germany. Making peroxid of magnesium .....	709,086	Sept. 16	2065	-----	100	2434
Elias, Leopold. (See Raphael and Elias.)						
Elias, Leopold, Breslau, Germany. Asbestos stereotype .....	709,398	Sept. 16	2092	-----	100	2567
Ellisen, Otto, and P. C. Nelson, Brooklyn, N. Y. Coal-derrick for vessels .....	714,405	Nov. 25	3888	858	101	1748
Elick, George. (See Brown and Elick.)						
Elieson, Chaimsonovitz P., and V. de Bobinsky, Paris, France. Electric accumulator ..	692,433	Feb. 4	371	91	98	876
Elizondo, Francisco, Chucho de Pueblo Nuevo, Cuba. Cane-feeding mechanism for cane-mills ..	698,379	Apr. 22	3713	820	99	835
Elkan, Walter, assignor to C. F. Cooke, Chicago, Ill. Liquid-receptacle .....	709,211	Sept. 16	2313	525	100	2487
Elken, Gudbrand L., <i>et al.</i> (See Coleman, Albert, assignor.)						
Elken, Mikkel L., <i>et al.</i> (See Coleman, Albert, assignor.)						
Ellenbecker, John, Port Washington, Wis. Tilting-chair .....	696,667	Apr. 1	509	117	99	110
Ellenberger, Charles C., Jr. (See Darling and Ellenberger.)						
Ellenbogen, Mangold H., and A. L. Levi, Paterson, N. J. Neckband-shaper .....	701,181	May 27	4008	921	99	2054
Ellershausen, Francis, assignor to Sulphides Reduction. (New Process,) Limited, London, England. Treatment of complex and refractory ores ..	700,311	May 20	2351	-----	99	1092
Ellershausen, Francis, and W. Western, London, England. Treatment of zinc ores ..	715,771	Dec. 16	2194	-----	101	2311
Elbery, Robert L., Portsmouth, N. H., assignor to Morley Button Manufacturing Company, Boston, Mass. Eyelet .....	691,850	Jan. 28	2824	633	98	639
Ellicott, Joseph R., <i>et al.</i> (See Norrmand, Joseph E., assignor.) (Reissue.)						
Ellinger, Julian O., Baltimore, Md. Fireproof building structure .....	702,093	June 10	1473	331	99	2428
Ellington, Allen W., Los Angeles, Cal. Applicator .....	706,732	Aug. 12	1402	313	100	1419
Ellingwood, Francis L., <i>et al.</i> (See Suman, Harry P., assignor.)						
Ellingwood, Francis L., New York, N. Y. Construction of floors, &c .....	712,278	Oct. 28	3616	790	101	705
Ellingwood, George E. (See Bloom, Philip J., assignor.)						
Ellinwood, Augustus E., Akron, Ohio. Machine for boxing matches .....	707,568	Aug. 26	3000	674	100	1784
Elliot, Dayton W., Minneapolis, Minn. Drier .....	707,765	Aug. 26	3428	772	100	1872
Elliott, Adonijah B., assignor of one-half to G. C. Jerome, Chicago, Ill. Rod-packing ..	712,512	Nov. 4	88	22	101	915
Elliott, Alvin D. (See Maynard and Elliott.)						
Elliott, Alvin D., Lawrence, Mass., assignor, by mesne assignments, to United Shoe Machinery Company. Nail-sorting apparatus .....	707,140	Aug. 19	2178	489	100	1596
Elliott, Anah S., Mechanicsville, Iowa. Rake .....	706,307	Aug. 5	798	174	100	1276
Elliott, Arthur H., <i>et al.</i> (See Anderson, Homer, assignor.)						
Elliott Company. (See Elliott, Sterling, assignor.)						
Elliott, David, Toronto, Canada. Folding box .....	698,266	Apr. 22	3531	777	99	797
Elliott, David C. (See Lauer and Elliott.)						
Elliott, David G. (See Sutherland, William S., assignor.)						
Elliott, George R. (See Cushing, John W., assignor.)						
Elliott, Gilbert R., Boston, Mass. Hydrocarbon-burner .....	701,026	May 27	3742	857	99	1997

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Elliott & Hatch Book Typewriter Company. (See Elyar, Matthew S., assignor.)						
Elliott & Hatch Book Typewriter Company. (See Hillard, Frederic W., assignor.)						
Elliott & Hatch Book Typewriter Company. (See Hopkins, Clarence F., assignor.)						
Elliott, Homer P. (See Seagrave and Elliott.)						
Elliott, James, Coventry, England. Tilting holder for barrels	692,434	Feb. 4	372	91	98	876
Elliott, James, Wingham, Canada. Clay pulverizer and separator	712,051	Oct. 28	3203	701	101	713
Elliott, John, Scranton, Pa. Puzzle	702,188	June 10	1639	867	99	2463
Elliott, Lucius J. (See Reichert, John, assignor.)						
Elliott, Myron W., Jr., Beloit, Wis., assignor to Fairbanks, Morse & Company, Chicago, Ill. Windmill mechanism	698,479	Apr. 29	3904	862	99	890
Elliott, Ralph W., Oakley, Cal. Pneumatic pump	709,212	Sept. 16	2314	525	100	2487
Elliott, Richard C., and C. Hollwell, Broadheath, England, assignors to Mergenthaler Linotype Company, New York, N. Y. Means for producing fudge or late-news linotypes	691,615	Jan. 21	2355	529	98	524
Elliott, Sterling, Boston, Mass. Machine for folding and wrapping	696,021	Mar. 25	3141	708	98	2415
Elliott, Sterling, Boston, Mass. Guard for third-rail systems	703,503	July 1	338	76	100	68
Elliott, Sterling, Boston, Mass. Stencil-cutting machine	712,125	Oct. 28	3355	735	101	743
Elliott, Sterling, Boston, Mass. Burner	714,103	Nov. 18	3181	704	101	1588
Elliott, Sterling, Boston, Mass. Addressing-machine	714,790	Dec. 2	278	39,60	101	1894
Elliott, Sterling, assignor to Elliott Company, Boston, Mass. Sorting and addressing machine	707,961	Aug. 26	3812	857	100	1947
Elliott, Sterling, assignor to Elliott Company, Boston, Mass. Stencil-frame	708,628	Sept. 9	1125	535	100	2221
Elliott, Sterling, assignor to Elliott Company, Boston, Mass. Apparatus for cutting stencils	712,124	Oct. 28	3352	734	101	742
Elliott, Sterling, assignor to Elliott Company, Boston, Mass. Addressing-machine	714,789	Dec. 2	276	58,59	101	1593
Elliott, W. H., et al. (See Smith, Gary B., assignor.)						
Elliott, William H., Newcastle, Ind. Head-rest	716,209	Dec. 16	3041	663	101	2503
Elliott, William Y., Anaconda, Mont. Bag-holder	691,120	Jan. 14	1399	318	98	306
Ellis, Arthur W., Sumpter, Oreg. Adjustable window-shade carrier	708,629	Sept. 9	1126	253	100	2221
Ellis, Azro D., Minneapolis, Minn. Cream-separator	697,613	Apr. 15	2291	512	99	518
Ellis, Carleton, Brookline, Mass. Composition for removing paint and varnish and making same	714,880	Dec. 2	491	921	101	1934
Ellis, Charles S., Chicago, Ill. Car-seal	692,836	Feb. 11	1100	246	98	1049
Ellis, Charles S., Chicago, Ill. Spring-upholstery work	692,837	Feb. 11	1102	246	98	1050
Ellis, Edward S., Montclair, N. J. Game apparatus	717,366	Dec. 30	5374	1168	101	3037
Ellis, Edwin. (See Arnold, David B., assignor.)						
Ellis, Frederick J., and A. R. Boug, London, Canada. Broom	701,182	May 27	4009	921	99	2054
Ellis, George A., Mount Vernon, assignor to G. N. Robinson, Brooklyn, N. Y. Furnace grate-bar	710,569	Oct. 7	332	72	101	67
Ellis, George E., Philadelphia, Pa. Knitting-machine	697,078	Apr. 8	1330	295	99	302
Ellis, George H., et al. (See Henry, Curtis B., assignor.)						
Ellis, George H., assignor to Deering Harvester Company, Chicago, Ill. Preparing flax fiber for spinning	701,183	May 27	4010	922	99	2054
Ellis, George H., and J. F. Steward, Chicago, Ill. Automobile mowing-machine	698,188	Apr. 22	3383	742	99	766
Ellis, Halcolm, and N. W. Perkins, Jr., assignors to C. H. Filley, St. Louis, Mo. Adding-machine	707,309	Aug. 19	2499	561	100	1665
Ellis, Hugh, Brownville, Me. Loading device	716,692	Dec. 23	3987	872	101	2716
Ellis, John H. (See Denis, Potter, and Ellis.)						
Ellis, John H., Peoria, Ill. Washing machine	694,143	Feb. 25	3667	811	98	1614
Ellis, Marshall D., Congress Heights, D. C., assignor of one-half to G. M. Field, Highpoint, N. C. Apparatus for preserving foods	694,261	Feb. 25	3901	865	98	1660
Ellis, Marshall D., Congress Heights, D. C., assignor of one-half to G. M. Field, Highpoint, N. C. Apparatus for preserving foods	706,506	Aug. 5	999	220	100	1319
Ellis, Pearis B. (See Werner and Ellis.)						
Ellis, Robert, Niagara Falls, N. Y. Bicycle-frame	712,784	Nov. 4	590	137	101	1022
Ellis, Robert W., New York, N. Y. Operating-halter	699,947	May 13	1603	366	99	1519
Ellis, Samuel H., Hanley, and T. Holt, Stoke-upon-Trent, England. Dipping ceramic glass, &c.	713,621	Nov. 18	2259	502	101	1352
Ellis, Samuel H., and T. Holt, Stoke-upon-Trent, England. Dipping ceramic glass, &c.	714,104	Nov. 18	3181	704	101	1588
Ellis, Samuel J., and C. Neilsen, Memphis, Tenn. Seed-cake trimmer	709,760	Sept. 23	3403	784	100	2726
Ellis, Seale H., Brooklyn, assignor to H. L. Fox, New York, N. Y. Railway-car	710,048	Sept. 30	3977	897	100	2859
Ellis, Seale H., Brooklyn, assignor to H. L. Fox, New York, N. Y. Clamp	710,049	Sept. 30	3989	899	100	2860
Ellis, Stanley T., Strathmore, Victoria, Australia. Clamp applicable as a clothes-peg	717,367	Dec. 30	5375	1169	101	3037
Ellis, Warren E. (See Sweeny, William E., assignor.)						
Ellis, Warren E., Haverhill, Mass. Fastener for shoe-uppers	704,451	July 8	2021	439	100	426
Ellison, James A., Wilmington, Del. Stop-valve	703,564	July 1	339	77	100	68
Ellison, John W., Florence, Miss. Shovel	701,805	June 3	932	207	99	2908
Ellison, Oscar E., Austin, Pa. Wood-splitting machine	705,659	July 29	4532	985	100	978
Ellithorpe, Frederick T., Newark, N. J. Elevator	715,648	Dec. 9	1876	416	101	2236
Ellmore, John, assignor of one-half to F. B. Byers, Altoona, Pa. Joint for flanged beams	711,699	Oct. 21	2506	559	101	552
Ellis, Hallett D., Barrington, Canada. Dust-guard for carriage-axles	716,537	Dec. 23	3665	800	101	2646
Ellis, Edith, Edwin R., assignor of one-fourth to L. A. Stedman, Brooklyn, N. Y. Gas-meter	700,026	May 13	1736	400	99	1545
Ellsworth, Hezekiah, Albuquerque, N. Mex. Terr. Fruit-picker	692,838	Feb. 11	1104	247	98	1050
Ellwanger, John D., Franklin, Iowa. Thill-coupling	701,184	May 27	4014	922	99	2055
Ellwood, Harry H. (See Ranson, Joseph W., assignor.)						
Elmer, Martin, Vandyne, Wis. Burglar-trap for safes	697,462	Apr. 15	2025	447	99	465
Elmore, Alexander S., London, England. Apparatus for separating minerals by selective action of oils	692,643	Feb. 4	748	173	98	953
Elmore, Alexander S., London, England. Apparatus for the separation of minerals by the selective action of oils, &c.	703,905	July 1	982	214	100	196
Elmore, Francis E. (See McDermott and Elmore.)						
Elmqvist, Hugo, Florence, Italy. Furnace for glowing molds for metal castings	717,086	Dec. 30	4847	1050	101	2923
Elsenrath, Andrew, Allegheny, Pa. Rail-joint	696,729	Apr. 1	632	142	99	137
Elsey, William C., Aurora, Mo. Cotton chopper and cultivator	694,055	Feb. 25	3528	777	98	1586
Elson, Benjamin F., Brooklyn, N. Y. Polishing-wheel and manufacturing same	704,789	July 15	3638	500	100	366



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Elsten, L. E. (See Rains, Charles E., assignor.)						
Elstone, Joseph, Hemsworth, England. Apparatus for attaching or detaching handles of brushes, brooms, or the like	702,712	June 17	2610	601	99	2683
Elvin, Albert G., Scranton, Pa. Lubricating device	713,410	Nov. 11	1830	412	101	1289
Elward, John H., Pretty Prairie, Kans. Mixing-machine	707,404	Aug. 19	2677	604	100	1701
Elward, John H., Pretty Prairie, Kans., assignor to Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker	706,067	Aug. 5	67	15	100	1131
Elward, John H., Hutchinson, Kans., assignor to Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker. (Reissue.)	12,022	Aug. 19	2909	659	100	1749
Elwell, David, Coal Creek, Ind. Means for raising or lowering vehicle-tops	696,022	Mar. 25	3147	710	98	2416
Elwell, James A. (See Luckenbach, Harry, assignor.)						
Elwert, Max, Lodi, Cal. Seat attachment for baby-carriages	712,917	Nov. 4	854	198	101	1072
Ely, William P. (See Mahana and Ely.)						
Elzea, John W., Rantoul, Kans. Rail-joint	709,475	Sept. 23	2890	642	100	2614
Emanuel, John, Redison, Mo., assignor of one-fourth to W. G. Schancke, Redding, Iowa. Hoof-nipper	717,179	Dec. 30	5056	1096	101	2969
Emanuel, Samuel H., assignor to Standard Oiled Clothing Co., New York, N. Y. Waterproof garment	694,262	Feb. 25	3902	865 866	98	1660
Emanuel, Simon, <i>et al.</i> , trustees. (See Crane, Wendell P., assignor.)						
Embleton, Thomas E., <i>et al.</i> (See Deviese, John T., assignor.)						
Embry, Barnett L., <i>et al.</i> (See Hudgins, Franklin M., assignor.)						
Emeis, Henry T., Salt Lake City, Utah. Ear-labrer	700,483	May 20	2693	617	99	1761
Emerick, William H., Chicago, Ill. Draft-rigging for cars	693,643	Feb. 18	2715	599	98	1404
Emerick, William H., Chicago, Ill. Draft-rigging	705,520	July 22	4217	916 917	100	901
Emerick, William H., Chicago, Ill. Friction draft-rigging	715,400	Dec. 2	757	161	101	1989
Emerson, Albert, and A. S. Hovander, Williamsport, Pa. Automatic railway-signal	707,405	Aug. 19	2680	605	100	1701
Emerson and Company, George W. (See Ballard, Milton H., assignor.)						
Emerson, Elsieha, Providence, R. I. Making metal tubes	695,635	Mar. 18	2444	553	98	2059
Emerson, Frederic M., Brookline, assignor to Murdock Parlor Grate Co., Boston, Mass. Artificial stone and manufacturing same	692,644	Feb. 4	749		98	953
Emerson Manufacturing Company. (See Hendricks, Simeon B., assignor.)						
Emerson Manufacturing Company. (See Waterman, Lewis E., assignor.)						
Emerson Manufacturing Company. (See Wilson, George, assignor.)						
Emerson, William R., Washington, D. C. Strainer for suction-pipes of pumps	704,012	July 8	1186	258	100	251
Emert, William S., Alton, Ill. Draft-equalizer	698,826	Apr. 29	4044	1024	99	1052
Emery, Abram D., Taunton, Mass., assignor to Draper Company, Portland, Me., and Hopetate, Mass. Automatic stopping mechanism for looms	705,913	July 29	4995	1088 484 485	100	1071
Emery, Leonard A., Louisville, Ky. Waist, skirt, and belt holder	693,363	Feb. 18	2207		98	1300
Emery, Mary A., <i>et al.</i> , executors. (See Mitchell, John H., assignor.)						
Emery, Mary K., <i>et al.</i> , executors. (See Mitchell, John H., assignor.)						
Emery, Plato G., Chicago, Ill. Window-shade	716,832	Dec. 23	4353	944	101	2803
Emery, Victor J., Wollaston, Mass. Water-supply apparatus for water-closets	696,424	Apr. 1	58	13, 14	99	16
Emery, Walter E., West Chicago, Ill. Collar-button fastener	711,390	Oct. 14	1908	415	101	412
Emery, Wilber, Ashland, Ky. Wire twisting and reeling machine	705,331	July 22	3846	893	100	827
Emery, Wilber, Ashland, Ky. Barbed-wire machine	705,394	July 22	3972	861 860	100	852
Emery, William H., assignor to P. T. Sykes, Auburn, Me. Puzzle	709,888	Sept. 30	3681	890	100	2796
Emig, Jacob, assignor of one-half to J. B. Porter, Buffalo, N. Y. Meat-chopper	694,951	Mar. 11	1184	259	98	1080
Emig, John A., and J. G. Krout, York, Pa. Insecticide and fertilizer	704,013	July 8	1188		100	252
Emilewicz, Tadeusz. (See Lange and Emilewicz.)						
Emley, Peter H., Lakhurst, N. J. Berry-picker	715,251	Dec. 9	1150	246	101	2089
Emmie, Henry F. (See Eberhardt and Emmie.)						
Emmie, Mary W., New York, N. Y. Welding aluminium	710,958	Oct. 14	1055		101	231
Emmert, Charles S., Chicago, Ill. Combined dauber and stopper for liquid-dressing bottles	717,180	Dec. 30	5060	1097	101	2969
Emmert, Joseph F., assignor to Emmert Manufacturing Company, Waynesboro, Pa. Vise	709,399	Sept. 16	2693	604	100	2567
Emmert Manufacturing Company. (See Emmert, Joseph F., assignor.)						
Emmes, William T., Cincinnati, Ohio. Quick-feed arrangement for gears	707,509	Aug. 26	3006	676 677	100	1786
Emmes, William T., Cincinnati, Ohio. Speed-changing device	712,279	Oct. 28	3618	790 791	101	795
Emmet, William L. R. (See Steinmetz and Emmet.)						
Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Electrically-actuated switch	706,540	Aug. 12	1062	234	100	1345
Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Clamping-finger	714,881	Dec. 2	492	103	101	1934
Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Fuse	714,881	Dec. 2	3405	742	101	2591
Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Breaking electric currents	710,833	Dec. 23	4355	945	101	2804
Emmitt, William S., Mount Vernon, Ohio. Steam and fluid-pressure engine	697,136	Apr. 8	1421	316	99	332
Emmons, Charles L., Cranford, N. J., assignor to Aeolian Co., New York, N. Y. Mechanical musical instrument	698,480	Apr. 29	3905	863	99	890
Emmons, Grosvenor B. (See Mills, Francis A., assignor.)						
Emmons, William W., Boston, assignor to C. S. Gooding, Brookline, Mass. Test-cup	702,362	June 10	1933	440	99	2522
Emory, Israel J., Waverly, Ohio. Burglar-alarm for safes	700,027	May 13	1738	401	99	1546
Empire Cash Register. (See Collins, Norman, assignor.)						
Empire Machine Corporation. (See McClintonck, Frank, assignor.)						
Empire Machine Corporation. (See Watson, John, assignor.)						
Empire Pneumatic Tool Company. (See Birkenstock, John W., assignor.)						
Empire Pneumatic Tool Company. (See Birkenstock and Funk, assignors.)						
Empire Pneumatic Tool Company of the State of New York. (See Birkenstock, John W., assignor.)						
Enrich, Henry C., Washington, D. C. Milk jar or bottle	703,125	June 24	3410	782	99	2863
En Holm, Oscar A., New York, N. Y. Electric hand-setting mechanism	713,864	Nov. 18	2700	603	101	1485
En Holm, Oscar A., assignor of one-half to H. W. Hedge, New York, N. Y. Electrical massage apparatus	715,650	Dec. 9	1880	417	101	2237
Enamel Steel Tile Company. (See Landkrohn, William H., assignor.)						
Enameled Steel Roofing Company. (See Monshausen, Nicholas, assignor.)						
Endernton, William H., assignor of one-half to T. Minto, Cambridge, Ohio. Pipe-wrench	705,054	July 22	3229	699	100	704
Endruweit, Carl, Berlin, Germany. Yielding stuffing-box	713,411	Nov. 11	1831	413	101	1290
Engau, Carl, assignor to L. Cassella & Co., Frankfurt-on-the-Main, Germany. Dyeing acid colors	711,953	Oct. 28	3036		101	681

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Engberg, Carl, assignor to A. W. Wells and J. Higman, St. Joseph, Mich. Machine for making basket-covers.	690,463	May 6	643	148 149	99	1309
Engbert, Heinrich, Hörde, Germany. Manufacture of artificial sandstone.	701,690	June 3	743		99	2264
Engel, Albert W., Chicago, Ill. Brush.	716,210	Dec. 16	3041	668	101	2504
Engel, Godfrey, Baltimore, Md. Device for securing rods or shafts in place and for permitting ready removal of same.	692,997	Feb. 11	1441	313	98	1121
Engel, Godfrey, Baltimore, Md. Steam-separator.	715,649	Dec. 9	1878	417	101	2236
Engel & Gross. (See Fluder, Berthold, assignor.)						
Engel, William R., et al. (See Alz, Urban S., assignor.)						
Engelhard, Frank and F. H., Springfield, Mass. Self-closing antiwater-hammer balance-valve.	710,959	Oct. 14	1055	234	101	231
Engelhard, Frank and F. H., Springfield, Mass. Self-closing antiwater-hammer balance-valve.	710,960	Oct. 14	1058	234	101	232
Engelhardt, Frederick H. (See Engelhardt, Frank and F. H.)						
Engelhardt, Charles, Ridgefield, N. J. Repair-plug for boilers.	701,691	June 3	744	164	99	2264
Engelhardt, Frederick, St. Johnsville, assignor of one-half to A. P. Roth, New York, N. Y. Music-roller-actuating mechanism.	691,898	Jan. 28	2902	653	98	656
Engelmann, Gustav, Selma, Tex. Sulky-lister.	696,555	Apr. 1	298	69, 70	99	66
Engelmann, Gustav, Selma, Tex. Sulky-lister.	714,288	Nov. 25	3581	787 788	101	1688
Engelmann, Max, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Co., New York, N. Y. Making theophyllin.	716,994	Dec. 30	4681		101	2887
England, Frank A. (See Miller and England.)	711,559	Oct. 21	2238	486	101	495
England, John, London Township, and M. Hutchinson, London, Canada. Seat-post for bicycles.	694,539	Mar. 4	396	87	98	1796
England, Joseph W., Philadelphia, Pa., assignor to Smith, Kline & French Company. Formaldehyde-vaporizer.	711,720	Oct. 21	2544	559	101	560
England, Sydney J., Belfast, Ireland. Shirt.	697,823	Apr. 15	2676	594	99	569
Engle, Preston, Minn. Power-transmitter.	711,201	Oct. 14	1563	336	101	340
Engle, William G., Eaderlin, N. D. Support for spring structures.	710,260	Sept. 30	4394	989	100	2948
Engleking, Henry F., Chicago, Ill. File.	699,748	May 13	1188	276	99	1431
Engleking, Henry F., Chicago, Ill. File.	709,889	Sept. 30	3682	830	100	2797
Englert, Louis K. (See Wolfe and Englert.)						
English, Analdo M., Boston, assignor, by mesne assignments, to G. W. Wells, trustee, Southbridge, Mass. Spring-lid box.	694,357	Mar. 4	29	7	98	1718
English, Clifton, Easton, Pa., and J. Thompson, Bloomsbury, N. J. Grit-mill.	706,645	Aug. 12	1247	276	100	1386
English, Edwin E., Joliet, Ill. assignor of two-thirds to T. McPherson, J. Tanner, L. Raimondi, and R. Meyer, Paterson, N. J. Pocket coin-holder or bank.	702,293	June 10	1803	412	99	2496
English, Frank, Benton Harbor, Mich. Collapsible reel.	701,317	June 3	70	15	99	2123
English, James J. (See Lally and English.)						
English, William F., Philadelphia, Pa. Manifolding note-book.	709,259	Sept. 16	2408	545	100	2507
English, William J., and L. Alexander, New York, N. Y. Tool for bale-ties.	694,952	Mar. 11	1185	259	98	1980
English, William M., and G. A. Burns, San Francisco, Cal. Antiseptic telephone-mouth-piece.	706,169	Aug. 5	326	69	100	1183
Englund, Axel H., assignor to Protected Rail Bond Company, Philadelphia, Pa. Rail-bond.	699,618	May 6	931	216	99	1367
Engsberg, Conrad, et al. (See Luethi, Alexander, assignor.)						
Engsberg, William A., et al. (See Luethi, Alexander, assignor.)						
Engwall, Axel G. (See Cook and Engwall.)						
Enns, Charles E., assignor of one-half to J. Rice, Chicago, Ill. Elevator.	709,974	Sept. 30	3857	868	100	2834
Enness, John R. (See Hilery, John, assignor.)						
Ennor, Pellew L., San Francisco, Cal. Steering apparatus for vessels.	708,332	Sept. 2	618	139	100	2107
Enoch, Alexander C., Mount Pleasant, assignor of one-third to J. H. Turk, Pleasantgrove, Ohio. Churn.	713,293	Nov. 11	1626	367	101	1245
Ensign, George A., assignor to Defiance Machine Works, Defiance, Ohio. Axle-shaping machine.	690,709	Jan. 7	662	145 146 147	98	139
Ensign, George A., assignor to Defiance Machine Works, Defiance, Ohio. Horizontal boring-machine.	691,121	Jan. 14	1400	318 319	98	306
Ensign, George A., assignor to Defiance Machine Works, Defiance, Ohio. Feed-roll.	715,041	Dec. 2	760	161	101	1390
Ensign, George L. (See Chapman, Ensign, and Weir.)						
Entenman, Lina. (See Keller and Seiler, assignors.)						
Enterprise Manufacturing Company of Pennsylvania. (See Brown and Yeager, assignors.)						
Enterprise Manufacturing Company of Pennsylvania. (See Corral, Francisco J. del, assignor.)						
Enterprise Manufacturing Company of Pennsylvania. (See Fellows, Edwin C., assignor.)						
Enterprise Vending Machine Company. (See Roebuck and McMillan, assignors.)						
Entwisle, Edward B., Johnstown, Pa., assignor to Lorain Steel Company. Railway-track structure.	691,616	Jan. 21	2357	530	98	524
Entwisle, Edward B., Johnstown, Pa., assignor to Lorain Steel Company. Railway-track structure.	709,975	Sept. 30	3858	869	100	2834
Entwistle, Thomas C., Lowell, Mass. Creel for warping-machines.	699,159	May 6	59	16	99	1188
Entz, Justus B., Philadelphia, Pa. Storage battery.	695,710	Mar. 18	2564	580	98	2252
Entz, Justus B., assignor to Electric Storage Battery Company, Philadelphia, Pa. Secondary battery.	704,739	July 15	2553	550	100	548
Enyart, Ralph C., assignor to P. H. & F. M. Roots Company, Connersville, Ind. Journal-blower-outlet.	694,358	Mar. 4	30	7	98	1718
Enyart, Ralph C., assignor to P. H. & F. M. Roots Company, Connersville, Ind. Blower-outlet.	713,622	Nov. 18	2260	503	101	1392
Enzinger, Karl, assignor to Filter, Brantech. ische Maschinen-Fabrik, Act. Ges. vorm. L. A. Enzinger, Worms, Germany. Filtering-press.	702,051	June 10	1383	314	99	2409
Enzinger, Karl, assignor to Filter- & Brau-Technische Maschinen Fabrik Act. Ges. vorm. L. A. Enzinger, Worms, Germany. Barrel-filler.	717,368	Dec. 30	5377	1169 1188	101	3087
Eppers, William L., and J. Hamilton, Mount Washington, Md. Turn-table for use in mines.	710,851	Oct. 7	869	189	101	176
Epperson, Landy D., Mansfield, Ohio. Steam-engine reversing-gear.	714,368	Nov. 25	3719	818	101	1715
Epperson, Willis F., Ladoga, Ind. Flying-machine.	707,219	Aug. 19	2332	521	100	1630
Eppich, Anton, Providence, R. I. Foot-clip for treadles of sewing-machines.	699,610	May 6	912	212	99	1364
Eppler, Andrew, Jr., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-turning machine.	706,088	Aug. 5	70	15, 16 16	100	1132
Epright, Alonzo W., Altoona, Pa. Bolt-cutting machine.	692,258	Feb. 4	77	17 18 19	98	815
Epstein, Stefan, Paris, France. Manufacture of photographic plates for use in printing-presses.	717,369	Dec. 30	5378		101	3088



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Equitable Auto-Truck Power and Burner Company. (See Badger, George L., assignor.)						
Erb, Samuel, Chemainus, assignor of one-half to William Hamilton Manufacturing Co., Ltd., Peterborough, Ontario, Canada. Log-carriage offset for saws	709,890	Sept. 30	3684	880 881	100	2797
Erbe, Henry C., Bowdle, S. D. Grain or hay deliverer	708,804	Sept. 9	1476	337 338	100	2296
Erben, Hermann F. T., Schenectady, N. Y., assignor to General Electric Company. Brush-holder	705,055	July 22	3230	699	100	704
Erben, Hermann F. T., and A. F. Knight, Schenectady, N. Y., assignors to General Electric Company. System of electrical distribution	712,052	Oct. 28	3204	702	101	713
Erdebrock, Dietrich, Ottweiler, Germany. Safety-outlet in longitudinal walls of railway-carriages	709,573	Sept. 23	3064	682	100	2657
Erdman, Albert W., Derby, Conn., assignor to Driggs-Seabury Gun & Ammunition Company, Jersey City, N. J. Hollow projectile	713,412	Nov. 11	1832	413	101	1290
Erdman, Edward M., assignor of one-half to V. J. Matz, Pottsville, Pa. Straightway valve	709,146	Sept. 16	2177	498	100	2460
Erdman, Robert E. (See Hamer, John, assignor.)						
Erdsieck, Friedrich, assignor to Hoppe & Homann, Minden, Germany. Ball-bearing	693,815	Feb. 18	3020	667	98	1406
Erhardt, Jacob. (See Hersh, Harvey E., assignor.)						
Erich, George, Brooklyn, assignor of one-half to G. Grob, Glendale Station, N. Y. Curtain pole ring	699,507	May 6	715	166	99	1324
Erickson, Andrew J., et al. (See Chapman, William S., assignor.)						
Erickson, Charles E., and R. B. Miller, assignors to J. A. Miller and Brother, Chicago, Ill. Window	712,785	Nov. 4	600	137 138	101	1022
Erickson, Erick A. (See Anderson, Erickson, and Wickstrom.)						
Erickson, Frederick W., Boston, Mass. Outlet-bushing for conduits	712,513	Nov. 4	89	23	101	916
Erickson, Frederick W., Boston, Mass. Interior-conduit outlet-box	712,514	Nov. 4	91	23	101	916
Erickson, Hartvig, Chicago, Ill. Egg-case	698,481	Apr. 29	3906	883	99	891
Erickson, Hartvig, Chicago, Ill. Box-assembling machine	698,482	Apr. 29	3907	884	99	891
Erickson, John A. (See Aspin and Erickson.)						
Erickson, Lewis A., Stromsburg, Nebr. Watch-barrel	716,013	Dec. 16	2638	581	101	2419
Erickson, Nels P., Red Wing, Minn. Hane-fastener	706,012	Aug. 12	1728	334	100	1434
Erickson, Peter W., Moerle, Wis. Sack-holder	699,412	Jan. 7	44	11	98	12
Erickson, Samuel E., and F. Peterson, Chicago, Ill. Burglar-alarm	701,552	June 3	343	109	99	2210
Erickson, William T., New York, N. Y. Filter attachment	711,836	Oct. 21	2769	613	101	606
Ericson, Charles O., Helmetta, N. J. Weighing-machine	691,536	Jan. 21	2206	496 497	98	495
Ericson, Charles O., Helmetta, N. J. Packing-machine	691,587	Jan. 21	2209	496 497	98	495
Ericson, John V. (See Newberry and Ericson.)						
Ericsson, Charles T. (See Bowen and Ericsson.)						
Ericsson, John E., Chicago, Ill. Safety appliance for elevators	699,375	May 6	464	108 109	99	1270
Erie City Iron Works. (See Wilson, Harry L., assignor.) (Reissue.)						
Erikson, Edward E. (See Schleper, Charles R., assignor.)						
Erikson, Gustaf, assignor to Vagnfabriks Aktiebolaget I Södertelje, Södertelje, Sweden. Four-cycle explosive vapour engine	706,793	Aug. 12	1404	313 314	100	1419
Erlsman, Clem, assignor to F. M. Pratt, Decatur, Ill. Apparatus for separating solvents from oil	698,398	Apr. 22	3747	827	99	842
Erk, Martin J., Binghamton, N. Y. Acetylene-gas generator	696,329	Mar. 25	3573	800	98	2593
Erwein, Georg, and A. Frank, Berlin, Germany. Cyanid compound and making same	708,333	Sept. 2	619		100	2107
Ermentrout, William H., and L. V. Halberstadt, Reading, Pa. Bearing-box for shaft-hangers	711,020	Oct. 21	2253	515	101	518
Ermold, Edward, New York, N. Y. Envelop-machine	692,051	Jan. 28	3186	718 719	98	711
Ermold, George, Elizabeth, N. J. Needle-holder	695,202	Mar. 11	1831	407	98	2113
Ernewein, Frank J., assignor to A. J. Elias, Buffalo, N. Y. Silo	708,338	June 24	3782	871	99	2938
Ernst, Alfred, assignor to Wellman-Seaver-Morgan Engineering Company, Cleveland, Ohio. Charging device for coke-ovens	713,413	Nov. 11	1833	413 414	101	1290
Ernst, Charles, Tipton, Ind. Railway-tank valve	713,294	Nov. 11	1628	367	101	1245
Ernst, George P., Mount Pleasant, Iowa. Twine-holder	693,849	Feb. 25	3104	686	98	1532
Ernst, Joseph, Cincinnati, Ohio. Adjustable couch-casket	706,398	Aug. 5	800	174	100	1276
Ernst, Louis, Reading, Ohio. Game	696,862	Apr. 1	873	201	99	185
Ernst, Otto, assignor to Farbwerke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Monoazo-dye and making same	714,882	Dec. 2	493		101	1925
Ernst, Otto, assignor to Farbwerke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Orange-yellow azo dye and making same	714,883	Dec. 2	494		101	1935
Ernst, W. H., et al. (See Hendershot, Amos M., assignor.)						
Eryn, Wilhelm, Halle-on-the-Saale, Germany. Galvanic battery	690,710	Jan. 7	667	147	98	140
Errick, Charles W., North Tonawanda, N. Y. Spring-frame for bicycles	699,376	May 6	465	109	99	1270
Errington, Franklin A., New York, N. Y. Stud-setting machinery	702,934	June 24	3040	699	99	2788
Errington, Franklin A., New York, N. Y. Chuck	715,252	Dec. 9	1152	247	101	2089
Erskine, William B., New York, N. Y., assignor to American Automatic Loom Company. Loom	715,772	Dec. 16	2136	478	101	2311
Ertheiler, Philip H., Philadelphia, Pa. Machine for preparing leaf-tobacco for manufacture into cigars	714,289	Nov. 25	3583	788	101	1688
Ertz & Joseph. (See Platto, John, assignor.)						
Ervin, George M., Johnstown, Pa., assignor to Lorain Steel Company. Tongue-switch	705,056	July 22	3232	690	100	704
Ervin, George M., Johnstown, Pa., assignor to Lorain Steel Company. Railway-track structure	705,057	July 22	3234	700	100	705
Ervin, Ida, Bigs Spring, Tex. Dish-washer	696,556	Apr. 1	235	70	99	66
Erwin, (Clarkson, Hazels, Okla. Edgerman device	711,496	Oct. 21	2095	454	101	465
Erwin, James B., Milwaukee, Wis. Can-holder	693,353	Feb. 11	2144	470	98	1267
Erwin, James B., Milwaukee, Wis. Cover-wrench	700,732	May 27	3228	739	99	1891
Erwin, Melville E. (See Parker, Caroline S., assignor.)						
Erwin, Orlando R., Chicago, Ill. Cellar-drainer	714,682	Dec. 2	59	12	101	1849
Erwin, William, Kenosha, Wis. Type-writer	696,166	Mar. 25	3458	775	98	2482
Esch, William G., Manitowoc, Wis. Nozzle-grip	708,537	Sept. 9	969	219	100	2189
Esch, William G., Manitowoc, Wis. Nozzle-grip	708,538	Sept. 9	970	219	100	2189
Eschelbach, Phillip, et al. (See Boettler, Robert A., assignor.)						
Eschet, Oliva F. (See Boudreaux and Eschet.)						
Esheleman, John W., Mount Joy, Pa. Slot-guard for toy banks	706,913	Aug. 12	1764	394	100	1495
Eson, Joseph A., Rawlins, Wyo. Forced-draft appliance for locomotives	705,225	July 22	3599	779	100	779
Espananza, Frank, et al. (See Espinosa, Albert, assignor.)						
Espen, Stewart and Loeb. (See Stewart, William G., assignor.)						
Espenscheid, John M., et al. (See Horton, Peter D., assignor.)						
Espey, Eli C. (See Jones and Espey.)						
Espey Manufacturing Company, Herrell. (See Wilson, David J., assignor.)						
Espinoza, Albert, assignor of two-thirds to T. Ruiz and F. Espananza, Ventura, Cal. Plant-thinner	692,196	Jan. 28	3438	778	98	768

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Esptallier, John A., Chicago, assignor of one-half to A. Wohluter, Oakpark, Ill. Sash-lock	704,014	July 8	1189	258	100	252
Esse, Charles E. A., Ormskirck, assignor of one-half to J. H. Cobley, London, England. Pneumatic inner tube for tires	716,693	Dec. 23	3990	873	101	2716
Esser, Fred F., Ackley, Iowa. Game	695,919	Mar. 25	2354	669	98	2378
Essick, Walter S., Reading, Pa. Spectacles or eyeglasses	709,891	Sept. 30	3636	831	100	2707
Essick, William W. (See Wilhelm, Louis, assignor.)						
Essick, William W., Reading, Pa. Eyeglasses	709,892	Sept. 30	3688	831	100	2798
Essig, Ozia A., Canton, Ohio. Window	713,414	Nov. 11	1835	414	101	1291
Essington, Henry C., Philadelphia, Pa. Wave and tide motor	714,166	Nov. 25	3337	735	101	1639
Essner, Jules, and E. Laurus, Paris, France. Melting-furnace	692,435	Feb. 4	873	92	98	876
Estabrook, Alanson C. (See Look and Estabrook.)						
Estcourt, Ernest, South Hampstead, London, England. Water cooling and circulating apparatus for explosion-engines	707,570	Aug. 26	3010	677	100	1786
Estep, Ezra. (See Dolan and Estep.)						
Estes, Cyrus P., Oswego, N. Y. Automatic controller for flowing wells of oil or gas	711,721	Oct. 21	2546	559	101	561
Estey, Walter S., assignor of one-half to A. J. Bates, Webster, Mass. Detachable cushion-heel	708,033	Sept. 2	74	17	100	1997
Esty Sprinkler Company. (See Esty, William, assignor.)						
Esty, William, Laconia, N. H., assignor to Esty Sprinkler Company. Automatic fire-extinguisher	696,884	Apr. 1	937	213	99	190
Etcheson, William H., and L. R. Witherell, Knoxville, Ill. Attachment for stovepipes	706,734	Aug. 12	1105	314	100	1428
Etheridge, Harry, McKeesport, Pa. Electric-arc lamp	691,851	Jan. 28	2825	633	98	639
Etheridge, Harry, McKeesport, Pa. Lamp hood and switch	697,708	Apr. 15	2474	553	99	554
Etheridge, Harry, McKeesport, Pa. Electric-arc lamp	704,526	July 15	2184	473	100	473
Etheridge, Harry, McKeesport, Pa. Preserving wood or iron poles and timbers	715,362	Dec. 9	1355	293	101	2133
Etherington, Lewis A. (See Willis, John, assignor.)						
Etter, Henry M., Marion, Pa. Pump-head	700,484	May 20	2695	617	99	1761
Ettinger, Joel, assignor to Ettinger Machine Company, Limited, Chester, Pa. Rotary cutter	704,960	July 15	3042	653	100	650
Ettinger, Joel, assignor to Ettinger Machine Company, Limited, Chester, Pa. Grinding-machine	705,226	July 23	3601	779	100	779
Ettinger, Joel, Chester, assignor to S. J. Shimer & Sons, Milton, Pa. Rotary cutter	716,694	Dec. 23	3991	873	101	2716
Ettinger Machine Company. (See Ettinger, Joel, assignor.)						
Ettinghausen, Hermann L., et al. (See West, James, assignor.)						
Ettla, George S. (See Jacobs, Charles B., assignor.)						
Eizenhouser, Elias, et al. (See Winn, David F., assignor.)						
Etzold, Curt, Apolda, Germany. Apparatus for the production of spirally-wound shavings	691,122	Jan. 14	1403	319 320	98	307
Engel, Edward W. (See Rieck and Engle.)						
Eugene Dietzgen Company. (See Klitsche, Amandus, assignor.)						
Euker, George W., assignor to E. O. Meyer, Richmond, Va. Electrotherapeutic apparatus	701,185	May 27	4015	923	99	2055
Euphrat Manufacturing Company et al. (See Euphrat, Theophile, assignor.)						
Euphrat, Theophile, Rowayton, Conn., assignor to J. A. Logan, Brooklyn, and Euphrat Manufacturing Company, New York, N. Y. Guard and shade attachment for windows	693,957	Feb. 25	3314	728	98	1543
Eurich, Fulton V., Tarentum, Pa. Wrench	697,241	Apr. 8	1508	359	99	358
Eurich, Harry E. (See McPherson and Eurich.)						
Eustis, John P., Newtonville, Mass. Soap-holder	708,877	Sept. 9	1633	375	100	2328
Evans, Burr C. W., New York, N. Y. Wheel or rail tread	700,186	May 20	2092	478	99	1639
Evans, Charles, Ashton-under-Lyne, England. Closet-seat hinge	695,602	Mar. 18	2383	539	98	2427
Evans, Charles E., Taunton, Mass. Oven-thermometer	695,238	Mar. 11	1832	408	98	2114
Evans, Clarence A., Upland, Pa. Pneumatic motor for car fans and ventilators	705,830	July 29	4840	1051	100	1040
Evans Company. (See Evans, George, assignor.)						
Evans, Edward T., Upper Clapton, England. Non-refillable bottle	692,772	Feb. 4	978	231 222	98	997
Evans, Elias W. (See Walton and Harner, assignors.)						
Evans, George, assignor to Evans Company, New York, N. Y. Dental heater	714,105	Nov. 18	3182	704	101	1588
Evans, George E., assignor to Kingman Plow Company, Peoria, Ill. Wheel	695,448	Mar. 18	2079	469	98	2185
Evans, Henry O., assignor to T. Devlin & Co., Philadelphia, Pa. Clamping device	694,953	Mar. 11	1186	259	98	1980
Evans, Henry O., assignor to T. Devlin & Co., Philadelphia, Pa. Food-chopper	711,837	Oct. 21	2770	614	101	607
Evans, Howard. (See Behrend, Samuel K., assignor.)						
Evans, Howard. (See Wills, Edwin C., assignor.)						
Evans, John, Philadelphia, Pa. Hot-air furnace	713,210	Nov. 11	1414	319 320	101	1204
Evans, John A. T., et al. (See Ricker, James H., assignor.)						
Evans, John E. (See Gundlach, Louis F. H., assignor.)						
Evans, John W., Greenville, Mo. Hitching device	694,465	Mar. 4	245	55	98	1764
Evans, John W., Los Angeles, Cal., assignor of one-half to G. A. Benwell, Jr., Denver, Colo. Wash-oil-filtering apparatus	700,163	May 13	2026	462	99	1602
Evans, Jonathan K., Dickinson Run, Pa. Draft-beam for cars	702,189	June 10	1640	367	99	2463
Evans, Louis C. (See Crain, Evans, and Dodson.)						
Evans, Morris S., et al. (See Savage, Thomas A., assignor.)						
Evans, Myron E., New York, N. Y. Sand-blasting apparatus	699,888	May 13	1374	318	99	1471
Evans, N. P. (See Kennedy, David J., assignor.)						
Evans, Nathan B., Providence, R. I. Gang of collar-button posts	716,834	Dec. 23	4356	945	101	2804
Evans, Philadelphia, Pa. Dry-pipe valve	695,230	Mar. 11	1833	408	98	2114
Evans, Powell, Philadelphia, Pa. Alarm-valve	714,884	Dec. 2	494	104	101	1935
Evans, Quimby N., Brooklyn, N. Y. Air-moistening apparatus	701,553	June 3	496	109	99	2211
Evans, Samuel B., Enid, Okla. Ter. Box-cover support	716,014	Dec. 16	2639	581	101	2419
Evans, Samuel J., Roanoke, Va. Umbrella-runner	694,623	Mar. 4	547	119	98	1829
Evans, Samuel J., Roanoke, Va. Umbrella-runner	694,624	Mar. 4	548	120	98	1829
Evans, Samuel J., Roanoke, Va. Umbrella-rib and stretcher-joint	698,267	Apr. 22	3532	778	99	798
Evans, Samuel J., Roanoke, Va. Small-arms	713,623	Nov. 18	2261	503 504	101	1392
Evans, Samuel W., Jr. (See Gaskill, William H., assignor.)						
Evans, Seymour D. (See Leech and Evans.)						
Evans, Stephen R., Greenfield, Ohio. Folding child's carriage	711,247	Oct. 14	1642	353 354	101	356
Evans, Thomas W. (See Weil and Evans.)						
Evans, Victor J. (See Angell and Berrison, assignors.)						
Evans, Walter S., North Adams, Mass. Waistband-adjuster	693,249	Feb. 11	1958	425	98	1227



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Evans, William. (See Morton and Evans.)						
Evans, William, Norfolk, Va. Eye-lenses	716,095	Dec. 23	3993	873	101	2716
Evans, William, Manchester, assignor of two-thirds to W. T. Hill, Withington, county of Lancaster, and R. Gale, Woking, county of Surrey, England. Motor	706,489	Aug. 5	973	214	100	1313
Evans, William C. L., Brooklyn, N. Y. Pedal device for bass-drums and cymbals	704,308	July 8	1753	382 383	100	368
Evans, William D., and J. T. Marshall, Eupora, Miss. Scale attachment	703,244	June 24	3627	833	99	2905
Evans, William D., and J. C. Wiggins, Eupora, Miss. Nut-lock	712,918	Nov. 4	855	199	101	1072
Evans, William F., Chicago, Ill. Rotary engine	710,261	Sept. 30	4395	989	100	2949
Evans, William J. (See Klepetko and Evans.)						
Evans, William J. (See Waddell and Evans.)						
Evans, William J., and F. Klepetko, Greatfalls, Mont. Gas-producer	704,527	July 15	2186	473 474	100	474
Evans, William L., Jr., Washington, Ind. Door-hinge	701,554	June 8	498	110	99	2311
Evans, William C., Antioch, Cal. Cultivator	698,913	Apr. 23	444	1062	99	1083
Evered, Herbert C., Chicago, Ill., and J. F. Evered, Montgomery, Mo. Clothes-drier	701,692	June 3	745	164	99	2364
Evered, John F. (See Evered, Herbert C. and J. F.)						
Everest, Augustine R., Lynn, Mass., assignor to General Electric Company. Transformer	696,953	Apr. 8	1106	245 246	99	255
Everest, Augustine R., Lynn, Mass., assignor to General Electric Company. Electric regulator	706,039	Aug. 5	73	16	100	1132
Everest, Augustine R., Lynn, Mass., assignor to General Electric Company. Constant-current transformer	710,050	Sept. 30	3981	898	100	2860
Everett, James N., Pacific, Mo. Bearing	702,611	June 17	2485	570	99	2657
Everett, Laban T. (See Scott, Frank, assignor.)						
Everett, Otis W., assignor to Samuel Winslow Skate Mfg. Co., Worcester, Mass. Skate	690,711	Jan. 7	668	148	98	141
Evers, Charles H., and C. R. Hildebrandt, Cleveland, Ohio. Apparatus for smoking meats	712,662	Nov. 4	374	87	101	976
Evers, Ferdinand, Bigston, S. D. Corn-harvester	703,395	July 1	60	11	100	14
Evershed, Sydney, assignor to himself and Evershed and Vignoles, Limited, London, England. Electric apparatus for exploding mines	694,914	Mar. 4	1107	244	98	1946
Evershed and Vignoles. (See Evershed, Sydney, assignor.)						
Eversmann, Henry, Cincinnati, Ohio. Main valve for fire-extinguishing systems	700,187	May 20	2093	479	99	1639
Eversion, George H., Pittsburg, Pa. Metallic wheel	697,079	Apr. 8	1335	296	99	302
Eversion, George H., Pittsburg, Pa. Machine for drilling rivet-holes in metallic wheel-fellies	698,189	Apr. 22	3387	743	99	767
Eversion, George H., Pittsburg, Pa. Heating mandrels for rolling tubes	701,693	June 3	746	165	99	2265
Eversion, George H., Pittsburg, Pa. Machine for drilling spoke-holes in metallic wheel-fellies	701,694	June 8	747	165	99	2265
Eversion, George H., Pittsburg, Pa. Metallic-hub-drilling machine	704,178	July 8	1534	329	100	322
Eversion, George H., Pittsburg, Pa. Machine for drilling rivet-holes in wheel-hubs	706,811	Aug. 12	1576	353	100	1456
Eversz, John H. F., Walla Walla, Wash. Poultry-roost	702,784	June 17	2745	681	99	2711
Evertz, John P., San Diego, Cal. Hot-air silk-reeling machine	691,457	Jan. 21	2078	465 466	98	467
Eves, Joshua V., Belfast, Ireland. Needle-controlling mechanism for sewing-machines	709,310	Sept. 16	2509	565 566	100	2529
Eves, Joshua V., Belfast, Ireland. Feeding mechanism for sewing-machines	709,311	Sept. 16	2511	566	100	2529
Ewald, Arno A. and H. A. Elgin, Wis. Cow-milker	693,850	Feb. 25	3106	687	98	1502
Ewald, Hermann A. (See Ewald, Arno A. and H. A.)						
Ewald, Julius, Philadelphia, Pa. Non-refillable bottle	706,914	Aug. 12	1765	394	100	1495
Ewart, John W., London, England. Hot-water radiator or heating-stove	696,096	Mar. 25	3302	743	98	2451
Ewart, Myra V., executrix. (See Ewart, Philo C.)						
Ewart, Philo C., deceased; M. V. Ewart, executrix, assignor of one-half to C. A. Barnard, Cincinnati, Ohio. Means for automatically regulating the resistance of resilient devices	706,306	Aug. 5	612	133	100	1239
Ewell, Herbert P., assignor of two-thirds to J. N. Ewell and H. Tuttle, Rochester, Mich. Wire fence	714,683	Dec. 2	61	12	101	1850
Ewell, James N., et al. (See Ewell, Herbert P., assignor.)						
Ewell, John, Jr. (See Minges and Ewell.)						
Ewen, Alexander, et al. (See Kellington, John, assignor.)						
Ewers, Frank H., et al. (See Huff, George S. and J. J., assignors.)						
Ewing, Frederick, assignor to Ewing Shingling Clamp Company, Buffalo, N. Y. Tool-handle	702,190	June 10	1642	367	99	2464
Ewing Shingling Clamp Company. (See Ewing, Frederick, assignor.)						
Ewing, William B., et al. (See Orandall, Frederick E., assignor.)						
Ewing, William M., Fresno, Cal. Raisin or fruit elevator	701,555	June 3	500	110	99	2312
Ewles, Frank E., Medina, N. Y. Spring-support for furniture	708,776	July 1	736	163	100	148
Exley, William H., Palmyra, Neb. Spoke cutter and beveler	695,449	Mar. 18	2081	470	98	2185
Exline, Frank, assignor to Vertical Propeller Company, Geddes, S. D. Paddle-wheel	704,477	July 8	2076	450	100	437
Exline, Frank, assignor to Vertical Propeller Company, Geddes, S. D. Paddle-wheel	704,478	July 8	2079	451	100	437
Expanding Tread Company. (See Sinnott, Martin J., assignor.)						
Eyler, Matthew S., New York, N. Y., assignor to Elliott & Hatch Book Typewriter Company. Feeding attachment for type-writing machines	707,220	Aug. 19	2333	521 522	100	1630
Eyler, Matthew S., New York, N. Y., assignor to Elliott & Hatch Book Typewriter Company. Type-writing machine	709,893	Sept. 30	3689	831	100	2798
Eyler, Frank A., assignor of one-half to I. Henry, Harrisburg, Pa. Apparatus for dispelling electricity in delivering sheets into or from printing-presses	690,160	May 6	60	16	99	1188
Eyles, Arthur H. (See Ryan and McEwan, assignors.)						
Eynon, James and W. D., Philadelphia, Pa. Apparatus for rolling designs upon strips or bars	699,795	May 13	1285	297	99	1452
Eynon, John, assignor of two-thirds to W. S. Richardson, Gateshead, county of Durham, and E. J. W. Powell, Newcastle-upon-Tyne, England. Anchor	695,711	Mar. 18	2365	580	98	2282
Eynon, William D. (See Eynon, James and W. D.)						
Eyre, T. L., et al. (See Bennett, Charles E., assignor.)						
Eyres, William H., Sydney, New South Wales, Australia, assignor to Burgon and Ball, Limited, Sheffield, England. Machine for shearing and clipping wool or hair	697,824	Apr. 15	2677	594	99	600
Eysenbach, Louis, Jr. (See Bassett and Phoenix, assignors.)						
Eyster, Elmer E., assignor of one-half to W. Eyster, Ashland, Ohio. Spring bed or seat bottom	695,636	Mar. 18	2445	553	98	2259
Eyster, William. (See Eyster, Elmer E., assignor.)						
Eyster, William, Ashland, Ohio. Spring bed or seat-bottom	699,298	May 6	317	73	99	1239
Ezell, Francis L., Flatrock, Tenn. Plow	692,127	Jan. 28	3321	752	98	739
Ezzell, Azzeriah D., assignor of one-half to E. Cooper, Clinton, N. C. Cotton-chopper	696,321	Mar. 25	3779	642	98	2548

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F. A. Hardy & Co. (See Byington, John F., assignor.)						
F. B. Fargo and Company (See Penn, William E., assignor.)						
F. C. Austin Manufacturing Company (See Bunnell, Morton G., assignor.)						
F. C. Austin Manufacturing Company (See Rhodes, Jay B., assignor.)						
F. E. Reed Company. (See Beck, John R., assignor.)						
F. H. Earl Manufacturing Co. (See Blakely, Charles A., assignor.)						
F. R. Rice Mercantile Cigar Company (See Schutz, William C., assignor.)						
F. S. Webster Company (See Bedworth, Arthur H. and J. A., assignors.)						
F. S. Webster Company (See Quartz, James, Jr., assignor.)						
Faben, Charles R., Jr., Toledo, Ohio. Gas purifier grid.	700,188	May 20	2005	479	99	1640
Faber, Charles, Fall River, Mass. Picker-stuck strap.	707,406	Aug. 19	2681	605	100	1702
Faber, Firm of Eberhard. (See Ebbets, William S., assignor.)						
Faber, Lothar W., New York, N. Y. Pencil-tip.	703,721	July 1	642	142	100	128
Fabisch, Philip, Baltimore, Md. Automatic stop mechanism for buttonhole-machines.	706,646	Aug. 12	1248	276	100	1386
Fabisch, Philip, Baltimore, Md. Power cutting attachment for buttonhole-sewing machines.	713,078	Nov. 11	1159	267	101	1151
Fabisch, Philip, Baltimore, Md. Automatic stop mechanism for buttonhole-sewing machines.	713,079	Nov. 11	1163	267	101	1152
Fabre, Anthony, New York, N. Y. Cork cutting and tapering machine.	713,865	Nov. 18	2702	004	101	1485
Fabrik Chemischer Präparate von Dr. Richard Stahmer. (See Althausse, Maximilian C. L., assignor.)						
Fabriques de Produits Chimiques de Thann & de Mulhouse. (See Baur, Albert, assignor.)						
Fabrycki, Vincent A., LaSalle, Ill. Detachable shoe-heel.	692,128	Jan. 28	3332	753	98	739
Fader, Carlos, Landau, Germany. Gas-lighting apparatus.	697,080	Apr. 8	1336	296	99	303
Fader, Silas, Vancouver, Canada. Knob attachment.	711,838	Oct. 21	2773	614	101	607
Fader, Silas, Vancouver, Canada. Knob attachment.	714,466	Nov. 25	3889	859	101	1748
Fagan, Thomas B., Vanwert, assignor, by mesne assignments, to Side Delivery Buncher Company, Toledo, Ohio. Mowing-machine attachment. (Reissue.)	11,978	Apr. 1	1012	225	99	214
Fages, Emile, Paris, France. Door-bolt.	704,179	July 8	1536	339	100	322
Fagioli, Dominic, et al. (See Brooker, Albert, assignor.)						
Fahney, James L., Boston, Mass. Leather belt.	708,212	Sept. 2	402	93	100	2064
Fährndrich, Wilhelm H. W., Hamburg, Germany. By-pass stop-cock for multiple-light gaseliers.	704,678	July 15	2434	526	100	524
Fahrney, Emmery H., Chicago, Ill. Electric igniter for explosion-engines.	701,695	June 3	749	165	99	2265
Fahys Watch-Case Company (See Butts, Charles W., assignor.)						
Fail, William B. (See Castled and Fail.)						
Failschmidt, Jacob, Mulheim-on-the-Ruhr, assignor to C. Roesch & Cie, Limited, Duisburg, Prussia, Germany. Apparatus for bleaching, dyeing, &c.	713,755	Nov. 18	2504	557	101	1446
Fair, George, Salem, assignor of one-half to E. W. Gay, Newton, Mass. Weft stop-motion for looms.	710,767	Oct. 7	706	149	101	144
Fair, Jacob C., West Monterey, Pa. Railway-rail joint.	705,568	July 29	4371	947	100	946
Fairbank, Leland G., Oakland, Cal. Sidehill gang plow.	717,087	Dec. 30	4848	1050	101	2922
Fairbanks Company. (See Skiffington, William F., assignor.)						
Fairbanks, Ernest H. (See Schafer, Frank, assignor.)						
Fairbanks, James G., Marion, Ohio. Traveling crane.	717,370	Dec. 30	5380	1170	101	3038
Fairbanks, Morse & Co., et al. (See Anderson, Tury E., assignor.)						
Fairbanks, Morse & Company. (See Elliott, Myron W., Jr., assignor.)						
Fairbrother, Frederic A., Jr., Providence, R. I. Fastening device.	707,682	Aug. 26	3229	725	100	1892
Fairchild, Charles B., New York, N. Y. Tag.	703,698	July 1	603	134	100	119
Fairchild, Charles B., New York, N. Y. Vehicle-brake.	704,452	July 8	2022	439	100	426
Fairchild, Charles B., New York, N. Y., assignor of one-fourth to E. T. Postlethwaite, Philadelphia, Pa. Car-brake.	696,901	Apr. 1	975	218	99	206
Fairchild, Oren J., Corry, Pa., assignor of one-half to H. W. Tibbals, Jamestown, N. Y. Automatic flushing valve.	685,676	Mar. 18	2513	570	98	2272
Fairchild, William W., Tracy, Conn. Screw-driver &c.	693,123	Feb. 11	1688	368	98	1171
Fairfax, William M., Brooklyn, N. Y. Means for changing the tension of currents.	704,453	July 8	2027	440	100	427
Fairmount Machine Company. (See Anderson, Gustave E., assignor.)						
Fairweather, Charles B. (See Worth and Fairweather.)						
Faist, Christian W., Jr., assignor of one-third to E. E. Faist, Troy, N. Y. Nut-lock.	702,642	June 17	2486	570	99	2657
Faist, Edward E. (See Faist, Christian W., Jr., assignor.)						
Faith, George, and T. Hook, Indiana, Pa. Drain valve for cylinders.	698,463	Apr. 29	3909	864	99	891
Faith, Jacques P., San Francisco, Cal. Broiler.	698,086	Mar. 11	1453	322	98	2036
Falardeau, Dennis L., Albany, N. Y. Device for making impressions.	705,831	July 29	4841	1051	100	1040
Falbe, Edward, et al. (See Siebenhaar, Otto W., assignor.)						
Falcina, Henry M., Rockland, Me. Bicycle-support.	701,696	June 3	752	166	99	2266
Fales, Ellis C., Foxboro, Mass. Bluing device.	711,923	Oct. 21	2958	651	101	646
Falk, Carl A., Brooklyn, assignor to J. L. Mott Iron Works, New York, N. Y. Water-cooling apparatus.	693,506	Feb. 18	2444	535	98	1349
Falk, Charles H., Kansas. Draft attachment.	707,092	Aug. 19	2087	466	100	1576
Falkenstein, Charles. (See Falkenstein, George S. and C.)						
Falkenstein, George S. and C., assignors of one-half to O. Wolff and A. D. Wiler, Philadelphia, Pa. Manufacture of artificial leather.	714,791	Dec. 2	282	60	101	1895
Falkenwalde, Oscar, assignor of one-half to C. F. Stauffen, Baltimore, Md. Acetylene-gas generator.	699,106	Apr. 29	5125	1133	99	1153
Falkenwalde, Oscar, assignor of one-half to C. F. Stauffen, Baltimore, Md. Gaseous-fuel burner.	715,467	Dec. 9	1546	335	101	2169
Famous, James P., Norristown, Pa. Placket-fastener for ladies' skirts.	712,320	Oct. 28	3621	791	101	796
Fancher, Charles J., Granby, Conn. Stamp-affixing machine.	713,415	Nov. 11	1838	415	101	1291
Fancher Machine Company. (See Fancher, Rosman I., assignor.)						
Fancher, Nicholas, Johnstown, N. Y. Glove-case.	690,937	Jan. 14	1073	241	98	240
Fancher, Rosman I., assignor to Fancher Machine Company, Baldwinsville, N. Y. Automatic belt-shifter.	700,690	May 20	3035	094	99	1834
Fannin, Spencer, Ezel, Ky. Plow.	706,915	Aug. 12	1766	394	100	1495
Fanning, Charles E., assignor to Folding Wheel Carriage Company, Davenport, Iowa. Folding carriage.	697,333	Apr. 8	1761	394	99	394
Fanning, John, Brooklyn, N. Y. Automatic roller-feed lubricator.	715,042	Dec. 2	761	161	101	1990
Fanning, William M. (See Lee and Bryd, assignors.)						
Fanta, Theodore, Chicago, Ill. Woven fabric.	708,630	Sept. 9	1127	253	100	2321



## Alphabetical list of patentees—(Continued).

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Farbenfabriken of Elberfeld Co. (See Berendes, Rudolf, assignor.)						
Farbenfabriken of Elberfeld Co. (See Callsen, Jürgen, assignor.)						
Farbenfabriken of Elberfeld Co. (See Deguer, Otto, assignor.)						
Farbenfabriken of Elberfeld Co. (See Dreser and Callsen, assignors.)						
Farbenfabriken of Elberfeld Co. (See Eichengrün, Arthur, assignor.)						
Farbenfabriken of Elberfeld Co. (See Eichengrün and Becker, assignors.)						
Farbenfabriken of Elberfeld Co. (See Eichengrün and Berendes, assignors.)						
Farbenfabriken of Elberfeld Co. (See Eichengrün and Demeler, assignors.)						
Farbenfabriken of Elberfeld Co. (See Engelmann, Max, assignor.)						
Farbenfabriken of Elberfeld Co. (See Hofmann, Fritz, assignor.) (Reissue.)						
Farbenfabriken of Elberfeld Co. (See Hofmann and Callsen, assignors.)						
Farbenfabriken of Elberfeld Co. (See Nastvogel, Oscar, assignor.)						
Farbenfabriken of Elberfeld Co. (See Seel, Eugen, assignor.)						
Farber, Charles M., Christiansburg, Va., assignor of one-third to M. H. Stuart, Long-beach, Cal. Combined wheel-hoist, wheel-rest, thumb-scraper, nut-clutch, &c.	699,671	May 13	1044	243	99	1404
Farwerke, vorm. Meister, Lucius & Brüning. (See Bolzano, Friedrich von, assignor.)						
Farwerke, vorm. Meister, Lucius & Brüning. (See Dolfus, Walter, assignor.)						
Farwerke, vorm. Meister, Lucius & Brüning. (See Dungen, Emil von, assignor.)						
Farwerke, vorm. Meister, Lucius & Brüning. (See Ernst, Otto, assignor.)						
Farwerke, vorm. Meister, Lucius & Brüning. (See Gallois, Moriz von, assignor.)						
Farwerke, vorm. Meister, Lucius & Brüning. (See Hartmann, Christoph, assignor.)						
Farwerke, vorm. Meister, Lucius & Brüning. (See Hepp, Eduard, assignor.)						
Farwerke, vorm. Meister, Lucius & Brüning. (See Hoffmann, Carl, assignor.)						
Farwerke, vorm. Meister, Lucius & Brüning. (See Homolka, Benno, assignor.)						
Farwerke, vorm. Meister, Lucius & Brüning. (See Homolka and Bolzano, assignors.)						
Farwerke, vorm. Meister, Lucius & Brüning. (See Homolka and Liebknecht, assignors.)						
Farwerke, vorm. Meister, Lucius & Brüning. (See Homolka and Schwan, assignors.)						
Farwerke, vorm. Meister, Lucius & Brüning. (See Kelbe, Werner, assignor.)						
Farwerke, vorm. Meister, Lucius & Brüning. (See Krauss and Bernack, assignors.)						
Farwerke, vorm. Meister, Lucius & Brüning. (See Liebrecht, Arthur, assignor.)						
Farwerke, vorm. Meister, Lucius & Brüning. (See Merling, Georg, assignor.)						
Farwerke, vorm. Meister, Lucius & Brüning. (See Peterhauser, Fritz, assignor.)						
Farwerke, vorm. Meister, Lucius & Brüning. (See Schirmacher, Karl, assignor.)						
Farwerke, vorm. Meister, Lucius & Brüning. (See Scholl, Franz, assignor.)						
Farwerke, vorm. Meister, Lucius & Brüning. (See Sohst, Otto, assignor.)						
Farwerke, vorm. Meister, Lucius & Brüning. (See Winter, Ernst, assignor.)						
Farwerke, vormals Meister, Lucius & Brüning. (See Liebknecht and Homolka, assignors.)						
Farcy, Eugène, assignor to Ste. des Etablissements Farcy et Oppenheim, Paris, France. Corset	706,307	Aug. 5	613	134	100	1239
Farez, Christ, Tyrone, Pa. Belt-fastener	690,938	Jan. 14	1074	241	98	240
Fargo, Frank B., et al. (See Hierstadt, John M., assignor.)						
Fargo, Frank B., et al. (See Hierstadt, John M., assignor.)						
Faries Manufacturing Company. (See Faries, Robert, assignor.)						
Faries, Robert, assignor to Faries Manufacturing Company, Decatur, Ill. Shutter-trip- per for cameras	690,939	Jan. 14	1074	242	98	241
Faris, James E., assignor of one-half to J. H. Oglebay, Kansas City, Mo. Box	695,677	Mar. 18	2515	570	98	2273
Farley, James, Waukesha, Wis. Compressed-air controlling device for sand-discharg- ers	696,730	Apr. 1	633	143	99	137
Farley, James, Waukesha, Wis., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-head	695,547	Mar. 18	2267	512	98	2222
Farley, John P., Kansas City, Mo. Basin-cock	714,684	Dec. 2	62	13	101	1850
Farley, John W., Cleveland, Ohio. Non-conducting covering for pipe fittings or joints.	701,999	June 10	1290	295	99	2391
Farlin, George W., Jr. (See Cradick and Farlin.)						
Farlow, John H., Baltimore, and G. Schimpf, Curtis Bay, assignors to Ryan-McDonald Manufacturing Co., Baltimore, Md. Dumping-car	711,420	Oct. 14	1953	425	101	421
Farnham, Guy H., Denver, Colo. Friction-clutch	693,507	Feb. 18	2446	536	98	1349
Farmer, Albert J., assignor of two-thirds to J. P. Haller and C. P. Hale, San Francisco, Cal. Fish splitting and cleaning machine	710,912	Oct. 7	964	212	101	196
Farmer, Arcidas R., St. Louis, Mo. Flash-lamp	693,694	Feb. 18	2515	619	98	1424
Farmer, Matthew S., Washington, D. C. Railway-switch	693,384	Feb. 18	2268	485	98	1300
Farmer, Theodore P., Southwest Harbor, Me. Surface for preventing slipping and re- sisting wear	696,362	Mar. 25	3871	860	98	2564
Farmer, Theodore P., Southwest Harbor, Me., assignor to Protective Tread Company, Boston, Mass. Antislipping device	696,322	Mar. 25	3780	843	98	2549
Farnham, Bion B., Castleton, N. Y. Couch-roll	694,954	Mar. 11	1187	260	98	1981
Farnham, Ed. W. (See Walkins, Louis E., assignor.)						
Farnham, Ed. W., Chicago, Ill. Electric railway	696,023	Mar. 25	3148	710	98	2416
Farnham, Ed. W., Chicago, Ill. Electric railway	696,024	Mar. 25	3151	711	98	2417
Farnham, Ed. W., Chicago, Ill. Electric railway	716,995	Dec. 30	4681	1015	101	2387
Farnham, Frank G., Honesdale, Pa. Polishing-wheel	709,312	Sept. 16	2512	566	100	2530
Farnham, Frank G., Honesdale, Pa. Rotary brush	712,080	Nov. 11	1165	268	101	1152
Farnham, Frank H., Cincinnati, Ohio. Gages-shears	716,015	Dec. 16	2640	581	101	2419
Farnham, Isaiah H., deceased; M. J. Farnham, Wellesley, Mass., administratrix, as- signor to New England Telephone & Telegraph Company. Telephone-circuit	706,305	Aug. 5	614	134	100	1239
Farnham, Marcia J., administratrix. (See Farnham, Isaiah H.)						
Farnoff, Jay W., assignor of one-half to W. H. Warren, Buffalo, N. Y. Closure for jars, cans, &c.	710,961	Oct. 14	1062	234	101	232
Farnum, Loring N., Boston, assignor of one-half to F. C. Stevens, North Andover, Mass. Rail-bolting machine	715,363	Dec. 9	1360	293	101	2134
Farquhar, Charles S., et al. (See Cooley, John F., assignor.)						
Farquhar, David. (See Kenney, Thomas M., assignor.)						
Farquhar, Harry D., Brooklyn, assignor to E. & H. T. Anthony & Company, New York, N. Y. Photographic stand	693,792	Feb. 18	2073	656	98	1457
Farquharson, David, et al. (See Wilcox, Joseph R., assignor.)						
Farquharson, Franklin C. (See Turner and Farquharson.)						
Farr, Hiram G., Winchester, Mass. Device for reducing the noise in elevated-railway structures	694,359	Mar. 4	32	7	98	1719
Farr, Hiram G., Winchester, Mass. Device for lessening the noise of vibration in vehi- cles	712,281	Oct. 28	3622	791	101	796
Farr, Hiram G., Winchester, Mass. Fish-plate and noise-reducing device for railways	717,088	Dec. 30	4850	1050	101	2924

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Farr, Mark C., Chicago, Ill. Lawn-seat	696,425	Apr. 1	60	14	99	16
Farraday, Simon E., Gloucester City, N. J., and J. H. Goss, Waterbury, Conn., assignors to Welsbach Light Company, Gloucester City, N. J. Hydrocarbon-burner	692,830	Feb. 11	1105	247	98	1050
Farrand Organ Company. (See Courville, Joseph, assignor.)						
Farrand Organ Company. (See Flora, Ellsworth E., assignor.)						
Farrand & Votey Organ Company. (See Courville, Joseph, assignor.)						
Farrand & Votey Organ Company. (See Whitehead, Aura E., assignor.)						
Farrand, William K., assignor of one-third to M. A. Hill, Brooklyn, N. Y. Hanger for awnings, &c.	716,016	Dec. 16	2641	582	101	2419
Farrar, W. J., et al. (See Jones, Frank H., assignor.)						
Farrrel Foundry and Machine Company. (See Bowen and Ericsson, assignors.)						
Farrrel Foundry and Machine Company. (See Hale, Bernard O., assignor.)						
Farrell & Co. (See Lawless, Michael J., assignor.)						
Farrell, Daniel A., and H. E. Kresse, Anniston, Ala. Non-refillable bottle	700,312	May 20	2363	539	99	1092
Farrell, George B., Wilkesbarre, Pa. Car-wheel	703,595	July 1	340	77	100	68
Farrell, Patrick J., Joliet, Ill. Mail-car	700,894	Sept. 30	3030	832	100	2798
Farrell, Thomas A., Chicago, Ill. Screw-driver	694,848	Mar. 4	980	218	98	1921
Farrell, William H., Donora, Pa. Wire-barbing machine	704,872	July 15	2893	606	100	600
Farrelly, Patrick. (See De Groot and Thompson, assignors.)						
Farren, William D., Danville, Cal. Railway- semaphore, &c.						
Farrington, Alexander G. (See Doak and Farrington.)	704,015	July 8	1190	258	100	252
Farrington, Charles W. (See Winchell, Edwin H., assignor.)						
Farris, Arthur P. (See Lochridge and Farris.)						
Farthing, David J., Butler, Tenn. Loading or unloading apparatus	690,749	May 13	1189	277	99	1431
Farwell, George A., Manchester, N. H. Pumping and dredging apparatus	691,123	Jan. 14	1404	320	98	307
Farwell, Hart F., Astoria, assignor to Country Home Telephone Manufacturing Company, Chicago, Ill. Anchoring-post	707,693	Aug. 26	9230	725	100	1832
Farwell, Willard B., San Francisco, Cal. Magazine-firearm	715,773	Dec. 16	2140	479	101	2311
Faschian, Herman, assignor of one-half to G. Zimmerman, San Francisco, Cal. Cooking-cabinet	709,476	Sept. 23	2861	643	100	2614
Fassett, Francis K., St. Louis, Mo., assignor, by mesne assignments, to Chicago Railway Equipment Company, Chicago, Ill. Side bearing for railway-cars	691,699	Jan. 21	2512	562	98	559
Fassett, Francis K., St. Louis, Mo., assignor to Chicago Railway Equipment Company, Chicago, Ill. Roller side bearing for cars	710,673	Oct. 7	529	110	101	107
Fassett, Francis K., assignor to L. Ehrlich, St. Louis, Mo. Controller for elevators	698,827	Apr. 29	4645	1025	99	1052
Fassett, Francis K., St. Louis, Mo., assignor, by mesne assignments, to Elevator Supply & Repair Company, Chicago, Ill. Electric signaling system	711,202	Oct. 14	1565	1386	101	340
Fassett, George W., Middlebury, and R. A. Whittier, Hancock, Vt. Gluing-machine	690,847	Jan. 7	911	203	98	193
Fassett, James H., Nashua, and J. E. Warren, Greenfield, N. H. Pencil-sharpener	701,027	May 27	3744	857	99	1998
Fassett, James H., Nashua, and J. E. Warren, Greenfield, assignors of one-half to W. H. Cheever, Nashua, N. H. Attachment for car-steps	708,131	Sept. 2	247	58	100	2038
Fassmann, Josef V., Vienna, assignor of three-tenths to Firm of A. Martinovics, Tepitz, Austria-Hungary. Siphon-head for soda-water bottles or the like	710,674	Oct. 7	531	110	101	108
Fast, Clinton C., Potterville, Mich. Bean-harvester	696,668	Apr. 1	511	118	99	111
Fast, L. R. (See Magie, Wilber R., assignor.)						
Fast Mail Delivery Company (See Burr, Franklin H., assignor.)						
Fauber, William H., Chicago, Ill. Bicycle-pedal	701,028	May 27	3745	857	99	1998
Faubion, William, Gause, Tex. Windmill	711,954	Oct. 28	3036	667	101	681
Fauk, Albert, Jr., Mareinkowice, Austria-Hungary. Apparatus for boring wells by percussion	692,645	Feb. 4	751	173	98	953
Faught, John E., assignor of one-half to A. D. Vergon, Columbia City, Ind. Furniture-joint fastening	714,885	Dec. 2	498	104	101	1036
Faught, Luther R., deceased, Philadelphia, Pa.; M. J. Faught, administratrix. Core for casting car-wheels	700,313	May 20	2364	540	99	1693
Faught, Mary J., administratrix. (See Faught, Luther R.)						
Faul, Lewis, Peoria, Ill., assignor to Clark, Quien & Morse. Gearing for washing-machines	716,017	Dec. 16	2643	582	101	2420
Faulds, John, Chicago, Ill. Baker's-oven illuminator	698,385	Feb. 18	2210	485	98	1300
Faulk, John B., Mayock, N. C. Manure-distributing cart	693,605	Feb. 18	2816	619	98	1424
Faulkner, Alban H., assignor to J. P. Newbold, trustee, Cape May, N. J. Fastener for garments, &c.	717,371	Dec. 30	5382	1170	101	3038
Faulkner, Alonzo D., assignor to G. H. Duncombe, Meyersdale, Pa. Railway-car chock	703,906	July 1	983	214	100	196
Faulkner, Edward J. (See Rust and Faulkner.)						
Faulkner, James E., Whatcom, Wash. Stovepipe holder or collar	709,087	Sept. 16	2666	474	100	2435
Faulkner, James J., Memphis, Tenn. Roller baling-press	696,963	Apr. 1	874	202	99	185
Faulkner, William J., Chicago, Ill. Apparatus for generating gas	701,186	May 27	4018	923	99	2156
Faulkner, William J., Chicago, Ill. Apparatus for generating gas	701,806	June 3	993	207	99	2303
Faulkner, William S., Lynchburg, Va. Shelter-tent half and poncho	703,245	June 24	3629	834	99	2906
Faunce, Benjamin R., Philadelphia, Pa. Making caffeine	716,878	Dec. 30	4448		101	2840
Faure, Henry T., Spencer, Mass. Sulky attachment for harrows	706,040	Aug. 5	76	16	100	1132
Faust, Albert C., and P. Kearns, Burlington, N. J. Manger	712,919	Nov. 4	857	199	101	1072
Faust, Carl L. (See Smith and Faust.)						
Faust Menograph Company. (See Smith and Faust, assignors.)						
Faure, Frank M., et al. (See Gaynor, John J., assignor.)						
Fawcett, James F., assignor of one-half to J. Hamilton, Pittsburg, Pa. Lift mechanism for tin-plate	697,400	Apr. 8	1898	424	99	423
Fawcett, John M., Kokomo, Ind. Poultry-coop	713,756	Nov. 18	2505	357	101	1446
Fawkes, Wilbert C., Sioux City, Iowa. Washing-machine	701,187	May 27	4020	924	99	2056
Fawkes, Wilbert C., North Chicago, Ill. Washing-machine	717,372	Dec. 30	5383	1171	101	3039
Fay, Charles P., assignor to J. Stevens Arms & Tool Company, Chicopee Falls, Mass. Breech-block and lever connection	700,116	May 13	1893	440	99	1577
Fay, Charles P., and W. Ferguson, assignors to J. Stevens Arms & Tool Company, Chicopee Falls, Mass. Safety-catch for firearms	712,282	Oct. 28	3623	792	101	796
Fay, Edgar E., New York, N. Y. Machine for forming, shaping, hardening, and tempering metal blanks	691,253	Jan. 14	1646	376	98	359
Fay, Frederick L. (See Fay, Rimmon C. and F. L.)						
Fay, Louis P., Denison, Tex. Cotton-chopper	699,147	Sept. 16	2178	499	100	2460
Fay, Marcus L., et al. (See Neubauer, Carl E., assignor.)						
Fay, Rimmon C., assignor to Easton & Burnham Machine Company, Pawtucket, R. I. Adjustable or separable pulley	707,685	Aug. 26	3238	726	100	1839
Fay, Rimmon C., Pawtucket, R. I., and F. L. Fay, East Brookfield, Mass., assignors to Easton & Burnham Machine Company, Pawtucket, R. I. Winding-machine	707,684	Aug. 26	3233	725	100	1832



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Fay, Walter L. (See Bowen, Ernest S., assignor.)					
Fearnley, Edw. O. (See Jackson and Fearnley.)					
Feather, John B., Roaring Spring, Pa. Sliding window-screen.	694,095	Feb. 25	2500	794	98 1508
Febiger, Henry B., Philadelphia, Pa. Golf-club	690,940	Jan. 14	1070	242	98 241
Febiger, Henry B., Philadelphia, Pa. Apparatus for extinguishing fires in closed compartments	702,713	June 17	2611	601	99 2683
Febiger, Henry B., Philadelphia, Pa. Extinguishing fire in closed compartments	702,714	June 17	2612	601	99 2684
Fecker, Gottlieb. (See Warner and Fecker.)					
Fecker, Gottlieb, assignor to Warner & Swasey Company, Cleveland, Ohio. Telescope	695,712	Mar. 18	2566	581	98 2283
Fecker, Gottlieb, assignor to Warner & Swasey Company, Cleveland, Ohio. Binocular glasses	701,863	June 10	1035	231	99 2340
Fedeler, John H., New York, N. Y. Steam-turbine	700,314	May 20	2366	540	99 1693
Feder, Harry, New York, N. Y. Garment-stiffener	717,373	Dec. 30	5385	1171	101 3039
Federal Appliance and Manufacturing Company. (See Simpson, Edward C., assignor.)					
Federal Automatic Machine Company. (See Schroeder, George G., assignor.)					
Federal Development Company. (See Cook, Albert J., assignor.)					
Federal Glue Company. (See Kelsey, Lovell L., assignor.)					
Federal Refining Company. (See Spreckels and Kern, assignors.)					
Federigo, Del. (See Giorgetti, Fuyat, and Federigo.)					
Fee, Ellsworth L., Warren, Ind. Incandescent vapor-burner	700,634	May 20	2954	679	99 1816
Fee, John. (See Shaw and Fee.)					
Feely, William C., New York, N. Y. Invalid bed and commode	713,416	Nov. 11	1841	416	101 1292
Fefel, Henry H., assignor by mesne assignments, to New-York-Pittsburgh Manufacturing Company, New York, N. Y. Mechanical movement	703,396	July 1	61	11, 12	100 15
Fefel, Henry H., assignor, by mesne assignments, to New-York-Pittsburgh Manufacturing Company, New York, N. Y. Stitch-forming mechanism for sewing-machines	705,569	July 29	4372	948	100 946
Fehler, Odilon, Montreal, Canada. Nut-lock	716,018	Dec. 16	2644	582	101 2420
Fehler, William, Mountaineville, Pa. Safety-stop for elevators	707,407	Aug. 19	2682	605	100 1702
Fehr, William, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Gripping mechanism for feeding metal strips, &c.	699,508	May 6	715	167	99 1324
Feil, Otto, Atlanta, Ga. Collapsible box	707,962	Aug. 26	3818	858	100 1948
Feild, Alexander J., Raleigh, N. C. Extractor for plug-tobacco, &c.	702,294	June 10	1806	412	99 2197
Feinberg, Isaac H., et al. (See Cohnhoff, Louis, assignor.)					
Feinmaschinenbau G. Calberla, G. M. B. H. (See Paul, Josef, assignor.)					
Felbel, Jacob. (See Stickney, Burnham C., assignor.)					
Felbel, Jacob, New York, N. Y. Type-writing machine	709,088	Sept. 16	2067	474 475 476	100 2435
Felbel, Jacob, New York, N. Y., and C. Gabrielson, Greenville, N. J.; said Gabrielson assignor to said Felbel. Type-writing machine	696,137	Mar. 25	3389	764	98 2469
Felbel, Jacob, New York, N. Y., and C. Gabrielson, Greenville, N. J.; said Gabrielson assignor to said Felbel. Type-writing machine	699,796	May 13	1286	297 298 299 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	99 1452
Felbel, Jacob, New York, N. Y., and C. Gabrielson, Greenville, N. J.; said Gabrielson assignor to said Felbel. Type-writing machine	703,339	June 24	3783	872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	99 2938
Feld, Louis C., Brooklyn, N. Y. Nursing-bottle holder for baby-carriages	712,184	Oct. 28	3456	758	101 762
Felder, Jesse J., Navasota, Tex. Hook	710,445	Oct. 7	82	19	101 19
Feldhus, Heinrich, Hallam, Nebr. Power-hammer	716,019	Dec. 16	2645	582	101 2420
Feldkamp, Fritz A., Newark, N. J. Apparatus for generating carbonic-acid gas	705,570	July 29	4374	948 949	100 947
Feldmann, John F. (See Krimmelbein, Leopold, assignor.)					
Feldmann, Louis, Jr., and C. A. Haas, St. Louis, Mo. Display-rack	713,417	Nov. 11	1843	416	101 1293
Feldmeier, Harvey, assignor to D. H. Burrell & Company, Littlefalls, N. Y. Apparatus for heating or cooling liquids	706,170	Aug. 5	327	69, 70	100 1184
Felker, Melancthon O., Chicora, Pa. Whip	703,397	July 1	63	12	100 15
Felkin, A. C. and M. L. (See Scott, Charles C., assignor.)					
Fell, John M., Arlington, N. J., assignor to American Telephone and Telegraph Company. Vibratory-current relay	708,539	Sept. 9	971	220	100 2190
Fell, John M., Arlington, N. J., assignor to American Telephone and Telegraph Company. Apparatus for composite systems of simultaneous telegraphy and telephony	709,437	Sept. 16	2763	622	100 2582
Felleman, Henry. (See Cook, George W., assignor.)					
Fellows, Augustus, Washington, D. C. Bicycle-lamp lock	703,997	July 1	984	214	100 1797
Fellows, Byron W., Beverly, Mass. Rotary engine	709,702	Sept. 23	3283	735 736	100 2702
Fellows, Edwin C., assignor to Enterprise Manufacturing Company of Pennsylvania. Philadelphia, Pa. Electric controller	703,340	June 24	3797	873	99 2942
Fellows, John, Cradley Heath, England. Anchor	711,839	Oct. 21	2774	614	101 608
Fellows, Joseph, Philadelphia, Pa. Clamp	702,416	June 17	2052	467	99 2566
Felmele, John H., Pittsburg, Pa. Wrapping-machine	699,750	May 13	1192	277 278	99 1432
Fels and Co. (See Watson, William S., assignor.)					
Feisenstein, Jacob. (See Dorsey, Charles J., assignor.)					
Felsing, Samuel D., and E. G. Gustafson, Crookston, Minn. Wheeled straw-stacker	696,954	Apr. 8	1109	246	99 256
Felt, Charles E., and D. A. Kimbark, Chicago, Ill. Electric train-connector	706,326	Aug. 5	433	92	100 1205
Felt, Dorr E., Chicago, Ill. Duplicate printing mechanism for adding-machines	698,958	Feb. 25	3315	728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	98 1548
Felt, Dorr E., Chicago, Ill. Tabulating-machine	694,955	Mar. 11	1188	261	98 1981
Felt, Dorr E., assignor to Comptograph Company, Chicago, Ill. Tabulating-machine	711,487	Oct. 21	2096	454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921	

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr. & G.	Vol.	Page.
Fenn, William B., Wilkesbarre, assignor to A. J. Roat Manufacturing Company, Kings- port, Pa. Handle for sad-irons.	706,813	Aug. 12	1578	354	100	1456
Fenn, William M., Bristol, Conn. Cultivator and weeder	713,866	Nov. 18	2704	604	101	1389
Fenner, George P., New London, Conn. Sheet-delivery apparatus	692,840	Feb. 11	1106	247	98	1051
Fenner, George P., New London, Conn. Sheet-delivery apparatus	698,914	Apr. 29	4818	1062	99	1090
Fenner, George P., New London, Conn. Printing-press	701,698	June 3	757	167	99	2267
Fenner, George P., New London, Conn. Sheet-delivery apparatus for printing-presses.	704,868	July 15	2797	604	100	590
Fenner, George P., New London, Conn. Sheet-delivery for printing-presses	708,878	Sept. 9	1634	376	100	2328
Fenner, Horace R., Providence, R. I., assignor to Regnell, Bigney & Co., Attleboro, Mass. Wire chasing or marking machine	715,774	Dec. 16	2143	479	101	2312
Fenner, Horace R., Providence, R. I., assignor to Regnell, Bigney & Co., Attleboro, Mass. Chain-machine	715,775	Dec. 16	2144	480	101	2312
Fenner, Irvin R. and W. D., San Francisco, Cal. Artificial limb	701,318	June 3	72	15	99	2123
Fenner, Jess B., assignor to J. W. Ruger Manufacturing Company, Buffalo, N. Y. Op- erating mechanism for gas-engine valves, &c.	705,058	July 22	3236	700	100	705
Fenner, Jess B., assignor to J. W. Ruger Manufacturing Company, Buffalo, N. Y. Fuel- valve for gas-engines	706,916	Aug. 12	1767	395	100	1495
Fenner, William D. (See Fenner, Irvin R. and W. D.)						
Fenner, William H., Chicago, Ill. Fine-fuel furnace	698,190	Apr. 22	3389	744	99	768
Fenner, William H., Chicago, Ill. Fine-fuel combustion	698,191	Apr. 22	3395	746	99	768
Fenno, George. (See Sponseller and Fenno.)						
Fenton, Clarence M., Buffalo, and A. Wode, Jr., North Collins, N. Y.; said Wode assignor, to said Fenton. Machine for cutting green corn from the cob	695,806	Mar. 18	2740	624	98	2319
Fenton, Claude, Muskegon, Mich. Whiffletree-clip	713,081	Nov. 11	1166	268	101	1152
Fenton, Eugene, Evanston, Ill. Structural support	692,841	Feb. 11	1108	247	98	1051
Fenton, Theodore C., U. S. Navy. Superposed turret	699,751	May 13	1201	279	99	1434
Fenzel, Matthew J., et al. (See Triance, John C., assignor.)						
Fewick, William H., Jr., Brooklyn, N. Y. Column-joint	714,886	Dec. 2	500	104	101	1936
Ferber, Anthony. (See Foster and Ferber.)						
Ferguson, Albert M., Ste. Cuneconde, and J. A. U. Beaudry, Montreal, Canada. Car- fender	706,041	Aug. 5	78	17	100	1133
Ferguson, Arthur C., Brooklyn, N. Y. Direct-key-lever type-writer	717,374	Dec. 30	5386	1171	101	3089
Ferguson, Charles H., Chicago, Ill. Portable grindstone	693,593	Feb. 18	2623	679	98	1384
Ferguson, David, assignor of one-half to J. F. Wood, Pittsburg, Pa. Locking device for bolts	705,571	July 29	4378	949	100	947
Ferguson, David, Pittsburg, Pa., assignor of one-half to O. G. Ferguson. Coke-drawer	707,686	Aug. 26	3239	726	100	1833
Ferguson, David L., Tharon, N. C. Toy boat	697,700	Apr. 15	2478	553	99	556
Ferguson, Dougald R., Wilkinsburg, and G. W. Nimon, Port Perry, Pa. Roll-polishing apparatus	692,129	Jan. 28	3324	753	98	739
Ferguson, Santa Rosa, Cal. Garment-supporter	710,675	Oct. 7	532	110	101	108
Ferguson, Frank A., Blanchard, Iowa. Self-propelling truck and motor for threshing- machines and grain-separators	704,528	July 15	2188	474	100	474
Ferguson, George, New York, N. Y. Non-refillable bottle	702,000	June 10	1292	295	99	2391
Ferguson, George C., Fredericton, Canada. Cork-extractor	694,466	Mar. 4	246	55	98	1764
Ferguson, James S., Minneapolis, Minn. Autographic registering apparatus.	691,852	Jan. 28	2827	634	98	640
Ferguson, Lyman, Ithaca, N. Y. Automatic extension-ladder lock	691,051	Jan. 14	1299	324	98	286
Ferguson, Meghan, Melbourne, Victoria, Australia. Metallic pole	714,568	Nov. 25	4071	900	101	1796
Ferguson, Oliver G. (See Ferguson, David, assignor.)						
Ferguson, Thomas T. H., Soochow, near Shanghai, China. Surveying instrument	709,313	Sept. 16	2514	567	100	2530
Ferguson, William. (See Carter, George M., assignor.)						
Ferguson, William. (See Fay and Ferguson.)						
Ferguson, William. (See Klein, Joseph, assignor.)						
Ferguson, William, Pittsburg, Pa. Collar and necktie fastener	713,418	Nov. 11	1844	416	101	1293
Ferguson, William, assignor one-half to A. Pafenbach, Pittsburg, Pa. Whiffletree-clip	698,192	Dec. 22	3398	747	99	769
Ferguson, William H., San Jose, Cal. Collapsible cell-box	717,089	Apr. 30	4051	1051	101	2924
Ferguson, Wm. K., et al. (See Doering, August, assignor.)						
Fergusson, Alan R., New York, N. Y. Lock	691,124	Jan. 14	1406	321	98	307
Fergusson, Alan R., New York, N. Y. Lock	691,125	Jan. 14	1411	321	98	309
Fergusson, Alan R., New York, N. Y. Lock	704,180	July 8	1537	320	100	323
Fergusson, Alan R., New York, N. Y. Lock	705,669	July 29	4535	986	100	979
Fergusson, Alan R., New York, N. Y. Desk-bracket	711,621	Oct. 21	2354	515	101	519
Fergusson, Alan R., New York, N. Y. Desk-lamp	711,622	Oct. 21	2356	515	101	519
Fergusson, Alan R., Mount Vernon, N. Y. Lock	697,614	Apr. 15	2292	512	99	519
Fergusson, David, assignor to George N. Pierce Company, Buffalo, N. Y. Transmission- gear	704,699	July 15	2471	593	100	532
Fernand, Charles A., Williamport, Pa. Feed-water heater and condenser	704,454	July 8	2030	300	100	428
Fernald, Charles A. and G. Galer, Columbus, Ohio. Draft-rigging	698,250	Feb. 11	1959	426	98	1227
Fernald, Charles H., Malden, Mass. Crimping, burnishing, and hardening the edges of cardboard or paper	711,840	Oct. 21	2775	615	101	608
Fernald, George H., Northeast, Pa. Thill-coupling	695,097	Mar. 11	1454	323	98	2036
Fernald, George H., Northeast, Pa. Thill-coupling	695,092	Mar. 25	2956	669	98	2378
Fernand, Joseph J. (See Howe and Fernand.)						
Fernandez, Felix T., assignor of one-half to E. O. Ducros, New Orleans, La. Fastening device for envelopes	693,696	Feb. 18	2818	619	98	1424
Fernstrom, Charles, Chicago, Ill. Lawn-trimming implement	709,976	Sept. 30	3859	869	100	2834
Ferrall, Thomas R., Winthrop, assignor to Boston & Lockport Block Company, Boston, Mass. Bearing for sheaves	715,468	Dec. 9	1549	336	101	2170
Ferrari, Guido, Philadelphia, Pa. Cigarette-machine	707,766	Aug. 26	3431	773	100	1872
Ferrari, Guido, Philadelphia, Pa. Tobacco-measuring mechanism for cigarette-ma- chines	707,767	Aug. 26	3441	775	100	1874
Ferrari, Guido, Philadelphia, Pa. Automatic stop mechanism for cigarette-machines	707,768	Aug. 26	3443	775	100	1875
Ferrari, Guido, Philadelphia, Pa. Clutch mechanism	707,769	Aug. 26	3445	776	100	1875
Ferraris, Erminio, Montepioni, Italy. Truing mixed sulfid ones	707,506	Aug. 19	2852	700	100	1738
Ferraris, Erminio, Montepioni, Sardinia, Italy, assignor of one-fourth to W. R. Ingalls, Lynn, Mass. Furnace	714,685	Dec. 2	64	13	101	1850
Ferre, Frank L., New York, N. Y. Line-grip	702,191	June 10	1643	368	99	2164
Ferreira, Charles E., Chicago, Ill. Feed-water purifier	716,399	Dec. 23	3406	742	101	2592



## Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr. g.	Vol.	Page.
Ferrell, Albert T., Saginaw, Mich. Feeding device for bean-sorting machines	701,864	June 10	1036	232	99	2340
Ferrell, Albert T., Saginaw, Mich. Brush attachment for grain-cleaning machines	701,865	June 10	1037	232	99	2340
Ferrell, Albert T., Saginaw, Mich. Blast-regulator for grain-cleaners	701,866	June 10	1039	232	99	2341
Ferrell, Joseph L., Philadelphia, Pa. Impregnating wood	694,356	Mar. 11	1105	262	98	1982
Ferrell, Joseph L., Philadelphia, Pa. Impregnating wood with fireproofing preservatives, &c.	695,450	Mar. 18	2002	470	98	2186
Ferrell, Joseph L., Philadelphia, Pa. Fireproofed wood and making same	695,678	Mar. 18	2516	.....	98	2273
Ferrell, Joseph L., Philadelphia, Pa. Fireproofing compound and making same	695,679	Mar. 18	2517	.....	98	2273
Ferrell, Joseph L., Philadelphia, Pa. Apparatus for impregnating wood	716,400	Dec. 23	3408	743	101	2592
Ferrell, Joseph L., Philadelphia, Pa. Apparatus for impregnating wood	718,401	Dec. 23	3410	744	101	2593
Ferres, Jeffrey T., Anderson, Ind. Paper box	713,624	Nov. 18	2267	504	101	1394
Ferres, Jeffrey T., Anderson, Ind., assignor to J. E. Cleany, Chicago, Ill. Apparatus for corrugating paper	690,713	Jan. 7	670	148	98	141
Ferres, Jeffrey T., Anderson, Ind., assignor to J. W. Sefton Manufacturing Company, Anderson, Ind., and Chicago, Ill. Folding box	631,458	Jan. 21	2080	465	98	468
Ferres, Jeffrey T., Anderson, Ind., assignor to J. W. Sefton Manufacturing Company, Anderson, Ind., and Chicago, Ill. Box	635,200	Mar. 11	1647	366	98	2978
Ferres, Jeffrey T., Anderson, Ind., assignor to J. W. Sefton Manufacturing Company, Anderson, Ind., and Chicago, Ill. Shipping-package	695,201	Mar. 11	1648	366	98	2978
Ferres, Jeffrey T., Anderson, Ind., assignor to J. W. Sefton Manufacturing Company, Anderson, Ind., and Chicago, Ill. Shipping-package	697,463	Apr. 15	2026	447	99	465
Ferrier, James, assignor to Victorian Forage Pressing Company, Proprietary, Limited, Geelong, Victoria, Australia. Forage-press	711,302	Oct. 4	1750	379	101	380
Ferriotti, Charles L., Bartlett, Tex. Corn and cotton planter	692,646	Feb. 4	753	173	98	854
Ferris, Abraham H., Brooklyn, and C. A. Kenworthy, New York, N. Y. Duplicator	707,571	Dec. 26	3012	677	100	1787
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Wire-stretcher	702,295	June 10	1807	413	99	2497
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Track for door-hangers	709,314	Sept. 16	2517	567	100	2531
Ferry, Anthony. (See Green, Isaiah M., assignor.)						
Ferry, James F., Leadville, Colo. Cooking utensil	711,841	Oct. 21	2776	615	101	608
Ferry, Thomas, Cleveland, Ohio. Nut-tapping machine	698,828	Nov. 29	4661	1027	99	1057
Fessler, Milton A., Visalia, Cal. Crude-oil burner	714,467	Apr. 23	2891	859	101	1748
Fessenden, Albert H., et al. (See Corbett, James, assignor.)						
Fessenden, Howard A., assignor to Detroit Electric Signal Company, Detroit, Mich. Signaling apparatus	710,320	Sept. 30	4493	1013	100	2969
Fessenden, Reginald A., Allegheny, Pa. Wireless telegraphy	706,735	Aug. 12	1406	314	100	1420
Fessenden, Reginald A., Allegheny, Pa. Apparatus for wireless telegraphy	706,736	Aug. 12	1410	315	100	1421
Fessenden, Reginald A., Allegheny, Pa. Wireless telegraphy	706,737	Aug. 12	1415	316	100	1422
Fessenden, Reginald A., Allegheny, Pa. Wireless telegraphy	706,738	Aug. 12	1421	316	100	1423
Fessenden, Reginald A., Allegheny, Pa. Conductor for wireless telegraphy	706,739	Aug. 12	1424	316	100	1423
Fessenden, Reginald A., Manteo, N. C. Wireless signaling	706,740	Aug. 12	1428	316	100	1424
Fessenden, Reginald A., Manteo, N. C. Apparatus for wireless telegraphy	706,741	Aug. 12	1430	317	100	1424
Fessenden, Reginald A., Manteo, N. C. Wireless signaling	706,742	Aug. 12	1433	317	100	1425
Fessenden, Reginald A., Manteo, N. C. Wireless signaling	706,743	Aug. 12	1440	318	100	1426
Fessenden, Reginald A., Manteo, N. C. Current-actuated wave-responsive device	706,744	Aug. 12	1441	318	100	1426
Fessenden, Reginald A., Manteo, N. C. Signaling by electromagnetic waves	706,745	Aug. 12	1443	319	100	1426
Fessenden, Reginald A., Manteo, N. C. Signaling by electromagnetic waves	706,746	Aug. 12	1448	319	100	1427
Fessenden, Reginald A., Manteo, N. C. Apparatus for signaling by electromagnetic waves	706,747	Aug. 12	1450	319	100	1428
Fessenden, Reginald A., Manteo, N. C. Current-operated receiver for electromagnetic waves	715,043	Dec. 2	762	162	101	1990
Fessenden, Reginald A., Manteo, N. C. Selective signaling by electromagnetic waves	715,043	Dec. 2	1061	228	101	2053
Fette, Heinrich W. A., Altona-Ottensen, Germany. Groove-cutter	693,508	Feb. 18	2147	537	98	1349
Fette, Heinrich W. A., Altona-Ottensen, Germany. Flexible shaft	717,000	Dec. 30	4853	1051	101	2324
Petzter, William. (See Moehring and Petzer.)	702,785	June 17	2746	631	99	2711
Petzter, William, Middletown, Ohio. Drag-bar for drills	695,713	Mar. 18	2567	581	98	2283
Petzter, William, Middletown, Ohio. Grain-drill	700,315	May 20	2338	540	99	1693
Petzter, William, Middletown, Ohio. Seeder	710,852	Oct. 7	872	189	101	177
Feval, Leon, assignor, by mesne assignments, to Transparent Cellulose Products Company, New Brunswick, N. J. Making collapsible tubes, &c.	706,541	Aug. 12	1064	244	100	1345
Fewings, Frederick J., Duluth, Minn. Car or engine replacer	706,542	Aug. 12	1065	235	100	1346
Fichter, Eugene, Paterson, N. J. Non-refillable bottle	703,398	July 1	61	12	100	15
Fickett, R. N., Sr., et al. (See Winn, Elisha S., assignor.)						
Fidjeland, Terje A., Postveit, Iveland pr Christiansand S., Norway. Magazine-rifle	691,360	Jan. 21	1920	431	98	434
Fieberger, Frank, Akron, Ohio. Grate for furnaces	710,570	Oct. 7	333	72	101	67
Fieberger, Frank, Akron, Ohio. Cleaning-grate for furnaces	714,592	Dec. 2	283	80	101	1805
Fiedler, Carl E., Klingenthal, Germany. Zither	692,773	Feb. 4	980	222	98	907
Field, Benjamin P. (See Carman, Clarence A., assignor.)						
Field, Charles C. (See Pullman and Field.)						
Field, Frederick F., Providence, R. I. Faucet	699,377	May 6	468	110	99	1271
Field, Guy M. (See Ellis, Marshall D., assignor.)						
Field, Millard F., Boston, Mass. Car-fender	698,915	Apr. 20	4819	1063	99	1090
Field, Robert, and A. Hanson, Huddersfield, England. Mouth-organ	708,805	Sept. 9	1480	330	100	2350
Field, Sionne, Chicago, Ill. Wall-paper paster and trimmer	692,647	Feb. 4	754	174	98	954
Field, William A., Chicago, Ill. Converter-twyer	712,053	Oct. 28	3205	702	101	713
Field, William C., assignor of three-fifths to W. T. Delahanty and W. A. Shorb, Decatur, Ill. Safety-valve	705,572	July 29	4379	940	100	947
Fielding, Arthur, Salford, England. Manufacture of viscose	708,760	Sept. 9	1384	.....	100	2276
Fielding, Arthur, Salford, England. Fixing viscose on textiles, &c.	708,761	Sept. 9	1385	.....	100	2276
Fielding, Philip H., New York, N. Y. Electrical receptacle	714,290	Nov. 25	3585	788	101	1680
Fielding, Philip H., New York, N. Y. Electrical receptacle	714,291	Nov. 25	3587	789	101	1680
Fielding, Philip H., New York, N. Y. Lamp-socket	714,292	Nov. 25	3588	789	101	1680
Fielding, William I., New Britain, Conn., assignor of one-half to L. Schwab, Atlantic City, N. J. Faucet connection	696,230	Mar. 25	3576	800	98	2504
Fields, Charles C., Morristown, Tenn. Wrench	705,042	Aug. 5	79	17	100	1131
Fields, Oliver E., Duanecon, Pa. Lifting-jack	706,043	Aug. 5	80	17	100	1132
Fierbaugh, Samuel, Huntington, W. Va. Railway-switch	717,375	Dec. 30	5389	1172	101	3040
Fierke, John F., Dundee, Ill. Nut-lock and key	702,363	June 10	1385	441	99	2322

## Alphabetical list of patentees—Continued.

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Flévet, Henri E. L. (See Germot and Flévet.)						
Fifer, Archie G., Quincy, Ill. Toy cannon	706,399	Aug. 5	802	173	100	1276
Figueroa, Emilio, and L. Echemendia, New York, N. Y. Bottle-filling machine	696,955	Apr. 8	1111	246	99	256
Fike, William W., Garrett County, Md. Metallic tie	709,850	Sept. 23	3572	805	100	2763
Fillee, Rollin D. (See Keeler and Fillee.)						
Fillet, Joseph, Neuilly-sur-Seine, France. Carbureting device for explosion-engines	606,231	Mar. 25	3576	800	98	2504
Filly, Charles H. (See Ellis and Perkins, assignors.)						
Filly, Christopher G. (See Jenkins, William S., assignor.)						
Fillingham, Joseph P., assignor of nine-tenths to R. R. Hicks and E. L. Markey, Battle-creek, Mich. Automatic governor for fluid-compressors	707,687	Aug. 26	3241	727	100	1834
Fillingham, Myles P., Ansonia, Conn. Safety stop-motion for grinding-machines	694,096	Feb. 25	3591	794	98	1599
Fillmore, George M., Washington, D. C., assignor of two-thirds to J. H. Ralston, Hyatts-ville, Md., M. H. Ramage and A. Schulteis, Washington, D. C. Feed-box for live stock	709,438	Sept. 16	2766	623	100	2583
Filsinger, Rudolph, Jr., Allegheny, Pa. Horse-bridge wagon	715,567	Dec. 9	1751	387	101	2210
Filson, Charles F., et al. (See Filson, William C., assignor.)						
Filson, Frank L., et al. (See Filson, William C., assignor.)						
Filson, Frank L., Point Pleasant, W. Va. Sheet-metal pipe	710,262	Sept. 30	4396	990	100	2940
Filson, William C., assignor of two-thirds to C. F. and F. L. Filson, Point Pleasant, W. Va. Self-chalking holder for chalk-lines	712,283	Oct. 28	3624	792	101	797
Filter, August, Hanover, Germany. Bread-cutter	698,916	Apr. 29	4821	1063	99	1090
Filter, Brautechnische Maschinen-Fabrik, Act. Ges. vorm. L. A. Enzinger, (See Enzinger, Karl, assignor.)						
Finch, Hosea W., Tacoma, Wash. Split pulley	706,917	Aug. 12	1769	395	100	1496
Finch, John W., Leland, Miss. Wagon-body	700,635	May 20	2955	679	99	1817
Finch, Robert B., assignor of one-half to E. T. Jones, Denver, Colo. Eyeglasses	709,574	Sept. 23	3666	682	100	2658
Finch, Robert B., assignor of one-half to E. T. Jones, Denver, Colo. Eyeglasses. (Re-issue)						
Finch, William J., and W. Crayne, Sioux City, Iowa. Plating-machine	715,469	Nov. 11	2182	486	101	1359
Finchum, Charles E. (See Finchum, Isaiah H., assignor.)						
Finchum, Isaiah H., assignor of one-half to C. E. Finchum, Indianapolis, Ind. Elevated rapid-transit line	714,293	Nov. 25	3589	789	101	1689
Findlay, John. (See Belfield, Shearer, Findlay, and Belfield.)						
Fink, John C., Steelton, Pa. Writing attachment	701,867	June 10	1040	233	99	2341
Fink, Joseph H., Kansas City, Mo., and R. Andlauer, Kansas City, Kans. Vapor-stove	701,475	June 3	348	77	99	2181
Fink, Karl. (See Wieser, Joseph, assignor.)						
Finley, Charles, Indianapolis, Ind. Combined traveler's drinking-cup and shaving-mug	693,959	Feb. 25	3318	720	98	1544
Finley, Homer P., Ann Arbor, Mich. Grain-harvester	707,836	Aug. 20	3587	810	100	1993
Finn, Edwin, Elkhart, Ind. Screw-driving machine	710,676	Oct. 7	533	111	101	108
Finn, Edwin, Elkhart, Ind., assignor, by mesne assignments, to W. F. Stumpson, Detroit, Mich. Computing scale	716,211	Dec. 16	3044	664	101	2504
Finn, George, Newark, N. J. Sad-iron	705,373	July 29	4380	950	100	948
Finn, William, et al. (See Frei, Zölestin, assignor.)						
Finn, William A., Brooklyn, N. Y. Bag-fastener	695,118	Mar. 11	1563	346	98	2060
Finn, William A., Brooklyn, assignor of one-fourth to R. Thompson, New York, N. Y. Bag-lock	693,251	Feb. 11	1960	426	98	1227
Finnegan, John, assignor to T. Devlin & Co., Philadelphia, Pa. Coupling for railings, &c.	699,569	May 6	717	167	99	1324
Finney, Frank B. (See Allen, John F., assignor.)						
Finney, Henry E., Chicago, Ill. Device for voicing piano-hammers	696,025	Mar. 25	3158	712	98	2419
Finney, James J., Chicago, Ill. Flush-valve	700,486	May 20	2699	618	99	1762
Finney, James J., Chicago, Ill. Flush-valve	700,487	May 20	2701	619	99	1762
Finney, James J., assignor of one-half to J. H. Chandler, Chicago, Ill. Flush-valve	700,485	May 20	2696	618	99	1761
Finney, John H., assignor of one-half to D. G. Gilmore, Chicago, Ill. Pneumatic cushion	709,977	Sept. 30	3860	869	100	2835
Finn, Thomas, Glasgow, Scotland. Car-seat	695,098	Mar. 11	1456	323	98	2036
Firm, Joseph L., assignor to Goss Printing Press Company, Chicago, Ill. Printing-machine	701,690	June 3	759	169	99	2267
Firm, Joseph L., assignor to Goss Printing Press Company, Chicago, Ill. Printing-press	703,189	June 24	3535	813	99	2836
Firm, Joseph L., assignor to Goss Printing Press Company, Chicago, Ill. Printing-press	704,624	July 15	2947	510	100	505
(Re-issue)	12,051	Nov. 4	1081	251	101	1116
Firman, Asot E. (See Jolly and Firman.)						
Firth Sterling Steel Company. (See Clarke, Eben B., assignor.)						
Fischer, Albert, Oberhausen, Germany. Reversing-valve for regenerative or similar furnaces	707,572	Aug. 26	3014	678	100	1787
Fischer, Albert, assignor of one-half to W. Ross, Detroit, Mich. Street-car fender	693,960	Feb. 25	3319	730	98	1544
Fischer, Alexander, Berlin, Germany. Electric accumulator-plate	708,334	Sept. 2	620	140	100	2107
Fischer, Alexander T., Detroit, Mich. Weeder and thinner	692,649	Feb. 4	758	174	98	954
Fischer, Alexander T., and H. Cordes, Detroit, Mich. Weeder and thinner	692,648	Feb. 4	756	174	98	954
Fischer, Arthur, Augsburg, Germany. Sliding door for railway goods-vans	703,908	July 1	986	215	100	197
Fischer, Arthur C., South Bethlehem, Pa. Shedding mechanism for looms	711,391	Oct. 14	1909	413	101	412
Fischer, Benno, Cannstatt, Germany. Machine for skiving leather	698,918	Apr. 29	4823	1063	99	1091
Fischer, Eduard F., and H. W. Schmid, Philadelphia, Pa. Sad-iron heater	716,020	Dec. 16	2647	583	101	2421
Fischer, Ernst, Barmen, Germany. Printing-press	692,508	Feb. 4	504	118	98	901
Fischer, Ferdinand, and L. Kiefer, Carlslröhe, Germany. Right and left opening door	707,910	Aug. 26	3727	835	100	1929
Fischer, Frederick J. W., Rockaway, assignor to Eagle Pencil Company, New York, N. Y. Pen	699,464	May 6	646	149	99	1309
Fischer, George, Jr. (See Proben and Fischer.)						
Fischer, Harry S., et al. (See Nilson, Lars G., assignor.)						
Fischer, Jacob, and H. Schneider, Solothurn, Switzerland. Coupling for wires, conductors, or the like	704,869	July 15	2799	605	100	599
Fischer, Jacob, and H. Schneider, Solothurn, Switzerland. Self-acting brake	717,182	Dec. 30	5063	1098	101	2970
Fischer, Martin, assignor to Actiengesellschaft "Magnaeta," (Electrische Uhren Ohne Batterie & Ohne Contacte), Zurich, Switzerland. Electric clock	692,509	Feb. 4	505	118	98	902
Fischer, Martin, assignor to Actiengesellschaft Magneta Electrische Uhren Ohne Batterie & Ohne Contacte, Zurich, Switzerland. Electric clock	716,996	Dec. 30	4698	1016	101	2889
Fischer, Max H., East Orange, N. J. Clutch	700,412	May 20	2550	584	99	1730
Fischer, Stedric M., et al. (See Nilson, Lars G., assignor.)						
Fisher, William, Jr., Paterson, N. J. Loom	691,370	Jan. 21	1922	432	98	494
Fish, Albert E., Hartford, Conn. Rotary engine	695,296	Mar. 11	1838	409	98	2115



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Fish, John C., Shelby, Ohio. Bed-guard.....	706,748	Aug. 12	1453	320	100	1429
Fish, Joseph F., assignor of one-half to J. Keller, Chicago, Ill. Sandal.....	698,917	Apr. 29	4822	1068	99	1090
Fish, Walter C., and F. P. Cox, Lynn, Mass., assignors to General Electric Company. Electric recording instrument.....	717,376	Dec. 30	5390	1172	101	3040
Fishbach, Henry, et al. (See Billings, John W., assignor.).....						
Fishback, Harry L., Columbus, Ohio. Bag-holder.....	711,700	Oct. 21	2507	551	101	553
Fishbeck, Freeman, assignor of one-half to C. Leiser, Pittsville, Wis. Weather-strip for doors.....	702,715	June 17	2613	602	99	2684
Fishel, Mark, New York, N. Y., assignor to Standard Caster and Wheel Company. Caster.....	713,082	Nov. 11	1168	268	101	1153
Fishel, Nessler & Co. (See Fishel, Theodore H., assignor.).....						
Fishel, Theodore H., assignor to Fishel, Nessler & Co., New York, N. Y. Chatelaine-holder.....	690,569	Jan. 7	386	79	98	84
Fishell, Daniel W. (See Terrell, Ozias I., assignor.).....						
Fishell, Eugene M., and W. E. Clymer, assignors to National Carbon Company, Cleveland, Ohio. Primary battery.....	701,319	June 3	73	15	99	2124
Fisher, Abel L. (See Clark and Fisher.).....						
Fisher, Alexander D., Toronto, Canada. Combination puzzle-locket.....	692,650	Feb. 4	758	174	98	955
Fisher, Bevy A., Hamilton, Mont. Tilting gate.....	701,868	June 10	1041	234	99	2341
Fisher Book Typewriter Company. (See Fisher, Robert J., assignor.).....						
Fisher Book Typewriter Company. (See Fisher and Stackpole, assignors.).....						
Fisher Book Typewriter Company. (See Hall, Hiram J., assignor.).....						
Fisher Book Typewriter Company. (See Laganke, Charles F., assignor.).....						
Fisher, Charles, Lyons, assignor of one-half to G. A. Horn, Newark, N. Y. Combined end-board and boot for wagons.....	701,320	June 3	75	15	99	2124
Fisher, Charles, Lyons, assignor of one-half to G. A. Horn, Newark, N. Y. End-gate for wagons.....	712,284	Oct. 28	3626	792	101	797
Fisher, Charles A., Thorold, Canada, assignor of one-tenth to C. C. Andrews, North Tonawanda, N. Y. Friction clutch.....	706,400	Aug. 5	803	175	100	1276
Fisher, Charles B., and C. L. Taylor, assignors to M. Seacy, Sioux City, Iowa. Hitching appliance for vehicles.....	712,920	Nov. 4	858	199	101	1072
Fisher, Charles J., Murphysboro, Ill. Automatic brake-adjuster.....	713,757	Nov. 18	2507	557	101	1446
Fisher, Francis E., Glen Arbor, Mich., assignor of one-half to T. C. H. Wegeforth, Chicago, Ill. Vehicle-axle.....	709,213	Sept. 16	2316	526	100	2488
Fisher, Frank H., Brooklyn, N. Y. Box-plaiting device.....	700,753	May 27	3223	739	99	1891
Fisher, Green, et al. (See Hall, Edward W., assignor.).....	695,603	Mar. 18	2383	530	98	2347
Fisher, H. Clarence, et al. (See Hall, Edward W., assignor.).....						
Fisher, Harvey L., Chicago, Ill., assignor to B. J. Downer. Panoramic attachment for cameras.....	690,570	Jan. 7	386	80	98	84
Fisher, Henry W., Pittsburg, Pa. Cable-testing apparatus.....	703,777	July 1	737	163	100	148
Fisher, James, New Orleans, La. Oil-burner.....	715,044	Dec. 2	764	162	101	1991
Fisher, Jesse, Wardner, Idaho. Armored and burglar-proof car.....	712,663	Nov. 4	376	88	101	977
Fisher, John V. (See Shives, Peter P., assignor.).....						
Fisher, John W., Akron, Ohio, assignor of one-half to F. Reifsnnyder, Chicago, Ill. Horse-shoe.....	706,543	Aug. 12	1067	235	100	1346
Fisher, Joseph T. (See Hoover, Jacob D., assignor.).....						
Fisher, Joyce C., Mussoorie, India. Bicycle-lock.....	707,310	Aug. 19	2507	563	100	1665
Fisher, Lucius G. (See Benner, Lorenzo D., assignor.).....						
Fisher, Robert J., Athens, Tenn. Type-writing machine.....	690,714	Jan. 7	674	148	98	143
Fisher, Robert J., Athens, Tenn. Type-writing machine.....	690,715	Jan. 7	689	150	98	146
Fisher, Robert J., Athens, Tenn., assignor to Fisher Book Typewriter Company, Cleveland, Ohio. Line-spacing-lock mechanism for type-writing machines.....	703,954	July 1	1065	231	100	212
Fisher, Robert J., Athens, Tenn., assignor to Fisher Book Typewriter Company, Cleveland, Ohio. Platen for type-writing machines.....	705,521	July 22	4220	917	100	902
Fisher, Robert J., Athens, Tenn., assignor to Fisher Book Typewriter Company, Cleveland, Ohio. Tally-sheet attachment for billing-platens.....	705,522	July 22	4223	918	100	903
Fisher, Robert J., Athens, Tenn., assignor to Fisher Book Typewriter Company, Cleveland, Ohio. Ribbon-feeding mechanism for type-writing machines.....	705,523	July 22	4234	919	100	905
Fisher, Robert J., Athens, Tenn., assignor to Fisher Book Typewriter Company, Cleveland, Ohio. Type-writing machine.....	708,213	Sept. 2	403	93, 94	100	2064
Fisher, Robert J., Athens, Tenn., assignor to Fisher Book Typewriter Company, Cleveland, Ohio. Card or sheet platen for type-writing machines.....	709,005	Sept. 16	1889	433	100	2398
Fisher, Robert J., Athens, Tenn., and H. F. Eckert, Cleveland, Ohio, assignors to Fisher Typewriter Company, Athens, Tenn. Card or sheet holding attachment for type-writing machines.....	700,138	May 13	1968	452	99	1590
Fisher, Robert J., Athens, Tenn., and R. D. Stackpole, Chicago, Ill., assignors to Fisher Book Typewriter Company, Cleveland, Ohio. Carbon-roll billing-platen for type-writing machines.....	705,524	July 22	4240	919	100	906
Fisher, Robert W., et al. (See Beach, Isaac D., assignor.).....						
Fisher Typewriter Company. (See Boyd, Charles W., assignor.).....						
Fisher Typewriter Company. (See Fisher and Eckert, assignors.).....						
Fisher Typewriter Company. (See Laganke, Charles F., assignor.).....						
Fisher, William P., and H. F. Ludington, Muncie, Ind. Fruit-jar or bottle machine.....	701,188	May 27	4023	924	99	2057
Fisk, Charles H. (See Stricker and Fisk.).....						
Fisk, Eugene, North Yakima, Wash. Ironing-table.....	694,360	Mar. 4	33	7	98	1719
Fisk, Eugene B., West Nashville, Tenn. Horseshoe.....	702,296	June 10	1808	413	99	2498
Fisk, Henry M., Wheaton, Ill. Combination drop and jack for telephone-switchboards.....	699,619	May 6	933	216	99	1368
Fisk, John M., Malone, N. Y. Nursery milk-warmer and night-lamp.....	697,825	Apr. 15	2678	505	99	600
Fisk Rubber Company. (See Cole, John C., assignor.).....						
Fiske, Bradley A., U. S. Navy. Telescope-mount.....	699,300	May 6	321	73, 74	99	1240
Fiske, Bradley A., U. S. Navy, assignor to Western Electric Company, Chicago, Ill. Electrical steering apparatus for ships.....	697,826	Apr. 15	2680	595	99	600
Fiske, Bradley A., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Day signaling system.....	716,402	Dec. 23	841	745	101	2593
Fiske, Henry A., Newton, assignor, by mesne assignments, to E. D. Chadwick, Brookline, Mass. Flow-arresting device.....	708,335	Sept. 2	621	140	100	2108
Fiske, Jonathan P. B., Newton, Mass. Brick-kiln.....	693,252	Feb. 11	1961	426	98	1227
Fiske, Jonathan P. B., Newton, Mass. Brick-drier.....	696,026	Mar. 25	3161	712	98	2420
Fiske, Wilson, Medford, Mass., assignor to American Type Founders' Company, New York, N. Y. Box.....	712,434	Oct. 28	3184	857	101	859
Fitch, Eugene, New York, N. Y. Time-indicator.....	715,776	Dec. 16	2417	481	101	2313
Fitch, Eugene, Astoria, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Adding-machine.....	702,052	June 10	1384	314	99	2409
Fitch, Eugene, Astoria, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Adding-machine.....	709,477	Sept. 23	2862	1644	100	2614

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Fitts, Joseph D. (See Stanton, John W., assignor.)						
Fitts, Mary C. (See Zingg, Herman, assignor.)						
Fittz, William B., Oakdale, assignor to West Boylston Manufacturing Company, East-hampton, Mass. Woven fabric for broom-covers.	691,459	Jan. 21 2081	465	98	468	
Fitz, Amos G., Auburn, Me. Last.	705,574	July 19 4382	950	100	948	
Fitzgerald, Walter H., Brooklyn, assignor of one-half to R. R. Fogel, New York, N. Y. Watch.	712,185	Oct. 28 3457	758	101	762	
Fitz Gerald, Walter H., Brooklyn, assignor of one-half to R. R. Fogel, New York, N. Y. Watchcase.	712,285	Oct. 28 3628	792	101	798	
Fitz Gerald, Walter H., Brooklyn, assignor of one-half to R. R. Fogel, New York, N. Y. Watchcase.	712,286	Oct. 28 3630	793	101	798	
Fitz Gerald, Walter H., Brooklyn, assignor of one-half to R. R. Fogel, New York, N. Y. Watchcase.	712,287	Oct. 28 3632	793	101	798	
Fitz Gerald, Walter H., Brooklyn, assignor of one-half to R. R. Fogel, New York, N. Y. Reversible watchcase.	712,288	Oct. 28 3635	794	101	798	
Fitz Water, Marshall V., Mount Pleasant, Tex. Baling-press.	712,515	Nov. 4 92	33, 24	101	916	
Fitzgerald, Christopher, San Francisco, assignor of one-half to W. B. Gester, Newcastle, Cal. Quicksilver-separating and continuous ore-furnace.	696,323	Mar. 25 3782	843	98	2549	
Fitzgerald, Daniel F., P. M. Seifert and M. Kimmel; said Seifert assignor of one-half his right to W. L. Wallace, Walkerton, and I. J. Kreighbaum, Tyner, Ind. Non-refillable bottle.	700,754	May 27 3230	740	99	1891	
Fitzgerald, Jacob. (See Heyer, Charles, assignor.)						
Fitzgerald, John E., Boston, Mass. Envelop.	707,963	Aug. 26 3819	859	100	1948	
Fitzgerald, Richard. (See Hibbard, Maury W., assignor.)						
Fitzhugh, Cameron S., Waco, Tex. Fan.	696,426	Apr. 1 61	14	99	16	
Fitzhugh, James S., Waco, Tex. Churn.	692,182	Jan. 28 3412	773	98	758	
Fitzpatrick, James A., Bakersfield, Cal. Rod-coupling.	703,400	Sept. 16 2695	605	100	2568	
Fitzpatrick, John J., Washington, Pa. Toy.	706,918	Aug. 12 1770	395	100	1496	
Fitzpatrick, Kirby, Hartsville, Tenn. Steam-engine.	695,451	Mar. 18 2085	470	98	2186	
Fitzsimmons, Philip, Cincinnati, Ohio. Rocking-chair.	716,879	Dec. 30 4149	964	101	2840	
Fiveash, Zian E., Hattiesburg, Miss. Railway-rail joint.	713,083	Nov. 11 1169	268	101	1153	
Flacouch, Charles E., See Greenwood, William J., assignor.)						
Fladby, John B., Rutland, N. D. Horse-shoe's box.	712,289	Oct. 28 3637	794	101	799	
Flagg, Alice A., Jeffersonville, Vt. Hand chopping-knife.	697,615	Apr. 15 2204	513	99	519	
Flagg, Eli W., assignor to Nichols and Shepard Company, Battlecreek, Mich. Thresh-ing-machine. (Reissue)	11,965	Feb. 4 1056	237	98	1012	
Flagg, Fred F., Worcester, Mass. Ball-cock.	700,316	May 20 2369	541	99	1634	
Flagg Manufacturing Company. (See Eaton and Reel, assignors.)						
Flanders, Charles E., Post Mills, Vt. Currycomb or card-cleaner.	717,377	Dec. 30 5392	1172	101	3041	
Flanders, Herbert Manchester, N. H. Sash-holder.	714,569	Nov. 25 4072	901	101	1786	
Flanders, John S., Sturges, Mich. Type-writer attachment.	700,755	May 27 3231	740	99	1891	
Flanders, Louis H., Wilkesburg, Pa., assignor to Westinghouse Machine Company. Supporting and lifting mechanism for secondary-battery plates.	711,488	Oct. 21 2100	455	101	466	
Flanigan, Robert, Baltimore, Md. Bottle-capping machine.	694,144	Feb. 25 3669	811	98	1615	
Flannery, John L. (See Schmidt, Joseph, Jr., assignor.)						
Flannery, Joseph M., et al. (See McWatters, Thomas, assignor.)						
Flaskamp, August, Crefeld, Germany. Box.	692,259	Feb. 4 86	19, 20	98	816	
Flatau, Louis S., St. Louis, Mo. Crude-oil burner.	713,419	Nov. 11 1846	417	101	1293	
Flatley, Andrew F., Irvington, and J. M. Arthur, assignors of one-third to F. Hinni, East Orange, N. J. Combination extension-table.	715,045	Dec. 2 766	162	101	1991	
Flat, Charles S. (See Wallis, Henry E., assignor.)						
Flattery, Maurice D., et al. (See Jackson, Benjamin F., assignor.)						
Fleck, Rudolph, Milwaukee, Wis. Bedstead.	694,361	Mar. 4 34	8	98	1719	
Fleckenstein, Leonard S., Easton, Md. Can-filling machine.	698,919	Apr. 29 4824	1064	99	1091	
Fleckenstein, Leonard S., Easton, Md. Combined corn cooking and canning machine.	706,401	Aug. 5 804	175	100	1277	
Fleckenstein, Valentine, assignor to Northwestern Grass Twine Company, St. Paul, Minn. Machine for making mats for bottle-covers, &c.	705,332	July 22 3849	832	100	828	
Fleckenstein, Valentine, assignor to Northwestern Grass Twine Company, St. Paul, Minn. Machine for making mats for bottle-covers, &c.	705,333	July 22 3856	835	100	830	
Fleetwing Die Press. (See Sproule, Robert F., assignor.)						
Fleisch, Samuel, New York, N. Y. Neckwear.	696,363	Mar. 25 3873	861	98	2564	
Fleischer, Emil, Dresden-Strehlen, assignor to J. E. Goldschmid, Frankfort-on-the-Main, Germany. Mangle, for water-zac.	701,556	June 3 502	110	99	2212	
Fleischer, Rudolph, and M. Reithmaier, Minden, Germany. Pneumatic tire.	710,962	Oct. 14 1063	235	101	232	
Fleischer, William, New York, N. Y. Hook and eye.	708,034	Sept. 2 75	17	100	1997	
Fleishman, Frank L., Allegheny, Pa. Calculating-machine.	695,099	Mar. 11 1456	323	98	2036	
Fleming, Andrew, Brooklyn, N. Y. Adjustable support.	706,228	Aug. 5 439	92	100	1206	
Fleming, David E., Hillsdale, Mich. Adjustable window-screen.	702,094	June 10 1474	332	99	2429	
Fleming, James R., Scranton, Pa. Car-axle lubricator.	710,077	Oct. 7 534	111	101	106	
Fleming, John M., Summit, N. J. Toilet cream.	690,848	Jan. 7 914	602	98	1369	
Fleming, John C., New York, N. Y. Drying apparatus.	705,914	July 29 4999	1088	100	1071	
Fleming, John M., assignor of one-half to W. Bothwell, Ottawa, Canada. Centering at-tachment for lathes.	707,573	Aug. 26 3616	678	100	1787	
Fleming, Joseph W., assignor of one-half to H. Horter, Jr., Philadelphia, Pa. Safety device for elevators.	707,311	Aug. 19 2508	564	100	1665	
Fleming, Richard, Lynn, Mass., assignor to General Electric Company. Electric indi-cating instrument.	696,427	Apr. 1 63	14	99	17	
Fleming, Richard, Lynn, Mass., assignor to General Electric Company. System of elec-trical distribution.	706,544	Aug. 12 1069	235	100	1347	
Fleming, Richard, Swampscott, Mass., assignor to General Electric Company. Electric-arc lamp.	706,545	Aug. 12 1071	236	100	1347	
Fleming, Richard, Swampscott, Mass., assignor to General Electric Company. Electric-arc lamp.	708,132	Sept. 2 248	50	100	2033	
Fleming, Robert. (See Scharnweber, William, assignor.)						
Fleming, Robert J., Traverse City, Mich. Veterinary speculum.	714,369	Nov. 25 3719	819	101	1716	
Fleming, Thomas V. (See Craig and Fleming.)						
Fleming, William, Chicago, Ill. Baling-machine.	696,669	Apr. 1 512	1118	99	111	
Flemming, Carl E., Schöneheide, Germany. Machine for boring brush-blocks and setting in the brushes.	698,829	Apr. 29 4664	1027	99	1057	
Flemming, Carl E., Schöneheide, Germany. Combination brush and comb.	707,574	Aug. 26 3017	678	100	1788	
Flemmings, Robert F., Melrose, Mass. Musical instrument.	711,203	Oct. 14 1571	337	101	341	



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Flesche, Gustav A., Brooklyn, N. D. Hall, New York, N. Y., and J. Doherty, Ashbrook, N. J., assignors to American Soda Fountain Company, Boston, Mass. Carbonator.	705,661	July 29	4540	985	100	980
Fletcher, John, Parry Sound, Canada. Door for grain-cars.	694,575	Jan. 28	2646	593	98	693
Fletcher, Benjamin, Toronto, Canada. Continuous molding-machine.	690,716	Jan. 7	692	151	98	146
Fletcher, Charles, Manchester, England. Expansion steam-trap.	716,997	Dec. 30	4689	1016 1017	101	2880
Fletcher, Edward. (See Tipping and Fletcher.)						
Fletcher, Edward, assignor to Nailless Lid Box Company, San Francisco, Cal. Box-fastening.	708,702	Sept. 9	1269	291	100	2249
Fletcher, Eliza J., administratrix. (See Ricketts, John L., assignor.)						
Fletcher, Henry C., Chicago, Ill. Organ.	713,084	Nov. 11	1170	260	101	1153
Fletcher, Henry G. M. (See Perks and Fletcher.)						
Fletcher, James R., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Door-knob.	708,336	Sept. 2	624	140	100	2108
Fletcher, John R., Dayton, Ohio. Suspension-clamp.	706,227	Aug. 5	437	92	100	1245
Fletcher, Mordecai H., assignor to Vegetal Company, Cincinnati, Ohio. Dentifrice.	693,349	Feb. 11	2139		98	1296
Fletcher, Mordecai H., assignor to Vegetal Company, Cincinnati, Ohio. Package for tooth-powder or like preparations.	693,350	Feb. 11	2140	470	98	1266
Fletcher, Robert, Toronto, Canada. Interior charcoal attachment for cooking-stoves.	710,571	Oct. 7	335	72	101	67
Fletcher, Robert W. J. (See Gloag and Fletcher.)						
Fletcher, Sidney W., Viborg, S. D. Kite attachment.	692,998	Feb. 11	1442	313	98	1121
Fletcher, William H., Paterson, N. J. Dyeing-machine.	690,941	Jan. 14	1077	242	98	241
Fleuss, Henry A., Staines, England. Apparatus for supplying water to steam-boilers.	690,941	Jan. 14	1077	242	98	241
Flexible Iron and Snuff Company, Inc., Milwaukee, Wis. (See Blake, Joseph S., assignor.)						
Flick, Edward, Milwaukee, Wis. Curtain-fixture.	708,955	July 1	1072	231	100	213
Flick, Melchior, Cleveland, Ohio. Wheeled toy.	692,969	Feb. 11	1444	313	98	1122
Fliegel, Josef, Malmitz, Germany. Apparatus for heating liquids.	705,745	July 29	4702	1018	100	1010
Flindall, John, Chicago, Ill. Toy.	697,958	Apr. 15	2922	645	99	651
Flindall, John, Chicago, Ill. Educational appliance.	713,085	Nov. 11	1171	269	101	1153
Flinker, Leon. (See Duket and Flinker.)						
Flinn, Patrick J., Boston, assignor of one-half to H. E. Royce, Brookline, Mass. Packing.	711,761	Oct. 21	2635	579	101	580
Flinn, R. J. (See Aborn, George P., assignor.)						
Flinn, Richard J., Boston, Mass. Steam-trap.	693,961	Feb. 25	3321	730	98	1544
Flinn, Richard J., and G. P. Aborn, Boston, Mass. Feed-water regulator.	712,186	Oct. 28	3489	758 759	101	702
Flint, Almon H., Moira, N. Y. Sleigh.	698,000	Apr. 22	3015	662	99	690
Flint, Charles K., trustee. (See Lawson, Henry J., assignor.)						
Flint, Herbert L. (See Hawkins and Flint.)						
Flint, Herbert L., Cambridge, assignor to W. G. Webber, Bedford, Mass. Car-seat.	711,842	Oct. 21	2777	615	101	608
Flint, James J., assignor to Flint-Lomax Electric and Manufacturing Company, Denver, Colo. Electric switch.	702,364	June 10	1938	441	99	2322
Flint-Lomax Electric and Manufacturing Company. (See Flint, James J., assignor.)						
Flint, William G., San Jose, Cal. Snow-case.	714,686	Dec. 2	66	13, 14	101	1851
Flint, William G., San Jose, Cal., assignor to G. W. Baker, Dallas, Tex. Doll novelty.	712,786	Nov. 4	603	138	101	1022
Flood, Alfred L., assignor of one-half to W. L. Weber, Chicago, Ill. Tile.	708,470	Sept. 2	846	193	100	2153
Flood, Alfred L., assignor of one-half to W. L. Weber, Chicago, Ill. Tile.	708,471	Sept. 2	847	193	100	2153
Flood, Alfred L., assignor of one-half to W. L. Weber, Chicago, Ill. Tile.	708,472	Sept. 2	848	193	100	2153
Flood, Alfred L., assignor of one-half to W. L. Weber, Chicago, Ill. Interlocking carpet or floor covering.	713,420	Nov. 11	1847	417	101	1293
Flora, Ellsworth E., Chicago, Ill., assignor to Farrand Organ Company, Detroit, Mich. Self-playing instrument.	700,413	May 20	2551	584	99	1731
Flora, Ellsworth E., assignor to T. J. Lovett, Chicago, Ill. Incandescent oil-lamp.	711,133	Oct. 14	1444	313	101	315
Florack, Gottfried, Dusseldorf, Germany. Feed-water heater.	707,575	Aug. 26	3018	679	100	1788
Florang, Emil A., Burlington, Iowa. Basket.	712,921	Nov. 4	860	200	101	1073
Florence Manufacturing Company. (See Schwartz, Herman M., assignor.)						
Florez, Clarence M., assignor of one-fourth to J. H. Brooks, Scranton, Pa. Axle-box for carriages or wagons.	706,402	Aug. 5	807	176	100	1277
Florsheim, Norman, et al. (See Schopbach, Charles H., assignor.)						
Florsheim, Simon F., et al. (See Schopbach, Charles H., assignor.)						
Flory, Llewellyn H., Ashley, Pa. Skirt-supporter.	706,172	Aug. 5	333	71	100	1185
Floss, William, Meadow Lands, Pa. Rail-joint.	705,575	July 29	4384	950	100	948
Flowers, Alonzo H., Westville, Fla. Lifting device.	701,189	May 27	4027	925	99	2458
Flowers, Clarence K., Alexandria, Va. Shoe.	716,528	Dec. 23	3667	801	101	2646
Flowers, Elmer, Harrisburg, Pa. String-fastening device.	704,016	July 8	1191	259	100	252
Floyd, Frank G., Quincy, Mass. Machine or apparatus for raising or lowering the temperature of liquids.	708,703	Sept. 9	1271	291	100	2250
Floyd, George G., assignor to American Steel-Body Double-Boiler Co., St. Louis, Mo. Car body-boiler.	706,647	Aug. 12	1251	276	100	1387
Floyd, George R., Cincinnati, Ohio. Automatic line-catch for trolley-wires.	707,222	Aug. 19	2341	523	100	1632
Fluger, Berthold, Eckersdorf, assignor of one-half to Engel & Gross, Breslau, Germany. Joining-hinge for steam-trumps.	697,827	Apr. 15	2682	595	99	601
Flusin, Georges, Grenoble, France. Manufacturing smokers' articles.	714,887	Dec. 2	501		101	1936
Fly, O. M. (See Tillman, John W., assignor.)						
Flynn, John, Bridgeport, Conn. Switch-iron.	716,880	Dec. 30	4451	965	101	2840
Flynn, Joseph, Boston, Mass. Plumber's testing-plug.	705,059	July 22	3240	701	100	706
Foccart, Ignace J., Paris, France. Speed-changing apparatus.	716,881	Dec. 30	4452	965	101	2840
Foehl, Charles. (See Kolb and Foehl.)						
Foerster, Leone S., assignor to H. W. Gossard Company, Chicago, Ill. Corset.	700,317	May 20	2371	541	99	1694
Foerster, Oscar, assignor to Universal Chromophoto Engraving Company, New York, N. Y. Manufacture of printing-surfaces.	711,101	Oct. 14	1348		101	263
Fogel, Edward A., Burlington, Iowa. Combined lock and latch.	699,301	May 6	323	74	99	1240
Fogel, Ruben R. (See Fitz Gerald, Walter H., assignor.)						
Fogler, John W. (See Kenney and Fogler.)						
Foglesong, Washington, assignor of one-half to J. Collins, Dayton, Ohio. Excavating and loading apparatus.	704,740	July 15	2554	550 551	100	548
Folding Wheel Carriage Company. (See Fanning, Charles E., assignor.)						
Foley, Bartholomew J., Pittsburg, Pa. Electric switch.	710,185	Sept. 30	4260	960	100	2919
Foley, Daniel J., Cambridge, Mass. Shoe-cleaner.	703,052	June 24	3266	751	99	2834
Foley, James E., et al. (See Austin, David E., assignor.)						
Foley, John E., Pontiac, Mich. Vehicle-hub.	702,548	June 17	2291	521	99	2617
Folger, Henry C., H. M. Moriarty, and E. B. Johnson, West Somerville, Mass.; said Jacobson assignor to said Folger and Moriarty. Sparking plug.	696,670	Apr. 1	519	120	99	112
Folger, William B., Cincinnati, Ohio. Combined gas and water cock for water-heaters.	690,413	Jan. 7	44	11	98	12
Folk, Joseph J. (See Folk, Theodore F. and J. J.)						
Folk, Theodore F. and J. J., Burton, Okla. Ter. Draft-equalizer.	698,920	Apr. 29	4827	1065	99	1092

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Folkers, George A. W. (See Folkers, John H. L. and G. A. W.)						
Folkers, John H. L. and G. A. W., Oakland, Cal. Device for filing saws.....	701,700	June 3	761	169	99	2267
Follett, Edward P., Chicago, Ill. Garment-filter .....	692,510	Feb. 4	506	118 119	98	902
Follett, Joseph L., assignor to Follett Machine Company, New York, N. Y. Universal joint for shafting.....	706,403	Aug. 5	808	176	100	1277
Follett Machine Company. (See Follett, Joseph L., assignor.)						
Follows, George H., assignor to Miller, Du Brul & Peters Manufacturing Company, Cincinnati, Ohio. Cigar-wrapper-cutting machine.....	693,253	Feb. 11	1963	426 427	98	1228
Folmer, William F., New York, N. Y. Photographic shutter .....	706,507	Aug. 5	1000	220	100	1319
Folmer, William F., New York, N. Y. Photographic camera .....	716,021	Dec. 16	2648	583 584	101	2421
Folsom, Estes A., Springfield, Mass. Billiard-cue tip .....	693,254	Feb. 11	1965	427	98	1228
Folsom, Fred G. (See Caley, William H., assignor.)						
Folsom, John E., Mitchell, Ill. Automatic circuit-closer for telegraph-keys.....	707,312	Aug. 19	2510	564	100	1666
Folz, William, Cincinnati, Ohio. Bookbinding .....	698,921	Apr. 29	4828	1065	90	1092
Fonda, Isaac I., Hopedale, Mass. Elevator-guard .....	702,095	June 10	1476	392 702	99	2420
Fontaine, Eugene, Detroit, Mich. Needle-making machine .....	712,054	Oct. 28	3207	703 704 705 706 707	101	713
Foos Gas Engine Company. (See Sonander, Andrew, assignor.)						
Foos Manufacturing Company. (See Copenhaver, William E., assignor.)						
Foos, Robert H., and W. E. Copenhaver, assignors to Foos Manufacturing Company, Springfield, Ohio. Sharpening device for grinding-plates.....	694,056	Feb. 25	3530	777 778	98	1586
Foot, Albert C., Southend, England. Lock nut.....	716,998	Dec. 30	4691	1017	101	2889
Foot, William J., London, England. Method of and means for the fixation of track-rails of tramway or railway lines .....	714,161	Nov. 25	3341	735 736	101	1640
Foot, Arthur D., Grass Valley, Cal. Building dams .....	704,187	July 8	1539	331	100	323
Foot, Arthur D., Grass Valley, Cal. Rock-drill .....	711,102	Oct. 14	1350	293	101	294
Foot, Charles B., Jr., Cincinnati, Ohio. Sash-tightening device .....	697,939	Apr. 15	2889	637	99	614
Foot, Charles B., Jr., Cincinnati, Ohio, assignor of one-half to W. Macleod, Newport, Ky. Locking device .....	697,938	Apr. 15	2887	636	99	614
Foot, Ernest N. (See Stump, Ira E., assignor.)						
Foot, Richard R., et al. (See Torricellas, Charles, assignor.)						
Foot, Theodore M., Brooklyn, assignor to E. H. Brown, New York, N. Y. Means for positioning and firing heavy ordnance .....	691,251	Jan. 14	1648	376 380 381 382 383	98	359
Foot, Theodore M., Brooklyn, N. Y., assignor to Western Telegraph Typewriting Machine Company. Printing-telegraph .....	705,227	July 22	3606	782 783 784	100	780
Foot, Walter E., Chicago, assignor of one-half to H. G. Sedgewick, Parkridge, Ill. Suspender-buckle .....	713,625	Nov. 18	2268	505	101	1394
Forbes, Duncan, Newark, N. J. Sash-lock .....	710,180	Sept. 30	4261	960 961	100	2919
Forbes, George, Westminster, England. Range-finder .....	701,190	May 27	4028	925	99	2058
Forbes, Harry A., Finchley, London, England. Railway chair and rail .....	695,297	Mar. 11	1840	410	98	2115
Forbes, Peter, Oakley, Mich. Scythe-snath-fastening device .....	706,814	Aug. 12	1580	354	100	1456
Force, John W., New Britain, Conn. Eyelet .....	701,476	June 3	353	78	99	2182
Force, Société Anonyme. (See Meulemeester, Emile de, assignor.)						
Force, William A., New York, N. Y. Printing-die .....	705,228	July 22	3619	734	100	783
Ford, Bruce, assignor to Electric Storage Battery Company, Philadelphia, Pa. Storage battery .....	712,999	Nov. 4	1000	235	101	1100
Ford, Charles B. (See Hare, Joseph C., assignor.)						
Ford, Clayton W., Findlay, Ohio. Animal-poke .....	692,188	Jan. 29	3421	774	98	759
Ford, Clement, Axminster, England. Bell for cycles, &c .....	703,053	June 24	3267	751	99	2894
Ford, Edward L. (See Steese and Ford.)						
Ford, Fred H., assignor of one-half to J. H. Hill, Jacksonville, Fla. Lifting-jack .....	698,922	Apr. 29	4829	1065 1066	99	1092
Ford, James T., San Francisco, Cal. Pipe-wrench .....	705,060	July 22	3241	701	100	706
Ford, James T., Cartagena, Colombia. Building subaqueous foundations .....	707,093	Aug. 19	2088	466	100	1577
Ford, John F. (See McVeety and Ford.)						
Ford, Lester S., Reidsville, N. C. Trunk or bale rope attachment .....	690,645	Jan. 7	537	116	98	115
Ford, Thomas P., Hackensack, N. J. Controlling device .....	701,701	June 3	762	169	99	2268
Ford, Thomas P., Hackensack, N. J. Controlling device .....	711,843	Oct. 21	2778	615	101	608
Ford, William A., Louisville, Ky. Hose-coupling .....	710,768	Oct. 7	710	149	101	145
Ford, William H., Lowell, assignor to Ringset Company, Boston, Mass. Mold-cutter .....	713,000	Nov. 4	1001	235	101	1100
Ford, William H., Lowell, and C. W. Stohle, Everett, assignors to G. W. Gregory, Boston, Mass. Means for forming claws in articles of jewelry .....	711,560	Oct. 21	2240	487	101	496
Forde, Thomas J., Geneva, Ohio. Vapor-generating apparatus for hydrocarbon-burners .....	707,689	Aug. 26	3247	728	100	1835
Forde, Thomas J., Geneva, Ohio. Carbureter .....	709,703	Sept. 23	3285	736	100	2703
Fordred, John, deceased, N. M. Goodlett, Jr., South Orange, N. J., ancillary executor, assignor to Condensed Egg Syndicate, Limited, London, England. Preserving egg contents .....	692,268	Feb. 4	99	1027 1028	98	819
Fordyce, Edmond A., Chicago, Ill. Pneumatic-despatch tube .....	698,830	Apr. 29	4665	664 665 666	99	1058
Fordyce, Edmond A., Chicago, Ill. Pneumatic-despatch-tube system .....	716,212	Dec. 16	3048	664 665 666	101	2505
Fordyce, Edmond A., Chicago, Ill. Carrier for pneumatic-despatch tubes.....	716,213	Dec. 16	3050	665 666 667	101	2505
Fordyce, Edmond A., Chicago, Ill., assignor to A. S. Temple, trustee, Boston, Mass. Pneumatic-despatch-tube system .....	691,936	Jan. 28	2965	668	98	668
Fore River Ship and Engine Company. (See Wellington, Frank O., assignor.)						
Foreman, David H., et al. (See Garson, Julius H., assignor.)						
Foreman, David H., Denver, Colo. Locomotive-headlight cleaner .....	693,319	Feb. 11	2074	453 454 455	98	1251
Foreman, David H., assignor of one-fourth to A. T. Hurr, Denver, Colo. Upright automatic switch-stand .....	707,066	Aug. 12	2035	454 455	100	1550
Foreman, John W., Healdsburg, Cal. Conveying apparatus .....	707,688	Aug. 26	3245	727	100	1835
Foreman, Lewis T., Omaha, Nebr. Hose-bracket .....	713,974	Nov. 18	2935	651	101	1534



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Foreman, Samuel E., Paducah, Ky. Trace-fastener .....	764,741	July 15	2357	551	100	549
Forest Lumber Co. (See Clark, George W., assignor.) .....						
Forester, Berton, assignor of one-half to H. D. O'Brien, St. Louis, Mo. Camera-tripod .....	696,167	Mar. 25	8460	775	98	2482
Fortfar, James E., Toronto, Canada. Music-teaching apparatus .....	649,510	May 6	719	167	99	1824
Forst, Joseph. (See Forst, Philipp, assignor.) .....						
Forst, Philipp, assignor of one-half to J. Forst, Brooklyn, N. Y. Beer-tapping device .....	698,923	Apr. 29	4832	1066	99	1093
Forst, Philipp, assignor of one-half to J. Forst, Brooklyn, N. Y. Bung and tapping device for beer-barrels .....	713,975	Nov. 18	2986	651	101	1535
Forstman, Thomas. (See Bennett, George M., assignor.) .....						
Forster, John H., Evelyn, Tex. Assignor of one-half to J. N. McAda. Cotton-chopper .....	705,746	July 29	4705	1018	100	1041
Forster, William H., Meadville, Pa. Oval-cutting machine .....	705,576	July 29	4885	951	100	948
Forman, Walter A., Brooklyn, N. Y. Safety attachment for elevators .....	690,511	May 6	720	168	99	1325
Formander, Alfred, New York, N. Y., assignor to Carpet Yarn Printing Company. Apparatus for coloring yarns .....	705,334	July 22	3860	837	100	832
Forney, Elwood W., assignor of one-half to L. K. Moeller and W. L. Crockett, Galeana, Kans. Copy-holding device for type-writers .....	693,124	Feb. 11	1689	368	98	1172
Forney, Matthias N., New York, N. Y. Means for counterbalancing the momentum of reciprocating elements .....	701,477	June 3	354	78	99	2182
Forney, Matthias N., New York, N. Y., assignor to S. G. Scarritt, St. Louis, Mo. Car-seat .....	716,882	Dec. 30	4458	965	101	2841
Forquington, Emil, New York, N. Y. Nail cutter and file .....	691,126	Jan. 14	1416	321	98	310
Forrer, Joseph D. (See Merrick and Forrer.) .....						
Forrest, C. W., et al. (See Moon, Herman, assignor.) .....						
Forrest, Horatio F., et al. (See McKone, William, assignor.) .....						
Forrest, John H. (See Heal, William E., assignor.) .....						
Forrest, Rolland, Philadelphia, Pa. Horse-checking apparatus .....	712,290	Oct. 28	3688	795	101	799
Forrester, Peter C., Streator, Ill. Gate .....	695,714	Mar. 18	2568	841	98	2283
Forry, Franklin S., Myerstown, Pa. Stop-motion for knitting-machines .....	714,468	Nov. 25	3892	859	101	1749
Forse, William H., Jr. (See Kelly, Clarence E., assignor.) .....						
Forshelm, Joseph, New York, assignor to Eastman Kodak Company, Rochester, N. Y. Panoramic camera .....	699,161	May 6	61	16,17	99	1188
Forstlund, Hugo W., assignor to Moore & Lorenz, Chicago, Ill. Metal-forming machine. Boston, Mass. Pneumatic-despatch system .....	701,869	June 10	1042	234	99	2341
Forstlund, Hugo W., assignor to Moore & Lorenz, Chicago, Ill. Metal-forming machine. .....	715,046	Dec. 2	768	163	101	1991
Forster, Carl, Gablonz, Austria-Hungary. Feeder for sewing-machines .....	708,631	Sept. 9	1128	254	100	2221
Forster, Ferdinand E., New York, N. Y. Chum-feeding machine .....	695,921	Mar. 25	2957	670	98	2378
Forster, Frank L., assignor of one-half to J. A. Conrey, Shelbyville, Ind. Lock or clutch for sectional cases .....	692,052	Jan. 28	3188	720	98	711
Forster, Frank L., assignor of one-half to J. A. and M. Conrey and A. H. Hildreth, Shelbyville, Ind. Joint for knockdown or separable furniture .....	692,053	Jan. 28	3189	720	98	711
Forster, Frank L., assignor of one-half to J. A. and M. Conrey and A. H. Hildreth, Shelbyville, Ind. Door slide or guide for furniture .....	702,348	June 10	1910	436	99	2516
Forster, Friedrich W., Burlington, Iowa. Wheelwright-machine .....	697,364	Apr. 15	2029	448	99	466
Forster, James W., Chicago, Ill. Grinding-wheel .....	711,762	Oct. 21	2936	580	101	580
Forster, John B., Belfast, Ireland. Cycle-driving-gear .....	713,867	Nov. 18	2705	604	101	1486
Forster, John C., Pittsburg, Pa. Gas-stove .....	706,309	Aug. 5	613	134	100	1240
Forster, John J., and R. L. Murdock, Avalon, Pa. Soap-press .....	706,910	Aug. 12	1771	396	100	1496
Forster, John T., Dandenong, Victoria, Australia. Lap-rope .....	702,257	June 10	1809	413	99	2498
Forsyth, John D., Stouffville, Canada. Acetylene-gas generator .....	716,883	Dec. 30	4457	966	101	2841
Forsyth, Joseph E., Chicago, Ill. Train-pipe coupling .....	692,511	Feb. 4	508	119	98	902
Forsyth, Joseph E., assignor of one-fourth to T. L. Parker, Chicago, Ill. Train-pipe coupling .....	692,511	Feb. 4	761	175	98	955
Forsyth, Joseph E., assignor of one-fourth to T. L. Parker, Chicago, Ill. Train-pipe coupling .....	693,125	Feb. 11	1689	368	98	1172
Forsyth, Wilber D., and E. T. Bell, assignors to Union Boiler Tube Cleaner Company, Pittsburg, Pa. Boiler-tube cleaner .....	698,193	Apr. 22	3320	748	99	769
Forsyth, William, Belvidere, Ill. Needle-bar-guiding mechanism for sewing-machines .....	698,184	Apr. 29	3911	864	99	801
Foutisque, Granville R., U. S. Army. Gauntlet .....	711,844	Oct. 21	2936	580	101	580
Fourth, John F., New York, N. Y. Tobacco-pipe cleaner .....	690,717	Jan. 7	634	152	98	147
Forti, Victor, Paris, France. Gas lighting or extinguishing device .....	702,192	June 10	1644	368	99	2464
Fortier, George. (See Fortier, Napoleon and G.) .....						
Fortier, Napoleon and G., Warren, R. I. Stop-motion for looms .....	694,362	Mar. 4	35	8	98	1719
Fortin, Edouard. (See Masson and Fortin.) .....						
Fortney, Samuel N., Jefferson Township, Montgomery county, Ohio. Shears .....	709,478	Sept. 23	2888	644	100	2622
Fortunescu, Nicolas J., and A. Georges, assignors of one-third to J. Georges, Liege, Belgium. Rotary engine or motor .....	708,879	Sept. 9	1637	377	100	2329
Fortuny, Mariano, Venice, Italy. Stage illumination with indirect light .....	698,924	Apr. 29	4883	1066	99	1093
Forwood, Lorin C., Lincoln, Ill. Apparatus for grinding and polishing metals .....	716,403	Dec. 23	3417	745	101	2594
Foskett, Frederick, San Antonio, Tex. Safety device for steam-boilers .....	704,529	July 15	2190	475	100	475
Foss, Benjamin F., Albion, Me. Lengthening attachment for bits .....	698,914	Apr. 22	3916	662	99	690
Foss, Leland L., Massena, Ga. Pinch .....	695,680	Mar. 16	2519	576	98	2272
Foss, William W., assignor of one-half to S. W. Barkley, Goodhart, Mich. Snow-plow .....	710,873	Oct. 7	874	190	101	177
Fossel, Joseph, Boston, Mass. Mechanism for grinding flats in carding-engines .....	709,645	July 1	491	111	100	97
Foster, Abraham G. W., Sr., Powellville, Ga. Combined seed-planter and fertilizer-distributer .....	706,404	Aug. 5	809	176	100	1277
Foster, Albion W., assignor of one-half to J. Wyman, Millbridge, Me. Pasting-machine .....	691,700	Jan. 21	2515	563	98	559
Foster, Arthur L., and Charles Pratt, John C., assignor.) .....						
Foster Bros. Manufacturing Company. (See Antisdel, Egbert M., assignor.) .....						
Foster, Burton G., Verona, N. Y. Thill-coupling .....	690,512	May 6	723	168	99	1325
Foster, C. H., et al. (See Tevander, Olof N., assignor.) .....						
Foster, Charles, West Warren, Mass. Loom-fixer's knife .....	707,690	Aug. 26	3257	728	100	1888
Foster, Charles H., Omaha, Nebr. Hinge .....	696,627	Mar. 25	3163	713	98	2420
Foster, Charles H., Omaha, Nebr. Hinge .....	696,628	Mar. 25	3164	713	98	2421
Foster, Charles H., Omaha, Nebr. Hinge for doors .....	696,629	Mar. 25	3166	714	98	2421
Foster, Charles H., Omaha, Nebr. Hinge .....	708,214	Sept. 2	407	94	100	2065
Foster, Charles H., Omaha, Nebr. Hot-air furnace .....	708,215	Sept. 2	409	94	100	2065
Foster, Charles H., New York, N. Y., assignor to Union Special Sewing Machine Company, Chicago, Ill. Feeding mechanism for sewing-machines .....	705,577	July 29	4886	951	100	948
Foster, Charles R., Blue Island, and W. Conlidge, Chicago, Ill. Ore-sampler .....	694,734	Mar. 4	767	171	98	1873
Foster, Charles W., New York, N. Y. Apparatus for delivering melted glass .....	691,371	Jan. 21	1924	432	98	434
Foster, Edward N., Cleveland, N. Y. Car-coupling .....	706,405	Aug. 5	811	177	100	1278
Foster, Eugene S. (See Foster, Malcolm C. and E. S.) .....						
Foster, Frances A., Sioux City, Iowa. Kindergarten-loom .....	700,636	May 20	2956	679	99	1817

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Foster, Frank W., Melrose, Mass. Round shaking-grate	699,378	May 6	469	110	99	1371
Foster, Frank W., Melrose, Mass. Square shaking-grate	706,546	Aug. 12	1072	236	100	1347
Foster, George V. (See Mackusick, Elmer F., assignor.)				237		
Foster, Henry C., Turwiler, Miss. Cotton chopper and cultivator	716,696	Dec. 23	3995	873	101	2717
Foster, Henry S. (See Tichon and Foster.)				874		
Foster, James F., and A. Ferber, assignors to S. Shepard and Company, Buffalo, N. Y. Culinary sifter or strainer	701,702	June 3	765	170	99	2269
Foster, John H., et al. (See Gregory, George, assignor.)						
Foster, John W. L. (See McCollum, James H. K., assignor.)						
Foster, Joseph Brooklyn, N. Y. Water-heater	705,335	July 22	3872	837	100	832
Foster Machine Company. (See McKean, John O., assignor.)						
Foster, Malcolm C. and E. S. Hawarden, Iowa. Post-driving apparatus	702,985	June 24	3042	700	99	2789
Foster, Manning R., Jr. Orange, N. J. Hatter's hair-strainer	709,670	Sept. 23	3228	726	100	2691
Foster, Merriam & Company. (See Clark, Ambrose B., assignor.)						
Foster, Oscar S., Utica, N. Y. Corner-fastener for bedsteads	698,002	Apr. 22	8019	693	99	690
Foster, Rolon E. (See Pratt and Foster.)						
Foster, Rolon E., Revere, assignor to H. Van Everen, trustee, Cambridge, Mass. Rubber tread	695,298	Mar. 11	1840	410	98	2115
Foster, Sidney A., Detroit, Mich. Wire button	709,537	Sept. 23	3005	669	100	2646
Fultz, William, Lawton, Okla. Ter. Grain-carrier for harvesters	711,935	Oct. 28	3038	667	101	681
Foster, William B., Utica, N. Y. Tywer for furnaces	698,485	Apr. 29	3012	864	99	892
Foster, William J., Darlston, England. Circulating water through twyers and coolers of blast-furnaces	696,324	Mar. 25	3784	843	98	2549
Foster, William L. (See Matula, Valentine, assignor.)						
Fouché, Edmond, assignor to Compagnie Française de l'Acétylène Dissous, Paris, France. Blowpipe	712,421	Nov. 11	1840	418	101	1294
Fultz, John, Centerville, Ind. Tattooing instrument	690,915	May 13	1538	354	99	1507
Fountain City Drill Company. (See Edwards, Eugene O., assignor.)						
Fountain, Evelyn A., and S. Myers, Oxnard, Cal. Sink and connection therefor	711,845	Oct. 21	2781	616	101	609
Fouque, Henry P., Brooklyn, N. Y. Shoe	696,030	Mar. 25	3167	714	98	2421
Fourcault, Emile, Dampremy, near Charleroi, Belgium. Apparatus for the manufacture of plate-glass by stretching	717,378	Dec. 30	5393	1172	101	3041
Fournieux, Emile A., New York, assignor to H. A. Metz, Brooklyn, N. Y. Making lakes from sulfur dyes	714,687	Dec. 2	66		101	1851
Fournier, Eugène, Paris, France. Disinfecting apparatus	698,109	Apr. 22	3235	706	99	735
Fournier, Eugène, Paris, France. Disinfecting apparatus	716,022	Dec. 16	2653	584	101	2422
Fournier, Eugène, Paris, France. Disinfecting apparatus	716,022	Dec. 16	2653	585		
Fouts, Albert, Alexandria, assignor of one-half to H. A. Moore, Indianapolis, Ind. Dumping-vehicle	700,318	May 20	2372	541	99	1694
Fouts, George H., Detroit, Ohio. Hot-air furnace	704,309	July 8	1754	383	100	369
Fowden, Robert A., Philadelphia, Pa., assignor to Overland Telegraph Company, Philadelphia, Pa., and Charlestown, W. Va. Paper-carriage for type-printing machines and mechanism for controlling same	711,154	Oct. 14	1447	313	101	316
Fowle, George W., assignor to Columbus Pharmacal Company, Columbus, Ohio. Lens-cutting machine	696,168	Mar. 25	3461	775	98	2483
Fowler, Alfred B., Central Falls, R. I. Motor-vehicle	690,849	Jan. 7	915	204	98	193
Fowler, Alfred B., Central Falls, R. I., assignor to United Shoe Machinery Company, Paterson, N. J. Buffing-roll	700,189	May 20	2097	479	99	1640
Fowler, Alfred B., Central Falls, R. I., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for making insoles	701,191	May 27	4029	925	99	2059
Fowler, Alfred B., Central Falls, R. I., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Channeling-machine	707,576	Aug. 26	3019	679	100	1788
Fowler, Alfred B., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lock-stitch shoe-sewing machine	707,094	Aug. 19	2089	467	100	1577
Fowler, Arthur E. (See Tucker, Iret F., assignor.)						
Fowler, Benjamin F., Minneapolis, Minn. Coin-counting apparatus	695,922	Mar. 25	2959	670	98	2978
Fowler, Benjamin F., assignor to Perfection Lamp Burner Company, Minneapolis, Minn. Lamp-burner	715,364	Dec. 9	1362	294	101	2134
Fowler, Charles S., et al. (See Holmes, Daniel M., assignor.)						
Fowler, Charles V., Los Angeles, Cal. Apparatus for moving heavy bodies	700,319	May 20	2373	541	99	1695
Fowler, Edward C., Forestville, assignor of one-half to W. E. Simonds, Canton, Conn. Nail-puller	700,756	May 27	3232	740	99	1891
Fowler, Edward C., Forestville, assignor of one-half to W. E. Simonds, Canton, Conn. Nail-puller	700,757	May 27	3233	740	99	1892
Fowler, Frank L., assignor of two-thirds to T. A. Royal, Jr., and I. Kenton, Philadelphia, Pa. Trolley-pole	697,838	Apr. 15	2683	596	99	601
Fowler, George H., and W. D. Howe, Cortland, N. Y. Grinding-wheel	699,302	May 6	326	74, 75	99	1501
Fowler, George L., Lehigh, Pa. Respirator	704,017	July 8	1192	259	100	253
Fowler, Harry, Crandall, Ind. Axle-skein	698,925	Apr. 29	4834	1067	99	1093
Fowler, Hervey W., Chicago, Ill. Machine for rolling car-wheels	715,777	Dec. 16	2149	481	101	2313
Fowler, John W., Auckland, New Zealand. Detonator	714,469	Nov. 25	3893	860	101	1749
Fowler, Jonathan O., Jr., assignor to J. W. Gibbs, New York, N. Y. Electromedical appliance	708,210	Sept. 2	410	95	100	2065
Fowler, Joseph C., and Joseph C. Jr., Baltimore, Md., assignors to Typographic Development Company, Chicago, Ill. Type casting and setting machine	705,525	July 22	4249	921	100	908
Fowler, Richard E., New York, N. Y. Metal-wire-winding device	703,126	June 24	3412	782	99	2563
Fowler, Robert H., and T. Benstead, Leeds, England. Apparatus for steam cultivation	714,570	Nov. 25	4073	901	101	1786
Fowler, Rufus B., Worcester, Mass., assignor to W. A. and L. H. Dodge, Keene, N. H. Window-screen	698,926	Apr. 29	4835	1067	99	1093
Fox, Adam H., Wissahickon, Pa. Oil-burner	703,506	July 1	340	77	100	68
Fox, Amos T., Tacoma, Wash. Pencil-sharpener	691,127	Jan. 14	1417	322	98	310
Fox, Ansley H., assignor to Philadelphia Arms Company, Philadelphia, Pa. Breaching-loading firearm	714,688	Dec. 2	68	14	101	1851
Fox, Charles D., Appleton, Wis. Car-mover	704,870	July 15	2799	606	100	590
Fox, Charles H., Cincinnati, Ohio. Steam-generator	692,436	Feb. 4	375	92	98	877
Fox, Charles H., Cincinnati, Ohio. Steam-generator for locomotive service	700,320	May 20	2376	542	99	1695
Fox, Charles H., assignor to Stanley Rule & Level Company, New Britain, Conn. Plane	710,678	Oct. 7	536	112	101	109
Fox, Charles H., East Orange, and W. H. Randolph, Jr., Rahway, N. J. Toy	707,577	Aug. 26	3023	680	100	1788
Fox, David H., Severy, Kans. Quilting-frame	695,432	Mar. 18	2087	471	98	2186
Fox, Ernest C., Cleveland, Ohio. Register	702,936	June 24	3043	700	99	2789
Fox, Frank A., and D. F. Graham, Stamford, Conn., assignors to W. D. Blake, Richmond Hill, New York, N. Y. Steering-gear for motor-carriages	698,962	Feb. 25	3824	730	98	1545



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					Vol.	Page.
Fox, Garrett, <i>et al.</i> (See Bernardin, Frank, assignor.)						
Fox, George H., Bangor, Me. Means for closing jars	704,873	July 15	2805	607	100	600
Fox, Herbert. (See Wooley and Fox.)						
Fox, Hugh L. (See Ellis, Seele H., assignor.)						
Fox, Ivan, Lansdowne, Pa. Nosepiece for spectacles or eyeglasses	695,681	Mar. 18	2520	571	98	2273
Fox, John C., assignor of two-thirds to E. J. Ulbrich and C. F. Paige, Colorado Springs, Colo. Refrigerating apparatus	703,646	July 1	494	111	100	97
Fox, John H., Fostoria, Ohio. Magazine torpedo-cane	696,936	Apr. 8	1114	247	99	257
Fox, John H., New York, N. Y. Bottle-capping machine	702,716	June 17	2615	602	99	2684
Fox, John H., New York, N. Y. Siphon-injector for siphon-filling machines	702,717	June 17	2617	602	99	2685
Fox, John H., New York, N. Y. Carbonator for beverages	702,718	June 17	2619	603	99	2685
Fox, John H., Fostoria, Ohio. Magazine torpedo-cane	704,310	July 8	1755	383	100	369
Fox, John H., and C. M. Lowther, New York, N. Y. Automatic shut-off for electric pumps	693,542	Feb. 18	2512	553	98	1302
Fox, John W. (See Dunham and Fox.)						
Fox, John W. (See Fox, Lloyd L. and J. W.)						
Fox, Joseph M., Peekskill, assignor to William M. Cram Company, New York, N. Y. Water-heater	714,641	Nov. 25	4213	932	101	1813
Fox, Lloyd L. and J. W., Lowell, Me. Device for clearing horses from vehicles	694,363	Mar. 4	36	8	98	1719
Fox, Lloyd L. and J. W., Lowell, Me. Device for clearing horses from vehicles	717,379	Dec. 30	5395	1173	101	3041
Fox Machine Company. (See Barrett, Glenn J., assignor.)						
Fox Machine Company. (See Fox, William R., assignor.)						
Fox Machine Company. (See Fox and Lund, assignors.)						
Fox, Richard H., Manchester, Okla. Ter. Veterinary remedy	691,255	Jan. 14	1654		98	360
Fox, Richard W., Altoona, Pa. Draw-bar rizzing	714,689	Dec. 2	69	15	101	1852
Fox, Thomas J., assignor to Bigelow, Kennard & Co., Boston, Mass. Chiming mechanism for clocks	699,303	May 6	327	75, 76	99	1241
Fox, William C., and C. J. Shaw, Waterloo, Iowa. Alinement-gage for lathes	711,763	Oct. 21	2637	580	101	580
Fox, William C., assignor to H. L. Piper, Toronto, Canada. Hospital-bed	704,035	July 15	2349	510	100	506
Fox, William R., assignor to Fox Machine Company, Grand Rapids, Mich. Copy-holder	704,018	Aug. 8	1193	250	100	253
Fox, William R., and G. J. Barrett, Grand Rapids, Mich. Type-writing machine	706,749	July 12	1454	320	100	1429
Fox, William R., and G. J. Barrett, Grand Rapids, Mich. Type-writing machine				321		
Fox, William R., and M. Lund, assignors to Fox Machine Company, Grand Rapids, Mich. Feed mechanism for milling-machines	707,095	Aug. 19	2092	467	100	1577
Fox, William T., Winchester, Ky. Cork-extractor	713,422	Nov. 11	1859	418	101	1294
Foxon, Frank. (See Pearl, George R., assignor.)	710,769	Oct. 7	1171	150	101	145
Foy, Alphonse L., New York, N. Y. Wheel for roller-skates	698,110	Apr. 22	3237	706	99	735
Frachebourg, Jean M., Paris, France. Shutter for color photography	694,364	Mar. 4	37	9	98	1719
Fraim, Charles W., Harrisburg, Pa. Puzzle	716,697	Dec. 23	3906	874	101	2717
Fraley, Casper H., and G. F. Miller, Alma, Nebr. Converting motion	697,829	Apr. 15	2683	596	99	601
Frame, Jacob, Toledo, Ohio. Badge or button	694,849	Mar. 4	982	218	98	1921
Franc, Alberic, Sanary, and F. Voland, Lyons, France. Apparatus for automatically insuring, registering, and franking letters	692,512	Feb. 4	512	121	98	903
Franc, Emil, London, England. Apparatus for measuring and drawing liquids	697,830	Apr. 15	2685	596	99	602
Franc, Jacques. (See Frank, Rose, assignor.)						
France, Frank, Fargo, N. D. Branding-iron	703,567	July 1	342	77	100	69
Franchot, Richard, Niagara Falls, N. Y. Making paris-green	698,696	Apr. 29	4343	962	99	988
Francis, Albert J. (See Kohlhepp and Francis.)						
Francis, Charles A., South Bend, Ind. Wagon-brake	705,061	July 22	3242	701	100	706
Francis Eyre Company. (See Oates, Randolph M., assignor.)						
Francis, Henry A., Niagara Falls, N. Y. Display-card for hooks and eyes	716,698	Dec. 23	3997	874	101	2717
Francis, William, Philadelphia, Pa. Safety device for shafting	695,923	Mar. 25	2960	670	98	2379
Francis, William H., Philadelphia, Pa. Disinfecting apparatus	704,182	July 8	1541	331	100	323
Francisco, Charles W., Brantford, Canada. Fuel-saver and smoke-consumer	706,229	Aug. 5	410	93	100	1206
Frank, Emil J., Collingdale, Pa. Knitting-machine	697,616	Aug. 15	2, 5	513	99	519
Frank, Carl, and H. Schwabacher, Berlin, Germany. Speed recorder and register for vehicles	693,793	Feb. 18	2975	657	98	1457
Frank, Otto, Freiburg, Germany. Double door	698,380	Dec. 22	3714	821	99	835
Franceour, Adolphus D. and G. L., Concordia, Kans. Grain-cleaner	694,540	Mar. 4	397	87, 88	98	1706
Franceour, George L. (See Franceour, Adolphus D. and G. L.)						
Franceour, Joseph, Concordia, Kans. Riding-harrow	693,851	Feb. 25	3107	687	98	1502
Franden, Andrew P., Jr., Moro, Minn. Bag-holder	711,561	Oct. 21	2245	487	101	497
Frank, Abraham. (See Perkins, Seth E., assignor.)						
Frank, Adolf, Hamburg, Germany. Small-arm	701,321	June 3	76	16	99	2124
Frank, Albert. (See Erbelein and Frank.)						
Frank, George, Fremont, Ohio. Tobacco-pouch	706,648	Aug. 12	1252	277	100	1387
Frank & Gutmann. (See Negraual, Louis A., assignor.)						
Frank, Henry C., New York, N. Y. Cuff-holder	713,868	Nov. 18	2706	605	101	1486
Frank, Julius, Jr., <i>et al.</i> (See Furlong, William, assignor.)						
Frank M. Whiting and Company. (See Theobald, Jean G., assignor.)						
Frank, Rose, assignor to J. Franc, Pasadena, Cal. Hinge	695,453	Mar. 18	2090	471	98	2187
Frank, Sam. (See Garrison, Martin, assignor.)						
Frank, Samuel M., San Antonio, Tex. Rotary force-pump	709,597	Sept. 23	3105	692	100	2067
Frank, Willis J., Alcester, S. D. Hay-rack lifter	703,054	June 24	3268	751	99	2834
Frank, August H., St. Louis, Mo. Oil-filter	715,047	Dec. 2	772	164	101	1992
Frank, Ferdinand, assignor to S. D. Cruse, Louisville, Ky. Feather-quiller	703,723	July 1	644	143	100	128
Frank, Frederick, assignor to S. D. Cruse, Louisville, Ky. Pillow-brusher	703,722	July 1	643	142	100	128
Frank, Frederick, assignor to S. D. Cruse, Louisville, Ky. Machine for crushing feathers and pulverizing	703,723	Sept. 2	249	59	100	2033
Frankel, Aaron, assignor of one-half to L. B. Doty, Philadelphia, Pa. Insect-screen	715,568	Dec. 9	1753	388	101	2210
Frankenberg, Frederick G., assignor, by mesne assignments, to American Metal Hose Company, Chicago, Ill. Flexible metallic tubing	693,000	Feb. 11	1445	314	98	1122
Frankenberg, Frederick G., assignor to Landon-Sharp Machine Company, Chicago, Ill. Tobacco-stripping machine	715,651	Dec. 9	1882	418	101	2237
Frankenberg, Frederick G., assignor to Landon-Sharp Machine Company, Chicago, Ill. Tobacco-stripping machine				419		
Frankenberg, Frederick G., assignor to Landon-Sharp Machine Company, Chicago, Ill. Tobacco-stripping machine				420		
Frankenberg, Frederick G., assignor to Landon-Sharp Machine Company, Chicago, Ill. Tobacco-stripping machine				421		
Frankenberg, Frederick G., assignor to Landon-Sharp Machine Company, Chicago, Ill. Tobacco-stripping machine				422		
Frankenstein, Clara. (See Diech, John, assignor.)						
Frankenthal, David, Frankfort-on-the-Main, Germany. Mattress	702,193	June 10	1646	368	99	2464

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Frankish, Charles, Ontario, Cal. Fastener for hose-couplings	701,703	June 3	766	170	99	2269
Franklin, Benjamin A., Philadelphia, Pa. Furnace-charging apparatus	695,604	Mar. 18	2384	540	98	3247
Franklin, Benjamin A., Philadelphia, Pa. Molding-machine	703,647	July 1	496	112	100	97
Franklin, Herbert H. (See Underwood, Herbert G., assignor.)						
Franklin, Herbert H., Syracuse, N. Y. Casting apparatus	702,194	June 10	1647	360	99	2464
Franklin, John, Norwood, Ohio. Stopper for gas-mains	702,937	June 24	3044	700	99	2789
Franklin, Joshua, Mosely, Ala. Cultivator	710,263	Sept. 30	4397	990	100	2949
Franklin, Samuel. (See Adams, Frank E., assignor.) (Reissue.)						
Franklin, William S., South Bethlehem, Pa., assignor of one-half to J. H. Klinek, Charles-ton, S. C. Gunner's ear-muffle	710,572	Oct. 7	336	73	101	68
Frankois, Paul, Naticoke, Pa. Negative-retoucher	712,922	Nov. 4	861	200	101	107
Franks, Orrin G., Buffalo, N. Y. Bed-bottom	693,594	Feb. 18	2625	579 580	98	1384
Frantz, Charles T. (See Laing and Frantz.)						
Frantz, Jacob, Philadelphia, Pa. Wheat-steamer	701,322	June 3	78	16 78	99	2125
Frantz, Peter, Sterling, Ill. Bale-tie machine	701,478	June 3	356	79 80 81	99	2182
Frantz, Willis W., Waynesboro, Pa. Electric clock	691,256	Jan. 14	1654	377	98	360
Frantz, Frank, Wallace, Idaho. Steam-shovel	715,470	Dec. 9	1535	37	101	2171
Frantz, John H., Baltimore, Md. Necktie-fastener	716,699	Dec. 23	3998	875	101	2717
Frantz, Robert S., Etna, Pa. Furnace	715,569	Dec. 9	1754	888	101	2211
Frasch, Hans A., New York, N. Y. Making caustic alkali	697,465	Apr. 15	2931		99	466
Frasch, Hans A., New York, N. Y. Concentrating gases	715,778	Dec. 16	2152	482	101	2311
Frasch, Hans A., New York, N. Y. Making starch	717,184	Dec. 30	5066		101	2974
Frasch, Hans A., Hamilton, Canada. Recovering metals by electrolysis	697,831	Apr. 15	2686	597	99	602
Frasch, Hans A., Hamilton, Canada. Cobalt-ammonium salt and making same	717,183	Dec. 30	5065		101	2971
Fraser, Arthur C. (See Cutten and Fraser.)						
Fraser Automatic Rove-Stop Company. (See Fraser, James, assignor.)						
Fraser, Ethelbert M., Yonkers, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Electric transmission of power	697,832	Apr. 15	2688	597 598	99	603
Fraser, George, Jr., Auckland, and S. E. Fraser, Wainiku, New Zealand. Revolving vacuum-filter for recovering the liquid from slimes, sands, pulp, or such like in connection with cyanid or other chemical applications	706,920	Aug. 12	1774	397	100	1407
Fraser, George H. (See Cutten and Fraser, assignors.)						
Fraser, Hugh A., Sarnia, Canada. Water-heating furnace	708,217	Sept. 2	413	95	100	2066
Fraser, James. (See Fraser, Thomas and J.)						
Fraser, James, assignor to Fraser Automatic Rove-Stop Company, Limited, Dundee, Scotland. Rove-stop mechanism	695,100	Mar. 11	1459	324	98	2037
Fraser, John, P., and N. Arbuthnot, Scotland. Hauling machine	717,380	Dec. 30	5396	1173	101	3041
Fraser, Joseph R., Dayton, Ohio. Combustion apparatus for steam-boilers	707,911	Aug. 26	3729	836	100	1980
Fraser, Norman. (See Fraser, John, P., and N.)						
Fraser, Patrick. (See Fraser, John, P., and N.)						
Fraser, Russell M., Norfolk, Nebr. Sugar-beet harvester	705,747	July 29	4707	1018 1019	100	1011
Fraser, Samuel E. (See Fraser, George, Jr., and S. E.)						
Fraser, Supremia D. (See Fraser, Spencer L., assignor.)						
Fraser, Spencer L., assignor of one-tenth to S. D. Fraser, Chicago, Ill. Stock-food and making same	704,530	July 15	2191	475	100	475
Fraser, Thomas and J., Hamilton, Scotland. Ball-bearing	715,779	Dec. 16	2154	482	101	2314
Fraser, William, Blackpool, England. Mechanical stoker	701,192	May 27	4032	926 927	99	2059
Fraser, William P., Edinburgh, Scotland. Hat-fastener	715,048	Dec. 2	774	165	101	1993
Fratcher, David W., assignor of one-third to H. E. Culonwell, Detroit, Mich. Attachment to keyboards of composing-machines	704,183	July 8	1543	332	100	323
Fratz, Philip H., assignor of one-half to E. G. Kemble, Philadelphia, Pa. Cigar-bunching machine	696,232	Mar. 25	3578	800 801	98	2505
Frawley, James J. (See Lowry, Er R., assignor.)						
Fraser & Geyer Co. (See Fraser, William G., assignor.)						
Fraser, James W., assignor of one-half to M. Lyons, Fraser, Wis. Curd-mill	712,187	Oct. 28	3462	759	101	763
Fraser, William G., assignor to Fraser & Geyer Co., New York, N. Y. Fountain-pen	700,009	May 27	3512	806	99	1948
Frazier, George H., J. W. Wagner, and H. G. Isenberger, Dennison, Ohio. Hose-bridge	706,815	Aug. 12	1581	355	100	1457
Frazier, James L., Peoria, Ill. Coupling	693,595	Feb. 18	2629	580	98	1388
Fréchette, Isaie, Montreal, Canada. Horn-rotating mechanism	701,193	May 27	4034	927	99	2060
Freck, William, Chicago, Ill. Shoe-lacer	691,853	Jan. 28	2829	635	98	640
Freck, William, Chicago, Ill. Tablet-machine	700,758	May 27	3234	741	99	1892
Freckmann, Joseph, Hildesheim, Germany. Ceiling	690,446	Jan. 7	539	116 117	98	115
Fred, J. Meyers Manufacturing Company. (See Lutter, John H., assignor.)						
Fred, Mason K., Bandera, Tex. Automatic fire-alarm	703,909	July 1	987	215	100	197
Fredenburgh, George A., Pawtucket, R. I. Thread-dressing machine	702,786	June 17	2747	632 633	99	2712
Frederick, Edward P., St. Louis, Mo. Wire-rope machine	693,509	Feb. 18	2448	536 537	98	1350
Frederick, Edward P., St. Louis, Mo. Wire-rope machine	703,778	July 1	739	164	100	148
Frederick, Edward P., assignor of one-half to J. D. Houseman, St. Louis, Mo. Electric-railway rail-bond	703,779	July 1	741	164	100	149
Frederick, John B., New Kensington, Pa. Match-box	705,578	July 29	4388	952	100	949
Fredericks, Charles, et al. (See Mitchell, James E., assignor.)						
Fredericks, John G., Reading, Pa. Spinning-machine	699,672	May 13	1046	244	99	1404
Fredericks, Lewis F., Galesburg, Ill. End-gate and fastening therefor	702,053	June 10	1410	316	99	2416
Fredericks, William H., Portland, Oreg. Canning device	696,031	Mar. 25	3619	714 715	98	2421
Fredericksen, David E., Racine, Wis. Tool-box	690,414	Jan. 7	46	12	98	12
Fredericksen, Kate, assignor of one-half to H. W. Perry, Chicago, Ill. Playing-card	702,298	June 10	1811	413	99	2398
Frederiksen, Anton, Copenhagen, Denmark. Lock	698,486	Apr. 29	3913	865	99	892
Fredin, Per Johan, Bridgeport, Conn. Hernial truss	699,797	May 13	1292	298 299	99	1453
Fredrick, John E., Kokomo, Ind. Barb-wire machine	711,303	Oct. 14	1751	380 381	101	380
Fredrick, William, Clyde, Ohio. Automatic lantern-slide-moving device	695,548	Mar. 18	2268	513	98	2222
Fredrickson, August, assignor to Columbus Machinery Co., Columbus, Miss. Machine for filing gin-saws	715,653	Dec. 9	1891	422 423	101	2239
Free, Ardenus R., Peekskill, N. Y. Type-writer	698,487	Apr. 29	3914	865	99	892
Free, William C., Chicago, Ill. Shuttle-driving mechanism for sewing-machines	692,842	Feb. 11	1109	248	98	1051



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Free, William C., Chicago, Ill. Shuttle-driving mechanism.	692,843	Feb. 11	1110	248	98	1051
Free, William C., Chicago, Ill. Feeding mechanism for sewing-machines	693,852	Feb. 25	3109	888	98	1505
Free, William C., Chicago, Ill. Take-up for sewing-machines.	699,073	May 13	1047	244	98	1403
Freebey, Mordacai P., Los Angeles, Cal. Adjustable mold for linotype or other metal-casting machines	692,183	Jan. 28	3413	773	98	758
Freeborn, John W., El Reno, Okla. Ter. Flag-cane	696,957	Apr. 8	1115	247	99	257
Freed, Henry F., assignor of nine-tenths to I. Freed, Harrisburg, Pa., and S. O. Spring, Peoria, Ill. Electrical transportation system	704,919	July 6	1194	260	100	253
Freed, Hoover W., assignor of two-thirds to H. F. Sager and A. S. Clegg, Burnham, Pa. Bicycle-frame	714,571	Nov. 25	4076	902	101	1787
Freed, Isaac, <i>et al.</i> (See Freed, Henry F., assignor.)						
Freedman, Charles I. (See Freedman, Louis A. and C. I.)						
Freedman, Louis A. and C. I., New York, N. Y. System of train manipulation	704,920	July 8	1199	261	100	254
Freeland, William, Brooklyn, N. Y. Trace-fastener	695,299	Mar. 11	1842	410	98	2115
Freeman, Albert A., assignor to Standard Automatic Lubricator Company, Philadelphia, Pa. Automatic lubricator	704,021	July 8	1201	262	100	254
Freeman, Charles A. (See Jones, Lyman R., assignor.)						
Freeman, Charles W., Mount Carmel, Ill. Valve-gear for steam-engines.	695,454	Mar. 18	2000	472	98	2187
Freeman, Chester M., Baltimore, Md. Fountain-pittoon	707,012	Aug. 26	3730	836	100	1930
Freeman, Delbert O., assignor of one-half to Rex Acetylene Generator Company, Binghamton, N. Y. Gas-purifier	701,704	June 3	767	170	99	2269
Freeman, Edwin T., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Nailing-machine. (Reissue.)	11,962	Jan. 21	2579	578	98	572
Freeman, Edwin T., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Machine for inserting fastenings	714,572	Nov. 25	4077	902	101	1787
Freeman, Henry H., Pittsburg, Pa. Playing-card holder and score-card	711,103	Oct. 14	1351	293	101	294
Freeman, John. (See Schindler and Freeman.)						
Freeman, John W., assignor of one-half to S. B. A. Haynes, Denver, Colo. Combination door knob and bell	700,488	May 20	2704	619	99	1763
Freeman, John W., assignor of one-half to S. B. A. Haynes, Denver, Colo. Combined door knob and bell	700,681	May 20	3037	694	99	1834
Freeman, Laurens B. (See Rowley and Freeman.)						
Freeman, Levi L., Kanaranzi, Minn. Corn harvester and shocker	710,023	Dec. 16	2655	585	101	2422
Freeman, Samuel A., and C. E. Throop, Buffalo, N. Y. Gas-engine	694,735	Mar. 4	770	171	98	1874
Freeman, Simon J., Bradford, Pa. Coffee or tea pot	691,052	Jan. 14	1300	295	98	286
Freeman, Stuart E., St. Louis, Mo. Water-tube boiler	698,697	Apr. 29	4365	962	99	939
Freeman, Thomas E., and T. M. Henderson, Portsmouth, Va. Self-extinguishing non-explosive lamp	696,864	Apr. 1	877	203	99	186
Frees, John W., Reading, Pa. Primary battery	693,001	Feb. 11	1446	314	98	1122
Freethy, Benjamin F., <i>et al.</i> (See Reynolds, Charles J., assignor.)						
Fregoso, Tomas, Hermosillo, Mexico. Calculator	717,331	Dec. 30	5397	1174	101	3042
Friel, Zolstein, assignor of one-half to C. A. Moreno and W. Finn, St. Louis, Mo. Nut-lock	717,382	Dec. 30	5399	1174	101	3042
Freise, William, Jr., <i>et al.</i> (See Bosworth, Daniel P., assignor.)						
Freise, William A., Newark, N. J. Distributing and dispensing device	710,993	Oct. 14	1064	235	101	233
Freitag, Charles, Brooklyn, N. Y. Razor	707,223	Aug. 19	2342	523	100	1632
Fremd, Charles, Jr. (See Mills and Fremd.)						
Fremd, George. (See Sparrow and Fremd.)						
Fremery, Max. (See Bronnert, Fremery, and Urban.)						
Fremery, Max, and J. Urban, Oberbruch, Germany. Manufacture of threads, &c., from cellulose	691,257	Jan. 14	1656		98	111
Fremery, Max, and J. Urban, Oberbruch, near Aachen, Germany. Manufacture of cellulose products	705,748	July 29	4709		100	1011
French, Aaron, <i>et al.</i> (See Cosgrave, Sylvester A., assignor.)						
French, Alexander, assignor of one-half to B. F. Collins, Elizabethtown, Ky. Road-gate	709,214	Sept. 16	2317	526	100	2488
French, Alfred W., Piqua, Ohio. Apparatus for packing oil-cakes	708,218	Sept. 2	414	95	100	2066
French, Alfred W., Piqua, Ohio. Regulating means for hydrostatic presses	715,365	Dec. 9	1303	294	101	2134
French, Charles B., St. Louis, Mo. Traveler's dress-case	695,202	Mar. 11	1649	397	98	2075
French, Frederick R., San Francisco, Cal. Conveying apparatus	700,321	May 20	2378	542	99	1605
French, Frederick R., San Francisco, Cal. Conveying apparatus	715,471	Dec. 9	1557	337	101	2172
French, George H., <i>et al.</i> (See Harris, William L., assignor.)						
French, George H. B., <i>et al.</i> (See Harris, William L., assignor.)						
French, George W., Boston, Mass. Last	715,172	Dec. 9	1560	338	101	2172
French, Irwin J., Washington, D. C. Circulating water system	716,520	Dec. 23	3669	801	101	2646
French, Joseph, Woonsocket, R. I. Mail-marking machine	694,850	Mar. 4	983	219	98	1921
French, Joseph, Woonsocket, R. I. Clutch and stop mechanism	699,379	May 6	471	111	99	1271
French, Joseph, Woonsocket, R. I. Printing and inking device for postmarking and canceling machines	700,414	May 20	2533	585	99	1731
French, Peter W. (See Hunt, Nathaniel F. T., assignor.)						
French, S. A., <i>et al.</i> (See Weimar, Fred, assignor.)						
French, Tomson E., Davenport, Iowa. Piano-moving device	713,626	Nov. 18	2269	505	101	1394
French, Zachary T., and W. C. Meyer, Boston, Mass. Feeding mechanism for shoe-sewing machines	705,062	July 22	3243	702	100	706
French, Zachary T., and W. C. Meyer, Boston, Mass. Shoe-sewing machine	705,063	July 22	3245	702	100	706
Frenier, Albert B. (See Frenier, Joseph A., assignor.)						
Frenier, Joseph A., assignor of one-half to A. B. Frenier, Davenport, Iowa. Sulky-plow	713,086	Nov. 11	1172	269	101	1154
Frenier, Joseph A., assignor of one-half to A. B. Frenier, Davenport, Iowa. Sulky-plow	713,087	Nov. 11	1177	269	101	1155
Frenot, Louis D., and A. Gimonet, Newark, N. J. Incandescent gas-lamp	710,446	Oct. 7	83	19	101	19
Frenzel, Joseph, New York, N. Y. Fire-escape	694,145	Feb. 25	3672	812	98	1616
Fretz, William D., New York, N. Y. Clay press	713,562	Nov. 11	2141	479	101	1332
Freschl, Alfred. (See Borgwardt and Consoer, assignors.)						
Freschl, Alfred. (See Karpen, Solomon, assignor.)						
Freschl, Alfred, Chicago, Ill. Upholstery apparatus	691,937	Jan. 28	2971	668	98	669
Freschl, Alfred, Chicago, Ill. Upholstery	693,644	Feb. 18	2717	599	98	1405
Fresh Air and Safety Sash Fastener Company. (See Williams, Robert, assignor.)						
Fretwell, William A., South Boston, Va. Manufactured tobacco	702,130	June 10	1530	345	99	2441
Fretz, Samuel S., Philadelphia, Pa. Gear for umbrellas	691,033	Jan. 14	1301	295	98	286

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Fretz, Samuel S., Philadelphia, Pa.    Geat for umbrellas.....	694,957	Mar. 11	1198	262	98	1982
Fretz, Samuel S., Philadelphia, Pa.    Umbrella-frame.....	703,910	July 1	988	215	100	197
Freuler, Kaspar, Zurich, Switzerland.   Collapsible stretcher.....	694,097	Feb. 25	3594	795	98	1599
Freund, Arthur.    (See Kann, Desiderius S., assignor.).....						
Freund, Hans H.    (See Wallerstein and Freund.).....						
Freund, Joseph, Wampum, Pa.    Rail-bed for railways.....						
Freville, Albert B.    (See Reeder and Freville.).....	715,049	Dec. 2	775	165	101	1993
Frey, Frank C.    (See Weber and Frey.).....						
Frey, Frederick G., Jr., St. Louis, Mo.    Initial finger-ring.....	700,637	May 20	3958	679	99	1818
Frey, William, Canton, Ohio.    Brick-edge-smoothing blade.....	705,064	July 22	3252	703	100	708
Freyhold, Felix, Washington, D. C.    Steam-pump.....	693,126	Feb. 11	1692	369	98	1172
Freyman, Oscar, and C. Tolman, Brooklyn, assignors to American Equipment Com- pany, New York, N. Y.    Gas-detector.....	692,007	Jan. 28	3096	696	98	693
Frick, Abraham O., assignor to Frick Company, Waynesborough, Pa.    Automatic skim- ming-regulator for ice-making apparatus.....	702,856	June 17	2879	665 666	99	2740
Frick Company.    (See Frick, Abraham O., assignor.).....						
Frick Company.    (See Hutchinson, Arthur H., assignor.).....						
Frick, Fred, Waynesboro, Pa.    Electric clock.....	692,054	Jan. 28	3190	720	98	711
Frick, Fred, Waynesboro, Pa.    Electric clock.....	702,299	June 10	1814	414	99	2498
Fridler, Daniel L., Jackson, Ala.    Force-pump.....	710,770	Oct. 7	713	150	101	146
Fridlerica, William M., Copenhagen, Denmark.    Tie-plug or dowel.....	703,780	July 1	742	165	100	149
Friedenwald, B. B., et al.    (See Painter, Orrin C., assignor.).....						
Friedinger, Ignaz.    (See Cathrein, Josef, assignor.).....						
Friedinger, Ignaz.    (See Hofmann, Adam, assignor.).....						
Friedlander, Charles.    (See Beuniosche, Herman and M., assignors.).....						
Friedlander, Chnp.    (See Silver and Friedlander.).....						
Friedman, Charles S., Philadelphia, Pa., assignor to E. A. Bancroft, trustee, Chicago, Ill. Creosoting wood, &c.....	693,697	Feb. 18	2319		98	1425
Friedman, Oscar J.    (See Larson, Albert L., assignor.).....						
Friedman, Samuel, et al.    (See Hummel, Louis, assignor.).....						
Friedmann, Hugo.    (See Adelsberger and Friedmann.).....						
Friedrich, August, Winterthur, Switzerland.    Mixing and kneading machine.....	713,088	Nov. 11	1181	270 271	101	1156
Friedrich, John C., Bordentown, N. J.    Button.....	700,759	May 27	3236	742	99	1892
Friedrich, John C., Bordentown, N. J.    Apparel.....	705,065	July 22	3253	704	100	708
Friedrich, Wilhelm, Rixdorf, Germany.    Wheel-rim.....	715,780	Dec. 16	2155	482	101	2314
Friel, Patrick H., Kenosha, Wis.    Die for covering tubes.....	696,865	Apr. 1	878	203	99	186
Friel, Patrick H., Kenosha, Wis.    Die for covering tubes.....	715,570	Dec. 9	1755	388	101	2311
Friend, Adam M., Denver, Colo.    Gravity electric battery.....	715,654	Dec. 9	1894	423	101	2240
Fries Bros.    (See Trillat, Jean, A., assignor.).....						
Fries, John A.    (See Holley, Walter D., assignor.).....						
Fries, John W., Winston-Salem, N. C.    Clutch for driving machinery.....	692,130	Jan. 28	3325	754	98	739
Fries, John W., Winston-Salem, N. C.    Machine for oxidizing yarn, &c.....	696,362	Mar. 25	3170	715	98	2422
Friesdorf, Eduard, Bietigheim, Germany.    Steam and oil separator.....	704,022	July 8	1202	262	100	255
Friesleben, Carl, Halle, Germany.    Centrifugal separator.....	705,066	July 22	3254	704	100	708
Friestedt, Luther P., Chicago, Ill.    Sheet-piling.....	707,387	Aug. 20	3589	810 811	100	1903
Frigerio, Frank, Whitehaven, assignor of one-half to P. Magagua, Freeand, Pa.    Driv- ing-gear for belted machines.....	691,538	Jan. 21	2211	497	98	495
Frings, Maurice, Paris, France.    Mercerizing-machine.....	704,531	July 15	2194	475 476	100	475
Frisbee, Walter W., Boston, Mass.    Puzzle.....	697,394	Apr. 8	1765	395	99	395
Frisbie, Charles E., Oakland, Cal.    Manifold sales device.....	703,781	July 1	744	165	100	149
Frisbie, William L., assignor to L. B. Baker Manufacturing Company, Racine, Wis. Lawn-rake.....	697,137	Apr. 8	1422	317	99	322
Frishkorn, Frederick G., Pittsburg, Pa.    Fire-escape.....	716,835	Dec. 23	4359	945	101	2804
Frist, Robert P., et al.    (See Hoffman, Edmund, assignor.).....						
Frith, Arthur J., New York, N. Y.    Conveyor.....	690,518	Jan. 7	291	58 59	98	63
Fritsch, Edward J.    (See Baker and Fritsch.).....						
Fritsch, Oscar M., Philadelphia, Pa.    Braking mechanism for elevator-cars.....	691,617	Jan. 21	2359	531	98	524
Fritts, Charles E., New York, N. Y.    Telegraph.....	704,023	July 8	1203	262	100	255
Fritz, Adolph W., Burlington, Iowa.    Adjustable and throw-off roller-track for printing- presses.....	707,313	Aug. 19	2511	564	100	1666
Fritz, Charles P., Philadelphia, Pa.    Vulcanizer.....	695,715	Mar. 18	2569	581	98	2283
Fritz, John, Bethlehem, Pa.    Apparatus for perforating blooms.....	695,716	Mar. 18	2571	582	98	2284
Fritz, William H., Harrisburg, Pa.    Rail-joint.....	714,888	Dec. 2	502	104	101	1936
Fritz, Otto, Nuremberg, assignor to C. A. Kapferer and W. Schleuning, Munich, Germany. Making cement.....	698,268	Apr. 22	3533		99	798
Frizell, Herbert L., Boston, Mass.    Step-ladder.....	700,028	May 13	1741	401	99	1546
Frizzell, John W., Eau Claire, Wis.    Type-writer support for desks, &c.....	692,652	Feb. 4	762	175	98	1539
Frölich, Henry, Lihue, Hawaii.    Machine for unloading cane-cars.....	702,096	June 10	1477	332	99	2429
Frölich, Oscar, Charlottenburg, M. Huth, Halensee, and A. Edelmann, Charlottenburg, assignors to Siemens & Halske Aktiengesellschaft, Berlin, Germany.    Separating process for ores.....	692,008	Jan. 28	3099		98	694
Froment, René, Paris, France.    Electric-arc lamp.....	696,807	Apr. 1	779	177	99	165
Fromm, Julius, Rochester, N. Y.    Merry-go-round.....	716,700	Dec. 23	3999	875	101	2717
Frossard, John, East Pepperell, Mass.    Calender-roll cleanser.....	698,853	Feb. 25	3110	689	98	1539
Frost, Edward J., Philadelphia, Pa.    Vapor-burning lamp.....	713,295	Nov. 11	1629	368	101	1245
Frost, Ellis F., Washington, D. C.    Telephone-circuit system.....	699,162	May 6	64	17	99	1189
Frost, George E.    (See Wilkinson, John A., assignor.).....						
Frost, Harrison C., assignor to Goodyear Tire and Rubber Company, Akron, Ohio.    Rub- ber-tread horseshoe.....	701,807	June 3	935	208	99	2304
Frost, Harry W., Detroit, Mich.    Railway-car bolster.....	697,466	Apr. 15	2032	448	99	467
Frost, Jacob F.    (See Lee, Alla E., assignor.).....						
Frost, John B., Naperville, Ill.    Commode.....	690,415	Jan. 7	47	12	98	13
Frost, Joseph W., Washington, D. C.    Electric signal for railway-cabs.....	705,662	July 29	4542	987	100	980
Frost, Richard W., Darien, Conn.    Drilling-machine.....	716,884	Dec. 30	4458	966	101	2841
Frost, Samuel H., Franklin, Mass.    Thill-tug.....	716,024	Dec. 16	2659	566	101	2423
Frost, Samuel H., and G. W. Southwick, Franklin, Mass.    Stall.....	712,516	Nov. 4	94	24	101	917
Froude, Charles, Riverside, Cal.    Device for heating orchards.....	695,382	Mar. 11	1970	441	98	2143
Fruë Vanning Machine Company    (See McDermott and Elmore.).....						
Fruehauf, Charles, Chicago, Ill.    Burglar-alarm.....	704,247	July 8	1639	355	100	243



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Frühling, Otto, Brunswick, Germany. Hydraulic device for emptying dredging-scows.	708,541	Sept. 9	976	220 221	100	2190
Fruit Stoning and Preserving Syndicate. (See Harris, William P., assignor.)						
Frutchey, Edward E., Towanda, Pa. Shoe-lace fastener.	691,128	Jan. 14	1419	322	98	310
Fry, Fred H., Fort Worth, Tex. Type-writer.	690,290	May 6	318	73	99	1230
Fry, Stiles, Flint, Ohio. Washing-machine.	693,255	Feb. 11	1966	427	98	1220
Frye, Charles A., Monongahela, Pa. Metallic tie and rail-joint combined.	701,194	May 27	4037	928	99	2060
Frye, John W., Oil City, Pa. Casing-head for oil-wells.	691,129	Jan. 14	1420	322	98	310
Fryer, James, Buxton, England. Window.	696,428	Apr. 1	65	15	99	18
Fryer, Josephine, Chelsea, Mass. Hook and eye.	699,163	May 6	66	17	99	1189
Fryers, Austin, Sydenham, England. Pivotal stage or turn-table.	701,626	July 15	2351	511	100	506
Fryk, Olof, Rugby, and L. E. Johnson, Richburg, N. D. Track-jack.	696,866	Apr. 1	890	203	99	186
Frymire, Louis N. (See Moritz, Frymire, and Koons.)						
Fryminger, Harry J., Baltimore, Md. Game apparatus.	712,923	Nov. 4	862	200	101	1073
Frysinger, Jesse, Hanover, Pa. Danger-signal for railways.	713,089	Nov. 11	1183	271	101	1156
Fuchs, Gotthold, assignor to Kalle & Company, Biebrich, Germany. Hydrochlorid of cinnamyl-quinn and making same.						
Fuchs, Ludwig, Lundenberg, Austria-Hungary. Machine for washing sugar.	692,437	Feb. 4	378		98	877
Fues, Ernst, Hanau, Germany. Drying-cylinder.	691,899	Jan. 28	363		98	656
Fugate, Lake E., Seattle, Wash. Register and alarm.	695,041	Mar. 11	1303	290	98	2017
Fugman, Godfrey. (See Stephan, Jacob, assignor.)	708,632	Sept. 9	1129	254	100	2222
Fuhrmann, Franz, Berlin, Germany. Making magnesium peroxid compound.	698,399	Apr. 22	3748		99	842
Fulford, Elijah D., Utica, N. Y., assignor of one-half to J. H. Webster and P. North, Cleveland, Ohio. Single-trigger mechanism for firearms.	704,024	July 8	1213	263	100	257
Fulford, Elijah D., Utica, N. Y., assignor of one-half to J. H. Webster and P. North, Cleveland, Ohio. Single-trigger mechanism for firearms.	704,025	July 8	1215	263	100	257
Fulghum, Frederick A., Waterloo, assignor to himself, W. L. M. Blumenstiel and W. T. Smith, Charles City, Iowa. Stone-lifting machine.	693,002	Feb. 11	1447	314	98	1123
Fullagar, Hugh F., Heaton, Newcastle-upon-Tyne, England. Compound steam-turbine.	696,967	Apr. 1	881	204	99	186
Fullagar, Hugh F., Newcastle-upon-Tyne, England. Fluid-pressure turbine.	712,369	Oct. 28	8771	825	101	828
Fullam, Patrick, Churubusco, Ind. Gate-hinge.	710,051	Sept. 30	3983	898	100	2860
Fullard Manufacturing Company. (See Fullard, William, assignor.)						
Fullard, William, Colwyn, assignor of one-half to W. E. Weber, Wyncote, Pa. Wiping device for printing-machines.	693,510	Feb. 18	2449	537	98	1350
Fullard, William, Colwyn, assignor of one-half to W. E. Weber, Wyncote, Pa. Plate-printing and embossing press.	695,864	Mar. 18	2843	645	98	2341
Fullard, William, Colwyn, assignor of one-half to W. E. Weber, Wyncote, Pa. Plate-printing and embossing press.	695,865	Mar. 18	2844	646	98	2341
Fullard, William, Colwyn, assignor to Fullard Manufacturing Company, Philadelphia, Pa. Plate-printing and embossing press.	702,787	June 17	2753	634	99	2713
Fullaway, Richard H., Los Angeles, Cal. Hydrocarbon-burner.	699,380	May 6	474	111	99	1372
Fuller, Albert F., Newark, N. J., assignor to J. E. Mergott Company. Catch for purse or bag frames.	697,467	Apr. 15	2033	449	99	467
Fuller, Albert F., Newark, N. J., assignor to J. E. Mergott Company. Purse or bag frame catch.	698,003	Apr. 22	3018	663	99	690
Fuller, Arthur J. (See Lacey and Fuller.)						
Fuller, Charles E. (See Scott, James A., assignor.)						
Fuller, Charles W., Medway, Mass. Triangle.	706,230	Aug. 5	442	93	100	1206
Fuller, Frank, trustee. (See Compton, Melvin D., assignor.)						
Fuller, James T., Calvert, Tex. Cotton-gin.	707,096	Aug. 19	2096	468	100	1578
Fuller, John E., Mansfield, Mass. Attachment for uterine packers.	700,139	May 13	1973	453	99	1591
Fuller, Louis C., Kansas City, Mo. Gas-lamp.	701,323	June 3	79	16	99	2125
Fuller Manufacturing Company. (See Compton, George W., assignor.)						
Fuller, N. Andrew. (See Longden, Mary, assignor.)						
Fuller, Russell B., Holland, Mich. Work conveying and presenting mechanism.	690,416	Jan. 7	49	12	98	13
Fuller, Russell B., Holland, Mich. Work conveying and presenting mechanism.	694,467	Mar. 4	247	55	98	1764
Fuller & Warren Company. (See Bailey, Charles H., assignor.)						
Fuller-Warren Company. (See Cocke, George M., assignor.)						
Fuller, William, Newville, Ind. Gate.	705,395	July 22	3977	861	100	854
Fullman, James M. G., Pittsburg, Pa. Outlet-box for electric wires and conduits.	699,881	May 6	475	112	99	1272
Fullmer, John A., et al. (See McCormick, John, assignor.)						
Füllner, Alwin E., Warmbrunn, Germany. Sizing apparatus for paper-machines.	694,146	Feb. 25	3674	812 813	98	1616
Fulton, Benjamin. (See Schramm, Wilford, and Fulton.)						
Fulton Iron Works. (See O'Neil, John F., assignor.)						
Fulton, John S. S., Franklin, Pa. Locomotive-boiler.	711,044	Oct. 14	1238	270 271	101	271
Fulton, Louis B., assignor to Chaplin-Fulton Manufacturing Company, Pittsburg, Pa. Pump-governor.	717,383	Dec. 30	5400	1174	101	3042
Fulton, Samuel M. (See Ames and Fulton.)						
Fulton, Samuel M., and A. T. Ames, Galt, Cal.; said Fulton assignor to said Ames. Thrust-bearing for shafts.	695,807	Mar. 18	2743	625	98	2319
Fulton, Walter W., Chicago, Ill. Device for creasing trousers.	691,460	Jan. 21	2082	466	98	468
Fulton, William T., E. Lefevre, and C. W. Copeland, Lehigh, Ind. Ter. Mail-bag receiver and deliverer.	715,781	Dec. 16	2156	483	101	2314
Funk, Lafayette, Farmington, Cal. Can-holder.	700,322	May 20	2380	543	99	1696
Funk, Henry, Pana, Ill. Grain-drill shoe.	707,578	Aug. 26	3023	680	100	1789
Funk, Henry, Brooklyn, N. Y. Car for pleasure-railways.	710,447	Oct. 7	85	19	101	19
Funk, Henry M., et al. (See Funk, John W., assignor.)						
Funk, John W., assignor of two-thirds to H. M. Funk and H. V. Klunk, Hanover, Pa. Ash-pan for steam-boiler fire-boxes.	712,055	Oct. 28	3224	707	101	719
Funk, Richard W. (See Birkenstock and Funk.)						
Funk, Truman B., Enid, Okla. Ter. Grain-drill.	713,976	Nov. 18	2238	651	101	1535
Funken, Johann, Aachen, Germany. Apparatus for tempering needles.	696,033	Nov. 25	3174	716	98	2423
Fuqua, O. C. (See Graham, Elias, assignor.)						
Furber, Frederick M., Haverhill, Mass. Dispensing-can.	705,336	July 22	3874	838	100	833
Furbish, Zachary T., assignor to North Brothers Manufacturing Company, Philadelphia, Pa. Chuck.	693,256	Feb. 11	1968	428	98	1229
Furbish, Zachary T., assignor to North Brothers Manufacturing Company, Philadelphia, Pa. Means for securing handles or rests to tools.	701,195	May 27	4038	928	99	2060
Furlong, R. M. (See Hubbell, Thomas J., assignor.)						
Furlong, William, assignor of two-thirds to W. E. Parker and J. Frank, Jr., Monroe County, Miss. Cotton-planter.	709,895	Sept. 30	3691	832	100	2798
Furman, John C., assignor of one-fourth to J. W. Jones, Strattonville, and I. M. Shannon, Clarion, Pa. Safety device for gas-lines.	702,195	June 10	1649	369	99	2465

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Furmidge, Samuel, St. Louis, Mo., assignor to Furmidge Spring Wheel Company, Pierre, S. D. Wheel	691,717	Jan. 21	2538	568	98	563
Furmidge, Samuel, St. Louis, Mo., assignor to Furmidge Spring Wheel Company, Pierre, S. D. Wheel	701,705	June 3	768	171	99	2260
Furmidge Spring Wheel Company. (See Furmidge, Samuel, assignor.)						
Furmidge Spring Wheel Company. (See Working, John C., assignor.)						
Furrer, Frank. (See Furrer, Joseph and F.)						
Furrer, Joseph and F., Allegheny, Pa. Harrow	693,698	Feb. 18	2820	620	98	1425
Furst, Samuel. (See Lehotzky and Furst.)						
Furthmiller, John J., Graettinger, Iowa. Harrow	711,956	Oct. 28	3038	667	101	681
Furter, Carl. (See Maurer and Furter.)						
Fusselman, Jerry, Huntington, Ind. Gate	695,101	Mar. 11	1460	324	98	2037
Fusz, Paul A., et al. (See Klein, John, assignor.)						
Fuyat, Toussaint J. (See Giorgetti, Fuyat, and Federigo.)						
Fuyat, Toussaint J., Hudson, Mass. Heddle-frame	704,455	July 8	2031	440	100	428
Fyfe, Paul P. I., Concord, N. C. Mail-box	710,854	Oct. 7	875	190	101	177
Fyfe, Robert, New York, N. Y. Non-refillable and non-remptiable vessel for liquids	696,017	Apr. 1	1009	224	99	213
Fyke, Charles V. (See Barr and Fyke.)						
Fyke, Charles V., Kansas City, Mo. Mail-marking machine	690,942	Jan. 14	1070	242	98	242
G. & J. Tire Company. (See Weidely, George A., assignor.)						
G. W. Cole Company. (See Cole, George W., assignor.)						
Gabel, Henry M. (See Kearns, Thomas E., assignor.)						
Gabel, John G., Holton, Kans. Cigar-packing machine	696,868	Apr. 1	887	1204	99	188
Gable, Fred S., Glenrock, Pa. Positive shuttle-motion for looms	714,294	Nov. 25	3591	790	101	1690
Gable, Fred S., Glenrock, Pa., assignor of three-fourths to W. T. Gable, Baltimore, Md. Reed for looms for weaving wire-cloth	696,325	Mar. 25	3786	844	98	2550
Gable, William T. (See Gable, Fred S., assignor.)						
Gabler, Max. (See Wichmann and Gabler.)						
Gabriel, Charles, Chicago, Ill. Machine for bending angle-irons, channel-irons, &c	706,310	Aug. 5	617	135	100	1240
Gabriel, Charles E., assignor to Brown and Sharpe Manufacturing Company, Providence, R. I. Grinding-machine	696,034	Mar. 25	3175	716	98	2423
Gabriel, Charles R., assignor to Gorham Manufacturing Company, Providence, R. I. Coupling for candlesticks, &c	698,831	Apr. 29	4668	1028	99	1058
Gabrielle, Victor M., National Soldiers Home, Va. Bicycle-support	690,718	Jan. 7	695	152	98	147
Gabrielsen, Charles A., Liverpool, England. Conveyor	714,889	Dec. 2	503	105	101	1936
Gabrielsky, Richard. (See Klinker and Gabrielsky.)						
Gabrielsky, Richard, Jersey City, N. J. Mechanical stringed musical instrument	708,337	Sept. 2	625	141	100	2108
Gabrielson, Carl. (See Feibel and Gabrielson.)						
Gabrielson, Carl, Springfield, Mass., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine	716,701	Dec. 23	4002	876	101	2718
Gabrielson, William, assignor of one-half to A. Helin and A. Hendrickson, Kansas City, Mo. Stringed musical instrument	711,104	Oct. 14	1353	294	101	294
Gachet, Laurent, Paris, France. Railway signal apparatus	698,269	Apr. 22	3534	1773	99	798
Gaede, John W., Cleveland, Ohio. Folding vise	713,423	Nov. 11	1851	418	101	1294
Gaedtke, Hermann J., Philadelphia, Pa. Animal-trap	714,470	Nov. 25	3893	860	101	1749
Gaertner, Frederick W., Saginaw, Mich. Extracting vegetable albumen	710,190	Sept. 30	4262	961	100	2919
Gaertner, Rudolf, assignor to Karlsbad Kaolin-Industrie-Gesellschaft, Merkersgrün, near Karlsbad, Austria-Hungary. Insulator for high-potential currents	696,958	Apr. 8	1117	247	99	257
Gaff, Thomas T., Barnstable, Mass., and J. F. Gent, Indianapolis, Ind.; said Gent assignor of one-third to said Gaff. Apparatus for the degeneration and decortication of Indian corn	707,057	Aug. 12	2015	450	100	1546
Gaff, Thomas T., Barnstable, Mass., and J. F. Gent, Indianapolis, Ind.; said Gent assignor of one-third to said Gaff. Degerming maize or Indian corn	707,058	Aug. 12	2018	451	100	1546
Gaff, Thomas T., Barnstable, Mass., and J. F. Gent, Indianapolis, Ind.; said Gent assignor of one-third to said Gaff. Treatment of maize for the production of grits, flakes, &c	707,059	Aug. 12	2020	-----	100	1546
Gaffney, Augustine, assignor to Warnica Company, Rochester, N. Y. Kit for photographic-plate holders	717,384	Dec. 30	5402	1174	101	3043
Gaffney, Charles H., Gloucester, assignor to A. M. Lyon, Boston, Mass. Seine-pursing apparatus	712,370	Oct. 28	3774	825	101	829
Gage, Joseph J., Mansfield, Ohio. Locomotive-boiler	706,490	Aug. 5	974	214	100	1313
Gage, Walter H., assignor of one-half to G. H. Crocker, Fitchburg, Mass. Suction-box for paper-making machines	712,664	Nov. 4	377	88, 89	101	977
Gagné, Edouard, Point St. Charles, assignor of one-half to P. Bonneau, Willow Bunch, Canada. Trolley-guard	709,089	Sept. 16	2080	477	100	2438
Gagron, Omer, Watbury, Conn. Clothes-hook	716,214	Dec. 16	3052	666	101	2505
Gahagan, Arthur B., assignor of two-thirds to J. A. Hughes and C. W. Doutt, Glade Mills, Pa. Pump for oil-wells	715,233	Dec. 9	1154	247	101	2090
Gahan, Thomas, et al. (See Reynolds, Willie H., assignor.)						
Gail, John S. (See Wilcox and Gail.)						
Gail, John F., assignor to Simmons Manufacturing Company, Kenosha, Wis. Automatic brake and power-shifting mechanism	700,415	May 20	2555	585	99	1731
Gaillac, Eugene G., Jonesport, Me. Rudder attachment	694,468	Mar. 4	248	55	98	1765
Gaillard, Ella N., New York, N. Y. Pin	717,185	Dec. 30	5067	1099	101	2971
Gaillard, Raoul, and E. Ducretet, Paris, France. Microphone for high-tension currents	712,056	Oct. 28	3235	708	101	719
Gaser, Otto, Kitzingen, Germany. Centrifugal mill	715,473	Dec. 9	1561	399	101	2173
Gaisman, Henry J., New York, N. Y. Buckle or frame	714,471	Nov. 25	3895	860	101	1749
Gaisman, Henry J., and J. Ross; said Ross assignor to said Gaisman and F. S. M. Blum, New York, N. Y. Waist-belt	703,568	July 1	342	78	100	69
Galarno, William, Bay City, Mich. Vegetable-puller	697,468	Apr. 15	2035	449	99	467
Galbraith, Frederick W., Jr., Cambridge, Mass. Sheet-metal can	715,050	Dec. 2	776	165	101	1993
Galbraith, Robert, Troy, N. Y., assignor to Great Western Stove Company, Leavenworth, Kans. Cooking-stove	706,750	Aug. 12	1460	321	100	1431
Gale, Andrew, Chicopee, Mass. Seed-planter	698,927	Apr. 29	4836	1067	99	1093
Gale, Charles R., Minneapolis, Minn. Tread-power	698,381	Apr. 22	3715	821	99	836
Gale, Georgiana C. (See Gale, Henry A., assignor.)						
Gale, Henry A., assignor to G. C. Gale, Hartford, Conn. Machine for edging and matching lumber	698,111	Apr. 22	3238	707	99	735
Gale, James, San Francisco, Cal. Window curtain and shade support	704,532	July 15	2195	476	100	476
Gale, James R. C., Sutton, England. Apparatus for controlling the wind supply and pressure in organs	691,900	Jan. 28	2905	654	98	656
Gale, John T., Columbus, Ohio. Book-index	713,869	Nov. 18	2707	605	101	1486



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Gale, Ronald, <i>et al.</i> (See Evans, William, assignor.)						
Gale, William L., assignor of one-fourth to J. F. Whiteside, Louisville, Ky. Smoke-con- veyer	708,085	Sept. 2	75	17	100	1997
Galer, Herbert. (See Swaney, Fletcher D., assignor.)						
Galerno, William J., Shepherd, Mich. Axle	710,964	Oct. 14	1067	236	101	233
Gales, Nicholas W., Waterloo, Iowa. Liner for centrifugal liquid-separators	694,736	Mar. 4	772	172	98	1875
Galipeau, Noe, Worcester, Mass. Wood-scraper	713,979	Nov. 18	2942	652	101	1536
Galipeau, Noe, Worcester, Mass. Extinguisher	717,186	Dec. 30	5069	1009	101	2971
Galkin, Gregor, St. Petersburg, Russia. Incandescent hydrocarbon-lamp	714,472	Nov. 25	3896	861	101	1750
Gallagher, Bernard, Lynn, Mass. Last-trimming machine	692,844	Feb. 11	1111	249	98	1052
Gallagher, Bernard, Lynn, Mass. Trolley-wheel-turning machine	699,382	May 6	476	112 113	99	1272
Gallagher, Frank J. (See Keller and Gallagher.)						
Gallagher, George B., and C. J. Macomber, St. Marys, Ohio. Fluid-pressure apparatus for well-drilling tools	706,173	Aug. 5	334	71	100	1185
Gallagher, George S., New York, N. Y. Apparatus for applying liquid disinfectants or perfumery to water-closets	713,977	Nov. 18	2939	652	101	1535
Gallagher, George S., New York, N. Y. Apparatus for applying disinfectants to water- closets	713,978	Nov. 18	2941	652	101	1536
Gallagher, George S., New York, N. Y. Mechanical toy	716,631	Dec. 23	3884	848 849	101	2695
Gallagher, George S., assignor to Economy Furnace Company, New York, N. Y. Fur- nace	697,833	Apr. 15	2692	598	99	603
Gallagher, Joseph D., Glenridge, N. J. Brake-shoe	708,704	Sept. 9	1274	291	100	2250
Gallagher, Richard D., Jr., assignor to Standard Coupler Company, New York, N. Y. Draft and buffing rigging	692,653	Feb. 4	764	175	98	956
Gallagher, Richard D., Jr., assignor to Standard Coupler Company, New York, N. Y. Draft and buffing rigging	693,506	Feb. 18	2681	580	98	1386
Gallagher, Richard D., Jr., assignor to Standard Coupler Company, New York, N. Y. Draft-spring yoke connection for draw-bars	713,627	Nov. 18	2270	505	101	1394
Gallagher, Sarah E., <i>et al.</i> , administrators. (See Wilkes, Moses.)						
Gallagher, Thomas M., Old Orchard, assignor to Scullin-Gallagher Iron & Steel Com- pany, St. Louis, Mo. Bolster	698,928	Apr. 29	4837	1067	99	1093
Gallagher, Thomas M., Old Orchard, assignor to Scullin-Gallagher Iron & Steel Com- pany, St. Louis, Mo. Bolster	698,929	Apr. 29	4837	1068	99	1094
Gallagher, William E. (See Scholl, George, assignor.)						
Gallagher, William E., South Framingham, Mass. Liquid-dispensing apparatus	692,438	Feb. 4	378	92	98	877
Galland-Henning Pneumatic Maltng Drum Manufacturing Company. (See Birkholz, Richard, assignor.)						
Galley, George. (See Fernald and Galley.)						
Galley, Maximilian, Hanover, Germany. Face-protector	704,311	July 8	1757	384	100	369
Gallinant, Achille, West Hoboken, N. J. Regulator for controlling the descent of ele- vator-cars	703,246	June 24	3630	834	99	2906
Gallois, Moriz von, assignor to Farbwerke, vorm. Meister, Lucius & Brüning, Höchst- on-the-Main, Germany. Making bromindigo	706,921	Aug. 12	1776		100	1497
Galloway, Fred J., <i>et al.</i> (See Wright, William J., assignor.)						
Galloway, George D. (See Black, John F., assignor.)						
Galloway, Oscar R. (See Cooper, William M., assignor.)						
Gally, Merritt, Brooklyn, N. Y. Printing-press	707,770	Aug. 26	3445	776 777	100	1875
Gally, Merritt, Brooklyn, N. Y. Music-roll and spool therefor	713,870	Nov. 18	2708	605	101	1487
Galopin, Paul. (See Eichenberger, Otto, assignor.)						
Galopin, Paul. (See Tommasina, Thomas, assignor.)						
Galphin, George D., <i>et al.</i> (See Winkler, William, assignor.)						
Galschöft, Christian L., Copenhagen, Denmark. Apparatus for cooling cement clinker or other granular materials	694,958	Mar. 11	1199	262	98	1983
Galvin, Thaddeus, Detroit, Mich. Ball-caster	701,196	May 27	4039	923	99	2061
Galway, John J., Duluth, Minn. Device for securing or releasing trap-floors for ore-cars	706,312	Aug. 5	622	136	100	1241
Galway, John J., assignor of one-half to K. McDonald, Duluth, Minn. Chain retaining and releasing means	702,549	June 17	2291	522	99	2617
Galway, John J., assignor of one-half to K. McDonald, Duluth, Minn. Offset mechanism for sawmill carriages	706,311	Aug. 5	620	136	100	1241
Gamalielson, Johan E., Kaumana, Hawaii. Cable-support	707,314	Aug. 19	2513	505	100	1666
Gamalielson, Johan E., Kaumana, Hawaii. Cultivator	714,168	Nov. 25	3242	736	101	1640
Gamble, Daniel, Ramelton, Ireland. Thread-holder for spools	693,854	Feb. 25	3112	689	98	1503
Gamble, Ellsworth. (See Letts, Ellsworth M., assignor.)						
Gamble, J. M., <i>et al.</i> (See McMath, John F. O., assignor.)						
Gamble, John, assignor to G. A. Reach, Philadelphia, Pa. Boxing-glove	705,915	July 29	5001	1088	100	1072
Gamble, William H., assignor of one-half to D. H. Allen, Miamisburg, Ohio. Folding or collapsible bath-tub	707,060	Jan. 12	2022	452	100	1547
Gamble, William M., Chicago, Ill. Leaf-hinge	691,757	Aug. 28	2650	593	98	604
Gammell, Joseph L., assignor of two-fifths to H. E. and C. F. Cowdrey, Fitchburg, Mass. Resonating or sounding toy	716,025	Dec. 16	2659	586	101	2423
Gammeter, John R. (See Wilcox and Gammeter.)						
Gano, Frank I., Anaconda, Mont. Auriphone	709,978	Sept. 30	3861	869	100	2835
Gano, John E. (See Logue and Gano.)						
Gaus, Ludwig W. (See Lubberger, Hans, assignor.)						
Gans, Robert E. A., Pankow, Germany. Ignition material for matches	698,698	Apr. 29	4366		99	989
Gansz, Lewis, Philadelphia, Pa. Siphon-filling apparatus	714,573	Nov. 25	4081	903	101	1787
Gantt, Henry L., Fountain Hill, Pa. Furnace for heating and melting iron, &c.	708,705	Sept. 9	1275	292	100	2251
Ganucci-Cancellieri, Lionello. (See Alberini, Anchise, and Ganucci-Cancellieri.)						
Ganzenmuller, August. (See Korth and Ganzenmuller.)						
Gapp, John, Scranton, Pa. Track-sanding appliance	695,300	Mar. 11	1843	410	98	2115
Garbell Bros. Co. (See Garbell, Max, assignor.)						
Garbell, Max, Philadelphia, Pa., assignor to Garbell Bros. Co. Machine for making but- tons	696,629	Apr. 1	426	99	99	92
Garben, Adolph F. C., Des Moines, Iowa. Folding table	711,562	Oct. 21	2246	487	101	497
Garber, Christian, Findlay, Ohio. Latch	709,538	Sept. 23	3006	670	100	2646
Garcia, Medardo. (See Lombardo, José, assignor.)						
Garcia-Rabell Trading Company. (See Grabau, Hans E., assignor.)						
Gard, William E., assignor to Columbia Shade Cloth Company, New York, N. Y. Appa- ratus for decorating surfaces	704,627	July 15	2351	511	100	506
Garda, Giovanni, Turin, Italy. Knife and fork	708,806	Sept. 9	1482	339	100	2297
Gardanier, Ada F., Chicago, Ill. Egg-opener	706,649	Aug. 12	1253	277	100	1387

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Gardenhire, Samuel M. (See Place, James F., assignor.)						
Gardiner, C. C. (See Seaman, Claude D., assignor.)						
Gardiner, George W., Philadelphia, Pa. Propeller-gear.	695,717	Mar. 18	2573	582	98	2284
Gardiner, Thomas H., assignor of one-half to F. E. Russell, Hoffman, Mont. Tug-buckle.	712,291	Oct. 28	3639	735	101	790
Gardiner, Thomas W. (See Gerrish, Edward W., assignor.)						
Gardner, Charles, assignor of one-half to C. H. Todd, Washington, Pa. Railway-tie and rail connection.						
Gardner, Charles W., Portland, Ore. Gold-separator.	712,787	Nov. 4	604	138	101	1023
Gardner, Edgar S., Boston, Mass., assignor to Bernstein Electric Manufacturing Company, Portland, Me. Manufacturing incandescent electric lamps.	702,643	June 17	2487	570	99	2057
Gardner, Edgar S., Boston, Mass., assignor to Bernstein Electric Manufacturing Company, Portland, Me. Incandescent electric lamp.	697,469	Apr. 15	2036	449	99	467
Gardner, Frederick, Chicago, Ill. Apparatus for disinfecting water-closets and the seats thereof.	707,099	Aug. 19	2102	469	100	1580
Gardner, Frederick N., Beloit, Wis. Drilling-machine.	716,335	Dec. 16	3270	714	101	2548
Gardner, Frederick N., Beloit, Wis., assignor to C. H. Besly, Chicago, Ill. Machine for grooving tap-blanks.	707,507	Aug. 19	2553	645	100	1738
Gardner, George B., assignor of one-half to F. J. Hastings, Haverhill, Mass. Shoe-turning device.	717,187	Dec. 30	5070	1099	101	2971
Gardner, Henry K., Providence, R. I. Automatic electric time-switch.	702,106	June 10	1650	399	99	2465
Gardner, James, Chicago, Ill. Drop-light.	710,146	Sept. 30	4182	942	100	2302
Gardner, Jefferson M., New London, Conn. Cotton-seed delinier.	696,364	Mar. 25	3874	861	98	2565
Gardner, Jefferson M., New London, Conn. Condenser for cotton fibers.	696,959	Apr. 8	1117	248	99	257
Gardner, John, Fleetwood, England. Apparatus for controlling actions at a distance.	700,090	Sept. 16	2083	477	100	2439
Gardner, John H., New Orleans, La. Portable tramway.	693,597	Feb. 18	2632	580	98	1387
Gardner, Michael M., Edgewood, R. I. Cigar-bunching machine.	694,851	Mar. 4	988	511	98	1922
Gardner, Michael M., Cranston, R. I. Cigar-bunching machine.	694,625	Mar. 4	549	120	98	1829
Gardner, Michael M., Edgewood, R. I. Cigar-bunching machine.	699,674	May 13	1049	245	99	1405
Gardner, Paul H., and F. E. Van Doorn, Quincy, Ill. Adjustable bracket.	704,742	July 15	2558	551	100	549
Gardner, William C., Altoona, Pa. Truck.	693,127	Feb. 11	1694	370	98	1173
Gare, Thomas, New Brighton, England, assignor to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Machine for forming nails.	708,473	Sept. 2	849	194	100	2153
Garey, Henry F., Baltimore, Md. Apparatus for alternating air-pressures.	711,248	Oct. 14	1645	351	101	357
Garfield, Julius D., Springfield, assignor of one-half to G. Bernard, Boston, Mass. Combined door and bellows-support for cameras.	715,732	Dec. 9	2045	457	101	2272
Garfield, Julius D., Springfield, assignor of one-half to G. Bernard, Boston, Mass. Finder for cameras.	711,658	Oct. 21	2418	532	101	532
Garfield, Julius D., Springfield, assignor of one-half to G. Bernard, Boston, Mass. Foal-plane shutter.	713,629	Nov. 18	2273	506	101	1305
Garhart Dental Manufacturing Company. (See Garhart, Nathan K., assignor.)						
Garhart, Nathan K., assignor to Garhart Dental Manufacturing Company, Indianapolis, Ind. Dentist's electrical annealing-furnace.	714,106	Nov. 18	3183	704	101	1588
Garis, Noah D., Garisville, Pa. Hook and eye.	712,057	Oct. 28	3236	708	101	719
Garriss, S. H. (See Sprague, George F., assignor.)	708,542	Sept. 9	977	221	100	2190
Garland, Ernest C., Chelsea, assignor of one-half to W. A. Stevens, East Boston, Mass. Combined valve and switch apparatus.	696,630	Apr. 1	420	100	99	93
Garland, Frank M., New Haven, Conn. Cartridge-carrier mechanism for automatic guns.	693,386	Feb. 18	2212	485	98	1301
Garland, James A., Jr., Hamilton, Mass. Tabulating attachment for type-writers.	691,130	Jan. 14	1421	322	98	311
Garland, James A., Jr., Hamilton, Mass. Intermediate line-spacing device for type-writing machines.	616,215	Dec. 16	3053	665	101	2506
Garland, Michael, assignor to M. Garland Company, Bay City, Mich. Conveyor system.	690,943	Jan. 14	1081	243	98	242
Garland, Myrta C., New Haven, Conn. Belt.	695,549	Mar. 18	2272	513	98	2223
Garlock, Olin J., assignor to Garlock Packing Company, Palmyra, N. Y. Machine for forming ring-packing.	695,605	Mar. 18	2387	540	98	2248
Garlock, Olin J., assignor to Garlock Packing Company, Palmyra, N. Y. Rod-packing.	716,836	Dec. 23	4360	945	101	2804
Garms, William, Los Angeles, Cal. Apron and apron-tie.	699,513	May 6	725	169	99	1325
Garner, John T., Grayrock, Tex. Canning apparatus.	704,679	July 15	2435	528	100	525
Garnier, Thomas R., Los Angeles, Cal. Ball-bearing hub.	711,957	Oct. 28	3039	667	101	681
Garratt, John M. (See Stevens, William H., assignor.)						
Garretson, Frank B., assignor to himself and W. J. Gindele, Worcester, Mass. Protection for electric railways.	715,254	Dec. 9	1156	247	101	2091
Garrett-Cromwell Engineering Company. (See Sundt, Oscar, assignor.)						
Garrett, Frank W., Johnstown, Pa., assignor to Lorain Steel Company. Trolley for electric railways.	702,938	June 24	3046	701	99	2790
Garrett, Frank W., and E. W. Stull, Johnstown, Pa., assignors to Lorain Steel Company. Locking device for motor-reversing switches.	691,618	Jan. 21	2361	531	98	525
Garrett, James C., San Francisco, Cal. Foot-rest for chairs.	713,628	Nov. 18	2371	505	101	1394
Garrett, John J. F., et al. (See Dugan, William F., assignor.)						
Garrett, Paul, Weldon, N. C. Preparing sparkling wines.	704,533	July 15	2200	476	100	476
Garrett, Thomas H., Jr., Auburn, N. Y. Ball-bearing rowlock.	692,845	Feb. 11	1117	250	98	1053
Garrett, William. (See Cromwell, John C., assignor.)						
Garrett, William H., and H. C. Pauly, assignors to Hennessy Foundry Company, Springfield, Ohio. Sewer-inlet.	693,511	Feb. 18	2452	538	98	1351
Garrett, William T., assignor of one-half to J. A. Street, Cedarville, Cal. Ratchet-wrench.	690,647	Jan. 7	539	117	98	115
Garriga, Thomas J., Boston, Mass. Car.	701,557	June 3	504	111	99	2212
Garrison, Albert H., assignor to Brand Store Company, Milwaukee, Wis. Cooking range.	692,654	Feb. 4	766	176	98	956
Garrison, Fannie E., administratrix. (See Garrison, Martin.)						
Garrison, Frank O., Portland, Ore. Ribbon-fastener for type-writing machines.	707,098	Aug. 19	2101	469	100	1580
Garrison, George H., Bucoda, Wash. Gun-cleaner.	705,396	July 22	3979	802	100	854
Garrison, George H., Bucoda, Wash. Gun-cleaner.	707,913	Aug. 26	3734	897	100	1981
Garrison, Joseph E., Philadelphia, Pa. Hose-nozzle.	694,965	Mar. 4	38	9	98	1730
Garrison, Martin, deceased, F. E. Garrison, administratrix, assignor, by mesne assignments, to S. Frank, New York, N. Y. Adding-machine.	711,392	Oct. 14	1912	416	101	413
Garrison, William F., assignor to Guild & Garrison, Brooklyn, N. Y. Vacuum-pump.	698,400	Apr. 22	3749	827	99	842
Garrison, William F., assignor to Guild & Garrison, Brooklyn, N. Y. Valve for vacuum-pumps.	702,054	June 10	1412	316	99	2417



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Garrison, William F., assignor to Guild & Garrison, Brooklyn, N. Y. Pump .....	703,648	July 1	498	113	100	98
Garriss, S. H. (See Sprague, George F., assignor.)						
Garrity, James J., Pinole, Cal. Tube-machine .....	702,197	June 10	1651	370	99	2465
Garsed, Edward T., Greensboro, N. C. Warp-balling machine .....	713,424	Nov. 11	1852	419	101	1295
Garside, Irad L., Paterson, N. J. Blind-adjuster .....	712,095	Nov. 4	381	89	101	977
Garske, Albert, Reedsburg, Wis. Spark arrester and extinguisher .....	696,960	Apr. 8	1120	1248 1249	99	258
Garson, Julius H., assignor of one-half to D. H. Foreman and W. C. Baum, Denver, Colo. Fuse-igniting tape .....	709,979	Sept. 30	3863	870	100	2885
Garson, William H., Philadelphia, assignor, by mesne assignments, to J. Ellwood Lee Company, Conshohocken, Pa. Hermal truss .....	698,270	Apr. 22	3538	779	99	798
Gartner, Nathan L., et al. (See Decker, John M., assignor.)						
Garton-Daniels Company. (See Anbuhl, Andrew, assignor.)						
Garton, Frederic C., Schoolhouse, W. Va. Wire-stretcher .....	708,474	Sept. 2	850	194	100	2154
Gartrell, Sterne H., Kansas City, Mo. Burner attachment for dinner-pails .....	690,519	Jan. 7	301	60	98	66
Garver, Edward A., and D. V. Stout, Chicago, Ill. Wheelbarrow .....	698,930	Apr. 29	4688	1068	99	1064
Garvey, Charles. (See Watkins, Charles O., assignor.)						
Garvey, Francis J., Chicago, Ill. Pall .....	701,706	June 3	769	171	99	2270
Garvey, Matthias, Crownpoint, N. Y. Water-joint .....	691,339	Jan. 21	2122	497	98	496
Garvy Company. (See Hauser, Theodore, assignor.)						
Garvy, William J. (See Bachand, Levi N., assignor.)						
Garwood, Homer, Ottawa, Ohio. Incandescent lamp .....	692,260	Feb. 4	88	20	98	817
Garwood, Myles E. (See Dal and Garwood.)						
Gary, Walter, assignor of one-half to B. Ostrom, Saginaw, Mich. Beet-harvester .....	707,097	Aug. 19	2100	469	100	1579
Gas Appliance Manufacturing Company. (See Shaw and Fee, assignors.)						
Gashlin, Frederick C., assignor of nine-sixteenths to S. and M. Davis, San Francisco, Cal. Fire-detector and alarm .....	693,003	Feb. 11	1449	315	98	1123
Gaskill, William H., assignor to S. W. Evans, Jr., Philadelphia, Pa. Umbrella-runner .....	707,838	Aug. 26	3591	811	100	1943
Gaskins, George H., Portsmouth, Va. Machine for polishing rings .....	699,514	May 6	726	169	99	1326
Gasper, Frank W., Wayne, assignor of one-half to J. T. Andrews and F. W. Gristock, Penn Yan, N. Y. Combined handle and presser-foot for baskets .....	716,632	Dec. 23	3886	849	101	2695
Gass, Joseph. (See Cleland and Murray, assignors.)						
Gassard, Louis, assignor to T. G. Mason, Toronto, Canada. Machine drill-stock .....	711,563	Oct. 21	2248	488	101	497
Gassard, Louis, assignor to T. G. Mason, Toronto, Canada. Wrist-plank .....	711,564	Oct. 21	2249	498	101	498
Gassen, Emil G., Sioux City, Iowa. Safety-faucet and water-controlling connection .....	696,731	Apr. 1	635	143	99	137
Gassner, George S. (See Williams, David S., assignor.)						
Gaston, Josiah B., South Pass, Wyo. Antifriction chafe-iron .....	693,699	Feb. 18	2821	620	98	1425
Gastonguay, Godefrid J., Hartford, Conn. Coasting and brake mechanism .....	692,131	Jan. 28	3327	754	98	740
Gastren, Alice J., and J. G. Cortelyou, Los Angeles, Cal. Hook and eye .....	716,404	Dec. 23	3420	746	101	2595
Gatch, M. W. (See Derr, William R., assignor.)						
Gatch, Milton W., Cincinnati, Ohio. Polisher .....	697,470	Apr. 15	2037	450	99	468
Gate City Stove Works. (See Wilson, Charles F., assignor.)						
Gatermann, William, Newton, Wis. Attachment for finger-bars of mowers or harvesters .....	700,029	May 13	1742	401	99	1546
Gates, Albert J., Chicago, Ill., assignor to Allis-Chalmers Company, Jersey City, N. J. Cornish roll .....	705,749	July 29	4710	1019	100	1012
Gates, Albert J., Chicago, Ill., assignor to Allis-Chalmers Company, Jersey City, N. J. Cornish roll .....	691,339	Jan. 14	1859	420	98	406
Gates Iron Works. (See Sherman, Frederic W., assignor.)						
Gates, John, Tufnell Park, England. Carving or copying machine .....	698,832	Apr. 29	4669	1028 1029	99	1039
Gates, Louis W. (See Gates, William and L. W.)						
Gates, Philetus W. (See Gates, Ryerson D., assignor.)						
Gates, Renfrew W., Chattanooga, Tenn. Pencil-sharpener .....	716,762	Dec. 23	4005	1876 1877	101	2719
Gates, Ryerson D., Oakpark, assignor of one-half to P. W. Gates, Chicago, Ill. Gas or electric reflector .....	712,517	Nov. 4	95	24	101	917
Gates, William, Woodbridge, assignor of one-half to J. H. Barnes, Norwich, Conn. Check-rein-holder .....	692,132	Jan. 28	3329	754	98	741
Gates, William, Woodbridge, and L. W. Gates, Orange, assignors of two-fifths to J. H. Barnes, Norwich, Conn. Valve .....	702,417	June 17	2953	468	99	2567
Gates, William H., assignor to himself and B. P. Greene, Worcester, Mass. Breakdown gun .....	698,194	Apr. 22	3401	1748 1749	99	770
Gates, William T., Simpson, W. Va. Coke-oven .....	707,914	Aug. 26	3735	837	100	1931
Gathmann, Emil, Washington, D. C., assignor to G. W. McMullen, Picton, Canada. Separating solvents from nitro compounds .....	704,623	July 15	2353	511	100	507
Gathmann, Emil, assignor of one-half to L. Gathmann, Washington, D. C. Liquid-purifier .....	717,385	Dec. 30	5403	1175	101	3043
Gathmann, Louis. (See Gathmann, Emil, assignor.)						
Gathmann, Louis, Washington, D. C. Apparatus for purifying water .....	711,155	Oct. 11	1450	1314 1315	101	317
Gathmann, Louis, Washington, D. C. Water-purifying apparatus .....	714,798	Dec. 2	284	61, 62	101	1895
Gathmann, Louis, Washington, D. C. Water-purifying apparatus .....	714,793	Dec. 2	4067	877	101	2719
Gatling, Richard J., St. Louis, Mo. Motor-plow .....	696,808	Apr. 1	781	178	99	165
Gatling, Richard J., St. Louis, Mo. Motor-plow .....	705,337	July 22	3876	878	100	893
Gatrell, Othmar A., Columbus, Ohio, assignor to P. C. Houston, Jamestown, N. Y. Voting-machine .....	701,324	June 3	80	17, 18	99	2125
Gattollat, Paul S., assignor of two-fifths to W. H. Bornand, Jersey City, N. J. Coin-ac-tuated machine .....	704,312	July 8	1738	1384 1385	100	370
Gauerman, Henry, and D. Pryde, Braddock, Pa. Barle-wire machine .....	707,315	Aug. 19	2514	1565 1566	100	1606
Gaul, William F., Greenbank, assignor of one-half to M. Walton, Atlantic City, N. J. Means for extinguishing fires in oil-tanks .....	716,885	Dec. 30	4460	1966 1967	101	2842
Gault, Elmer A. (See Jontz and Gault.)						
Gault, Martha B., Cincinnati, Ohio. Dress-shield .....	690,719	Jan. 7	696	152	98	147
Gaunt, Joseph S. (See Dyson, Harry, assignor.)						
Gaunt, William A., et al. (See Hemphill, Henry B., assignor.)						
Gauss, Philip, New York, N. Y. Bottle-nipple .....	705,916	July 25	5002	1080	100	1072
Gaut, Joseph. (See Marsland and Gaut.)						
Gauthier, Henri. (See Varad, Vendredy, Duitte, and Gauthier.)						
Gautschi, Charlotte W., Milwaukee, Wis. Weather-strip .....	690,648	Jan. 7	541	117	98	115
Gavigan, William J., New York, N. Y. Electrical device for the treatment of diseases .....	693,257	Feb. 11	1969	428	98	1229
Gavitt, Harry E., Topeka, Kans. Horse-tail holder .....	697,242	Apr. 8	1599	359	99	358
Gavitt, Harry E., Topeka, Kans. Envelop-sealing machine .....	709,761	Sept. 23	3404	764	100	2726
Gay, Chauncey W. (See Birnie and Gay.)						
Gay, Chauncey W., West Springfield, Mass. Box-machine .....	695,301	Mar. 11	1845	411 412	98	2116

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Gay, Chauncey W., West Springfield, Mass. Creasing or scoring and mitering mechanism for paper-box machinery	702,365	June 10	1940	442	99	2528
Gay, Edgar A., Rochester, N. Y., assignor to Seng Company, Chicago, Ill. Hinge for furniture	696,671	Apr. 1	521	120	99	113
Gay, Edwin W. (See Fair, George, assignor.)						
Gay, Elmer E., Woonsocket, R. I. Clothes-wringer	709,628	Sept. 23	8154	703	100	2976
Gay, George E., Augusta, Me. Screw-driver	705,917	July 29	5003	1089	100	1972
Gay, George L., Spokane, Wash. Sprinkling attachment for hose-nozzles	691,758	Jan. 28	2651	594	98	604
Gay, George L., Spokane, Wash. Wrapping-machine	697,617	Apr. 15	2296	514	99	520
Gay, Herman T., Baltimore, Md. Toy	691,131	Jan. 14	1424	323	98	312
Gay, Herman T., Baltimore, Md. Screw-propelled boat	691,258	Jan. 14	1657	377	98	361
Gay, Herman T., Baltimore, Md., assignor, by mesne assignments, to Aluminum-Cork Seal Company, Camden, N. J. Bottle-sealing machine	707,316	Aug. 19	2516	566	100	1667
Gay, Herman T., Baltimore, Md., assignor, by mesne assignments, to Aluminum-Cork Seal Company, Camden, N. J. Bottle-sealing machine	711,201	Oct. 11	1573	338	101	342
Gayley, James, Pittsburg, Pa. Drying air for blast-furnaces	715,366	Dec. 9	1366	294	101	2135
Gaylor, Leonard B., Mount Vernon, N. Y. Blind-fastener	692,261	Feb. 4	80	20	98	817
Gaylor, Leonard B., Mount Vernon, N. Y. Game-board	715,474	Dec. 9	1562	339	101	2173
Gaynor, John J., assignor of five-sixths to F. M. Fauvre and A. Harmon, Indianapolis, Ind. Labeling-machine	705,832	July 29	4843	1051 1052	100	1040
Gaynor, Thomas F., et al. (See Gaynor, Timothy J., assignor.)						
Gaynor, Timothy, Jr., assignor of four-fifths to R. G. Harseim and S. M. Gusdorf, Indianapolis, Ind. Soap cutting and spreading machine	705,067	July 22	3255	704 705	100	709
Gaynor, Timothy J., assignor of one-half to T. F. Gaynor and W. L. Lightford, Indianapolis, Ind. Seed-planter	698,004	Apr. 22	3021	663	99	691
Gearing, Charles L., Brownwood, Tex. Hoisting-bucket	711,489	Oct. 21	2102	455	101	466
Gearing, Charles L., Brownwood, Tex., assignor of three-fourths to C. W. Drown, A. Grivot, and A. C. Landry, New Orleans, La. Gas generating and burning furnace	702,418	June 17	2056	468	99	2567
Geary, H. Seymour, et al. (See Madas, Louis, assignor.)						
Geary, James, Bradford, Pa. Mail-marking machine	694,007	Feb. 25	3428	754 755	98	1566
Geary, Michael J., Sabin, Minn. Hay-rack attachment	712,666	Nov. 4	383	89	101	978
Gebauer, Charles L., Cleveland, Ohio. Receptacle for containing and administering volatile liquids	711,045	Oct. 14	1241	271	101	271
Gebbie, Frank. (See Doyle and Gebbie.)						
Gebhard, Lawrence G., and J. M. Rowley, Buffalo, N. Y. Hydrocarbon vaporizer or burner	697,618	Apr. 15	2302	515	99	521
Gebhard, Lawrence G., and J. M. Rowley, Buffalo, N. Y. Bag-fastener	697,710	Apr. 15	2479	554	99	556
Gebhardt, Victor, St. Louis, Mo. Fishing-bait holder	699,304	May 6	330	76	99	1241
Gebler, Eugen J. (See Schmidt and Gebler.)						
Geczynski, Samuel, Berlin, Germany. Cloth-cutter	702,788	June 17	2755	634	99	2713
Geddes, Charles A., assignor of one-half to C. Hamm, Philadelphia, Pa. Dispensing apparatus for soda-water	712,292	Oct. 28	3640	795	101	799
Geddes, Charles A., assignor to G. P. Laubenstein and W. R. Boyer, Philadelphia, Pa. Soda-water-dispensing apparatus	702,719	June 17	2621	603	99	2686
Geddes, William, Quincy, Mass. Mop-wringer	694,469	Mar. 4	249	56	98	1765
Gedde, Burton H., Anderson, Ind. Rod-reel	707,317	Aug. 19	2518	567	100	1667
Gedde, George E. (See Harwood, Gedde, and Monson.)						
Gedde, George E., assignor to A. C. Evans Manufacturing Company, Springfield, Ohio. Corn-planter	695,042	Mar. 11	1362	299	98	2017
Gee, Albert, assignor to Brown Knitting Company, Philadelphia, Pa. Attachment for making open or lace work in straight-knitting machines	703,055	June 24	3269	752 753 754	99	2835
Gee, James E., West Croydon, England. Apparatus for washing, scrubbing, and cleansing floors	695,043	Mar. 11	1364	300	98	2018
Gee, Pattie W., New York, N. Y. Genealogical chain record	705,833	July 29	4848	1033	100	1041
Geele, Kasberg C., Finley, N. D. Valve-gear	703,569	July 1	343	78	100	69
Geelhaar, René, Winterthur, Switzerland. Armored gun-tower	701,870	June 10	1049	235 236	99	2343
Geen, James, Hoboken, N. J. Prepayment gas-meter	706,922	Aug. 12	1776	398	100	1497
Geer, George, assignor of one-half to C. E. Bueck, Richmond, Va. Fan attachment for sewing-machines	691,340	Jan. 14	1861	420	98	406
Geer, James H., and D. Wisor, Johnstown, Pa. Body-bolster	717,386	Dec. 30	5408	1176	101	3044
Geer, James H., and D. Wisor, Johnstown, Pa. Truck-bolster	717,387	Dec. 30	5406	1176	101	3043
Geering, Alfred, New York, N. Y. Pincers or squeezing device	692,262	Feb. 4	90	21	98	817
Gégauff, Charles H. (See Wenning and Gégauff.)						
Gehman, Edward F., Reading, Pa. Vehicle-spring	714,574	Nov. 25	4082	903	101	1788
Gehre, Fritz, Zurich, Switzerland. Manufacturing plates or tiles	692,197	Jan. 28	3439		98	764
Gehring, Gustave P. (See Shoemaker, Harry, assignor.)						
Gehring, Gustave P., et al. (See Pickard, Greenleaf W., assignor.)						
Gehring, Gustave P., et al. (See Shoemaker, Harry, assignor.)						
Gehring, Marie V. (See Rhoades, Lewis T., assignor.)						
Gehring, Marie V. (See Shoemaker, Harry, assignor.)						
Gehring, Marie V., et al. (See Shoemaker, Harry, assignor.)						
Gehring, Adam, Philadelphia, Pa. Cart shovel and scraper	697,243	Apr. 8	1600	359	99	359
Geigenmüller, Carl, Greitz, Germany. Ascertaining the owner of lost articles, &c.	711,393	Oct. 14	1914	416	101	414
Geiger, Charles E., and J. E. Turney, assignors to Turney Drier Company, Louisville, Ky. Communiting-machine	695,878	Mar. 18	2870	651	98	2347
Geiges, Joseph G., Cincinnati, Ohio. Furnace	692,439	Feb. 4	379	98	98	878
Geille, Emile, Brussels, Belgium. Muffle-furnace	714,473	Nov. 25	3898	861	101	1750
Geis, William V. (See Schmelz, Richard W., assignor.)						
Geisel, Mary, Charleston, W. Va. Folding bed	716,026	Dec. 16	2661	586 587	101	2424
Geisenheimer, William, assignor to S. Scheuer & Sons, New York, N. Y. Apparel-belt	698,005	Apr. 22	3022	664	99	691
Geisenhöner, Henry, Schenectady, N. Y., assignor to General Electric Company. End-play device for rotary machines	716,216	Dec. 16	3055	667	101	2506
Geisenhöner, Henry, and T. Van Aller, Schenectady, N. Y., assignors to General Electric Company. Solclering-iron	696,429	Apr. 1	66	15	99	18
Gell, John, Wellington, New Zealand. Apparatus for perforating tape for automatic telegraph instruments	710,448	Oct. 1	78	20	101	19
Gelly, Joseph C., Paris, France. Hydraulic motor	696,809	Apr. 1	784	178 179	99	166
Gendron, Joseph A., Nashua, N. H. Shuttle-motion for looms	714,160	Nov. 25	3343	736	101	1640
Gendron Manufacturing Company. (See Werthner, Christian, assignor.)						
Gendron, Paul H., Sherbrooke, Canada. Washing-machine	708,338	Sept. 2	627	141	100	2109



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General Aristo Company. (See Hewitt, Arthur F., assignor.)						
General Chemical Company. (See Hart, Edward, assignor.)						
General Electric Company. (See Abell, Arthur H., assignor.)						
General Electric Company. (See Armstrong, Albert H., assignor.)						
General Electric Company. (See Ashley, Frank M., assignor.)						
General Electric Company. (See Padeau, Charles C., assignor.)						
General Electric Company. (See Barry, Charles E., assignor.)						
General Electric Company. (See Bassett, Norman C., assignor.)						
General Electric Company. (See Bassett and Hill, assignors.)						
General Electric Company. (See Batchelder, Asa F., assignor.)						
General Electric Company. (See Berg, Ernst J., assignor.)						
General Electric Company. (See Boyles, Thomas D., assignor.)						
General Electric Company. (See Bradley, Charles S., assignor.)						
General Electric Company. (See Buck, Harold W., assignor.)						
General Electric Company. (See Case, Frank E., assignor.)						
General Electric Company. (See Churchward, Alexander, assignor.)						
General Electric Company. (See Coates, Jesse, assignor.)						
General Electric Company. (See Corey, Fred B., assignor.)						
General Electric Company. (See Cravens, George W., assignor.)						
General Electric Company. (See Davis, Albert G., assignor.)						
General Electric Company. (See Dawson, William F., assignor.)						
General Electric Company. (See Day, Maxwell W., assignor.)						
General Electric Company. (See Dutton, Edgar F., assignor.)						
General Electric Company. (See Edwards, Harold, assignor.)						
General Electric Company. (See Emmet, William L. R., assignor.)						
General Electric Company. (See Erben, Hermann F. T., assignor.)						
General Electric Company. (See Erben and Knight, assignors.)						
General Electric Company. (See Everest, Augustine R., assignor.)						
General Electric Company. (See Fish and Cox, assignors.)						
General Electric Company. (See Fleming, Richard, assignor.)						
General Electric Company. (See Geisenhüner, Henry, assignor.)						
General Electric Company. (See Geisenhüner and Van Aller, assignors.)						
General Electric Company. (See Gilbert and Lundin, assignors.)						
General Electric Company. (See Green, Charles M., assignor.)						
General Electric Company. (See Hall, John L., assignor.)						
General Electric Company. (See Harthan, Charles E., assignor.)						
General Electric Company. (See Haskins, Caryl D., assignor.)						
General Electric Company. (See Hewlett, Edward M., assignor.)						
General Electric Company. (See Hild and Stewart, assignors.)						
General Electric Company. (See Hilliard, John D., Jr., assignor.)						
General Electric Company. (See Hobart, Henry M., assignor.)						
General Electric Company. (See Howell, John W., assignor.)						
General Electric Company. (See Huthsteiner, Robert E., assignor.)						
General Electric Company. (See Jeannin, Frank H., assignor.)						
General Electric Company. (See Jenkins, Joseph H., assignor.)						
General Electric Company. (See Johnston, Thomas J., assignor.)						
General Electric Company. (See Kastenhuber, Edwin G., assignor.)						
General Electric Company. (See Kellogg, James W., assignor.)						
General Electric Company. (See Knox, Samuel L. G., assignor.)						
General Electric Company. (See Krayser, Joseph F., assignor.)						
General Electric Company. (See Lemp, Hermann, assignor.)						
General Electric Company. (See Lighthipe, James A., assignor.)						
General Electric Company. (See Linn, John B., assignor.)						
General Electric Company. (See Litchfield, Walter D., assignor.)						
General Electric Company. (See Lunt, Alexander D., assignor.)						
General Electric Company. (See Mackintosh, Frederick, assignor.)						
General Electric Company. (See Manger, Samuel W., assignor.)						
General Electric Company. (See Mix, Edgar W., assignor.)						
General Electric Company. (See Moody, Walter S., assignor.)						
General Electric Company. (See Murphy, Edwin J., assignor.)						
General Electric Company. (See Nowotny, John S., assignor.)						
General Electric Company. (See Oxley, Eustace, assignor.)						
General Electric Company. (See Painter, George B., assignor.)						
General Electric Company. (See Parshall, Horace F., assignor.)						
General Electric Company. (See Potter, William B., assignor.)						
General Electric Company. (See Potter and Hewlett, assignors.)						
General Electric Company. (See Pratt, William H., assignor.)						
General Electric Company. (See Priest and Schermerhorn, assignors.)						
General Electric Company. (See Raymond, Edward B., assignor.)						
General Electric Company. (See Read, Robert H., assignor.)						
General Electric Company. (See Reist, Henry G., assignor.)						
General Electric Company. (See Rice, Edwin W., Jr., assignor.)						
General Electric Company. (See Robinson, Lewis T., assignor.)						
General Electric Company. (See Rupley, George H., assignor.)						
General Electric Company. (See Rypinski, Maurice C., assignor.)						
General Electric Company. (See Sargent, Howard R., assignor.)						
General Electric Company. (See Saxon, Louis, assignor.)						
General Electric Company. (See Spinney, Henry C., assignor.)						
General Electric Company. (See Steinmetz, Charles F., assignor.)						
General Electric Company. (See Steinmetz and Emmet, assignors.)						
General Electric Company. (See Stern, George, assignor.)						
General Electric Company. (See Stevens, George E., assignor.)						
General Electric Company. (See Stewart, Samuel E., Jr., assignor.)						
General Electric Company. (See Swan, Alfred, assignor.)						
General Electric Company. (See Thompson, Milton E., assignor.)						
General Electric Company. (See Thomson, Elhu, assignor.)						
General Electric Company. (See Thomson and Callan, assignors.)						
General Electric Company. (See Thomson and Callan, assignors.) (Reissue.)						
General Electric Company. (See Tirrill, Leonard A., assignor.)						
General Electric Company. (See Tournier, Julius C., assignor.)						
General Electric Company. (See Troy, Matthew O., assignor.)						
General Electric Company. (See Walker, Milo S., assignor.)						
General Electric Company. (See Wellman, Harlan P., assignor.)						
General Electric Company. (See Williams, Thomas W., assignor.)						
General Electric Company. (See Woodbridge, Jonathan E., assignor.)						

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General Electric Company. (See Woods, Granville T., assignor.)						
General Fire Extinguisher Company. (See Meloon, Jonathan C., assignor.)						
General Fire Extinguishing Company. (See Grinnell, Frederick, assignor.)						
General Fireproofing Company. (See Wege, Peter M., assignor.)						
General Incandescent Arc Light Company. (See Ball, Henry F., assignor.)						
General Incandescent Arc Light Company. (See Ball and Wintner, assignors.)						
General Incandescent Arc Light Company. (See Benzinger, Frederick, assignor.)						
General Incandescent Arc Light Company. (See Hallberg, Josef H., assignor.)						
General Incandescent Arc Light Company. (See Wellman, Harold R., assignor.)						
General Lead Company. (See Bailey, John W., assignor.)						
General Manifold Company. (See Lewis, Edward Z., assignor.)						
General Phonographs Corporation. (See Alexander, John E., assignor.)						
General Pneumatic Company. (See Thiele, Peter F., assignor.)						
Generaux, Chrysologus H., Saginaw, Mich. Animal-catcher.	714,170	Nov. 25	3345	736	101	1641
Geneva Automobile and Manufacturing Company. (See Thompson, Alfred, assignor.)						
Geneva Optical Company. (See Hardinge, Franklin, assignor.)						
Geniu, Jean B., New York, N. Y. Car-coupling	703,399	July 1	65	13	100	15
Gent, John R. (See Green, Gent, and Poppenhuisen.)						
Gent, Joseph E. (See Gaff and Gent.)						
Genter, Jacob H., Albany, N. Y. Pivoted hub	712,293	Oct. 28	3643	796	101	800
Gentis, Ernest L., Newport News, Va. Trolley-fork.	703,782	July 1	746	165	100	150
Gentslinger, George, Wapakoneta, Ohio. Fence	709,215	Sept. 16	2319	526	100	2489
Gentzsch, Adolf, Vienna, Austria-Hungary. Insulating composition and producing same.	699,383	May 6	481		99	1273
Geo. W. Caswell Company. (See Hastings and Harrington, assignors.)						
Geo. W. Stafford Company. (See Stafford, George W., assignor.)						
Geofroy, George de, (See Conti, Geofroy and Le Gall du Tertre.)						
George A. Kelly Flow Company. (See Kelly, George A., assignor.)						
George, Benjamin F., assignor of one-half to W. H. Belles, Potomac, Ill. Harness-buckle	714,171	Nov. 25	3346	737	101	1641
George, Bentley T. (See Joost and George.)						
George, Cornelius B. (See George, William W., assignor.)						
George F. Blake Manufacturing Company. (See De Laval and Chisholm, assignors.)						
George, Francis, Yalona, Cal. Automatic sash-lock	696,357	Apr. 1	296	70	99	67
George, Ernest, (See Phelps, George H., assignor.)						
George, Jerome R., assignor to Morgan Construction Company, Worcester, Mass. Con- veyer for metal rods or bars	716,999	Dec. 30	4692	1017	101	2890
George, Jerome R., and V. E. Edwards, assignors to Morgan Construction Company, Worcester, Mass. Coupling for rolling-mill shafts	691,759	Jan. 28	2653	594	98	604
George Lawrence Company. (See Bostwick, Henry A., assignor.)						
George M. Stevens Co. (See Stevens, George M., assignor.)						
George N. Pierce Company. (See Pergusson, David, assignor.)						
George, Samuel, Stouffville, Canada. Valve	711,304	Oct. 14	1760	381	101	381
George Schneider Manufacturing Company of Baltimore City. (See Schneider, George, assignor.)						
George W. Dover Company. (See Dover, George W., assignor.)						
George, William W., assignor of one-half to C. B. George, Winchester, Ky. Liquid- weighing machine	698,794	Feb. 18	2978	658	98	1458
Georges, Alfred. (See Fortunesco and Georges, assignors.)						
Gerardin, Benjamin M., Jersey City, N. J. Rule	704,313	July 8	1763	385	100	371
Gerber, James J., Minneapolis, Minn. Distributing-spout for grain-elevators. (Reissue.)	11,971	Feb. 18	3043	672	98	1470
Gerbing, Max P., Wentworth, Mo. Car-wheel	702,644	June 17	2488	571	99	2658
Gercke, William H., San Francisco, Cal. Drawer-guide	697,471	Apr. 15	2038	450	99	468
Gerdes, Adolf, Berlin, Germany. Cash-register	708,570	July 1	344	78	100	69
Gerdtzen, Gerdt A., Milwaukee, Wis. Roll	696,138	Mar. 25	3394	764	98	2470
Gerfin, Frederick C., assignor of one-half to F. W. Kort, Columbia, Pa. Take-up for looms	704,314	July 8	1765	385	100	371
Gerlach, Frank W., and F. W. Moore, Kenton, Ohio. Guide for sewing-machines.	705,663	July 29	4544	987	100	980
Gerlach, Fred, trustee, et al. (See Bryan, George F., assignor.)						
Gerlach, John. (See Schmiedeke, Louis, assignor.)						
Gerling, Charles E., Burlington, Iowa. Body-kneader	699,916	May 13	1539	354	99	1507
Gerling, Charles H., Edwardsville, Ill. Seed or potato planter	700,030	May 13	1743	401	99	1546
Germer, Edward G., Erie, Pa. Stove	701,325	May 3	84	18	99	2126
Germot, Antonin, Asnières, France. Obtaining metallic lead from lead ores	690,520	Jan. 7	303		98	66
Germot, Antonin, Asnières, and H. E. L. Fiévet, Paris, France. Treating metallic sulfides	697,138	Apr. 8	1324	317	99	323
Gernand, William H., Alvin, Ill. Machine for husking corn	702,730	June 17	2623	604	99	2686
Gernert, John M., and J. F. Aten, Bellevue, Ohio; said Gernert assignor to said Aten. Double ironing-board	701,197	May 27	4039	928	99	2061
Gerrard, Edward, assignor to National Dry Kiln Company, Indianapolis, Ind. Dry-kiln	699,839	May 13	1376	318	99	1472
Gerrard, Edward, assignor to National Dry Kiln Company, Indianapolis, Ind. Heating apparatus	707,691	Aug. 26	3258	729	100	1838
Gerresheim, Hugo, Cologne-Ehrenfeld, Germany. Reducing nitro compounds	691,132	Jan. 14	1425		98	812
Gerst, Edward W., assignor of one-half to T. W. Gardiner, Lynn, Mass. Last-sawing machine	698,006	Apr. 22	3022	664	99	691
Gerstmayer, Anton, assignor of one-half to L. A. Dunne, Chicago, Ill. Nut-cracking machine	702,721	June 17	2627	604	99	2687
Gerth, Joseph P., Toluca, Ill. Shade and curtain hanger	716,027	Dec. 16	2662	587	101	2424
Gervais, Charles E., assignor to Gervais Manufacturing Company, New York, N. Y. Lamp	706,923	Aug. 12	1779	398	100	1498
Gervais, Charles E., assignor to Gervais Manufacturing Company, New York, N. Y. Lamp	706,924	Aug. 12	1782	399	100	1498
Gervais Manufacturing Company. (See Gervais, Charles E., assignor.)						
Gesellschaft für Huberpressung Gesellschaft mit Beschränkter Haftung. (See Huber, Carl, assignor.)						
Gesellschaft zur Verwertung der Patente für Glaserzeugung auf Electrischem Wege Becker & Co., M. H. C. (See Bronn, Jeger, assignor.)						
Gesner, George W., Brooklyn, N. Y. Alloy	692,198	Jan. 28	3440		98	764
Gessner, David. (See Sarfert, Alexander T., assignor.)						
Gester, William B. (See Fitzgerald, Christopher, assignor.)						
Gestetner, David, London, England. Stencil-printing apparatus	700,031	May 13	1745	402 403 403	99	1547
Gestetner, David, London, England. Stencil-printing apparatus	707,579	Aug. 26	3024	680 681	100	1789
Getchell, Charles E. (See Sawtelle, Elmer P., assignor.)						
Getz, Allen C., and C. S. Rowsey, Wichita, Kans. Harness-snaps	715,655	Dec. 9	1895	423	101	2240



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Getzmann, Filip H. (See Hultgren, Johan P., assignor.)						
Geurink, Bernard A., Cleveland, Ohio. Press for expressing juice from fruit or other material.	703,190	June 24	3397	813	99	2887
Geurink, Bernard A., Cleveland, Ohio. Steam-generator or water-heater.	709,006	Sept. 16	1895	434	100	2399
Geyer, Hiram, assignor of one-half to R. Geyer, Goshen, Ind. Swing.	712,924	Nov. 4	864	291	101	1074
Geyer, John L., and R. A. Prime, Cincinnati, Ohio. Pressure-reducer for gas or other pipes.	707,318	Aug. 19	2520	567	100	1668
Geyer, Rebecca. (See Geyer, Hiram, assignor.)						
Gheen, John W., Astoria, Oreg. Salting-machine.	713,425	Nov. 11	1854	419 420	101	1293
Ghegan, John J., Newark, N. J. Circuit-controller.	697,834	Apr. 15	2694	599	99	604
Gherassimoff, Nicolas, St. Petersburg, Russia. Apparatus for preventing collisions at sea.	693,855	Feb. 25	3112	689 690	98	1504
Ghrist, David J., and J. P. Groschen, Hites, Pa. Glass-leer.	716,405	Dec. 23	3421	716 717	101	2595
Giacomini, Achilles, San Francisco, assignor to A. White, Vallejo, Cal. Button-sewing machine.	701,871	June 10	1951	296 297	99	2443
Giacomini, Achilles, San Francisco, assignor to A. White, Vallejo, Cal. Starting or stopping mechanism.	701,872	June 10	1054	237	99	2444
Gibb, William, Boston, Mass. Game apparatus.	709,007	Sept. 16	1897	434 435	100	2400
Gibberd, Fred, Upper Norwood, England. Device for blacking or coloring boots or shoes.	690,859	Jan. 7	917	25	98	193
Gibbings, Alfred H., Liverpool, England. Electrical switch.	706,406	Dec. 23	3424	717 718	101	2396
Gibboney, Samuel J., Mount Pleasant, Pa. Window-lock.	702,198	June 10	1654	371	99	2466
Gibboney, Samuel J., Mount Pleasant, Pa. Railway-tie.	711,335	Oct. 14	1761	381	101	381
Gibbons, Pierce F., assignor of two-thirds to E. G. Barfus and C. E. Kester, Chicago, Ill. Mechanical boiler-cleaner.	702,939	June 24	3047	701	99	2700
Gibbons, Robert J., Chicago, Ill. Water-heater.	709,091	Sept. 16	2085	478	100	2439
Gibbons, Wallace A. (See Kidd and Gibbons.)						
Gibbs, Antony, Bristol, England. Utilizing power in velocipedes.	694,264	Feb. 25	3005	896 897	98	1661
Gibbs, Charles, New York, N. Y. Electrical type-writer.	710,264	Sept. 30	4399	990 991	100	2949
Gibbs, Clarence A., Guardian. (See Hazard, Clark D.)						
Gibbs, George. (See Howard and Gibbs.)						
Gibbs, George, assignor to S. H. and S. V. St. John, Canon City, Colo. Explosive-engine.	703,724	July 1	645	143	100	129
Gibbs, Glenn D., Pittsburg, Pa. Stop-cock for gas-burners.	701,315	July 8	1766	385	100	371
Gibbs, Harry D. (See Smith and Gibbs.)						
Gibbs, Henry, assignor to W. D. Allen Manufacturing Company, Chicago, Ill. Hose-nozzle.	690,384	May 6	482	113	99	1273
Gibbs, Howard W., assignor to W. Hall & Co., Boston, Mass. Brake-handle.	707,692	Aug. 26	3259	729	100	1833
Gibbs, James E., assignor of one-half to C. P. Ehrenman, Staunton, Va. Sash-fastener.	709,148	Sept. 16	2179	499	100	2460
Gibbs, James G., Nemaha, Iowa. Washing-machine.	707,693	Aug. 26	3261	729	100	1838
Gibbs, John W. (See Fowler, Jonathan O., Jr., assignor.)						
Gibbs, John W., New York, N. Y. Electric roller for massage and therapeutical purposes.	707,508	Aug. 19	2856	647	100	1739
Gibbs, Loren C., Leslie, Mich. Holder for train-orders.	710,265	Sept. 30	4401	991	100	2950
Gibbs, Lucius T., New York, assignor to Vehicle Equipment Company, Brooklyn, N. Y. Wheel-hub.	700,092	May 13	1749	404	99	1548
Gibbs, Sabin A., Tacoma, Wash. Magnetic traction.	695,383	Mar. 11	1971	441	98	2143
Gibbs, William E., Fanwood, assignor of one-half to H. Berg, Orange Valley, N. J. Feed-regulator for motors.	691,259	Jan. 14	1658	377	98	361
Giberson, Hamilton, Northumberland, assignor of one-half to W. H. Kimball, Stratford, N. H. Mop-wringer.	712,394	Oct. 28	3646	796	101	801
Gibler, C. M. (See McNaught, Ira S., assignor.)						
Giblin, Charles, Cleveland, Ohio. Car-fender.	705,918	July 29	5004	1089	100	1072
Gibney, Harry J. (See Smith, Claude R., assignor.)						
Gibon, Theodore, Clarksville, Tenn. Aeroplane.	710,266	Sept. 30	4402	991 992	100	2950
Gibson, Albert, Providence, R. I. Toy.	715,782	Dec. 16	2160	483	101	2316
Gibson, Albert E., Reading, Pa. Non-refillable bottle.	695,044	Mar. 11	1965	300	98	2048
Gibson, Cecil E., Indianapolis, Ind. Keeper for fire-alarm-box keys.	715,188	Dec. 30	5073	1101	101	2672
Gibson, Charles G., Sioux City, Iowa. Dilator.	702,530	June 27	2736	634	99	2713
Gibson, Edward, Jersey City, N. J. Steam-blower.	715,255	Dec. 6	1158	247	101	2691
Gibson, Edward, Jersey City, N. J. Steam-boiler setting.	715,256	Dec. 9	1160	248	101	2691
Gibson, Edward T., Fort Harrison, Mont. Cartridge-carrier.	693,044	Feb. 11	1450	315	98	1123
Gibson, Frank W., St. Louis, Mo. Toy bowling-alley.	706,925	Aug. 12	1784	390	100	1498
Gibson Heater Company. (See Gibson, William A., assignor.)						
Gibson, James S. (See Quarrie, Morgan, Gibson, and Coatsworth.)						
Gibson, John, Hartwell, assignor to John Van Range Company, Cincinnati, Ohio. Vessel-cover reciprocating and oscillating mechanism.	693,258	Feb. 11	1971	428	98	1290
Gibson, Josiah, Parkridge, Ill. Educational card.	705,579	July 29	4389	952	100	949
Gibson, Levi D., assignor of two-thirds to R. Loflin, Thurber, and H. F. Scheer, Dallas, Tex. Mechanical movement.	716,028	Dec. 16	2663	587	101	2424
Gibson, O. B., Thayer, Iowa. Device for brushing flies from cattle and trapping same.	701,873	June 10	1956	237	99	2344
Gibson, Randa S. L. (See Osestved and Gibson.)						
Gibson, Robert W., Palestine, Tex., and W. N. Best, Los Angeles, Cal., assignors of one-half to J. H. and E. Best, Quincy, Ill. Pneumatic sand-flue and netting cleaner.	710,855	Oct. 7	878	191	101	178
Gibson, William A., assignor to Gibson Heater Company, Muscatine, Iowa. Feed-water heater and purifier.	715,656	Dec. 9	1896	423	101	2240
Gibson, Winfield H., Homestead, and H. Wessling, Hopechurch, Pa. Producing silica bricks.	701,707	June 3	771		99	2270
Gibson, Winfield H., Homestead, and H. Wessling, Hopechurch, Pa. Silica brick.	701,708	June 3	771		99	2270
Giddens, Benjamin F., assignor of one-half to D. B. Ryland, Lynchburg, Va. Watch-protector.	716,530	Dec. 23	3670	802	101	2647
Gienow, William, New York, N. Y. Book-edge-gilding press.	711,490	Oct. 21	2103	456	101	466
Gierding, Charles E., assignor to New Haven Car Register Company, Westhaven, Conn. Fare-register.	692,513	Feb. 4	522	123 124	98	904
Giere, Ole A. (See Lillo and Giere.)						
Giersberg, Erich, assignor to Sauerstoff-Fabrik Berlin, G. M. B. H., Berlin, Germany. Respiratory apparatus.	693,795	Feb. 18	2980	658	98	1458
Gieshoidt, Josef, Dusseldorf, Germany. Apparatus for rolling solid or hollow bodies.	691,540	Jan. 21	2213	497 498	98	496

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Gieshoidt, Josef, Dusseldorf, Germany. Machine for drawing tubes	704,816	July 8	1767	386	100	371
Gieshoidt, Josef, Dusseldorf, Germany. Manufacture of spiral-shaped or helically-twisted bodies	714,890	Dec. 2	505	105	101	1937
Giesler, Arthur, assignor to Stilwell-Bierce & Smith-Vaile Co., Dayton, Ohio. Turbine-water-wheel system	708,056	June 24	3273	754	99	2835
Giesler, Arthur, assignor to Stilwell-Bierce & Smith-Vaile Co., Dayton, Ohio. Horizontal-water-wheel system	705,908	July 29	5133	1119	100	1099
Giesler, Arthur, assignor to Stilwell-Bierce & Smith-Vaile Co., Dayton, Ohio. Turbine-water-wheel system	705,994	July 29	5134	1119	100	1099
Giesler, Arthur, assignor to Stilwell-Bierce & Smith-Vaile Co., Dayton, Ohio. Digester	712,127	Oct. 28	3302	737	101	744
Giesler, Arthur, assignor to Stilwell-Bierce & Smith-Vaile Co., Dayton, Ohio. Drier	712,128	Oct. 28	3304	737	101	744
Giesler, Arthur, assignor to Stilwell-Bierce & Smith-Vaile Company, Dayton, Ohio. Relief-valve for air-compressors	714,295	Nov. 25	3503	790	101	1600
Giesler, Arthur, assignor to Stilwell-Bierce & Smith-Vaile Company, Dayton, Ohio. Cover for tanks	714,296	Nov. 25	3505	791	101	1621
Giesler, Franklin B., Milwaukee, Wis. Rotary steam-drier	694,306	Mar. 4	4	10	98	1730
Giesler, Ralph E. (See Johnston, Moses F., assignor.)						
Giesel, Henry, Chicago, Ill. Cooking utensil	697,472	Apr. 15	2020	450	99	408
Giesler, Ernest A., Boston, Mass. Ventilating-window	691,230	Jan. 14	1050	378	98	361
Gifford, Frank B., et al. (See Black, William C., assignor.)						
Gifford, George H., Lynn, Mass. Pressing-form for sole-making machines	691,367	Mar. 4	43	11	98	1721
Gifford, Robert L., et al. (See Nistle, George W., assignor.)						
Gihon, William, Chicopee, Mass. Spinning-spindle	701,808	June 3	936	208	99	2304
Gihon, William, Chicopee, Mass., assignor of one-half to M. A. Remick, Augusta, Me. Spinning-spindle	701,709	June 3	772	111	99	2270
Gilardoni, Xavier P., assignor to Se Dite Gilardoni Fils. A. Brault et Cie., Choisy-le-Roi, France. Tire-press	706,026	Aug. 12	1785	399	100	1499
Gilbert, Charles L., Cleveland, Ohio. Traveling-bag	695,149	Mar. 11	1564	346	98	2060
Gilbert, Charles L., Cleveland, Ohio. Telescope case	693,488	Apr. 29	3916	865	99	802
Gilbert, Clark, Bridgeport, Ohio. Electric arc lamp	698,931	Apr. 29	4810	1068	99	1094
Gilbert, Estella F. (See Gilbert, Joseph E., assignor.)						
Gilbert, Frederick, Seymour, Conn., assignor to L. E. Waterman, deceased, Brooklyn, N. Y.; F. D. Waterman, executor. Safety fountain-pen	692,009	Jan. 28	3101	696	98	694
Gilbert, Frederick A., deceased; E. O. Lundin, Boston, Mass., W. A. Paine, and E. W. Burdett, administrators. Maintaining uniform resistance in arc-lamp circuits	710,068	Sept. 30	4011	955	100	2867
Gilbert, Frederick A., Brookline, and E. O. Lundin, Beachmont, Mass., assignors to General Electric Company. Electric arc lamp	706,547	Aug. 12	1074	237	100	1348
Gilbert, Frederick A., Brookline, and E. O. Lundin, Beachmont, Mass., assignors to General Electric Company. Apparatus for maintaining uniform resistance in electric circuits	710,052	Sept. 30	3985	809	100	2861
Gilbert, Frederick J. S., New Orleans, La. Printing-frame	712,295	Oct. 28	3647	796	101	801
Gilbert, Frederick M. (See Ostenberg, John A., assignor.)						
Gilbert, Joseph E., assignor of one-half to E. F. Gilbert, Dansville, Mich. Currycomb	693,259	Feb. 11	1972	429	98	1230
Gilbert, Manley I., Wathena, Kans. Parallel railway-rail bearing	697,081	Apr. 8	1340	297	99	304
Gilbert, Meritt C., Battlereck, Mich. Valve for gas-burners	695,637	Mar. 18	2446	553	98	2259
Gilbert-Stringer, Henry J. S., Westbourne Park, London, England. Apparatus for casting and composing types	690,720	Jan. 7	697	153	98	147
Gilbert-Stringer, Henry J. S., London, England. Type-mold	691,619	Jan. 21	2362	531	98	525
Gilbert, Theodore M. (See Gilbert and Nash.)						
Gilbert, Truman H. (See Bradley and Gilbert.)						
Gilbert, Wilbur F., assignor to P. & F. Corbin, New Britain, Conn. Window-stop-adjusting device	697,139	Apr. 8	1425	317	99	323
Gilbert, Wilbur F., assignor to P. & F. Corbin, New Britain, Conn. Door-knob	699,515	May 6	728	169	99	1326
Gilbert, William H., Toledo, Mo. Lawn-mower sharpener	692,846	Feb. 11	1118	250	98	1053
Gilbert, William M., and T. M., and W. C. Nash, Neenah, Wis. Wire or felt guide for paper-making machines	694,368	Mar. 4	45	11,12	98	1721
Gilbert, William M., and T. M., and W. C. Nash, Neenah, Wis. Suction-box cover for paper-making machines	708,219	Sept. 2	417	96	100	2066
Gilchrist, Vincent T., Benecia, assignor to Baker & Hamilton, San Francisco, Cal. Land-gage attachment for plows	711,892	Oct. 21	2880	637	101	632
Gilchrist, Vincent T., Benecia, assignor to Baker & Hamilton, San Francisco, Cal. Combined stop and release mechanism for plows	712,371	Oct. 28	3775	826	101	829
Gildard, Christopher G. (See Coldwell and Gildard.)						
Giles, Azro M., Dickinson Center, N. Y. Saw-set	708,762	Sept. 9	1385	317	100	2276
Giles, Frederick T., Bristol, England. Axle-cap	715,367	Dec. 9	1367	294	101	2135
Giles, Harvey. (See Smith and Giles.)						
Giles, Harvey, South Boundbrook, N. J. Measuring-scale	714,172	Nov. 25	3318	737	101	1641
Giles, Isaac W., New Bedford, assignor to Atlas Tack Company, Fairhaven, Mass. Eye-let	702,199	June 10	1055	371	99	2466
Giles, John S., Chicago, Ill. Jar-cover fastening	717,388	Dec. 30	5410	1176	101	3045
Giles, William F., Chester, Pa. Building construction	710,679	Oct. 7	540	112	101	110
Giletti, Secondo, San Francisco, Cal. Building construction	716,029	Dec. 16	2664	587	101	2424
Gillfillan, Essington N., and E. T. McKaig, Chicago, Ill., assignors to New York Labelling Machine Company. Labeling-machine	692,055	Jan. 28	3192	720	98	712
Gillfillan, Essington N., and E. T. McKaig, Chicago, Ill., assignors to New York Labelling Machine Company. Labeling-machine	694,915	Mar. 4	1109	245	98	1946
Gill, Arthur B. (See Preston and Gill.)						
Gill, Arthur B., London, assignor to J. Stone and Company, Deptford, England. Apparatus for electrically lighting railway-trains	711,421	Oct. 14	1956	426	101	422
Gill, Charles C. (See Tucker, Benjamin W., assignor.)						
Gill, Edwin R., Englewood, N. J. Self-propelled vehicle	703,649	July 1	500	113	100	98
Gill, Edwin R., New York, N. Y. Electric battery	705,919	July 29	5006	1090	100	1073
Gill, Edwin R., Englewood, N. J., assignor to Invention Developing Company. Elevator	690,944	Jan. 14	1083	244	98	242
Gill, Edwin R., Englewood, N. J., assignor, by mesne assignments, to Electrite Company. Means for controlling electric or other motors	694,369	Mar. 4	47	12	98	1721
Gill, Edwin R., Englewood, N. J., assignor, by mesne assignments, to Otis Elevator Company. Elevator	701,326	June 3	85	18	99	2126
Gill, Edwin R., New York, N. Y., assignor to Invention Developing Company. Automatic actuator for power-regulators	694,370	Mar. 4	50	13	98	1722
Gill, Edwin R., New York, N. Y., assignor to Invention Developing Company. Elevator	707,839	Aug. 26	3593	812	100	1903



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Gill, Edwin R., New York, N. Y., assignor to Invention Developing Company. Means for winding converters or like articles	708,220	Sept. 2	419	96	100	2067
Gill, Edwin R., New York, N. Y., assignor to Invention Developing Company. Transformer and means for winding same	714,891	Dec. 2	505	105	101	1937
Gill, Edwin R., New York, N. Y., assignor, by mesne assignments, to Otis Elevator Company. Elevator	705,338	July 22	3879	889	100	834
Gill, Ernest A., Gloucester, Mass. Fog-horn	703,400	July 1	66	13	100	16
Gill, Henry J., Clonskeagh, Ireland. Hypodermic syringe	713,980	Nov. 18	2943	653	101	1536
Gill, James B., San Francisco, Cal. Toll-collecting and call-recording device for telephone systems. (Reissue)	712,015	July 22	4328	935	100	922
Gill, John E., Franklin, Pa. Device for lubricating car-journals	701,029	May 27	3748	858	99	1998
Gill, John E., Franklin, Pa. Car-axle lubricator	701,030	May 27	3750	858	99	1998
Gillarduzzi, Arcangelo, Philadelphia, Pa. Band-saw guide and tension device	697,711	Apr. 15	2481	554	99	536
Gillaspy, Leonard, assignor of one-half to D. A. Mayer, Sturgeon, Mo. Vehicle-top	706,816	Aug. 12	1582	355	100	1457
Gillenwater, Edward, et al. (See Richards, Jesse D., assignor.)						
Gilleran, Luke, Woonsocket, R. I. Kettle	702,055	June 10	1413	316	99	2417
Gillespie, Alfred J., assignor to Standard Voting Machine Company, Rochester, N. Y. Voting-machine	712,090	Nov. 11	1185	271	101	1157
Gillespie, Charles W., Tascosa, Tex. Stirrup	704,184	July 8	1544	332	100	324
Gillespie, George W., London, Canada. Self-adjusting electromagnetic circuit-closing mechanism	693,262	Feb. 11	1977	430	98	1231
Gillespie, M. M. (See Christopherson, Louis B., assignor.)						
Gillespie, Robert T., Rochester, Pa. Currycomb	693,260	Feb. 11	1974	429	98	1230
Gillespie, Robert T., Rochester, Pa. Thill-support	693,261	Feb. 11	1975	429	98	1230
Gillespie, Robert T., Rochester, Pa. Fountain-pen	708,321	Sept. 2	420	96	100	2067
Gillespie, Robert T., Rochester, Pa. Reservoir-pen	709,290	Sept. 16	2409	546	100	2307
Gillespie, Robert T., Rochester, Pa. Reservoir-pen	711,958	Oct. 28	3040	668	101	682
Gillespie, Thomas A., West Orange, N. J. Lock-bar pipe	713,091	Nov. 11	1191	272	101	1158
Gillet, Martin, Arlington, Mass., assignor to J. G. Jordan, trustee, Merchantville, N. J. Machine-belt	706,044	Aug. 5	81	17	100	1133
Gillett, Asa D., Lake City, Minn., and J. H. Gillett, Everett, Wash. Variable cut-off	694,057	Feb. 25	3532	778	98	1587
Gillett, James H. (See Gillett, Asa D. and J. H.)						
Gillette, Halbert P., assignor to J. S. Gillette, Rochester, N. Y. Mutoscope	606,869	Apr. 1	889	205	99	188
Gillette, Harleigh, Highland Park, Ill. Electric clock	706,817	Aug. 12	1583	355	100	1457
Gillette, Julia S. (See Gillette, Halbert P., assignor.)						
Gillham, Edward L., Madison county, Ill. Plow	715,257	Dec. 9	1161	248	101	2092
Gilliam, John A., trustee. (See Anderson, Edward L., assignor.)						
Gilliam Manufacturing Company. (See Sell, William E., assignor.)						
Gilligan, Michael J., et al. (See Linscott, William D., assignor.)						
Gilliland, Andrew W., St. Louis, Mo. Fume-arrester	709,896	Sept. 30	3693	833	100	2799
Gilliland, John W. (See Moore, Marcus D., assignor.)						
Gillinder, Frederick R. (See Stutz, Frederick, assignor.)						
Gillinder, Frederick R., Philadelphia, Pa., assignor to Gillinder & Sons. Fish-jar or aquarium	715,571	Dec. 9	1756	388	101	2211
Gillinder, Frederick R., and K. Booth, Philadelphia, Pa., assignors to Gillinder & Sons, Incorporated. Snaps for finishing glassware	704,790	July 15	2639	571	100	566
Gillinder & Sons. (See Gillinder, Frederick R., assignor.)						
Gillinder & Sons. (See Gillinder and Booth, assignors.)						
Gilling, Charles J., Chicago, Ill. Tire for vehicle-wheels	701,558	June 3	505	111	99	2212
Gillis, Harry A., assignor to Richmond Locomotive Works, Richmond, Va. Spring-hanger for underhung locomotive-springs	680,851	Jan. 7	918	205	98	194
Gillis, Harry B., assignor of one-half to M. Lang, Mishawaka, Ind. Bicycle	704,317	July 8	1768	386	100	372
Gillis, John. (See Boyd and Gillis.)						
Gillispie, James C., Waltham, Mass. Hinge	691,690	Jan. 21	2364	532	98	525
Gilljam, Hubert, Laurensburg, Germany. Carding-machine	709,980	Sept. 30	3865	870	100	2835
Gillmor, John E., Jersey City, N. J., assignor to Union Switch and Signal Company, Swissvale, Pa. Automatic switch-lock	709,629	Sept. 23	3155	703	100	2676
Gilman, Edward R., assignor to Iron Clad Manufacturing Company, New York, N. Y. Garbage or refuse can	697,473	Apr. 15	2040	450	99	468
Gilmer, John T., Mobile, Ala. Turpentine-still	709,315	Sept. 16	2518	567	100	2531
Gilmore, Alfred C., Chicago, Ill. Automatic telegraph	695,203	Mar. 11	1650	368	98	2078
Gilmore, Charles B., assignor to Winslow Bros. Co., Chicago, Ill. Mechanism for operating elevator-doors	699,305	May 6	331	70	99	1241
Gilmore, David G. (See Finney, John H., assignor.)						
Gilmore, Elbert J., Lowell, Mass. Salt cellar or dredge	693,005	Feb. 11	1451	315	98	1124
Gilmore, Howard, Boston, Mass. Incandescent electric lamp	706,313	Aug. 5	624	136	100	1242
Gilmore, Howard, Boston, Mass. Compound incandescent electric lamp	706,314	Aug. 5	626	137	100	1242
Gilmore, Ira F., Bloomington, Ill. Wireless piano	699,840	May 13	1377	319	99	1472
Gilmore, Thomas N. (See McCoy and Gilmore.)						
Gilmore, Winfield S., New York, N. Y. Package-carrier	700,333	May 20	2382	543	99	1696
Gilmour Alkali Manufacturing Syndicate. (See Gilmour, James D., assignor.)						
Gilmour, James D., assignor to Gilmour Alkali Manufacturing Syndicate, Limited, Glasgow, Scotland. Apparatus for the electrolytic decomposition of alkaline salts	695,302	Mar. 11	1851	412	98	2117
Gilpatrick, Nehemiah, St. Johnsbury, Vt. Impact-engine	698,271	Apr. 22	3338	780	99	709
Gilpin, William M., Thomas, W. Va. Combined metallic tie and rail-clamp	694,737	Mar. 4	774	172	98	1875
Gilson, Bert D., Alexandria, Ind. Overhead-trolley electric railway	693,351	Feb. 11	2141	470	98	1266
Gilson, John, Port Washington, Wis. Metal-founding	696,085	Mar. 25	3177	717	98	2423
Gilson, John, Port Washington, Wis. Grinding-machine	701,081	May 27	3751	858	99	1999
Gilson, John E., assignor to Gilson Manufacturing Company, Port Washington, Wis. Chair	715,258	Dec. 9	1162	248	101	2092
Gilson Manufacturing Company. (See Gilson, John E., assignor.)						
Giltz, Conrad, Lafargeville, N. Y. Veterinary obstetric instrument	704,629	July 15	2355	512	100	507
Giltz, Goodlow P., et al. (See Anderson, Frank C., assignor.)						
Gimmig, Emile M. A., Paris, and H. Derenaucourt, Levallois-Perret, France. Parcel-carrier	715,051	Dec. 2	778	165	101	1994
Gimonet, Alexandre. (See Frenot and Gimonet.)						
Gimson, Arthur J. (See Gimson, Josiah M., J. A. J., and S. A.)						
Gimson, Josiah. (See Gimson, Josiah M., J. A. J., and S. A.)						
Gimson, Josiah M., J. A. J., and S. A., Leicester, England. Knife, cutter, or dieing-out instrument	709,008	Sept. 16	1899	435	100	2400

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Gimson, Sydney A. (See Gimson, Josiah M., J., A. J., and S. A.)						
Gin, Gustave, Paris, France. Manufacturing ferrosilicon and silicospiegel.	712,925	Nov. 4	865		101	1074
Gindele, William J. (See Garretson, Frank B., assignor.)						
Ginn, Robert J. (See Dunahoo, James M., assignor.)						
Ginter, Otto. (See Kautner, Ralph, assignor.)						
Giorgetti, Giovanni, Boston, T. J. Fuyat, Hudson, and D. Federigo, Boston, Mass. Siphon-pump	697,835	Apr. 15	2697	599	99	604
Giorgio, Francis A., assignor of one-half to C. E. Houghton, Baltimore, Md. Roller-bracket for window shades and curtains	705,339	July 22	3882	840	100	834
Giovanna, George, New York, N. Y. Parser and cutter	702,419	June 17	2057	468	99	2508
Gipson, Thomas J., et al. (See Logan, Crawford D., assignor.)						
Girardot, Léonce. (See Charron and Girardot.)						
Girdwood, John, Edinburgh, Scotland. Bat or racket for game known as ping-pong or table-tennis	703,911	July 1	989	215	100	198
Girin, Pierre, assignor to Ste. Ame. de Commentry-Fourchambault et Decazeville, Paris, France. Rolling-mill	706,548	Aug. 12	1076	237	100	1348
Giriot, Joseph, Jette St. Pierre, assignor to Société Générale du Laminage Annulaire pour la Fabrication de Châsses Sans Soudure, Brussels, Belgium. Apparatus for making chains	704,185	July 8	1545	333	100	324
Giroux, Joseph L., Jerome, Ariz. Ter. Steam-generator	702,550	June 17	2293	522	99	2517
Giroux, Joseph L., Jerome, Ariz. Ter. Steam-generator	704,743	July 15	2564	533	100	550
Giroux, Joseph L., Jerome, Ariz. Ter. Steam-generating furnace	713,296	Nov. 11	1631	368	101	1246
Girtanner, Frederick, assignor of one-half to S. L. Simpson, New York, N. Y. Furnace grate and stoker	692,263	Feb. 4	90	21, 22	98	817
Girty, Frank, administrator. (See Morgan, Alfred W., assignor.)						
Gissler, August, Cocos Island, off Costa Rica. Brush	690,752	May 13	1203	289	99	1435
Gittings, Kinzie K., Chilhowee, Mo. Hay-press	694,626	Mar. 4	553	121	98	1830
Giannotte, Francois, Charleroi, Belgium. Hydraulic apparatus for the manufacture of window-glass	713,758	Nov. 18	2509	558	101	1447
Giussani, Tomaso, Milan, Italy. Preserving wood	707,224	Aug. 19	2343	524	100	1632
Giussani, Tomaso, Milan, Italy. Apparatus for impregnating wood	713,690	Nov. 18	2274	506	101	1395
Given, Chester, et al. (See Le Mond, George E., assignor.)						
Givier, Albert F., Redcloud, Nebr. Wrench	699,675	May 13	1054	246	99	1405
Glaeken, Hugh, Conroe, Tex. Egg-preserving apparatus	693,598	Feb. 18	2636	581	98	1387
Glaekin, Peter F., assignor to Standard Sanitary Mfg. Co., Pittsburg, Pa. Automatic flushing-tank	694,627	Mar. 4	556	122	98	1830
Glaekin, Peter F., assignor to Standard Sanitary Manufacturing Company, Pittsburg, Pa. Hinge for water-closet seats	694,628	Mar. 4	557	122	98	1831
Glaekin, Peter F., Allegheny, assignor to Standard Sanitary Mfg. Co., Pittsburg, Pa. Flushing apparatus	694,629	Mar. 4	559	122	98	1831
Gladwell, Arthur. (See Collard, George, assignor.)						
Gladwin, Edmund C., Oakland, Cal. Mustache-guard	702,700	June 17	2757	634	99	2714
Glaentzer, George W. (See Marsh, Riverius, assignor.)						
Glawke, Charles E., Los Angeles, Cal. Baker's oven	708,975	Sept. 9	1834	420	100	2366
Glahn, John E., Quincy, Ill. Tie	716,704	Dec. 23	4009	877	101	2720
Gladson, Henri, Galveston, Tex. Paddle-wheel	697,712	Apr. 15	2483	554	99	557
Glascock, Charles O. and J. W. Muncie, Ind. Baby-walker	687,474	Apr. 15	2042	451	99	469
Glascock, Harold W., Rensselaer, Mo. Folding binder-reel	691,901	Jan. 28	2906	654	98	656
Glascock, John W. (See Glascock, Charles O. and J. W.)						
Glaszow, Bruce M., assignor, by mesne assignments, to E. Rieser, New York, N. Y. Machine for filling bottles	705,229	July 22	3620	784	100	788
Glass, Abraham E., assignor to J. Back, Vienna, Austria-Hungary. Impregnating paper or pasteboard	703,341	June 24	3800		99	2943
Glass, Perley R., Quincy, Mass., assignor to Peerless Machinery Company, Charleston, W. Va., and New York, N. Y. Tack-driving mechanism	695,384	Mar. 11	1972	441	98	2144
Glass, Perley R., Quincy, Mass., assignor to Peerless Machinery Company, Charleston, W. Va., and New York, N. Y. Nailing apparatus	695,385	Mar. 11	1974	442	98	2144
Glass, Perley R., Quincy, Mass., assignor to Peerless Machinery Company, Charleston, W. Va., and New York, N. Y. Nailing-machine	695,428	Mar. 11	2041	458	98	2158
Glass, Perley R., Quincy, assignor to Peerless Machinery Company, Boston, Mass. Eye-letting-machine	701,261	May 27	4156	955	99	2082
Glass, Perley R., Quincy, assignor to Peerless Machinery Company, Boston, Mass. Eye-letting-machine	701,262	May 27	4158	956	99	2082
Glass, Perley R., Quincy, assignor to Peerless Machinery Company, Boston, Mass. Eye-letting-machine	701,263	May 27	4162	956	99	2082
Glass, Robbie E., Seecsville, Ohio. Hair-fastener	701,479	June 3	365	81	99	2183
Glasser, Charles T. (See Conner, William S., assignor.)						
Glatz, Joseph, Brooklyn, N. Y. Rendering and drying apparatus	700,093	May 13	1750	404	99	1548
Glauber, Isaac N., Cleveland, Ohio. Plug for water and steam cocks	698,007	Apr. 22	3025	665	99	692
Glauber, Isaac N. and J. H., Cleveland, Ohio. Plug and coupling for water or steam pipes	704,821	July 15	2719	588	100	582
Glauber, Joseph H. (See Glauber, Isaac N. and J. H.)						
Glaus, Christian, Milwaukee, Wis. Butter-cutting machine	701,874	June 10	1057	238	99	2344
Gleason, Byron H., assignor of one-half to A. T. Van Valkenburgh, Canastota, N. Y. Dump-wagon	704,318	July 8	1769	396	100	372
Gleason, Edward M., Neenah, Wis. Stove-damper	704,319	July 8	1772	387	100	372
Gleason, Frank J., Vanvert, Ohio. Blow-propelling device	704,186	July 8	1546	333	100	324
Gleason, George. (See Belfield, Shearer, Findlay, and Belfield, assignors.)						
Gleason, John H., Troy, N. Y. Railway-tie	692,264	Feb. 4	94	22	98	818
Gleason, Oscar, Putnam, Conn., assignor to Draper Company, Hopedale, Mass. Loom-shuttle	697,713	Apr. 15	2484	554	99	557
Gleason, William, South Glens Falls, N. Y. Limekiln	693,599	Feb. 18	2637	581	98	1388
Gleason, William J., assignor of one-half to J. Megonigal, Philadelphia, Pa. Lawn-mower attachment	703,650	July 1	503	113	100	99
Gleazen, Silas, Casper, Wyo. Fire-heater	701,710	June 3	774	111	99	2270
Gleazier, Henry. (See Schanbacher, Orrville L., assignor.)						
Gleeson, Joseph P. (See Shippe and Gleeson.)						
Gleeson, Margaret M. (See Henneberry and Gleeson.)						
Gleizes, Sylvain, Paris, France. Device for closing and interrupting electrical circuits. Glen Rock Stamping Company. (See McCauley, Charles H., assignor.)	696,169	Mar. 25	3463	776	98	2483
Glendy, John W., Dublin, Va. Reversible plow	709,439	Sept. 16	2767	623	100	2533
Glenn, George G., assignor to W. G. Lumsden, Hamilton, Canada. Mop head and wringer	717,091	Dec. 30	4833	1051	101	2924
Glenn, James N. (See Mitchell, George L., assignor.)						
Glenn, John, Kenton, Ohio. Pitman connection	700,910	May 27	3514	806	99	1949



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Glenn, Martin, Cincinnati, Ohio. Pipe-vise.....	716,217	Dec. 16	3057	667	101	2506
Glenn, Robert J., Verona, Ill. Dumping-wagon.....	708,134	Sept. 2	251	60	100	2084
Glenn, William H., et al. (See Boorman and Sharp, assignors.)						
Glessner, Frank. (See Lee and Glessner.)						
Glessner, William B., Crystal Springs, Kans. Carriage top and curtain.....	707,915	Aug. 26	3736	837	100	1932
Glickman, Julius M., Cleveland, Ohio. Paper-hanging machine.....	696,672	Apr. 1	523	121	99	113
Glickman, Pincus. (See Goldin, Mayer, assignor.)						
Glisson, Lloyd C., Statesboro, Ga. Fire-shield.....	714,794	Dec. 2	289	62, 63	101	1896
Glisson, Lloyd C., Statesboro, Ga. Faucet.....	715,250	Dec. 9	1163	249	101	2092
Gloag, Alfred M., and R. W. J. Fletcher, Edinburgh, Scotland. Driving mechanism.....	712,058	Oct. 28	3337	708	101	719
Globe Iron Works. (See White, Clarence O., assignor.)						
Globe Trading Company. (See Harris, John N., assignor.)						
Globe-Wernicke Company. (See Tobey, Fred W., assignor.)						
Glosser, William H., Forsyth, assignor of one-half to G. L. Jones, Emery, Ill. Marker bar for planters.....	704,791	July 15	2640	371	100	566
Glosser, William H., Forsyth, and G. L. Jones, Emery, Ill. Means for manipulating marker bars of planters.....	715,475	Dec. 9	1563	339	101	2173
Glossop, Gilbert J., Leeds, England. Tool for making, mending, and sharpening rock-drills.....	697,244	Apr. 8	1602	360	99	359
Glou, Isidor. (See Glou, Wolf and I.)						
Glou, Wolf and I., Scranton, Pa. Self-closing gas-burner.....	693,352	Feb. 11	2143	470	98	1266
Glover, Charles, New Britain, Conn. Knob attachment.....	692,365	Feb. 4	95	22	98	818
Glover, Charles, New Britain, Conn. Knob attachment.....	692,266	Feb. 4	97	23	98	818
Glover, Charles, New Britain, Conn. Velocipede-bearing.....	695,682	Mar. 18	2521	571	98	2773
Glover, Charles, assignor to P. & F. Corbin, New Britain, Conn. Coaster-brake or the like.....	696,103	Mar. 25	3175	717	98	2124
Glover, Charles, assignor to P. & F. Corbin, New Britain, Conn. Coaster-brake.....	716,407	Dec. 23	3127	745	101	2506
Glover, Charles, New Britain, Conn., assignor to P. & F. Corbin. Coaster-brake.....	691,541	Jan. 21	2214	498	98	496
Glover, Charles, New Britain, Conn., assignor to P. & F. Corbin. Coaster-brake.....	706,549	Aug. 12	1077	238	100	1349
Glover, Charles, New Britain, Conn., assignor to P. & F. Corbin. Coaster-brake.....	709,479	Sept. 23	2888	645	100	2622
Glover, Charles, New Britain, Conn., and N. W. Haskins, Brooklyn, N. Y., assignors to P. & F. Corbin, New Britain, Conn. Wheel-hub brake.....	692,267	Feb. 4	98	23	98	818
Glover and Company, George. (See Cox, William, assignor.)						
Glover, Francis W., assignor to C. L. Sanford, Chicago, Ill. Rack for hand-stamps.....	698,272	Apr. 22	3542	780	99	799
Glover, Theodore S., East Norwalk, assignor of one-half to C. E. Crabbe, Stamford, Conn. Sparking device for explosive-engines.....	710,771	Oct. 7	714	151	101	116
Glover, William J., St. Helens, England. Wire-drawing.....	698,273	Apr. 22	3544	780	99	800
Glover, William J., St. Helens, England. System of erecting and adjusting bridge suspension-cables.....	709,316	Sept. 16	2521	568	100	2532
Glowacki, Erazm, Mielnica, Austria-Hungary. Air-motor.....	705,831	July 29	4840	1053	100	1041
Gloystein, Christian F., Henderson, Ky. Obtaining tobacco extract and nicotine.....	711,924	Oct. 21	2959	651	101	647
Glück, Joseph, assignor of one-half to G. Vogt, New York, N. Y. Rocking couch.....	712,372	Oct. 28	3776	826	101	830
Glynn, Cyrus L. (See Wynan, Albert O., assignor.)						
Glynn, Michael, Otterbein, Ind. Wind-stacker.....	700,760	May 27	3237	742	99	1892
Glynn, Patrick F., Adrian, Minn. Clothes-pounder.....	704,630	July 15	2356	512	100	507
Glynn, Thomas E., et al. (See Laux, Mathias, assignor.)						
Gmeiner, Max H. (See Seifert, Philipp, and Gmeiner.)						
Gnezdá, Anton, and F. Húcker, Agram, Austria-Hungary. Support for casement-windows.....	703,401	July 1	68	13	100	16
Goade, Richard J., Allentown, Pa. Filter and filtering system.....	713,759	Nov. 18	2510	558 559	101	1447
Gobbe, Emile, Jumet, Belgium. Glass-making furnace.....	698,932	Apr. 29	4841	1068 1069	99	1091
Goblich, George. (See Bradet, George H., assignor.)						
Goddard, Council T., Petitcodiac, Canada. Bauxite-truck.....	691,542	Jan. 21	2217	498	98	497
Goddard, Albert J., et al. (See Okey, George B., assignor.)						
Goddard, Frank C., Akron, Ohio. Motor-vehicle.....	709,397	Sept. 30	3695	833	100	2799
Goddard, Frederick M., assignor to G. Westinghouse, Pittsburg, Pa. Circuit-breaker for electric-lamp glowers.....	710,356	Sept. 30	4554	1027 1271 1272	100	2982
Goddard, George F., St. Louis, Mo. Filter.....	711,046	Oct. 14	1244		101	272
Goddard, Hutsell. (See Graham and Goddard.)						
Goddard, Joseph, assignor to Rochester Optical & Camera Co., Rochester, N. Y. Photographic-plate holder.....	700,034	May 13	1751	404	99	1548
Goddard, Roland and W. F., Orwell, Ohio. Machine for weaving basket-blanks.....	691,621	Jan. 21	2366	532 533	98	526
Goddard, William F. (See Goddard, Roland and W. F.)						
Godfrey, Alexander, Haverhill, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Take-up and tension for sewing-machines.....	706,045	Aug. 5	82	18	100	1133
Godfrey, Henry W., Staines, England. Linoleum-press.....	699,753	May 13	1205	281	99	1435
Godfrey, Horace S., Chicago, Ill. Freight-car.....	709,009	Sept. 16	1900	436	100	2400
Godshalk, Edward H. (See Martin and Palmer, assignors.)						
Godwin & Co., T. W. (See Woodworth, Albert L., assignor.)						
Goebel, William, St. Louis, Mo. Measuring faucet.....	696,327	Mar. 25	3789	845	98	2550
Goehler, George J. H., Pittsburg, Pa. Safe.....	713,871	Nov. 18	2713	606	101	1487
Goehrend, William M., Reed City, Mich. Cutting apparatus for mowers or reapers.....	691,161	Jan. 21	2083	466	98	468
Goehst, John H., Chicago, Ill. Electrically-illuminated sign.....	690,649	Jan. 7	542	117 118	98	116
Goepper, Gustavus, et al. (See Clough, William P., assignor.)						
Goeppinger, John. (See Hamilton, Paul H., assignor.)						
Goerk, Jacob, Irvington, N. J. Pocket-book.....	711,156	Oct. 14	1454	315	101	317
Goerke, Adolf, Berlin, Germany. Sinking foundations.....	701,559	June 3	506	111	99	2212
Goerke, Emil J. G., assignor to firm of H. Sager, Neumünster, Schleswig-Holstein, Germany. Cycle-seat.....	712,059	Oct. 28	3239	709	101	720
Goertz & Co., Aug. (See Eigen, Benno von, assignor.)						
Goertz, Carl P., Friedenau, Germany. Magazine plate-holder.....	695,633	Mar. 18	2448	554	98	2259
Goertz, Carl P., Friedenau, Germany. Photographic-roll holder.....	695,639	Mar. 18	2449	554 555	98	2259
Goertz, Carl P., Friedenau, near Berlin, Germany. Folding camera with roll-film magazine.....	704,320	July 8	1774	387	100	373
Goertz, Carl P., Friedenau, near Berlin, Germany. Astigmatically-corrected wide-angle objective.....	706,650	Aug. 12	1254	277	100	1387
Goertz, Carl P., Friedenau, near Berlin, Germany. Magazine plate-holder.....	706,651	Aug. 12	1235	277 278	100	1388

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Goerz, Carl P., Friedenau, near Berlin, Germany. Folding stereoscopic camera.....	709,480	Sept. 23	2891	645	100	2682
Goerz, Carl P., Friedenau, near Berlin, Germany. Binocular prism-telescope.....	709,898	Sept. 30	3698	838	100	2800
Goetsche, John H., San Francisco, Cal. Nail-making machine.....	716,030	Dec. 16	2666	588	101	2425
Goetz, Adolph, Grand Rapids, Mich. Bottle-cleaning machine.....	694,371	Mar. 4	61	15	98	1724
Goetz, Adolph, Grand Rapids, Mich. Bottle-cleaning machine.....	694,372	Mar. 4	65	15	98	1725
Goetz, George. (See Tharby, William, assignor.)						
Goetz, John A., Brooklyn, N. Y. Refreshment-receptacle and boutonniere.....	696,631	Apr. 1	430	100	99	93
Goetze, Paul C. E., assignor of one-half to Firm of F. Sander, Hamburg, Germany. Lubricant-indicator.....	700,682	May 20	3038	694	99	1835
Goetze, Paul C. E., assignor of one-half to Firm of F. Sander, Hamburg, Germany. Testing lubricants.....	700,683	May 20	3040	694	99	1835
Goforth, Charles F. and M. T., Wichita, Kan. Tucker.....	694,373	Mar. 4	67	16	98	1725
Goforth, Marshall T. (See Goforth, Charles F. and M. T.)						
Gogel, Jacob, Toledo, Ohio. Tire-heater.....	705,340	July 22	3884	840	100	835
Gohn, Philip H., et al. (See Avery, Edward R., assignor.)						
Gong, George G., New York, N. Y. Shade-cord fastener.....	714,474	Nov. 25	3901	861	101	1750
Gola, Giovanni, Genova, Italy. Lighting-arrester for overhead wires.....	701,032	May 27	3752	859	99	1999
Golbert & Company, R. L. (See Taylor, Arthur B., assignor.)						
Gold, Edward E., New York, N. Y. Hose-coupling.....	704,792	July 15	2642	571	100	567
Gold, Edward E., New York, N. Y. Mounting for electric heaters.....	708,036	Sept. 2	78	18	100	1997
Gold, Edward E., New York, N. Y. Means for operating gates for railway-cars.....	709,291	Sept. 16	2410	546	100	2508
Gold, Edward E., New York, N. Y. Mounting for electric heaters.....	713,211	Nov. 11	1416	320	101	1294
Gold, Egbert H., Chicago, Ill. Car-heating system.....	707,364	Aug. 26	3820	850	100	1948
Gold, Egbert H., Chicago, Ill. One-way valve.....	709,262	Sept. 16	2413	547	100	2508
Goldberg, Hyman E., Chicago, Ill. Calculating-machine.....	710,772	Oct. 7	717	151	101	146
Goldberg, Hyman E., Chicago, Ill. Calculating-machine.....	712,518	Nov. 4	96	152	101	917
Goldberg, Max, Santa Clara, Cuba. Nailless horseshoe.....	693,263	Feb. 11	1981	430	98	1231
Goldberg, Max, Santa Clara, Cuba. Ant-trap for furniture.....	694,738	Mar. 4	776	172	98	1875
Golden, Arville A. and E. L., East Liverpool, Ohio. Nut-lock.....	716,218	Dec. 16	3058	667	101	2307
Golden, Emma L. (See Golden, Arville A. and E. L.)						
Golden, George W., Detroit, Mich. Weather-strip.....	690,417	Jan. 7	52	12	98	14
Goldfarb, Henry, London, England. Safety appliance for use in cleaning windows.....	699,396	May 6	335	78	99	1242
Goldfaden, Sam, Brooklyn, N. Y. Cigarette or cigar box.....	716,705	Dec. 23	4010	878	101	2720
Goldfaden, Sam, New York, assignor to V. Nivois, Brooklyn, N. Y. Stop-watch.....	690,721	Jan. 7	703	155	98	148
Goldfoot, John G., Albany, N. Y. Computing-scale for railway mileage-books.....	706,046	Aug. 5	85	18,19	100	1184
Goldie, William, Wilkensburg, Pa. Ballasting railway-tracks.....	707,840	Aug. 29	3593	812	100	1904
Goldie, William, Wilkensburg, Pa. Tie-plate.....	712,129	Oct. 28	3866	738	101	745
Goldin, Mayer, assignor of one-half to F. Glickman, New York, N. Y. Combined suspenders and belt.....	717,189	Dec. 30	5075	1101	101	2973
Goding, William, New York, N. Y. Corset-cover.....	707,916	Aug. 26	3737	838	100	1932
Goldman, Cecelia H., St. Louis, Mo. Show-top.....	703,012	July 1	990	216	100	196
Goldman, David, Milwaukee, Wis. Box or receptacle.....	706,231	Aug. 5	443	93	100	1207
Goldman, Matthew S., Pittsburg, Pa. Cuff-holder.....	694,739	Mar. 4	777	172	98	1876
Goldsborough, Winder E., Lafayette, Ind. Electric-arc-lamp reflector-shade.....	702,791	June 17	2758	635	99	2714
Goldsby, Andrew J., Bronx, Mo. Wire-stretcher.....	708,706	Sept. 9	1278	292	100	2251
Goldschmidt, Jacob E. (See Fleischer, Emil, assignor.)						
Goldschmidt, André, Paris, France. Device for compensating for wear in shoes of hydraulic brakes.....	697,140	Apr. 8	1426	317	99	323
Goldschmidt, Ferdinand, Chicago, Ill. Candy-dipping machine.....	704,248	July 8	1640	356	100	343
Goldsmith, Byron B., New York, N. Y. Magazine lead-pencil.....	692,440	Feb. 4	380	93	98	878
Goldsmith, David, New York, N. Y. Trunk-tray fixture.....	698,548	Feb. 18	2514	554	98	1363
Goldsmith, Felix S., Denver, Colo. Prospector's pick or similar tool.....	691,309	Jan. 14	1773	403	98	324
Goldsmith, Jacob, assignor to M. A. Coulson, Columbus, Ohio. Corner-post, transom-bar, or mullion.....	697,714	Apr. 15	2485	555	99	557
Goldsmith, Marcus T., New York, N. Y. Chatelaine-bag hook.....	693,264	Feb. 11	1982	431	98	1231
Goldstein, Louis, et al. (See Bing, Alexander, assignor.)						
Goldthwait, Abel G. (See Tolhurst and Goldthwait.)						
Gökel, Heinrich, Neunkirchen, Germany. Clamping device for work-benches.....	697,475	Apr. 15	2043	451	99	469
Gollings, Henry, Oak Station, Pa. Glass-making machine.....	706,550	Aug. 12	1078	238	100	1349
Golob, John, Joliet, Ill. Accordion.....	709,671	Sept. 23	3829	721	100	2691
Goltermann, Hermann, New York, N. Y. Nebulizer.....	694,630	Mar. 4	561	122	98	1831
Goltermann, Hermann, New York, N. Y. Atomizer.....	701,711	June 3	775	172	99	2771
Gomer, Ansie B., Corwells, assignor of three-fourths to W. B. Henry, trustee, and H. H. Burrell, Philadelphia, Pa. Cushion for railway-rails, frog and switch rails, &c.....	695,429	Mar. 11	2043	458	98	2158
Gomber, George W., Conyngham, Pa. Can-opener.....	690,418	Jan. 7	53	13	98	14
Gonce, John W., Kinderhook, Ala. Locking device.....	709,010	Sept. 16	1903	437	100	2400
Gonce, John W., Kinderhook, Ala. Combination-lock.....	710,449	Oct. 7	91	20, 21	101	20
Gonon, Paul E., assignor to Perfect Non-Refillable Bottle Company, New York, N. Y. Valve.....	710,450	Oct. 7	95	21	101	21
Gonorovsky, Joseph, New York, N. Y. Time-lock.....	713,092	Nov. 11	1192	272	101	1159
Gontermann, Walther, Siegen, Germany. Mold for casting rolled-iron finishing rollers.....	713,872	Nov. 18	4716	606	101	1488
Gonzenbach, Ernest, Wheaton, Ill. Cable-terminal.....	701,875	June 10	1058	238	99	2345
Gonzenbach, Ernest, Wheaton, Ill. Third-rail insulator.....	717,389	Dec. 30	5412	1176	101	3045
Gooch, Frank, Shelburn, Oreg. Bicycle attachment.....	705,664	July 29	4546	987	100	981
Good, Edgar, assignor to Kalamazoo Spring & Axle Company, Kalamazoo, Mich. Axle-skein.....	694,631	Mar. 4	562	123	98	1831
Good, Henry N. B., London, England. Pneumatic tire.....	716,031	Dec. 16	2669	589	101	2425
Good, Lawrence. (See Smith, Jacob, assignor.)						
Good, Thomas L., assignor of one-half to H. P. Hotz, Edwardsville, Ill. Potato-planter.....	711,306	Oct. 14	1763	382	101	382
Goodale, George S., Houghton, Mich. Target.....	704,631	July 15	2357	512	100	508
Goodale, George S., Houghton, Mich. Extension-fitting for leveling-rods.....	707,225	Aug. 19	2344	524	100	1633
Goodall, P. H. (See Devine, Charles E., assignor.)						
Goodall, William H. (See Burnett and Goodall.)						
Goodbrand, Walter, Manchester, England. Two-speed driving-gear for bicycles.....	704,680	July 15	2436	526	100	525



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Goodchild, John, guardian. (See O'Connor, John, assignor.)						
Goode, George, assignor to R. A. Van Allan, C. A. Schmidt, Rochester, and R. W. Goode, Buffalo, N. Y. Bed attachment	716,886	Dec. 30	4463	1,967 968	101	2842
Goode, John, Colwall, near Malvern, assignor of one-half to D. R. Broadbent, London, England. Automatic audible signaling on railways	694,008	Feb. 25	3432	755 756	98	1566
Goode, Richard W., et al. (See Goode, George, assignor.)						
Goodell Company. (See Brooks, Myron B., assignor.)						
Goodell Company. (See Prentiss, Charles W., assignor.)						
Goodell Company. (See Yeomans, Lucien I., assignor.)						
Goodell, John, assignor of one-half to R. P. Perry, Sandusky, Wis. Railway-ticket	700,761	May 27	3238	742	99	1892
Goodell, Zina. (See Hall, Benjamin F., assignor.)						
Gooden, Orlando L. (See Phizing, Charles R., assignor.)						
Goodfellow, Charles S., Lowell, Mass. Flue-cleaner	691,718	Jan. 21	2540	568	98	564
Goodfellow, Thomas G., Chicago, Ill. Fire-escape	692,847	Feb. 11	1119	250	98	1053
Goodfellow, William H., and H. W. Goodine, South Ryegate, Vt. Jar-closure	712,519	Nov. 4	108	27	101	920
Goodhead, George E., Winchester, Ill. Telephone-circuit	699,676	May 13	1055	216	99	1406
Goodine, Henry W. (See Goodfellow and Goodine.)						
Gooding, Charles S. (See Beauregard, Victor, assignor.)						
Gooding, Charles S. (See Emmons, William W., assignor.)						
Gooding, Charles S. (See Lincoln, Luther, assignor.)						
Gooding, Josiah F., et al. (See Murphy, William M., assignor.)						
Goodlett, Nicholas M., Jr., executor. (See Forded, John.)						
Goodling, William G. (See Lytle, James D., assignor.)						
Goodman, Abraham, San Francisco, Cal. Building construction	695,718	Mar. 18	2574	582	98	2284
Goodman, Edwin B., assignor to Brown Brothers, Limited, Toronto, Canada. Transfer binder case	710,965	Oct. 14	1068	236	101	234
Goodman, Edwin B., assignor to Brown Brothers, Limited, Toronto, Canada. Loose-leaf ledger	710,966	Oct. 14	1069	236	101	234
Goodman, Joseph, Pittsburg, Pa. Adjustable sheave-arm for leers	708,543	Sept. 9	978	221	100	2191
Goodman, Joseph B., Philadelphia, Pa. Non-refillable-bottle cork	692,848	Feb. 11	1121	250	98	1054
Goodmen, Charles N. (See Nivison, William E., assignor.)						
Goodnow, Charles H., Chicago, Ill., assignor to J. W. Sefton Manufacturing Company, Chicago, Ill., and Anderson, Ind. Paper box	695,204	Mar. 11	1667	370	98	2081
Goodnow, Charles H., Chicago, Ill., assignor to J. W. Sefton Manufacturing Company, Chicago, Ill., and Anderson, Ind. Paper box	695,205	Mar. 11	1668	370	98	2081
Goodnow, Louis. (See Stanley, James R., assignor.)						
Goodrich, Alfred K., assignor to G. H. Bahrs, San Francisco, Cal. Plow	703,571	July 1	345	78	100	69
Goodrich, Ernest C., assignor to himself and N. Britz, Houghton, Mich. Electrical floor-levy	706,927	Aug. 12	1787	400	100	1499
Goodrich, George W. (See Broach and Goodrich.)						
Goodrich, Paul N., Boston, Mass. Adjustable bicycle saddle-post	711,205	Oct. 14	1578	338	101	312
Goodsell, Clayton A., Harvard, Ill. Sash-fastener	702,940	June 24	3051	702	99	2790
Goodson, George A., New York, N. Y. Squirt-preventer for type-casting machines	702,941	June 24	3052	702	99	2791
Goodson, George A., Minneapolis, Minn. Type casting and setting machine	705,341	July 22	3885	841 743 745	100	835
Goodson, George A., Minneapolis, Minn., assignor to Goodson Graphotype Company, New York, N. Y. Differential letter-press register for composing-machines	696,732	Apr. 1	637	744 745	99	138
Goodson, George A., Minneapolis, Minn., assignor to Goodson Graphotype Company, New York, N. Y. Matrix for type-founding	696,733	Apr. 1	642	145	99	138
Goodson, George A., Minneapolis, Minn., assignor to Goodson Graphotype Company, New York, N. Y. Font of type	696,734	Apr. 1	643	145	99	138
Goodson Graphotype Company. (See Goodson, George A., assignor.)						
Goodson Graphotype Company. (See Reynolds, John R., assignor.)						
Goodwin, Bartlett C. (See Spates, Charles D., assignor.)						
Goodwin, Charles M. (See Arner and Goodwin.)						
Goodwin, Hannibal, deceased, Newark, N. J.; R. Goodwin, executrix. Camera	700,140	May 13	1974	1,453 1,454	99	1591
Goodwin, James D., assignor to Cardwell Machine Company, Richmond, Va. Tobacco drying, cooling, and ordering machine	693,387	Feb. 18	2215	485	98	1801
Goodwin, Julius C., Philadelphia, Pa. Fabric folding and trimming machine	712,788	Nov. 4	605	139	101	1023
Goodwin, Landon R., Arlington, assignor of one-half to J. B. Bray, Newark, N. J. Lifting-jack	696,558	Apr. 1	297	71	99	67
Goodwin, Manson C., Portland, Me. Electric hose-coupling	709,216	Sept. 16	2920	526	100	2489
Goodwin, Margaret B., assignor of one-half to R. L. Harper, Denver, Colo. Mouth and nose guard	715,052	Dec. 2	779	166	101	1994
Goodwin, Rebecca, executrix. (See Goodwin, Hannibal.)						
Goodwin, Thomas J., Lampasas, Tex. Ventilator-flue	700,762	May 27	3239	742	99	1893
Goodwin, William B., San Francisco, Cal. Rowing appliance	710,147	Sept. 30	4185	942	100	2303
Goodwyn, Thaddeus A., Madill, Ind. Ter., and P. E. Stoval, Waxahachie, Tex. Baling-press	707,917	Aug. 26	3738	888	100	1032
Goodyear, C. P., Sr., et al. (See Dempster, William E., assignor.)						
Goodyear, F. H., & C. W. (See Kidder, Wellington P., assignor.)						
Goodyear, Frank H., et al., trustees. (See Kidder, Wellington P., assignor.)						
Goodyear India Rubber Glove Manufacturing Company. (See Eggers, Anton C., assignor.)						
Goodyear Shoe Machinery Company. (See Webster, Harold A., assignor.)						
Goodyear Shoe Machinery Company. (See Winkley, Erastus E., assignor.)						
Goodyear Tire and Rubber Company. (See Burrows, Joseph A., assignor.)						
Goodyear Tire and Rubber Company. (See Frost, Harrison C., assignor.)						
Goodyear Tire and Rubber Company. (See State, Will C., assignor.)						
Goodyear's India Rubber Glove Manufacturing Company et al. (See Traver, Jay E., assignor.)						
Goodyear's Metallic Rubber Shoe Company et al. (See Traver, Jay E., assignor.)						
Gooling, Martin B., Minden, La. Planter	694,852	Mar. 4	990	219	98	1922
Gooling, Martin B., Vicksburg, Miss. Cotton-chopper and clod-crusher	704,822	July 15	2720	589	100	582
Gooling, Martin B., Vicksburg, Miss. Combined road-cart and insect-catcher	707,905	Aug. 25	3822	859	100	1040
Gould, William D., Albany, N. Y. Emergency-brake for horseless carriages	696,236	Mar. 25	3679	801	98	2505
Goolman, Frederick R., Binghamton, N. Y. Xylophone-player	700,035	May 13	1753	405 406	99	1549
Goossen, John, Marion, N. Y. Device for locking fruit	706,174	Aug. 5	336	72	100	1185
Goozey, Charles A., Woonsocket, R. I. Lock-buckle	708,330	Sept. 2	629	141	100	2109
Gordan, Herbert. (See Riggins and Gordan.)						
Gordon, Albert A., Jr. (See Wyman and Gordon.)						
Gordon, Alexander, Detroit, Mich. Cigar-bunching machine	698,205	Feb. 11	1983	431	98	1232

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Gordon, Angus C., Rochester, N. Y. Wire fence	716,837	Dec. 23	4360	946	101	2804
Gordon, Arthur R., Toledo, Ohio. Vaginal syringe	694,541	Mar. 4	390	98	98	1797
Gordon, Charles, assignor of three-fifths to J. G. Marchand, Buffalo, N. Y. Toy	690,852	Jan. 7	919	205	98	194
Gordon, Charles W., St. Paul, Minn. Apparel-cap	705,068	July 22	3258	705	100	709
Gordon, Frederick W. (See Hanson and Gordon.)						
Gordon, Frederick W., Hartford, Conn. Discharge-valve for compressors	713,631	Nov. 18	2277	506	101	1305
Gordon, Frederick W., assignor to Pratt & Whitney Company, Hartford, Conn. Change-gearing	698,008	Apr. 22	3026	665	99	692
Gordon, Frederick W., assignor to Pratt & Whitney Company, Hartford, Conn. Variable-speed gearing	701,876	June 10	1059	1238	99	2345
Gordon, George, Chicago, Ill. Spectacle-bow	692,269	Feb. 4	100	23	98	819
Gordon, George, Luther, Mich., assignor of one-fourth to T. P. Magrane, Chicago, Ill. Rail-joint	707,966	Aug. 26	3823	1859	100	1949
Gordon, George C. (See Cooper, Hugh, assignor.)						
Gordon, Hollow Blast Grate Company. (See Sprague, Rufus F., assignor.)						
Gordon, James P., Florence, Colo. Washing-machine	703,913	July 1	991	216	100	198
Gordon, John M. (See Dickerson and Gordon.)						
Gordon, Joseph P., Rockford, Ill. Fracture apparatus	708,340	Sept. 2	630	142	100	2109
Gordon, Max, Waterbury, Conn. Garment-hanger	710,773	Oct. 7	730	154	101	149
Gordon, Minthorne T., and F. Davis, Stapleton, N. Y. Clothes-line support	704,026	July 8	1218	263	100	258
Gordon, Plenum Light Co. (See Gordon, Thomas, assignor.)						
Gordon, Thomas, Philadelphia, Pa. Incandescent gas-burner	708,222	Sept. 2	423	96	100	2067
Gordon, Thomas, Philadelphia, Pa., assignor to Gordon Plenum Light Co., Camden, N. J. Incandescent burner-head	712,130	Oct. 28	3367	738	101	745
Gordon, Walter T., Juniper, Oreg. Draper, &c.	704,823	July 15	2721	589	100	582
Gordon, William, and G. E. Warren, Boston, Mass., assignors to Metallic Heel and Counter Company, Kittery, Me. Boot or shoe	706,551	Aug. 12	1080	239	100	1349
Gordon, William H. (See O'Neill and Gordon.)						
Gore, Charles, San Francisco, Cal. Life-preserver	691,341	Jan. 14	1863	420	98	407
Gore, James H. (See Greer and Gore.)						
Gorham, John G., Mansfield, Ohio. Screw-driver	697,836	Apr. 15	2698	599	99	604
Gorham Manufacturing Company. (See Gabriel, Charles R., assignor.)						
Gorham, Marvin, Detroit, Mich. Blank-furnace	712,296	Oct. 28	3648	796	101	801
Gorin, Fred P., Chicago, Ill. Cash-register	697,476	Apr. 15	2044	452	99	469
Gorman, David W., assignor to F. W. Webb, Boston, Mass. Ball-cock	713,426	Nov. 11	1856	420	101	1296
Gorman, Horace P., Hazelton, Pa. Loose-leaf ledger	712,397	Oct. 28	3650	737	101	802
Gorman, Samuel C. (See Houser and Gorman.)						
Gorman, William, Pittsburg, Pa. Heating-furnace	702,722	June 17	2632	1605	99	2688
Gorneman, Charles, Cedar Valley, Utah. Railway-velocipede	693,128	Feb. 11	1696	870	98	1173
Gornston, Michael H., Brooklyn, N. Y. Clothes-hanging apparatus	694,234	Mar. 25	3581	802	98	2505
Gorrell, Frances H., Newton, Iowa. Hook and eye	691,701	Jan. 21	2516	563	98	559
Gorsuch, John R., Philadelphia, Pa. Wire-twisting pliers	699,164	May 6	68	17	99	1189
Gorter, Henry H., assignor to M. E. Gorter, San Francisco, Cal. Portable water-tower	708,135	Sept. 2	252	60, 61	100	2034
Gorter, Mary E. (See Gorter, Henry H., assignor.)						
Gorton, John C. (See Carney and Gorton.)						
Gorton, John F., Weston-super-Mare, England. Telegraphy	694,542	Mar. 4	401	88	98	1797
Görtz, Constantin von, Vienna, assignor to Skodawerke Actiengesellschaft in Pilsen, Pilsen, Austria-Hungary. Primer for ordnance	694,265	Feb. 25	3911	868	98	1662
Goshorn, Alfred F., Canton, Ohio. Curtain-hanger	702,420	June 17	2058	468	99	2568
Gosline, Edwin B., Carnegie, Pa. Slack-coal heater	693,700	Feb. 18	2823	1620	98	1425
Gosnell, Benjamin F., Jr., Pinkstaff, Ill. Horseshoe	712,373	Oct. 28	3777	826	101	830
Goss, Edgar O., et al. (See Collier, Arthur T., assignor.)						
Goss, John H. (See Farraday and Goss.)						
Goss Printing Press Company. (See Firm, Joseph L., assignor.)						
Goss Printing Press Company. (See Firm, Joseph L., assignor.) (Reissue.)						
Goss Printing Press Company. (See Goss, Samuel G., assignor.)						
Goss, Samuel G., assignor to Goss Printing Press Company, Chicago, Ill. Casting-box for stereotyping	697,141	Apr. 8	1427	318	99	323
Goss, Samuel G., assignor to Goss Printing Press Company, Chicago, Ill. Means for driving printing-presses	702,421	June 17	2059	469	99	2568
Goss, Samuel G., assignor to Goss Printing Press Company, Chicago, Ill. Printing machinery	707,100	Aug. 19	2103	469	100	1580
Goss, Samuel G., assignor to Goss Printing Press Company, Chicago, Ill. Printing-press	707,101	Aug. 19	2107	470	100	1581
Goss, William F. M., Lafayette, assignor to United States Distillation Company, Indianapolis, Ind. Distilling apparatus	713,297	Nov. 11	1633	368	101	1246
Goss, William F. M., Lafayette, assignor to United States Distillation Company, Indianapolis, Ind. Distilling liquids	713,298	Nov. 11	1637	369	101	1247
Gossard, Newton B., Altoona, Pa. Self-closing faucet	711,546	Oct. 21	2782	616	101	610
Gosse, Edward L., Chanute, Kans., assignor of one-half to L. A. Laughlin, Kansas City, Mo. Continuous automatic air-brake system	701,327	June 3	88	18, 19	99	2128
Gosse, Edward L., Chanute, Kans., assignor of one-half to L. A. Laughlin, Kansas City, Mo. Continuous automatic air-brake system	701,328	June 3	92	19	99	2128
Gossmann, Heinrich, Wilhelmshöhe, near Cassel, Germany. Bath-tub	693,701	Feb. 18	2824	621	98	1425
Gotshall, William C. (See Mailloux and Gotshall.)						
Gottbrecht, John, Formosa, Kans. Antifriction-bearing	703,402	July 1	69	14	100	16
Gottbrecht, John, Montrose, Kans. Lubricator	703,403	July 1	72	14	100	17
Gotter, Benjamin, Scranton, Iowa. Clevis	697,337	Jan. 28	2907	655	98	657
Gottschalk, Herman, Chicago, Ill. Kid-glove cleaner and making same	692,010	Jan. 28	3102	697	98	695
Gottschalk, Louis, assignor to Brownie Soap Company, Chicago, Ill. Soap boiling and finishing machine	711,492	Oct. 21	2105	457	101	467
Gottschalk, Louis, assignor to Brownie Soap Company, Chicago, Ill. Soap-plotting machine	711,493	Oct. 21	2107	457	101	468
Gottschalk, Marie, Berlin, Germany. Straightening-case for the finger	703,320	July 23	5008	1090	100	1073
Goucher, Henderson H., Butler, Pa. Sash-lock	697,337	Apr. 15	2699	599	99	604
Gouchon, Charles, Lisieux, France. Motor-carriage	694,470	Mar. 4	550	56	98	1765
Gouger, Frank, Forestport, N. Y. Rotary engine	717,190	Dec. 30	5077	1101	101	2973
Goughnour, Henry S., Johnstown, Pa., assignor to Lorain Steel Company. Car-truck	717,092	Dec. 30	4854	1051	101	2924
Gouldard, Joseph V., Haywards, Cal. Animal-extermicator	712,667	Nov. 4	384	89	101	978
Gould, Augustus, assignor to W. A. Breed, Norwich, Conn. Stop-motion for cutlery-grinding machines	708,136	Sept. 2	255	61	100	2035



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Gould, Charles A. (See Hutchins, Stainer, assignor.)						
Gould, Charles A. (See Madden, Albert F., assignor.)						
Gould, Charles M. (See Richards, Willard F., assignor.)						
Gould, Charles M. (See Turbayne, William A., assignor.)						
Gould Coupler Company. (See Richards, Willard F., assignor.)						
Gould & Eberhardt. (See Eberhardt, Fred L., assignor.)						
Gould & Eberhardt. (See Eberhardt, Henry E., assignor.)						
Gould & Eberhardt. (See Eberhardt, Henry E., F. L., and E. G., assignors.)						
Gould & Eberhardt. (See Eberhardt and Etting, assignors.)						
Gould & Eberhardt. (See Meyer, George J., assignor.)						
Gould, Elijah G. (See Lamb and Gould.)						
Gould, Frank C. (See Tracy and Gould.)						
Gould, Fred L., assignor to Gould Traction Car Company, Seattle, Wash. Traction de-	698,699	Apr. 29	4367	963	99	989
vice.	698,933	Apr. 29	4843	1069	99	1065
Gould, Ovid M., Montreal, Canada. Package-carrier						
Gould Storage Battery Company. (See Chamberlain, Rufus N., assignor.)						
Gould Storage Battery Company. (See Richards, Willard F., assignor.)						
Gould Traction Car Company. (See Gould, Fred L., assignor.)						
Gould, William J., Argentine, Kans., assignor of one-half to W. S. Weyer, Kansas City, Mo. Cream-separator	693,512	Feb. 18	2453	538	98	1351
Gouldsbary, John. (See Neylon and Gouldsbary.)						
Goulet, Joseph A. G., Montreal, Canada, assignor to Draper Company, Hopedale, Mass. Filling-replenishing mechanism for looms	695,045	Mar. 11	1396	300	98	2018
Goulson, George, Los Angeles, Cal. Sewing-machine gage	691,632	Mar. 4	563	123	98	1832
Goures, Isaac, New York, N. Y. Slide-loop clip	691,133	Jan. 14	1426	323	98	312
Gourley, Thomas L. (See Schrag, John J., assignor.)						
Gourley, William N., Columbus, Ohio. Die for welding links	713,427	Nov. 11	1857	420	101	1296
Gouthiere, Henri, Paris, France, assignor to G. E. Junius, London, England. Purifying sugar-juices	704,027	July 8	1221	122	100	258
Gouy, Marius A., New York, N. Y. Hair-retainer	717,499	Dec. 30	5616	1219	101	3085
Govan, Alexander, Bridgeton, Glasgow, Scotland. Driving-gear for motor-vehicles	695,808	Mar. 18	2744	626	98	2320
Gove, Burt E., Winthrop, Mass. Extension-compasses	714,575	Nov. 25	4083	903	101	1788
Gove, Wilfred N., Philadelphia, Pa. Gravity-battery	712,668	Nov. 4	385	90	101	978
Gover, Edwin M., Washington, D. C. Toilet-mirror	714,297	Nov. 25	3559	791	101	1691
Gowan, Richard, Corsicana, Tex. Axle-lubricator	704,028	July 8	1222	263	100	258
Gowing, Earle H. (See Nagle, Augustus F., assignor.)						
Gowing, Earle H., Reading, Mass. Furnace	700,036	May 13	1758	406	99	1550
Gowland, George L., Peterborough, Canada. Prepayment electric meter	706,047	Aug. 5	87	19	100	1134
Gowland, George L., Peterborough, Canada. Current-meter	706,406	Aug. 5	813	177	100	1278
Goynne, William J., Barton Heights, Va. Relief-valve	694,374	Mar. 4	69	16	98	1726
Graae, John F., Brooklyn, N. Y. Instrument for testing translucent substances by color	696,371	Mar. 25	3887	863	98	2567
Graaff, Peter D., Fresno, Cal. Portable wardrobe	708,341	Sept. 2	631	142	100	2109
Grabau, Hans E., Hoboken, N. J., assignor to Garcia-Rabell Trading Company, New York, N. Y. Machine for making cigarettes	692,270	Feb. 4	101	23	98	819
Graber, Ellis, assignor to Graber Printing and Ruling Machines Company, Limited, Tunbridge Wells, England. Ruling-machine	714,376	Nov. 25	4085	903	101	1788
Graber, Jakob, Zurich, Switzerland. Alarm-lock	715,053	Dec. 2	780	166	101	1994
Graber, James D., Royersford, assignor of one-fourth to E. L. Hallman, Norristown, Pa. Composition for stiffening fabrics	691,462	Jan. 21	2084		98	469
Graber Printing and Ruling Machines Company. (See Graber, Ellis, assignor.)						
Grabin, Harry, Milwaukee, Wis. Sad-iron	702,422	June 17	2060	469	99	2568
Grabier, Peter, Cleveland, Ohio, assignor by mesne assignments, to Columbia Specialty Manufacturing Company, Washington, D. C. Paper-marker	690,853	Jan. 7	920	205	98	194
Grabowski, Anton. (See Clover and Grabowski.)						
Graessle, Lizzie C., San Jose, Cal. Hydrocarbon-burner	696,961	Apr. 8	1121	249	99	258
Graf, Alois, Stuttgart, Germany. Apparatus for training horses	710,267	Sept. 30	4403	992	100	2951
Graf, Charles J., St. Louis, Mo. Means for hanging awnings	713,299	Nov. 11	1642	369	101	1248
Graf, John J., assignor to Union Light & Heat Company, Cincinnati, Ohio. Acetylene-gas burner	703,404	July 1	73	14	100	17
Graff, Friedrich, Witten, Germany. Machine for cutting meat, &c.	709,539	Sept. 23	3008	670	100	2646
Graff, Henry, Philadelphia, Pa. Adjustable eccentric	708,223	Sept. 2	424	97	100	2068
Graff, Louis J., Pittsburg, Pa. Curtain-pole	702,723	June 17	2634	606	99	2688
Graff, Otto, et al. (See Leak, William C., assignor.)						
Graftman, Alonzo, Dekalb, assignor to A. G. Leonard, trustee, Chicago, Ill. Pegging-machine	698,700	Apr. 29	4369	963	99	990
Graftstrom, Edward, Topeka, Kans. Locomotive-pilot and car-coupling therefor	695,084	Mar. 18	2524	564	98	2274
Graftstrom, Edward, assignor to H. S. Hallwood, Columbus, Ohio. Car-coupling	695,083	Mar. 18	2523	571	98	2274
Graft, James A., et al. (See Lambert, Henry C., assignor.)						
Grager, Elmer W., White Rock, S. D. House-moving truck	712,520	Nov. 4	109	27	101	920
Graham, Abner B. (See White, Charles T., assignor.)						
Graham, Cargill. (See Kyle and Graham.)						
Graham, Charles H., et al. (See Amwake, Harry S., assignor.)						
Graham, Charles H., et al. (See Amwake, Harry S., assignor.) (Reissue.)						
Graham Combined Guard-Rail and Frog Brace Company. (See Graham, John E., assignor.)						
Graham, David F. (See Fox and Graham.)						
Graham, David F., Springfield, Mass., assignor to W. D. Blake, Richmond Hill, New York, N. Y. Lutch adjustment for motor-carriages	693,963	Feb. 25	3326	731	98	1545
Graham, Edward. (See Strange and Graham.)						
Graham, Edwin R., Bakersfield, Cal. Machine for perforating pipes	698,763	Sept. 9	1387	317	100	2276
Graham, Elias, assignor of one-half to O. C. Fuqua, Casey, Ill. Gate	709,559	Apr. 1	298	71	99	16
Graham, Euphemia, Carroll, Iowa. Heating-drum	705,921	Oct. 29	3008	1090	100	1073
Graham, Francis M., San Jose, Cal. Sating fine gold and sulfurets	711,047	Oct. 14	1246	272	101	272
Graham, Homer A., Oneco, Fla. Envelope	713,428	Nov. 11	1838	420	101	1296
Graham, Isaac N., Deerfield, Va. Cutter-bar for harvesters or mowers	715,368	Dec. 9	1368	295	101	2135
Graham, J. A. (See McDermott, David L., assignor.)						
Graham, James, New York, N. Y. Automatically-propelled multiple-hull vessel	696,097	Mar. 25	3303	744	98	2451
Graham, James, Carnoustie, and R. R. Tatlock, Stirling, Scotland. Automatic self-inflating life-preserver	701,329	June 3	95	19	99	2129
Graham, James L., Allegheny, Pa. Valve for automatic water-heaters	699,798	May 13	1203	299	99	1433
Graham, John E., assignor to Graham Combined Guard-Rail and Frog Brace Company, Roanoke, Va. Rail-brace	697,401	Apr. 8	1899	424	99	423

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Graham, John J., Imperial, Pa. Paddle-wheel.....	705,397	July 22	3980	862	100	584
Graham, John S., Franklin, Ind. Sawing-machine attachment.....	715,054	Dec. 2	782	106	101	1994
Graham, Joseph B., assignor to E. G. Allyn, Dubuque, Iowa. Tail-board fastening for wagons.....	700,416	May 20	2559	586	99	1732
Graham, Levi P., Decatur, Ill. Corn-planter.....	699,754	Mar. 18	1206	281	99	1435
Graham, Levi P., Decatur, Ill. Corn-planter.....	701,712	June 3	777	172	99	2271
Graham, Levi P., Decatur, Ill. Corn-planter.....	703,247	June 24	3633	834	99	2907
Graham, Levi P., Decatur, Ill. Corn-planter.....	703,342	June 24	3800	873	99	2943
Graham, Levi P., Decatur, Ill. Corn-planter.....	707,771	Aug. 26	3447	777	100	1876
Graham, Levi P., Decatur, Ill. Check-row planter.....	707,918	Aug. 26	3740	830	100	1933
Graham, Levi P., Decatur, Ill. Corn-planter.....	708,137	Sept. 2	257	62	100	2035
Graham, Levi P., Decatur, Ill. Corn-planter clutch.....	713,030	Nov. 4	1070	249	101	1115
Graham, Levi P., Decatur, Ill. Corn-planter.....	713,212	Nov. 11	1119	321	101	1294
Graham, Levi P., Decatur, Ill. Corn-planter.....	713,563	Nov. 11	2143	479	101	1352
Graham, Lozelle F., San Jose, Cal. Railway indicator.....	703,057	June 24	3276	735	99	2836
Graham, Lozelle F., San Jose, Cal. Machine for facing fruit for packing.....	705,071	July 22	3262	700	100	710
Graham, Lozelle F., San Jose, Cal. Fruit-peeling machine.....	715,783	Dec. 16	2161	483	101	2316
Graham, Michael J., assignor to W. G. King, Chicago, Ill. Valve for gas-fixtures.....	706,928	Aug. 12	1787	400	100	1499
Graham, Robert J., et al. (See Barnes, Edwin M., assignor.).....						
Graham, Robert J., Philadelphia, Pa. Game apparatus.....	695,393	Mar. 11	1853	412	98	2147
Graham, Robert J., Philadelphia, Pa. Game apparatus.....	711,959	Oct. 28	3042	668	101	682
Graham, Samuel A., assignor to one-half to J. Brown and Company, Limited, Sheffield, England. Boiler and its furnace.....	707,509	Aug. 19	2858	618	100	1730
Graham, Thomas W., Dubuque, Iowa. Counting-machine.....	706,048	Aug. 5	90	19	100	1135
Graham, Walter H., et al. (See Dawson, Clarence L., assignor.).....						
Graham, William, Dekoven, N.Y. Nut-cracker.....	707,102	Aug. 19	2112	471	100	1582
Graham, William A., St. Joseph, Mo. Union garment.....	705,070	July 22	3261	706	100	710
Graham, William F., Gosforth, England. Machinery for the manufacture of coverings for floors or like surfaces.....	691,261	Jan. 14	1660	378	98	362
Graham, William J., and H. Goddard, Oakesdale, Wash. Collar-support and necktie retainer.....	711,659	Oct. 21	2419	532	101	532
Graham, William S., assignor to Parlin & Orendorff Company, Canton, Ill. Corn-planter.....	697,402	Apr. 8	1900	425	99	423
Graham, William S., assignor to Parlin & Orendorff Company, Canton, Ill. Lister-cultivator.....	708,509	Sept. 2	920	209	100	2168
Graham, William S., assignor to Parlin and Orendorff Company, Canton, Ill. Clutch.....	716,219	Dec. 16	3050	667	101	2507
Graham, William S., assignor to Parlin and Orendorff Company, Canton, Ill. Corn-planter.....	716,408	Dec. 23	3428	748	101	2596
Graham, Yooll, Frederick R., Edinburgh, Scotland. Infant's feeding-bottle.....	696,328	Mar. 25	3791	845	98	2551
Grall, Joseph G., Detroit, Mich., assignor, by mesne assignments, to Robert Mitchell Machinery Company. Bottom-fly-scalloping machine.....	700,141	May 13	1977	454	99	1592
Grall, Joseph G., Detroit, Mich., assignor, by mesne assignments, to Robert Mitchell Machinery Company. Vamp-snapper.....	705,069	July 22	3259	705	100	710
Gramophone and Typewriter. (See Royal, Belford G., assignor.).....						
Gran, Albert, Chicago, Ill. Wind-motor.....	705,922	July 29	5009	1090	100	1073
Granbery, Dee T., Memphis, Tenn. Railway-switch and mechanism for operating it.....	692,271	Feb. 4	104	25	98	802
Granbery, Dee T., Memphis, Tenn. Horse-hitching device.....	694,375	Mar. 4	72	17	98	1726
Grand Detour Plow Company. (See Ruef and Tomlinson, assignors.).....						
Grand Rapids Brass Company. (See Tower, Daniel W., assignor.).....						
Grandjean, Adolphe H., and E. J. Bouvier, Paris, France. Driving-chain.....	709,149	Sept. 16	2180	499	100	2460
Grandstaff, Benjamin F., Peru, Ind. Weather-strip.....	711,491	Oct. 21	2104	456	101	467
Grange, Wallace S., Kirkland, Ill. Letter-file and cabinet.....	700,117	May 20	2560	596	99	1032
Granger, John, assignor to himself and J. Sutherland, Springer, N. Mex. Ter. Rein-holder.....	701,033	May 27	3754	859	99	1939
Granichstaeden, Ladislaus E., London, England. Kinematograph.....	693,856	Feb. 25	3118	691	98	1505
Granjon, Raphael, and E. Isnard, Marseilles, France. Acetylene-gas burner.....	713,632	Nov. 18	2278	507	101	1306
Grant, Albert H., Richmond, Va. Embalming apparatus.....	711,994	Oct. 14	1914	417	101	414
Grant, Alexander. (See Colwell, William S., assignor.).....						
Grant, Alvan D. (See Grant, Charles H. and A. D.).....						
Grant, Annie I. (See Smith, Frances C., assignor.).....						
Grant, Arthur W., Springfield, Ohio, assignor to Consolidated Rubber Tire Co., New York, N. Y. Rubber tire.....	705,072	July 22	3264	707	100	711
Grant, Charles H. and A. D., South Ryegate, Vt. Trace-hook.....	711,701	Oct. 21	2508	551	101	553
Grant, Charles W., Derby, assignor to O. K. Tool Company, Shelton, Conn. Cutting-off tool.....	713,001	Nov. 4	1002	235	101	1101
Grant, Edward, Bradley, Ill. Shield-holder for foundry ladles.....	713,873	Nov. 18	2716	606	101	1488
Grant, George H., assignor to H. Kohnstamm & Co., Chicago, Ill. Laundry-bag.....	690,654	Jan. 7	921	206	98	194
Grant, Gertrude M., Chicago, Ill. Dress-shield.....	712,188	Oct. 28	3462	760	101	763
Grant, Horace E., Pittsburg, Pa. Brazing.....	700,369	Sept. 30	3699	824	100	2800
Grant, Horace E., and J. G. McDowell, Pittsburg, Pa. Fireproof flooring.....	716,838	Dec. 23	4361	946	101	2805
Grant, Isaac G., Bozeman, Mont. Apparatus for mounting photographs.....	708,342	Sept. 2	631	142	100	2109
Grant, James M., Bab, Ark. Cotton-chopper.....	699,165	May 6	69	18	99	1190
Grant, Lewis C., Cleveland, Ohio, and N. B. Chester, Caldwell, N. J. Puncture-healing compound.....	715,784	Dec. 16	2169	483	101	2318
Grant, Mary A., St. Anthony, Idaho. Cake-pan.....	701,198	May 27	4041	929	99	2071
Grant, Max, assignor to H. W. Stannard, J. F. Melody, and W. H. Wade, Chicago, Ill. Can.....	695,879	Mar. 18	2872	651	98	2347
Grant, Thomas, Tottenville, N. Y., assignor of one-half to H. A. Cohen, Salt Lake City, Utah. Plug-valve and packing.....	714,298	Nov. 25	3598	791	101	1601
Grant, William W. (See Vanata, Thomas D., assignor.).....						
Grant, Willis C., Ashtabula, Ohio. Machine for making veneer barrels.....	708,632	Sept. 9	1130	255	100	2222
Granton, Clifton A., Haverhill, Mass. Valve for hot-water radiators.....	695,046	Mar. 11	1369	301	98	2019
Granton, Clifton A., Haverhill, Mass. Roof-joint.....	696,139	Mar. 25	3397	765	98	2471
Grapengeter, Johannes, Hamburg, Germany. Steam pile-driver.....	693,600	Feb. 18	2639	582	98	1388
Grapes, George H., Wellington, New Zealand. Hoe.....	701,330	June 3	98	20	99	2129
Grasse, Consuelo F. de, Paris, France. Box for cores.....	703,191	June 24	3539	814	99	2887
Grasselli Chemical Company. (See Limhe, Iens P., assignor.).....						
Graton and Knight Manufacturing Company. (See Murdock, Tracy, assignor.).....						
Grael, Edwin L., Carthage, N. Y. Signal for composite telegraphic and telephonic transmission.....	700,911	May 27	3515	807	99	1949
Grael, Edwin L., Carthage, N. Y. Signaling and telephoning apparatus.....	700,912	May 27	3518	807	99	1949



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Graves, Andrew H., Lamoni, Iowa. Hay rake and stacker.....	714,795	Dec. 2	292	68	101	1896
Graves, Eugene E., Black River, N. Y. Game .....	695,386	Mar. 11	1976	442 443	98	2145
Graves, George A., assignor of two-thirds to T. W. Cunningham and A. Reynolds, Joplin, Mo. Carburetor for explosive-engines .....	705,995	July 29	5136	1120	100	1100
Graves, George A., assignor of two-thirds to A. Reynolds and T. W. Cunningham, Joplin, Mo. Spark for explosive-engines .....	705,996	July 29	5137	1120	100	1100
Graves, George W., Rochester, assignor of one-half to J. F. Mills, Jr., Port Chester, N. Y. Burner for baking-ovens .....	698,010	Apr. 22	3029	665	99	692
Graves, George W., Rochester, and J. F. Mills, Jr., Port Chester, N. Y. Gas stove or range .....	698,009	Apr. 22	3027	665	99	692
Graves, Salathiel V., McFall, Mo. Insect-destroyer .....	701,560	June 3	507	112	99	2213
Gravity Coaster Manufacturing Company. (See Keyes, Harry E., assignor.) .....	717,390	Dec. 30	5413	1177	101	3046
Gray, Adelbert S., Brice, Ohio. Nut-wrench .....	694,959	Mar. 11	1201	263	98	1963
Gray, Alexander, Sutton, England. Variable-speed gear .....	697,838	Apr. 15	2701	600	99	605
Gray, Alexander, Newcastle-upon-Tyne, assignor of one-half to T. Thompson, Blackheath, England. Apparatus for purifying water for steam-generators .....	697,838	Apr. 15	2701	600	99	605
Gray, Almon J., Pepin, Wis., assignor of one-half to N. A. Gray, St. Paul, Minn. Game-cue .....	690,945	Jan. 14	1085	244	98	243
Gray, Almon J., Pepin, Wis., assignor of one-half to N. A. Gray, St. Paul, Minn. Game-cue .....	701,264	May 27	4163	956	99	2083
Gray, Christian N. E., assignor of one-half to J. P. Mulvaney, Chicago, Ill. Broadcast-seeding-machine .....	713,300	Nov. 11	1643	369 370	101	1248
Gray, Edward N., Chicago, Ill. Sash-holder .....	700,324	May 20	2383	543	99	1697
Gray, Frank, Chicago, Ill. Valve and alarm .....	693,320	Feb. 11	2076	454	98	1251
Gray, Frank, Chicago, Ill. Valve .....	693,321	Feb. 11	2079	454	98	1252
Gray, Frank, Chicago, Ill. Alarm for fire-extinguishing systems .....	693,322	Feb. 11	2081	454	98	1252
Gray, Frank, Chicago, Ill. Valve and alarm. (Reissue) .....	11,988	May 13	2085	465	99	1604
Gray, Frank, Chicago, Ill. Valve for fire-extinguisher systems .....	711,960	Oct. 28	3044	668	101	682
Gray, George. (See Bower, Sigmund, assignor.) .....	690,419	Jan. 7	55	13	98	15
Gray, George, Brooklyn, N. Y. Globe-holder .....	708,707	Sept. 9	1281	292	100	2232
Gray, George F. and H. N., and R. South, San Francisco, Cal. Kiln-burning apparatus. Gray, Harry B., Johnstone River, Queensland, Australia. Sugar-cane-trash gatherer, cutter, and spreader .....	714,475	Nov. 25	3901	862	101	1750
Gray, Hiram B., assignor of one-half to V. J. Craytor, Conneaut, Ohio. Safety hoisting-hook for ore-buckets, &c. ....	705,526	July 22	4263	922	100	911
Gray, Howard A., Plainfield, Ill. Electric igniter for explosive-engines .....	709,598	Sept. 23	3106	692	100	2967
Gray, Howard H., Huntington, Ind. Lawn-sprinkler .....	702,792	June 17	2760	635	99	2714
Gray, Irwin M., (See Nash, George D., assignor.) .....						
Gray, Irwin M., et al. (See Holland, Joseph R., assignor.) .....						
Gray, Isaac V. (See Warfel, Henry C., assignor.) .....						
Gray, John, Newcastle-upon-Tyne, England. Linotype or similar composing-machine .....	703,248	June 24	3635	834 835 836	99	2907
Gray, John, Sr., assignor of one-half to C. S. Campbell, Washington, D. C. Boring-tool .....	696,902	Apr. 1	977	218	99	207
Gray, Joseph W., Fowler, Ind. Repeater for telegraph-lines .....	700,037	May 13	1761	407	99	1350
Gray, Lawrence B., Studley, Va. Lock-nut .....	695,304	Mar. 11	1855	412	98	2118
Gray, Niel, Jr., Oswego, N. Y. Paper-cutting machine .....	710,451	Oct. 7	98	21,22	101	21
Gray, Norman A. (See Gray, Almon J., assignor.) .....						
Gray, Richard, Bloomington, Ill. Metal arch .....	701,034	May 27	3754	859 860	99	2000
Gray, Robert K., London, England. Ball .....	702,942	June 24	3057	703	99	2791
Gray, Seward F., Titusville, Ind. Producing tanning agents from the saw-palmetto .....	703,058	June 24	3230		99	2986
Gray, Thomas. (See Vogelbach and Gray.) .....						
Gray, Thomas U., London, England. Rotary motor .....	704,456	July 8	2032	441	100	429
Gray, William S. (See Upton and Gray.) .....						
Grayson, William. (See Creceilus, Louis J., assignor.) .....						
Grazier, Gideon, Tyrone, Pa. Combined spike-puller and car-mover .....	692,272	Feb. 4	106	25	98	820
Great Eastern Manufacturing Company. (See Dieter, Alvin A., assignor.) .....						
Great Western Stove Company. (See Galbraith, Robert, assignor.) .....						
Greaves, John F., St. Louis, Mo. Coupling for conduit-rods .....	709,762	Sept. 23	3408	765	100	2727
Green, A. C. (See Bush, Andrew J., assignor.) .....						
Green, Annie G., Brooklyn, N. Y. Folding baby-carriage .....	707,772	Aug. 26	3448	777	100	1876
Green, Carl A., Katrineholm, and H. E. Larsson, Stockholm, Sweden. Self-strewing sand-carriage .....	716,409	Dec. 23	3429	748	101	2597
Green, Charles M., Houston, Tex., assignor to S. T. Westdal, Minnesota, Minn. Ballot-box .....	694,543	Mar. 4	403	88	98	1798
Green, Henry, Pekin, assignor to General Electric Company. Regulator for dynamo-electric machines .....	690,420	Jan. 7	56	13	98	15
Green, E. H. R. (See Ruebel, C. A. Ernst, assignor.) .....						
Green, Edward A., Battlereck, Mich., assignor to American Construction Company. Monorailway .....	709,263	Sept. 16	2415	547	100	2509
Green, Edwin B., Whiting, Ind. Railway-switch .....	690,421	Jan. 7	62	14	98	16
Green, Frank D., Philadelphia, Pa. Double-stream draft-tube .....	696,329	Mar. 25	3792	845	98	2351
Green, George A., assignor to J. S. Wright, Duxbury, Mass. Telegraph-sounder .....	697,619	Apr. 15	2906	513	99	521
Green, George D. (See Sager and Green.) .....						
Green, George E., Greencastle, Mo. Pump .....	710,856	Oct. 7	870	191	101	178
Green, George M., Boston, Mass. Miter-box .....	713,213	Nov. 11	1420	321	101	1205
Green, George S., Dayton, Ohio, assignor, by mesne assignments, to National Cash Register Company, Jersey City, N. J. Cash-register .....	707,408	Aug. 19	2683	606	100	1702
Green, Henry, Pekin, assignor to Acme Harvester Company, Peoria, Ill. Bundle-carrier for harvesters .....	697,142	Apr. 8	1430	1318 1319	99	324
Green, Henry, Pekin, assignor to Acme Harvester Company, Peoria, Ill. Hay-retarding device .....	710,967	Oct. 14	1071	236	101	234
Green, Henry, assignor to Acme Harvester Company, Pekin, Ill. Mechanism for changing the elevation of header-platforms .....	704,632	July 15	2358	512 513	100	508
Green, Henry, assignor to Acme Harvester Company, Pekin, Ill. Push-rake .....	709,264	Sept. 16	2417	547 548	100	2509
Green, Ira L., Watertown, N. Y. Photographic-plate holder .....	715,369	Dec. 9	1369	248	101	2135
Green, Isaiah M., Terre Haute, assignor of one-half to A. Ferry, Vermont, Ind. Tire-setter .....	713,002	Nov. 4	1004	235	101	1101
Green, James. (See Dols, John C., assignor.) .....						
Green, James E. (See Robinson and Green.) .....						
Green, James O., and H. T. Martin, Whitewater, Wis. Converting peat into fuel .....	700,190	May 20	2099		99	1640
Green, Jennie D., et al. (See Green, Thomas R., assignor.) .....						
Green, John J., Bounton, N. J. Hammer .....	711,206	Oct. 14	1579	338	101	343

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Green, Joshua J., Shreveport, La. Removing fiber from cotton-seed.....	695,305	Mar. 11	1856	413	98	2118
Green, Ollie E. (See Baldwin and Greer.)						
Green, Richard T., Everett, Mass. Construction of ships.....	705,342	July 22	3890	842	100	835
Green, Robert M., Jr., assignor to R. M. Green & Sons, Philadelphia, Pa. Syrup-cock for soda-water fountains.....	702,131	June 10	1531	345	99	2441
Green, Robert M., Jr., assignor to R. M. Green & Sons, Philadelphia, Pa. Soda-water apparatus.....	702,132	June 10	1532	346	99	2441
Green, Robert M. and Robert M., Jr., Philadelphia, Pa. Soda-water apparatus.....	702,133	June 10	1533	346	99	2442
Green, Samuel S. (See Stoneman, Orville A., assignor.)						
Green & Sons, Robert M. (See Green, Robert M., Jr., assignor.)						
Green, Thomas R., assignor of fifty-five per cent. to N. Hart and J. D. Green, Anaheim, Cal. Valve mechanism.....	716,836	Dec. 16	3271	714	101	2549
Green, William M., Evanston, J. R. Gent, Chicago, and H. A. Poppenhusen, Evanston, Ill. Furnace.....	697,620	Apr. 15	2307	516 517	99	521
Greenamyer, Clarence V. (See Donnatini and Greenamyer.)						
Greenawalt, John E., assignor of one-half to W. Robinson, Denver, Colo. Oxidizing-furnace.....	717,093	Dec. 30	4855	1052	101	2925
Greencastle Automobile Company. (See Blake and Bell, assignors.)						
Greene, Benjamin P. (See Gates, William H., assignor.)						
Greene, Carl H. (See Tansley, Clinton A., assignor.)						
Greene, Carleton, and W. M. Dollar, Buffalo, assignors to Barber Asphalt Paving Company, New York, N. Y. Apparatus for heating granular substances.....	692,199	Jan. 28	3440	778	98	764
Greene, Edgeworth, Montclair, N. J., assignor, by mesne assignments, to American Rubber Works Company. Pneumatic vehicle-tire.....	697,621	Apr. 15	2314	517	99	522
Greene, Edwin R., Providence, R. I. Electric fly-trap.....	698,274	Apr. 22	3546	781	99	800
Greene, F. B. (See Maas, Charles E., assignor.)						
Greene, Frank G., Albany, N. Y. Mowing-machine-knife grinder.....	694,876	Mar. 4	74	17	98	1727
Greene, Frank L., and S. D. Wood, said Wood assignor to L. J. Greene, Wellesboro, Pa. Currycomb.....	711,423	Oct. 14	1959	426	101	423
Greene, Frank R. (See Hoffmann, Otto C., assignor.)						
Greene, George A., Rogers, Tex. Hydrocarbon-burner for stoves or furnaces.....	708,343	Sept. 2	634	143	100	2110
Greene, Henry H., Milwaukee, Wis. Stop-fastening.....	715,785	Dec. 16	2169	485	101	2318
Greene, James G., Elizabeth, N. J., assignor to Singer Manufacturing Company. Purling device for overedge sewing-machines.....	705,230	July 22	3624	785	100	783
Greene, John, Warrington, England. File and rasp cutting machine.....	691,622	Jan. 21	2371	533 534	98	527
Greene, John, assignor of one-half to J. J. T. Reese, Reese, N. C. Lumber-measure.....	702,200	June 10	1656	371	99	2466
Greene, Lewis J. (See Greene and Wood, assignors.)						
Greene, Merritt. (See Felt, Frank B., assignor.)						
Greene, Samuel G., Baltimore, Md. Curtain pole and hanger.....	706,315	Aug. 5	627	137	100	1243
Greene, Samuel P., et al. (See Ricker, James H., assignor.)						
Greene, Thomas D., Syracuse, N. Y. Time-recorder.....	707,583	Aug. 26	3080	682	100	1790
Greene, William, and S. Chisholm, San Francisco, Cal. Weighing and recording apparatus.....	690,855	Jan. 7	922	206	98	194
Greene, William J. (See Blocker, Samuel D., assignor.)						
Greeney, Michael J., Buffalo, N. Y. Insulated rail-joint.....	711,105	Oct. 14	1353	294	101	294
Greenfield, George H., Moravia, N. Y. Silo.....	694,377	Mar. 4	75	17	98	1727
Greenfield, Henry M., Philadelphia, Pa. Folding wardrobe.....	710,680	Oct. 7	541	112 113	101	110
Greening, Frederick, Plumstead Common, assignor to F. H. Bowden, London, and S. H. Dodd, Blackheath, England. Manufacture of electrically-insulating and waterproofing materials.....	701,713	June 3	780		99	2272
Greenland, Gustave, Braddock, Pa. Match-box.....	697,245	Apr. 8	1603	360	99	359
Greenlaw, Frances A., and M. E. Holmes, Marinette, Wis. Table.....	715,055	Dec. 2	785	167	101	1995
Greenleaf, Abner, et al., executors. (See Margenthaler and Hoofnagle.)						
Greenleaf, Charles E., assignor to Parson's Band Cutter and Self Feeder Co., Newton, Iowa. Wrench.....	711,422	Oct. 14	1958	426	101	422
Greenman, Mary J. R., Wilkesbarre, Pa. Hardening metals.....	710,452	Oct. 7	99		101	22
Greenman, William J., Cortland, N. Y. Extensible window-screen.....	700,638	May 20	2959	680	99	1818
Greensfelder, Joseph S., et al. (See Painter, Orrin C., assignor.)						
Greensfelder, Lew S., et al. (See Painter, Orrin C., assignor.)						
Greenwalt, Dan, and J. B. Dawson, Breckenridge, Colo. Drill-shaper.....	707,584	Aug. 26	3084	682	100	1790
Greenwood, George W., Cleveland, Ohio. Knee-joint or hinge connection.....	696,235	Mar. 25	3582	802	98	2505
Greenwood, George W., Cleveland, Ohio. Knee-joint or hinge connection.....	704,321	July 8	1776	387	100	373
Greenwood, George W., Cleveland, Ohio. Brake mechanism.....	704,534	July 15	2203	477	100	477
Greenwood, Harry, Barnesboro, Pa. Flat-iron-handle attachment.....	703,699	July 1	604	134	100	119
Greenwood, William J., Tarentum, assignor to C. L. Flaccus, Pittsburg, Pa. Press-mold for hollow articles.....	696,430	Apr. 1	67	16	99	18
Greer, Fredric, Chicago, Ill. Medical battery.....	649,677	May 13	1058	247	99	1406
Greer Lever Fish Hook Company. (See Greer, Moses, assignor.)						
Greer, Moses, assignor to Greer Lever Fish Hook Company, Atlanta, Ga. Fish-trap hook.....	705,750	July 29	4712	1019	100	1012
Greer, Sherman, and J. H. Gore, Lincoln, Nebr. Folding crate.....	707,919	Aug. 26	3743	839	100	1933
Greer, William N., and H. Harris, Greeley, Nebr. Head-rest.....	631,851	Jan. 28	2390	636	98	641
Gregg, Samuel A., Sedalia, Mo. Holder for pegs for stringed musical instruments.....	711,396	Oct. 14	1918	417	101	414
Gregg, William C., Minneapolis, Minn. Cane-unloading machine.....	708,634	Sept. 9	1102	255 256	100	2222
Gregg, William C., Minneapolis, Minn., assignor to Wm. C. Gregg & Co. Railway-tie. (Reissue).....	12,025	Aug. 26	3897	876	100	1964
Gregg, William C., assignor to William C. Gregg & Co., Minneapolis, Minn. Portable cradle for hauling and handling sugar-cane.....	715,572	Dec. 9	1757	389	101	2211
Gregory, Daniel L., Chicago, Ill. Ellipsograph.....	707,580	Aug. 26	3026	681	100	1789
Gregory, Fred L., Chicago, Ill. Ignition system.....	696,885	Apr. 1	840	214	99	198
Gregory, George, New York, N. Y. Brake-valve.....	707,581	Aug. 26	3027	681	100	1789
Gregory, George, London, assignor of two-thirds to R. Gregory, Islington, London, and J. H. Foster, Greenwich, England. Smoke-preventing and fuel-saving device for boiler or other furnaces.....	694,147	Feb. 25	3675	813	98	1616
Gregory, George H., New York, N. Y. Gas-regulator.....	713,093	Nov. 11	1198	372	101	1159
Gregory, George W. (See Ford and Stohle, assignors.)						
Gregory, John B. (See Horsley, James, assignor.)						
Gregory, Joseph, New York, N. Y. Lamp-burner.....	693,006	Feb. 11	1452	315	98	1124
Gregory, Joseph H., Morris Plains, N. J. Shaft-support for vehicles.....	698,489	Apr. 29	3917	866	99	893
Gregory, Robert, et al. (See Gregory, George, assignor.)						
Gregory, Robert G. (See Prentice and Gregory.)						
Gregory, Stephen, Trinidad, Colo. Combined hub spindle and thimble.....	711,395	Oct. 14	1916	417	101	414
Gregory, Walter L., Springfield, Mass. Vehicle-tire.....	707,582	Aug. 26	3028	682	100	1790



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Greif, John H., <i>et al.</i> (See Hochspeier, William F., assignor.)						
Greif, Louis H., <i>et al.</i> (See Hochspeier, William F., assignor.)						
Greil, Ernest, and E. Audiger, Paris, France, assignors, by mesne assignments, to National Electric Improvement Company, New York, N. Y. Electric contact or current-taking device. (Reissue).....	11,968	Feb. 18	3038	671	98	1469
Greil, Ernest, and E. Audiger, Paris, France, assignors, by mesne assignments, to National Electric Improvement Company, New York, N. Y. Electric contact or current-taking device. (Reissue).....	11,969	Feb. 18	3040	671	98	1470
Greil, Ernest, and E. Audiger, Paris, France, assignors, by mesne assignments, to National Electric Improvement Company, New York, N. Y. Electric contact or current-taking device. (Reissue).....	11,970	Feb. 18	3042	672	98	1470
Greinet, Herman, Buffalo, N. Y. Detonating toy.....	694,633	Mar. 4	563	123	98	1832
Greist, John M., New Haven, Conn. Tuck-cripper for sewing machines.....	698,011	Apr. 23	3330	666	99	693
Greite, Gustav, Guttenberg, N. J., assignor to A. Hollander, New York, N. Y. Necktie-fastener.....	686,810	Apr. 1	786	179	99	167
Grellner, Christopher J., St. Louis, Mo. Wedge.....	715,786	Dec. 16	2171	485	101	2318
Grenfell, Hubert H., Hants, England. Elevating and sight-adjusting gear for ordnance.....	693,702	Feb. 18	2835	631 632	98	1426
Grenfell, Hubert H., Alverstoke, England. Signaling apparatus.....	696,330	Mar. 25	3794	846	98	2551
Grenfell, Hubert H., London, England. Escapement for electromagnetically-controlled clocks.....	704,874	July 15	2806	607	100	600
Grenier Art Company. (See Grenier, Prosper M. C., assignor.)						
Grenier, Prosper M. C., New York, N. Y., assignor to Grenier Art Company. Photographic fabric and preparing same.....	696,632	Apr. 1	432		99	93
Grath, Joseph, assignor of one-half to J. L. Adams, New York, N. Y. Balloon-observatory.....	691,719	Jan. 21	2541	569	98	564
Grether, John. (See Travis, John J., assignor.)						
Grether, John, <i>et al.</i> (See Wilke, Ferdinand, assignor.)						
Gretter, Victor, Chicago, Ill. Needle-valve injector.....	693,645	Feb. 18	2719	600	98	1405
Greule, Herman J., Mason City, Iowa. Button for telegraphers' keys, &c.....	714,299	Nov. 25	3599	792	101	1692
Grevel, August, Cologne, Germany. Air-escape valve.....	698,012	Apr. 22	3032	666	99	693
Grever, Albert E. (See Stone, Clarence, assignor.)						
Grey, Sylvester P., assignor of one-half to F. Hownstein, Fort Wayne, Ind. Coin-controlled telephone.....	694,960	Mar. 11	1202	263	98	1983
Grey, Sylvester P., assignor of one-half to F. Hownstein, Fort Wayne, Ind. Coin-controlled telephone.....	708,138	Sept. 2	260	62	100	2035
Greystone Manufacturing Company. (See Wells, Stephen M., Jr., assignor.)						
Grider, Andrews B., Milwaukee, Wis. Device for overcoming dead-centers.....	711,494	Oct. 21	2109	457	101	468
Gridley, Charles A., <i>et al.</i> (See Hanford, Orin A., assignor.)						
Gridley, Charles C., Columbus, Ohio. Collar turning and ironing machine.....	705,096	July 29	4548	988	100	981
Gridley, George O., Windsor, Vt. Stay-bolt and making same.....	689,678	May 18	1059	247	99	1406
Grieb, James L., Philadelphia, Pa. Railway-tie.....	709,481	Sept. 23	2893	646	100	2623
Grienauer, Karl, New York, N. Y. Stringed musical instrument.....	703,572	July 1	346	79	100	70
Grier, William W., Goshen, Ind. Printing-cylinder.....	711,495	Oct. 21	2111	458	101	468
Griesche, Gustav, Berkeley, Cal. Electric re-heater for steam.....	695,206	Mar. 11	1670	371	98	2081
Griesser, Wilhelm, New York, N. Y. Cask-support.....	694,396	Feb. 25	3912	808	98	1662
Griesser, Wilhelm, New York, N. Y. Brewer's vat.....	694,267	Feb. 25	3913	809	98	1662
Griesser, Wilhelm, New York, N. Y. Cooling apparatus.....	710,857	Oct. 7	880	191	101	178
Griesser, Wilhelm, New York, N. Y. Window for refrigerating-rooms or the like.....	710,858	Oct. 7	882	192	101	179
Griesser, Wilhelm, New York, N. Y. Refrigerator-door.....	710,859	Oct. 7	884	192	101	179
Griffin, John D., New York, N. Y. Type-writer.....	704,535	July 15	2205	477 478	100	477
Griffin, John D., assignor to Standard Power Company, New York, N. Y. Running-gear for motor-vehicles.....	695,207	Mar. 11	1671	371	98	2081
Griffith, Clark A. (See Maggard, Charles J., assignor.)						
Griffith, James R., Norwalk, and H. Morehouse, East Norwalk, Conn. Hat-brim trimmer.....	702,870	June 17	2900	671	99	2744
Griffin, Albert B., assignor of two-thirds to W. A. Spratt and J. W. Millard, Hamilton, Canada. Post-hole-digger.....	715,260	Dec. 9	1165	249	101	2693
Griffin, Albert P., assignor of one-half to W. E. Hagan, Troy, N. Y. Mantle-holder for gas-burners.....	692,441	Feb. 4	385	93	98	878
Griffin, Arthur L. (See Beers and Griffin.)						
Griffin, Byron, <i>et al.</i> (See Dent, Frank W., assignor.)						
Griffin, Ernest F., Finchley, and W. E. Higgs, London, England. Press for working sheet metal.....	697,477	Apr. 15	2052	453	99	471
Griffin, Ernest F., Finchley, and W. E. Higgs, London, England. Sheet-metal box or can.....	697,692	Apr. 15	2315	517	99	523
Griffin, John, Scottville, Mich. Milk-pail.....	701,331	June 3	99	20	99	2120
Griffin, John B., and S. C. Anderson, Van Alstyne, Tex. Compress and packer.....	702,201	June 10	1659	371 372	99	2467
Griffin, Michael J., Holyoke, Mass. Buckle.....	701,591	June 3	508	112	99	2213
Griffin, Percy, Orange, N. J. Brick.....	697,014	Apr. 15	2483	637	99	634
Griffin, Thomas, Berlin, N. H. Combined pencil-clip and calendar.....	692,514	Feb. 4	529	124	98	905
Griffin, Thomas, Berlin, N. H. Combined pencil-clip and calendar.....	694,098	Feb. 25	3995	795	98	1600
Griffin, Thomas J., Galveston, Tex., assignor, by mesne assignments, to Planters Compress Company. Cotton-compress.....	715,787	Dec. 16	2172	486	101	2318
Griffin, William G., Washington, D. C. Roller-bearing.....	703,405	July 1	76	15	100	18
Griffin, William H., Jersey City, N. J. Window shade and curtain holder.....	703,059	June 24	3281	755	99	2837
Griffith, Albert W., <i>et al.</i> (See Prescott, Joseph D., assignor.)						
Griffith, Charles E., assignor to Winchester Repeating Arms Co., New Haven, Conn. Breach-loading cannon.....	713,874	Nov. 18	2718	607	101	1488
Griffith, Frederick T., Los Angeles, Cal. Temperature-preserving bottle-cover.....	704,372	July 15	3005	659	100	654
Griffith, Harry B. (See Way, Henry E., assignor.)						
Griffith, Thomas L., Cincinnati, Ohio. Core-oven.....	705,665	July 29	4547	987	100	981
Griffith, William, Pittsburg, Pa. Plating metal.....	704,793	July 15	2645	572	100	567
Griffiths, Albert F., Victoria, Canada. Log-raft.....	711,847	Oct. 21	2783	616	101	610
Griffiths, David J., H. W. Hitzrot, and C. W. Mower, McKeesport, Pa. Railway-switch.....	694,058	Feb. 25	3533	779 779	98	1587
Griffiths, David L. (See Brandt and Griffiths.)						
Griffiths, Griffith W., Moreau Colliery, Pa., assignor of one-half to G. E. Lees. Drill.....	715,657	Dec. 9	1898	424	101	2341
Griffiths, Oliver W., Brooklyn, N. Y. Bicycle.....	704,029	July 8	1223	264	100	258
Griffiths, Spencer M., Philadelphia, assignor of one-half to C. Pierson, Bala, Pa. Glove.....	704,961	July 15	3046	653	100	651
Griffiths, William U., Philadelphia, Pa. Spray-nozzle for urinals.....	703,651	July 1	505	114	100	98
Griffiths, William U., Philadelphia, Pa. Expansion-bolt.....	703,652	July 1	507	114	100	98

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Grigg, George R., Coffeyville, Kans. Grain-car door	712,926	Nov. 4	866	201	101	1074
Grigg, Joseph, Colonie, assignor to Covert Manufacturing Company, Watervliet, N. Y. Snap-book	701,832	June 3	100	20	99	2130
Griggs, George M., Scottsdale, Pa. Car-brake	709,981	Sept. 30	3867	871	100	2836
Griggs, James W., Frost, Tex. Bale-tie	711,961	Oct. 28	3047	669	101	683
Grill, Enoch, Tustin, assignor to W. J. Kennedy, Grand Rapids, Mich. Painting apparatus	696,331	Mar. 25	3797	846	98	2532
Grill, John H. (See Stanglen, Charles W., assignor.)				847		
Grill, Levi, Cleveland, Ohio. Rotary drier	709,704	Sept. 23	3287	737	100	2703
Grim, Adam. (See Blocher, John, assignor.)						
Grimes, Charles D., W. W. Sunderland, and B. F. Eilerman, Dayton, Ohio. Counting and registering machine	706,652	Aug. 12	1256	278	100	1388
Grimes, Frank M. (See Kelley, Richard J., assignor.)				279		
Grimes, William F., Carnegie, Pa. Combined door-check and burglar-alarm tubing	708,344	Sept. 2	636	144	100	2110
Grimm, Gerhard E., Camden, N. J., assignor to S. Mason. Machine for making spiral	706,518	Aug. 12	1587	436	100	1458
Grimm, Gustav H., Rutland, Vt. Water-reservoir for ranges	703,249	June 21	3638	836	99	2908
Grimm, Hugo, Erfurt, Germany. Mustard-pot	703,350	June 24	3641	887	99	2909
Grimm, Theodore E., Newark, N. J., assignor to J. K. Osborn Manufacturing Company. Bag-frame catch	713,429	Nov. 11	1859	421	101	1296
Grimoin-Sanson, Raoul. (See Phillips, Lebel, and Grimoin-Sanson.)						
Grimshaw, Benjamin N., Pittsfield, Ill. Display-rack	706,929	Aug. 12	1788	400	100	1490
Grimshaw, Benjamin N., Pittsfield, Ill. Display-rack	706,930	Aug. 12	1790	401	100	1500
Grindell, Charles S., Claiborne, Ohio. Whittetree-hook	710,573	Oct. 7	337	73	101	68
Grinder, Joseph E., Washington, D. C. Press for making brick	694,000	Feb. 25	3434	756	98	1567
Griner, Georges J. A. (See Loppé, Morin, Griner and Martin.)						
Grinnell, Alonzo P. (See Proctor, William A., assignor.)						
Grinnell, Frederick, New Bedford, Mass., assignor to General Fire Extinguishing Company, New York, N. Y. Automatic fire-extinguisher	691,760	Jan. 28	2655	594	98	605
Grippin, William H., Newark, N. Y. Apparatus for applying fillers to floors	699,307	May 6	336	78	99	1242
Griscom, Alfred C., assignor of one-half to R. Collings, New York, N. Y. Automatic switch for electric pumps	707,967	Aug. 26	3824	800	100	1949
Grise, Edward S., Ottawa, Ohio. Nut-lock	708,635	Sept. 9	1134	256	100	2223
Grisel, Alphonse E. (See Juge and Grisel.)						
Grist, Henry, Horsham, England. Wind-motor	713,094	Nov. 11	1194	272	101	1159
Grist, Laura H., New York, N. Y. Culinary device	708,783	July 1	748	165	100	150
Gristock, Fred W., et al. (See Gasper, Frank W., assignor.)				273		
Griswell, John C., et al. (See Yonge, Chandler I., assignor.)				274		
Griswold Dental Bridge Company. (See Griswold, William E., assignor.)						
Griswold, George M., New Haven, Conn. Paper-box stacker and drier	694,634	Mar. 4	566	123	98	1832
Griswold, George M., New Haven, Conn. Paper-box blank feeding and folding mechanism	694,635	Mar. 4	570	124	98	1833
Griswold, George W., Manomet, assignor of one-half to F. A. Ware, Boston, Mass. Game apparatus	710,968	Oct. 14	1072	237	101	234
Griswold, Matthew, Jr., Erie, Pa. Tumbling-machine	695,102	Mar. 11	1402	324	98	2437
Griswold, Matthew, Jr., Erie, Pa. Gas-stove	710,053	Sept. 30	3987	899	100	2861
Griswold, Norman W., Honolulu, Hawaii. Watering trough, bowl, or basin	708,345	Sept. 2	637	144	100	2111
Griswold, William E., assignor to Griswold Dental Bridge Company, Denver, Colo. Dental impression-cup	702,645	June 17	2489	571	99	2658
Griswold, William E., assignor to Griswold Dental Bridge Company, Denver, Colo. Dental tool	702,646	June 17	2490	571	99	2658
Griswold, William E., assignor to Griswold Dental Bridge Company, Denver, Colo. Dental fastening and bridgework	702,857	June 17	2883	666	99	2741
Griswold, William E., assignor to Griswold Dental Bridge Company, Denver, Colo. Securing device for dental bridgework	702,871	June 17	2904	672	99	2745
Griswold, William M., Monroe, V. Va. Clevis	703,060	June 24	3282	755	99	2837
Griswold, William W. (See Bolton, James D., assignor.)						
Gritton, George A., administrator. (See Rodgers, Robert.)						
Grirot, Adolph, et al. (See Gearing, Charles M., assignor.)						
Grob, George. (See Erich, George, assignor.)						
Grobet, Georges, and C. Bernasconi, Vallorbe, Switzerland. Damper-operating apparatus	708,507	Sept. 9	1483	340	100	2297
Grocott, Willis W., St. Louis, Mo. Metallic lining for coffins	717,391	Dec. 30	5414	1177	101	3046
Grochli, Joseph A., assignor to Kursheedt Manufacturing Company, New York, N. Y. Tubular braid	698,490	Apr. 29	3918	866	99	803
Groen, Herman A., et al. (See Stuurtman, John H. G., assignor.)						
Groen, Joseph A., et al. (See Stuurtman, John H. G., assignor.)						
Groendyke, John, Danville, Ill. Churn	697,204	Apr. 8	1543	345	99	347
Groff, John M., and E. P. Coulter, North Lawrence, Ohio. Whip-socket	695,719	Mar. 18	3575	533	98	3285
Groff, John W., Abilene, Mich. Fire-escape	693,646	Feb. 18	2721	690	98	1405
Grogn, Anders, and V. Winston Salem, N. C. Circular handsaw	711,207	Oct. 14	1580	339	101	343
Grohmann, Carl F., Güstrow, Germany. Device for steering agricultural machines	694,010	Feb. 25	3435	757	98	1597
Grohmann, Carl F., Güstrow, Germany. Device for emptying collecting-boxes of harvesting-machines	716,706	Dec. 23	4011	878	101	2720
Groll, Charles, Roubaix, France. Rotary furnace	694,268	Feb. 25	3915	869	98	1603
Gröndal, Gustaf, Pitkäranta, Russia. Magnetic separator	691,262	Jan. 14	1662	378	98	2611
Gronbach, George H., S. Brillard, and J. L. Labranche, Waterville, Me. Truck	708,346	Sept. 2	639	144	100	392
Gronwald, Andreas, assignor to T. H. Holton, Providence, R. I. Machine for polishing table-knives	711,397	Oct. 14	1918	417	101	414
Groobey, George, Chicago, Ill. Uncoupling mechanism for railway-cars	709,706	Sept. 23	3290	738	100	2704
Groobey, George, Chicago, Ill. Means for uncoupling cars	709,707	Sept. 23	3292	738	100	2704
Groobey, George, Chicago, Ill., and S. P. Bush, Columbus, Ohio. Uncoupling mechanism for railway-cars	709,708	Sept. 23	3293	739	100	2705
Groobridge, Charles, assignor of one-half to W. A. South, London, England. Propeller for air-ships	697,403	Apr. 8	1903	425	99	424
Groppler, Robert, Berlin, Germany. Solidifying formaldehyde	705,667	July 29	4550	-----	100	981
Groschen, Joseph P. (See Ghrist and Groschen.)						
Grosheim, Harry H. (See Grosheim, John G. and H. H.)						
Grosheim, John G. and H. H., Cincinnati, Ohio. Cloth-cutting machine	703,784	July 1	749	166	100	150



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Groshon, John A., New York, assignor of one-half to M. T. Davidson, Brooklyn, N. Y. Governor-controlled valve-gear.....	704,586	July 15	2210	478	100	478
Groshon, John A., New York, assignor of one-half to M. T. Davidson, Brooklyn, N. Y. Steam pumping-engine.....	711,702	Oct. 21	2510	551	101	553
Grosjean, Wallace D., assignor to C. A. Lee, Canastota, N. Y. Foot-rest for chairs.....	710,321	Sept. 30	4495	1013	100	2970
Grosnickle, Emanuel M., North Manchester, Ind. Gate.....	710,575	Oct. 7	339	73	101	68
Gross, Albert S. (See Scharnweber, William, assignor.)						
Gross, Elwood. (See Gross, Frederick H. and E.)						
Gross, Frederick H. and E., Plymouth, Pa. Miner's squib.....	698,964	Feb. 25	3329	731	98	1546
Gross, Harry P., Jr., Baltimore, Md. Fastening for washstands.....	693,387	Mar. 11	1978	443	98	2151
Gross, Henry P., Baltimore, Md. Window-shade guide for shade-rollers.....	696,037	Mar. 25	3180	717	98	2424
Gross, John. (See Cohen and Gross.)						
Gross, Louis N., Cleveland, Ohio. Waistband.....	701,333	June 3	101	21	99	2130
Gross, Rudolph, Brenham, Tex. Pedal attachment.....	701,714	June 3	781	173	99	2272
Gross, William M., Ogden, Utah. Excavator.....	693,266	Feb. 11	1985	431	98	1232
Grossmann, Albert, Brooklyn, N. Y. Automatically-controlled conveyer.....	710,574	Oct. 7	338	73	101	68
Grosvenor, Wallace, and W. Milner, Casselton, N. D. Metallic wagon-box.....	709,705	Sept. 23	3288	738	100	2704
Grote Bottle Machine Company. (See Grote, Ludwig, assignor.)						
Grote, Ludwig, Tottenham, England. Cap or stopper for bottles or other receptacles.....	714,892	Dec. 2	507	106	101	1937
Grote, Ludwig, London, England, assignor to Grote Bottle Machine Company, Jersey City, N. J. Finishing-mold for making glass bottles.....	691,463	Jan. 21	2085	467	98	469
Grote, Ludwig, London, England, assignor to Grote Bottle Machine Company, Jersey City, N. J. Machine for making glass bottles.....	700,191	May 20	2100	481	99	1640
Grotenhuis, William J., Chicago, Ill. Garment-stretcher.....	695,924	Mar. 25	2961	670	98	2379
Grothe, August, assignor of one-half to H. Kraemer, Wanne, Germany. Shaft-door and stage locking device.....	701,809	June 3	938	208	99	2305
Grothe, Charles, Philadelphia, Pa. Culinary vessel.....	710,681	Oct. 7	542	113	101	111
Grothe, Frederick H., Burlington, Iowa. Combined match-box and cigar-cutter.....	691,372	Jan. 21	1925	433	98	435
Grothe, William, assignor to White Sewing Machine Company, Cleveland, Ohio. Loop-taker mechanism for sewing machines.....	690,732	Jan. 7	706	156	98	149
Grothe, William, assignor to White Sewing Machine Company, Cleveland, Ohio. Feed mechanism for sewing machines.....	696,039	Mar. 25	3182	718	98	2425
Grotta, David, Newark, N. J., assignor to Weingarten Bros., New York, N. Y. Machine for threading tape into eelings.....	707,585	Aug. 26	3035	683	100	1791
Grout, John C., Brooklyn, N. Y. Attachment for bicycle.....	692,849	Feb. 11	1123	251	98	1054
Grove, David, Berlin, Germany. Apparatus for purifying air.....	699,166	May 6	70	18	99	1190
Grove, David, Berlin, Germany. Apparatus for sterilizing water, &c.....	705,751	July 29	4713	1020	100	1012
Grove, Elmer E., assignor to Lagoda Manufacturing Company, Springfield, Ohio. Hose connection.....	696,038	Mar. 25	3181	717	98	2424
Grove, Frank E., Franklin, Pa. Type-writer copy-holder.....	700,117	May 13	1894	440	99	1577
Grove, Frank G., Luray, Va. Rotary engine.....	705,835	July 29	4851	1053	100	1042
Grove, John A., Bluffton, Ind. Rotary engine.....	715,788	Dec. 16	2177	487	101	2319
Grove, Leander J., Astoria, Ill. Detachable spout for powder-cans.....	690,571	Jan. 7	391	80	98	85
Grove, Ray W., Lewistown, Mont. Fastening device.....	705,836	July 29	4853	1054	100	1042
Grover, Mason, Bidwell, Ohio. Device for preventing humming of telephone-wires.....	705,073	July 22	3265	707	100	711
Groves, Charles J., et al. (See Strickler, John D., assignor.)						
Groves, William, and G. D. O'Day, Mount Sterling, Ohio. Machine for weaving cross-wires in fences.....	709,540	Sept. 23	3009	670	100	2647
Grow, Daniel F. (See Lewis and Grow.)						
Grubbs, Howard, Pittsburg, Pa. Hose-coupling.....	714,476	Nov. 25	3903	862	101	1751
Gruber, Mauritius. (See Barnard, Charles M., assignor.)						
Gruenebaum, Henry, New York, N. Y. Bottling-machine.....	699,917	May 13	1541	355	99	1507
Gruenewald, August, Columbia, S. D. Chair-brace.....	704,187	July 8	1547	333	100	324
Gruhn, Ernst K., assignor to Kopier Telegraph Gesellschaft mit Beschränkter Haftung, Dresden, Germany. Telegraphic or teleautographic apparatus.....	714,577	Nov. 25	4091	905	101	1790
Grumbacher, Friedrich, Charlottenburg, near Berlin, Germany. Apparatus for cooling and filtering compressed air.....	709,763	Sept. 23	3409	766	100	2727
Grumme, August, St. Louis, Mo. Nut-lock.....	704,633	July 15	2361	513	100	509
Grunmt, Ernst M., Gelsenau, Germany. Agricultural utensil.....	700,192	May 20	2103	481	99	1641
Grün, Edward F., Southwick, England. Lens system.....	695,606	Mar. 18	2393	542	98	2249
Grunbaum, Leo P. (See Zwickel and Grunbaum.)						
Grundy, Thomas, assignor of one-half to R. Potter, Auckland, New Zealand. Combined safety clothes-line and peg holder or clamp.....	697,104	Apr. 8	1906	426	99	424
Gruener, John C. H., assignor of one-third to F. J. Keller, Paterson, N. J. Auxiliary handle for shovels.....	715,056	Dec. 2	786	167	101	1995
Gruschow, Frank W., Kokomo, Ind., assignor to C. T. Byrne, Chicago, Ill. Air-compressor.....	711,703	Oct. 21	2512	552	101	553
Grutt, Charles, et al. (See Redfield, John H., assignor.)						
Grutt, Emil, et al. (See Redfield, John H., assignor.)						
Grutt, Fred, et al. (See Redfield, John H., assignor.)						
Gschwendner, Henry, and J. H. Dearholt, Ontario, Wis. Feeder for roller-mills.....	696,673	Apr. 1	525	121	99	114
Guay, Alfred, Maxville, Canada. Bed-spring.....	695,607	Mar. 18	2394	542	98	2249
Gubing, Frank. (See Auerbach and Gubing.)						
Gublit, Benjamin W. (See Morrison, Alexander, assignor.)						
Gubsch & Co., E. M. (See Müller, John P., assignor.)						
Gudemann, Edward, Chicago, Ill. Utilizing gluten tailings.....	695,720	Mar. 18	2577	.....	98	2285
Guenther, Arthur G. (See Guenther, George G. and A. G.)						
Guenther, George G., Los Angeles, Cal. Tree-transplanter.....	694,740	Mar. 4	778	173	98	1876
Guenther, George G., Los Angeles, Cal. Automatic switch-operating device.....	694,741	Mar. 4	779	173	98	1876
Guenther, George G., Los Angeles, Cal. Railway-switch.....	694,742	Mar. 4	780	173	98	1877
Guenther, George G. and A. G., Los Angeles, Cal. Locking device for motor-controllers.....	710,692	Oct. 7	543	113	101	111
Guenther, Henry L., Chinook, Wash. Machine for capping and compressing cans.....	698,701	Apr. 29	4372	964 965 966 967 968	99	990
Guenzel, Ernst J., assignor of one-half to F. F. Dittmar, Milwaukee, Wis. Strainer for coffee-pots.....	708,544	Sept. 9	979	221	100	2191
Guernsey, Anna C., Des Moines, Iowa. Advertising and selling machine.....	695,702	Apr. 29	4389	968	99	995
Guernsey, Charles C., assignor of one-half to N. B. Shyer, Nashville, Tenn. Non-refillable bottle.....	708,545	Sept. 9	981	232	100	2191

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Guerra, Asterio. (See Marx and Guerra.)						
Guest, George H., New York, N. Y., assignor, by mesne assignments, to National Cash Register Company, Jersey City, N. J. Cash-register	694,853	Mar. 4	991	220	98	1923
Gueth, Oswald, New York, N. Y. Tongs for photographic plates	703,192	June 24	3540	814	99	2887
Gueth, Monroe, assignor to Hart and Hegeman Manufacturing Company, Hartford, Conn. Push-button switch	690,946	Jan. 14	1088	245	98	243
Gueugnon, François. (See Roussy de Sales and Gueugnon.)						
Guffin, Henry H., Indianapolis, Ind. Hoisting and conveying apparatus	694,378	Mar. 4	76	17, 18	98	1737
Guibert, Albert D., Allegheny, Pa. Show-case	716,410	Dec. 23	3430	749	101	2597
Guidex, Hermine, New York, N. Y. Pattern for dress-skirts	704,794	July 15	2646	572	100	567
Guidinger, Joseph, Los Angeles, Cal. Stamp-canceler	695,608	Mar. 18	2398	543	98	2250
Guild & Garrison. (See Garrison, William F., assignor.)						
Guild, George M., assignor to L. A. Guild, Cambridge, Mass. Pianoforte-action	709,630	Sept. 23	3138	705	100	2676
Guild, Georgiana, Providence, R. I. Chart for recording ancestry	699,769	May 13	1296	1299	99	1454
Guild, John, Omaha, Nebr. Dumping-wagon	713,921	Nov. 13	2944	653	101	1536
Guild, John E., Worcester, Mass. Fireproof shutter	691,761	Jan. 28	2656	595	98	605
Guild, Louise A. (See Guild, George M., assignor.)						
Guillette, Frederick A., W. J. Lynch, and H. A. Guillette, Taunton, Mass. Shuttle-binder for looms	709,317	Sept. 16	2522	568	100	2532
Guillette, Henry A. (See Guillette, Lynch, and Guillette.)						
Guillott, Eugene H. (See Irons, Fred A., assignor.)						
Guilmartin, James, Boston, Mass. Dividing apparatus	696,560	Apr. 1	209	71	99	67
Guimond, Adolphe, Fall River, Mass. Apparatus for winding wire from one reel to another while same is being polished	694,011	Feb. 25	3436	1737	98	1567
Guiney, Michael F. (See Phillips and Guiney.)						
Guinn, James E., assignor of one-half to H. A. Clark, Thayer, Mo. Draft-rigging	703,956	July 1	1073	232	100	213
Guinn, John A., Perry, assignor to Railway Automatic Time and Danger Signal Co., Des Moines, Iowa. Railway-signal	714,173	Nov. 25	3850	737	101	1641
Guinraud, Gustave, Cripplecreek, Colo., assignor to R. McKnight, Philadelphia, Pa. Treating ores containing silica or silicates	702,949	June 24	3058		99	2791
Guitar, Odon, Columbia, Mo. Washing-machine	707,400	Aug. 19	2087	606	100	1704
Guterman, Leopold A., St. Paul, Minn. Overalls	717,392	Dec. 30	5415	1177	101	3046
Gulden, Charles J., Belt, Mont. Brake-shoe	691,988	Jan. 28	2974	668	98	669
Gulick, Edward J., Jamestown, N. Y. Desk-support	692,273	Feb. 4	107	25	98	820
Gull, Albert, Zurich, and J. Müller, Eglisau, Switzerland. Cart for collecting and removing sweepings	710,453	Oct. 7	100	22	101	22
Gull, Rudolf. (See Busch, Gull, and Barry.)						
Gulland, Charles, Pittsburg, Pa. Safety-valve for steam-boilers	693,513	Feb. 18	2455	588	98	1351
Gulland, Charles, Pittsburg, Pa. Stand-pipe	695,925	Mar. 25	2963	671	98	2879
Gulland, Charles, Pittsburg, Pa. Pressure-regulator	698,703	Apr. 29	4391	968	99	995
Gullickson, Fred E., Cashton, Wis. Device for stripping tobacco from laths	701,334	June 3	102	21	99	2130
Gulliver, Harry, South Yarra, Victoria, Australia. Railway signaling and communicating apparatus	696,811	Apr. 1	786	179	99	167
Gulliver, Harry, South Yarra, near Melbourne, assignor of one-half to H. G. Robinson, Melbourne, Victoria, Australia. Semaphore-indicator for electric signaling	703,957	July 1	1076	232	100	214
Gully, Leontina, Uvalde, Tex. Sham-bolster frame	691,134	Jan. 14	1427	323	98	812
Gumaer, Marie L., Guymard, N. Y. Dress-holder	692,274	Feb. 4	108	26	98	820
Gumaer, Marie L., Guymard, N. Y. Powder-puff	705,337	July 29	4854	1054	100	1042
Gump, Jacob, Baltimore, Md. Button	694,636	Mar. 4	574	126	98	1894
Gundel, George M., Rochester, N. Y. Vegetable-strainer	700,193	May 20	2103	451	99	1541
Gundlach, Frank C., and W. R. Ludwig, Pittsburg, Pa. Syringe	708,224	Sept. 2	425	87	100	2068
Gundlach, John P. (See Gundlach, Philip M. and J. P.)						
Gundlach, Louis F. H., Mariner Harbor, assignor of one-half to J. E. Evans, New York, N. Y. Ventilated clothes-drier	703,653	July 1	509	114	100	100
Gundlach Optical Company. (See Dey, Gilbert S., assignor.)						
Gundlach, Philip M. and J. P., Belleville, Ill. Wheel-hub	693,267	Feb. 11	1988	432	98	1233
Gundrack, Albert F. (See Paul and Gundrack.)						
Gundry, James E., Rankin, Mich. Pitman connection	698,934	Apr. 29	4847	1068	99	1096
Gunn, Charles H., Salt Lake City, Utah. Wagon-brake	696,170	Mar. 25	3464	776	98	2438
Gunn, Fred W., Keene, N. H. Sap-bucket cover	716,887	Dec. 30	4465	968	101	2843
Gunn, Judson K. (See Campbell and Gunn.)						
Gunn, Moses W., Lasalle, Ill. Machine for assorting beans	716,220	Dec. 16	3061	668	101	2507
Gunning, Thomas, Pittsburg, Pa. Feed-water heater and purifier	693,268	Feb. 11	1989	432	98	1233
Gundrich, Friedrich, Recklinghausen, Germany. Self-closing door for mines	698,275	Apr. 22	3547	781	99	800
Günther, Fritz. (See Julius and Günther.)						
Guntrum, Carl. (See Selg and Guntrum.)						
Guntz, George, Brooklyn, N. Y. Soldering-iron	705,752	July 29	4714	1020	100	1012
Gunzendorfer, Adolph, et al. (See Tittle, Horatio S., assignor.)						
Gurley, Lewis B., Sargent, Ga. Set apparatus	711,848	Oct. 21	2784	617	101	610
Gurley, Schuyler C., Indianapolis, Ind. Machine for making tablets	694,743	Mar. 4	782	173	98	1877
Gurney, William H., and S. L. Taylor, Falmouth, England. Free-wheel or like clutch	709,900	Sept. 30	3700	834	100	2500
Gurr, William P., Minneapolis, Minn. Time-recorder	694,012	Feb. 25	3438	759	98	1568
Gury, John B., assignor of one-half to I. Block, St. Louis, Mo. Cloth-cutting machine	710,683	Oct. 7	545	113	101	111
Gus V. Brecht Butchers Supply Company. (See Borbein, Henry F., assignor.)						
Gusdorf, Solomon M., et al. (See Gaynor, Timothy, Jr., assignor.)						
Gussenhoven, Walter, New York, N. Y. Tire-clamping device	692,275	Feb. 4	109	26	98	820
Gussenhoven, Walter, New York, N. Y. Tire-adjusting device	692,276	Feb. 4	111	26	98	821
Gustafson, Adolph, Pueblo, Colo. Safe-door	698,857	Feb. 25	3119	091	98	1505
Gustafson, Alfred, Aurora, Ill. Fifth-wheel	715,067	Dec. 2	787	167	101	1995
Gustafson, Axel A. (See Bengtson and Gustafson.)						
Gustafson, Axel R., assignor to Electric Laundry Machinery Co., Chicago, Ill. Machine for shaping and smoothing collars or like articles	701,715	June 3	782	173	99	2272
Gustafson, Axel R., assignor to Electric Laundry Machinery Co., Chicago, Ill. Machine for shaping collars or other like articles	701,716	June 3	785	174	99	2272
Gustafson, Charles J., Ashtabula, Ohio. Pocket-bone clasp	715,573	Dec. 9	1758	389	101	2212
Gustafson, Elias G. (See Felsing and Gustafson.)						
Gustafsson, Carl G., Stockholm, Sweden. Acetylene-gas generator	691,855	Jan. 28	2831	636	98	641
Gustin, Frederick K. (See Braun, Charles A., assignor.)						
Gustine, Franklin J., New Orleans, La. Toy horn	705,398	July 22	3981	862	100	855



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Gustorf, Albert, Neuss, Germany. Roofing-tile .....	702,202	June 10	1660	372	99	2467
Gutensohn, Adolph, assignor to Sulphur Elimination Syndicate, Limited, London, England. Eliminating the sulfur from sulfid ores .....	709,182	Sept. 23	2894	646	100	2623
Guthman, Friedrich. (See Markovits and Guthman.)						
Guthrie, George H. St. Marys, Ohio, assignor to Muncie Gas Engine and Supply Company, Muncie, Ind. Drive-head for casings for gas, oil, or other wells .....	710,860	Oct. 7	886	193	101	180
Guthrie, Robert H., South Dumfries, Canada. Post for fencing or other purposes .....	709,217	Sept. 16	2322	527	100	2489
Gutleber, Phoenix M., Liberty Corner, N. J. Trace .....	699,918	May 13	1542	355	99	1508
Gutmann, Emil, New York, N. Y. Article-display device .....	712,180	Oct. 28	3463	760	101	763
Guttenberg, William, Lancaster, England. Stand or frame for photographs, pictures, &c. Guy, Frederick S., Peoria, Ill. Fire-press .....	690,572	Jan. 7	302	80	98	85
Guzik, Zalat, New York, N. Y. Necktie-holder .....	714,174	Nov. 25	3353	738	101	1612
Gwynn, George W., Baltimore, Md., assignor to Raymond Button Company of Baltimore City. Garment-fastener .....	691,513	Jan. 21	2217	499	98	497
Gwyn, Peter R., Delmont, Pa. Sleigh .....	702,721	June 17	2635	606	99	2689
Gwynn, William A. (See Rose, Gwynn, and Barnes.)	703,914	July 1	994	216	100	198
Gyllenberg, Jonas J., Grenada, Miss. Wheeled scoop .....	713,982	Nov. 18	2946	633	101	1537
H. Haller Manufacturing Company. (See Hobbs, George P., assignor.)						
H. Kohnstamm & Co. (See Grant, George H., assignor.)						
H. B. Smith Machine Company. (See Vivarittas, William O., assignor.)						
H. B. Smith Machine Company. (See Wise, Solomon F., assignor.)						
H. C. White Co. (See White, Hawley C. and H. C., assignors.)						
H. I. Crandall & Son Company. (See Crandall, James L., assignor.)						
H. W. Gossard Company. (See Foerster, Leona S., assignor.)						
H. W. Johns Manufacturing Company. (See Miller, Frederic S., assignor.)						
Haack, Paul. (See Hamann, Christian, assignor.)						
Haagen, Albert, Cologne, Germany. Ferro-chrome color and making same .....	693,708	Feb. 18	2827	.....	98	1426
Haaland, Bright J. (See Carlson and Haaland.)						
Haarmann, John E., Omaha, Nebr. Cooling apparatus .....	715,574	Dec. 9	1759	380	101	2212
Haarmann & Reimer Chemische Fabrik zu Holzminnen, G. M. B. H. (See Strebel, Adolf, assignor.)						
Haas, Cyrus A. (See De Camp and Haas.)						
Haas, Cyrus A. (See Feldmann and Haas.)						
Haas, Cyrus A., St. Louis, Mo. Automatic gas-burner pressure-regulator .....	690,573	Jan. 7	393	81	98	85
Haas, Cyrus A., assignor to C. H. Dodge and E. Chase, St. Louis, Mo. Spring-motor vehicle .....	695,430	Mar. 11	2044	459	98	2158
Haas, Frederick, Baltimore, Md. Scaffold-bracket .....	710,861	Oct. 7	887	193	101	180
Haas, Gustavus. (See Nielsen and Bentsen, assignors.)						
Haas, Harry L., assignor to Zucker & Levett & Loeb Company, New York, N. Y. Melting nickel .....	709,218	Sept. 16	2323	.....	100	2489
Haas, John F. (See Root, Elam E., assignor.)						
Haas, Joseph, et al. (See Lotz, Augustus, assignor.)						
Haas, Martin, Kalamazoo, Mich. Railway-bed .....	708,347	Sept. 2	640	145	100	2111
Haas, Walter G., Dayton, Ohio. Paper box .....	700,118	May 20	2562	586	99	1733
Haas, Walter G., Dayton, Ohio. Paper box .....	715,789	Dec. 16	2178	487	101	2319
Haas, Walter G., assignor of one-half to Dayton Paper Novelty Company, Dayton, Ohio. Paper pal .....	697,405	Apr. 8	1907	425	99	424
Haas, Walter G., assignor of one-half to Dayton Paper Novelty Company, Dayton, Ohio. Paper pal (Reissue) .....	12,000	Nov. 25	4249	938	101	1821
Haber, Frederick, assignor of one-half to P. H. Eaton, Washington, D. C. Electromagnetic brake .....	715,058	Dec. 2	790	168	101	1906
Haberacker, Eugene O. M., Altoona, Pa. Fan attachment for rocking-chairs .....	705,399	July 22	3963	862	100	855
Haberkorn, Theodore H., Fort Wayne, Ind. Valve mechanism for engines .....	702,423	June 17	2061	469	99	2568
Häberle, Michael, Brooklyn, N. Y. Window .....	699,919	May 13	1543	355	99	1508
Haberman, A., et al. (See Boettler, Robert A., assignor.)						
Haberstroh, Albert, Boston, Mass. Adhesive fastener .....	698,514	Feb. 18	2456	538	98	1351
Haberstroh, Albert, Boston, Mass. Mailing-envelop. .....	698,704	Feb. 18	2829	622	98	1426
Habrigh, Franz. (See Henkel, Heinrich, assignor.)						
Hacherelle, Louis E., New York, N. Y. Skirt-supporter .....	706,232	Aug. 5	444	93	100	1207
Hachmann, Frederick, assignor of seven-eighths to A. D. Ward and C. L. Wells, St. Paul, Minn. Oil-guard for journal-boxes .....	711,849	Oct. 21	2785	617	101	610
Hackenbreg, Julius, Hoboken, N. J. Manufacture of celluloid articles .....	699,516	May 6	729	170	99	1326
Hackenbroch, Anton. (See Cuber and Hackenbroch.)						
Häcker, Friedrich. (See Oneza and Häcker.)						
Hacket, Julia E. (See Muslar, Nelson, assignor.)						
Hackett, George H., North Sydney, assignor to J. D. Copeland, Antigonish, D. McLean, W. J. Christie, S. Salter, and F. T. Lemoine, North Sydney, Nova Scotia, Canada. Machine for producing perforated telegraph-paper .....	711,660	Oct. 21	2420	532 533	101	533
Hackett, James L., et al. (See Lacomme, Jean M. A., assignor.)						
Hackett & Dailey Creamery Supply Company. (See Marsh, Wilbur W., assignor.)						
Hackett, James L., et al. (See Lacomme, Jean M. A., assignor.)						
Hacking, Robert, West Bridgeford, England. Overhead electric conductor, overhead telephone, telegraph, or like wire .....	712,060	Oct. 28	3240	709	101	720
Hacking, Robert, assignor to Hancock & Leighton, Nottingham, England. Electric tram and railway .....	716,411	Dec. 23	3431	749	101	2597
Hackney, James M. (See Dobbin, William J., assignor.)						
Hadaway, John B., Brockton, Mass. Stitch-separating machine .....	690,422	Jan. 7	63	14, 15	98	17
Hadaway, John B., Brockton, Mass. Stitch-separating machine .....	691,003	Jan. 28	2908	655 656	98	657
Hadaway, John B., Brockton, Mass. Stitch-separating machine .....	699,679	May 13	1061	247 248	99	1407
Hadaway, John B., Brockton, Mass. Stitch-separating machine .....	700,913	May 27	3519	808 809	99	1950
Hadaway, John B., Brockton, Mass. Stitch-separating machine .....	703,573	July 1	347	79, 80	100	70
Hadaway, John B., Brockton, Mass. Stitch-separating machine .....	703,574	July 1	351	80, 81	100	70
Hadaway, John B., Brockton, Mass. Stitch-separating machine .....	703,575	July 1	356	81, 82	100	71
Hadaway, John B., Brockton, Mass. Shoe-sewing and welt-beveling machine .....	704,457	July 8	2023	441	100	429
Hadaway, John B., Brockton, Mass. Shoe-sewing and welt-beveling machine .....	704,458	July 8	2029	442	100	429
Hadaway, John B., Brockton, Mass. Boot or shoe .....	705,231	July 22	3623	786	100	784
Hadaway, John B., Brockton, Mass. Tool for stitch-separating machines .....	712,660	Nov. 4	386	90	101	575
Hadaway, William S., Jr., New York, N. Y. Electric heater .....	705,668	July 29	4551	988	100	981
Hadfield, Robert A., Sheffield, England. Hardening projectiles .....	709,631	Sept. 23	3161	705	100	2677
Hadley, Artemus N., Indianapolis, Ind. Cutter for corn-harvesters .....	705,923	July 29	5010	1091	100	1974

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Hadley, Charles E., assignor to Olmsted and Tuttle Company, Chicopee, Mass. Machine for use in upholstering mattresses	716,531	Dec. 23	3671	802 803	101	2647
Hadley, George. (See Howard and Hadley.)						
Haefelin, Friedrich, Pasing, Germany. Making leaf metal	699,920	May 13	1546		99	1308
Haensch, Wilhelm. (See Schmidt and Haensch.)						
Haenze, Henry, Pittsburg, Pa. Strength-testing machine	714,477	Nov. 25	3904	863	101	1751
Haertl, Peter F. (See Haertl, Peter P. and P. F.)						
Haertl, Peter P., Beaverdam, Wis., and P. F. Haertl, Shreveport, La. Cotton-harvester.	691,762	Jan. 28	2658	595 596	98	605
Haertlein, Albrecht, et al. (See Darwin, Frank L., assignor.)						
Haeseler, Charles H., Philadelphia, Pa. Pneumatic hammer	707,920	Aug. 26	3744	840	100	1933
Hafer, James, Sr., Augusta, Ky. Singletree attachment	694,544	Mar. 4	406	89	98	1798
Hafer, James, Sr., Augusta, Ky. Singletree attachment	694,545	Mar. 4	407	89	98	1798
Hafer, James, Sr., Augusta, Ky. Whiffletree attachment	716,532	Dec. 23	3680	803	101	2648
Hafer, James, Jr., Augusta, Ky. Sheet-metal button and blank therefor	701,717	June 3	786	174	99	2272
Hafer, John W., Bellefonte, Pa. Vehicle-axle attachment	702,424	June 17	2065	470	99	2569
Haff, Max M., New York, N. Y., assignor to Ampere Electro-Chemical Company, Jersey City, N. J. Separation of the constituents of complex sulfid ores	695,306	Mar. 11	1857		98	2116
Haffner, Balthaser, Maurer, N. J. Tie-bar	712,670	Nov. 4	387	90	101	978
Haffner, Bertha, Neosho, Mo. Cake-pan	702,203	June 10	1661	373	99	2467
Hagan, Coleman, et al. (See Hagan, Ira B., assignor.)						
Hagan, Frederick W., et al. (See Hagan, Ira B., assignor.)						
Hagan, Ira B., assignor of three-fifths to F. W. and C. Hagan, North Lamoine, I. B. Hagan, Jr., Ellsworth Falls, C. D. Page, Bangor, P. M. Marsh and L. F. Crane, Orono, Me. Measuring instrument	697,335	Apr. 8	1765	395	99	395
Hagan, William E. (See Griffin, Albert P., assignor.)						
Hagans, Christian, Erfurt, Germany. Locomotive-engine	698,276	Apr. 22	3548	781	99	800
Hagans, Christian, Erfurt, Germany. Locomotive with driven boggy	699,517	May 6	730	170 171	99	1326
Hagans, Christian, Erfurt, Germany. Driving-axle for locomotives	700,038	May 13	1763	407 408	99	1551
Hage, Francis J., Sr., Goldsboro, N. C. Awning	693,129	Feb. 11	1698	371	98	1174
Hage, Francis J., Sr., Goldsboro, N. C. Hernial truss	716,221	Dec. 16	3662	668	101	2308
Hage, Robert R., and H. P. Waller, Twin Valley, Minn. Reversible device for engines	700,639	May 20	2960	680	99	1818
Hagedorn, Henry, Omaha, Nebr. Bed-lounge	715,370	Dec. 9	1371	225 226	101	2135
Hagelberg, Gustaf A., and L. Lindelöf, Helsingfors, Russia. Machine for filling paper cigarette-tubes	695,640	Mar. 18	2451	555 556	98	2260
Hagemeister, Amos, Absaroka, N. D. Straw-stacker	696,812	Apr. 1	789	180	99	167
Hagen, Christoph, New York, N. Y. Spittoon-guard	698,007	Feb. 11	1454	316	98	1124
Hagen, Ferdinand J., New York, N. Y. Marking-machine	700,011	Sept. 16	1905	437 438	100	2401
Hager, Godfrey, Brooklyn, N. Y. Bookbinding-sheet	709,599	Sept. 23	3109	693	100	2668
Hagerman, Charles C., assignor to Hagerman & Williams, Marion, Iowa. Metal fence-post	707,586	Aug. 26	3040	683	100	1793
Hagerman & Williams. (See Hagerman, Charles C., assignor.)						
Hagerty, Ida, Austin, Tex. Tongue-scraper	697,336	Apr. 8	1766	396	99	396
Hagerty, John C., Santa Cruz, Cal. Rotary engine	713,301	Nov. 11	1645	370	101	1249
Hagerty, Thomas F., San Francisco, Cal. Rotary-cutter or pinking machine	691,702	Jan. 21	2517	563	98	559
Hagestad, Hans J., Ettrick, Wis. Egg-crate	698,935	Apr. 29	4849	1069 1070	99	1096
Harge, John. (See Loeb and Harge.)						
Haggstrom, Charles J., Warren, Pa. Fire-escape	708,546	Sept. 9	982	222	100	2191
Haglin, Charles F., Minneapolis, Minn. Fireproof flooring	708,764	Sept. 9	1389	317 318	100	2277
Haglock, John G., Sterling, Ill. Bandage for race-horses	715,059	Dec. 2	791	168	101	1996
Hagman, William J., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Flanging-press	708,406	July 1	78	15	100	18
Hagström, Nils F., Brooklyn, N. Y. Sectional shoe-last	708,958	July 1	1077	232	100	214
Hahn, Herman, assignor to Acme Cash Register Company, San Francisco, Cal. Cash-register	693,616	Feb. 18	3021	667 668	98	1467
Hahn, John H., Sargent, Mo., assignor to J. A. Jeffrey, Columbus, Ohio. Conveyer	715,371	Dec. 9	1373	296	101	2136
Hahn, Joseph J. (See Van Nostran, Joseph E., assignor.)						
Hahn, Paul, Niederlahnstein, Germany. Apparatus for mercerizing	711,623	Oct. 21	2358	515 516	101	520
Hahn, William F., Pensacola, Fla. Slate	693,388	Feb. 18	2219	487	98	1302
Haigh, Noel N., Oldham, and T. Sugden, East Dulwich, England. Steam-trap	701,035	May 27	3756	860 861	99	2000
Haigh, William C., Chorlton-cum-Hardy, near Manchester, England. Coin-controlled toy	697,478	Apr. 15	2053	453	99	471
Haight, Levi A., Kansas City, Mo. Windmill	704,030	July 8	1225	294 295	100	258
Hail, George, Providence, R. I. Elevator safety appliance	691,810	Jan. 14	1774	403 404	98	385
Haillez, Polydore. (See Mahy and Haillez.)						
Haiman, Elias, Cleveland, Ohio. Cultivator	716,412	Dec. 23	3434	749	101	2598
Hain, Ralph B., assignor to Auto Vehicle Company, Los Angeles, Cal. Brake mechanism	715,060	Dec. 2	792	168	101	1996
Haines, Byron W., San Francisco, Cal. Box-tooth crown and adjustable facing	717,094	Dec. 30	4858	1053	101	2925
Haines, Charles et al. (See Haines, Jacques C., assignor.)						
Haines, George W., assignor to Houser & Haines Manufacturing Company, Stockton, Cal. Threshing-machine	708,061	June 24	3283	756	99	2837
Haines, George W., assignor to Houser and Haines Manufacturing Company, Stockton, Cal. Harvester	711,157	Oct. 14	1454	315 316	101	317
Haines, Jacques C., assignor of two-thirds to W. E. Huber and C. Haines, Chicago, Ill. Tire and fastener for vehicle-wheels	709,488	Sept. 23	2896	647	100	2623
Haines, Samuel A., Garrett, Tex., assignor to W. H. Spake, Anaheim, Cal. Wrench	697,940	Apr. 15	2890	637	99	644
Haines, William L. (See Stearns and Haines.)						
Hains, John P., and T. J., Baltimore, Md. Turnbuckle	716,633	Dec. 23	3888	849	101	2696
Hains, Thornton J. (See Hains, John P. and T. J.)						
Hainsworth, Robinson, Hull, England. Safety suspending apparatus for elevators or the like	707,410	Aug. 19	2688	607	100	1704
Haire, James A., Weyauwega, Wis. Pipe-puller	703,251	June 24	3642	837	99	2590
Hakel, John. (See Hake and Hakel.)						
Hakes, George G., Ilion, N. Y. Card-index	705,343	July 22	3893	842	100	836
Hakacsinski, Zygmunt, Lemberg, Austria-Hungary. Device for composing and casting type-lines	694,269	Feb. 25	3916	870	98	1663
Halapleus, James G., Toledo, Ohio. Cigarette-roller	703,915	July 1	995	217	100	198



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Halapleus, James G., Toledo, Ohio. Atomizer.	705,074	July 22	3265	707	100	711
Halbekann, Franz J., assignor to Firm of Koeller & Co., Solingen, Germany. Safety-razor	690,947	Jan. 14	1090	245	98	243
Halberstadt, Lewis V. (See Ermentrout and Halberstadt.)						
Haldeman, William I. (See Christ and Haldeman.)						
Hale, Asa D., Eagleville, Mo. Animal-poke	703,407	July 1	70	15	100	18
Hale, Bernard O., assignor to Farrel Foundry and Machine Company, Ansonia, Conn. Belt-folding machine.	694,009	Feb. 25	3596	796	98	1600
Hale, C. P., et al. (See Farmer, Albert J., assignor.)						
Hale, Henry, Astoria, and S. J. Bartlett, Beardstown, Ill. Railway-track jack	690,423	Jan. 7	69	15	98	17
Hale, Henry S., Philadelphia, Pa. Car-seat	691,373	Jan. 21	1926	433	98	435
Hale, Henry S., Philadelphia, Pa. Car-seat	705,075	July 22	3267	707	100	711
Hale, Henry S., Philadelphia, Pa., assignor to Hale and Kilburn Manufacturing Company. Car-seat	692,133	Jan. 28	3330	754	98	741
Hale, Henry S., Philadelphia, Pa., assignor to Hale and Kilburn Manufacturing Company. Car-seat	701,562	June 3	569	112	99	2213
Hale, John A., Rockville, Ind. Saw-handle clamp	698,936	Apr. 29	4850	1070	99	1097
Hale and Kilburn Manufacturing Company. (See Britton, George W., assignor.)						
Hale and Kilburn Manufacturing Company. (See Hale, Henry S., assignor.)						
Hale, Will K., et al. (See Roake, John S., assignor.)						
Hales, Henry W., Ridgewood, N. J. Photographic camera	707,319	Aug. 19	2522	567	100	1068
Hales, Henry W., Ridgewood, N. J. Spool for photographic films	710,774	Oct. 7	731	155	101	149
Haley, Jonathan. (See Bridgwater and Haley.)						
Haley, Fred H., Westchester, Pa. Coin-receptacle	698,515	Feb. 18	2457	539	98	1351
Haley, James T., Alhambra, Cal. Orange or lemon cleaner	703,916	July 1	996	217	100	199
Haley, Jonathan, Akron, Ohio. Bottle or jar press	697,915	Apr. 15	2884	627	99	634
Haley, Jonathan, Akron, Ohio. Tumbler-press	702,425	June 17	2066	470	99	2570
Haley, Jonathan, assignor to Akron Glass & Machinery Company, Akron, Ohio. Machine for forming narrow-neck bottles	711,159	Oct. 14	1462	317	101	319
Haley, Jonathan, assignor to Akron Glass & Machinery Company, Akron, Ohio. Jar or bottle press	711,962	Oct. 28	3048	669	101	683
Haley, Jonathan, and H. H. Bridgwater, assignors to Akron Glass & Machinery Company, Akron, Ohio. Machine for forming glassware	698,130	Feb. 11	1699	372	98	1174
Haley, Thomas S., New Haven, Conn. Feeding device for metal-working machines	700,325	May 20	2384	543	99	1697
Haley, Thomas S., New Haven, Conn. Feeding device for wire-working machines	714,175	Nov. 25	3356	739	101	1643
Haley, William L., Alvin, Tex. Milk-cooler	702,134	June 10	1534	346	99	2142
Halfacre, Kate, Tewkesbury, England. Match-box	694,471	Mar. 4	251	55	98	1765
Hall, Allen E., Atlantic City, N. J. Fishing-reel	713,633	Nov. 18	2279	507	101	1396
Hall, Almon, Toledo, Ohio. Canteen	703,654	July 1	511	115	100	100
Hall, Arthur D., et al. (See Irish, Fremont L., assignor.)						
Hall Bascule Bridge Company. (See Hall, Charles F., assignor.)						
Hall, Benjamin F., assignor of one-half to Z. Goodell, Salem, Mass. Punching-machine	706,552	Aug. 12	1081	239	100	1349
Hall, Burleigh O. (See Perry, James S., assignor.)						
Hall, Charles F., Chicago, Ill. Bascule-bridge	708,348	Sept. 2	641	145	100	2111
Hall, Charles F., Chicago, Ill., assignor, by mesne assignments, to Hall Bascule Bridge Company. Bascule-bridge	694,744	Mar. 4	785	175	98	1877
Hall, Charles M., Niagara Falls, N. Y. Paint	701,718	June 3	787	99	99	2272
Hall, Charles M., Niagara Falls, N. Y. Manufacture of carbon electrodes	705,076	July 22	3269	708	100	712
Hall, Charles M., Niagara Falls, N. Y. Manufacturing alumina	706,553	Aug. 12	1082	240	100	1350
Hall, Charles W., Jr., and B. J. Berwald, Bradford, Pa. Automatic valve	705,344	July 22	3893	842	100	836
Hall & Co., William. (See Gibbs, Howard W., assignor.)						
Hall, Daniel B. (See Blair, Gardner L., assignor.)						
Hall, Edward A., et al. (See Shank, Augustus W., assignor.)						
Hall, Edward W., Rutherford, N. J., assignor to himself, H. C. Fisher and J. L. Oberly, New York, N. Y. Invisible-impression printing	696,633	Apr. 1	432	100	99	93
Hall, Edwin, assignor to Le Roy Plow Company, Leroy, N. Y. Clevis for plows or the like	698,937	Apr. 29	4851	1070	99	1097
Hall, Francis E. (See Batchelor and Hall.)	694,745	Mar. 4	787	175	98	1878
Hall, Frank E., Quincy, Mass. Elastic tire and manufacturing same	708,225	Sept. 2	426	97	100	2068
Hall, Fred J., and P. S. Stauffer, Springfield, Mass. Coin-controlled machine	707,773	Aug. 26	3451	778	100	1877
Hall, Frederick E. (See Schraff and Hall.)						
Hall, George. (See Miesse, Americus, assignor.)						
Hall, George, Fostoria, Ohio. Station-annunciator for railway-cars	698,491	Apr. 29	3918	866	99	893
Hall, George, and M. T. Be-ford, Lima, Ohio. Sheaf-fork	692,134	Jan. 28	3334	746	98	742
Hall, George B., London, England. Machinery for making slabs with plain or ornamental surfaces of plastic cement or composition	707,921	Aug. 26	3750	841	100	1936
Hall, George E., Kansas City, Mo. Apparatus for elevating and supporting wagon-boxes, &c.	717,393	Dec. 30	5417	1178	101	3047
Hall, George L., Brooklyn, N. Y. Rail-joint	705,345	July 22	3265	708	100	887
Hall, George L., Brooklyn, N. Y. Insulated rail-joint	708,349	Sept. 2	644	145	100	2112
Hall, George L., Brooklyn, N. Y. Insulated rail-joint	708,350	Sept. 2	645	146	100	2112
Hall, George L., Brooklyn, N. Y. Insulated rail-joint	712,131	Oct. 28	3369	738	101	745
Hall, George L., Brooklyn, N. Y. Insulated rail-joint	712,132	Oct. 28	3370	739	101	745
Hall, George P., Brookings, S. D. Axle-wrench	691,856	Jan. 28	2832	636	98	641
Hall, Harry C., Telluride, Colo. Portable stand for supporting and carrying stretchers	713,745	Nov. 18	2721	608	101	1489
Hall, Henry A. (See Flesche, Hall, and Doherty.)						
Hall, Henry F., Cambridge, Mass. Pneumatic motor for mechanical musical instruments	711,158	Oct. 14	1459	316	101	318
Hall, Henry J. S., New York, N. Y. Screw-cap closure	707,320	Aug. 19	2325	568	100	1069
Hall, Hugh A. (See Churchill and Hall.)						
Hall, J. L., et al. (See Barnes, James P., assignor.)						
Hall, James. (See Hinchliffe and Hall.)						
Hall, James, Radcliffe, England. Friction-clutch	698,112	Apr. 22	3240	708	99	736
Hall, James B., Cleveland, Ohio. Fish-hook	693,269	Feb. 11	1990	433	98	1233
Hall, James B., Cleveland, Ohio. Bait-bucket	706,407	Aug. 5	816	178	100	1279
Hall, James B., Toronto, Canada. Water-heating apparatus	714,478	Nov. 25	3905	863	101	1751
Hall, John B. (See Martin, James F., assignor.)						
Hall, John L., Schenectady, N. Y., assignor to General Electric Company. Speed-indicating system	706,554	Aug. 12	1083	240	100	1350
Hall, John L., Schenectady, N. Y., assignor to General Electric Company. Rheostat	716,322	Dec. 16	3963	669	101	2508

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Hall, Joseph, Leeds, England. Mechanism for measuring and recording measurements of material	697,246	Apr. 8	1604	360	99	359
Hall, Joseph J., Frazee City, Minn. Vegetable-slicer	713,430	Nov. 11	1861	361	101	1296
Hall, Michael W. (See Webster, Hall, and Stadler.)				421		
Hall & Munson Co. (See Van Horn, Charles K., assignor.)						
Hall, Peter C., assignor of one-half to E. H. Shores, Saybrook, Ill. Holder for watch-maker's materials.	716,223	Dec. 16	3064	669	101	2508
Hall, Ralph K. (See Metcalf and Hall.)						
Hall, Roderic F., East Orange, N. J., assignor to Western Electric Company, Chicago, Ill. Lead-press	699,308	May 6	337	78, 79	99	1243
Hall, Roswell C. (See Barsaleaux and Hall.)						
Hall, Samuel J., et al. (See Mathias, Theodore N., assignor.)						
Hall, Samuel J., et al. (See Webster, David G., assignor.)						
Hall Signal Company. (See Coleman, Clarence W., assignor.)						
Hall Signal Company. (See Coleman, Clyde J., assignor.)						
Hall Signal Company. (See Salmon, Wilmer W., assignor.)						
Hall Signal Company. (See Wilson, Joseph A., assignor.)						
Hall, Spencer F., Racine, Wis. Check-book	695,880	Mar. 18	2874	652	98	2348
Hall, Sylvester T., Riverside, Cal. Tree-limb support	704,031	July 8	1226	264	100	259
Hall, Thomas. (See Leppo, James B. and D. M., assignors.)						
Hall, Thomas. (See Ross, Hall, and Johnson.)						
Hall, Thomas. (See Yarrington and Hall.)						
Hall, Wilber P., Pembroke, N. Y. Incubator	692,277	Feb. 4	113	26, 27	98	822
Hall, Willard L., Philadelphia, Pa. Illusion apparatus	709,764	Sept. 23	3411	766	100	2727
Hall, William A., Bellows Falls, Vt. Producing dry condensed milk	694,100	Feb. 25	3590	767	98	1600
Hall, William A., Bellows Falls, Vt. Adhesive	695,926	Mar. 25	2964	98	2379	
Hall, William A., Bellows Falls, Vt. Casein solution	695,927	Mar. 25	2964	98	2380	
Hall, William F., Boston, Mass. Trolley-wheel	703,700	July 1	605	134	100	120
Hall, William F., Boston, Mass. Trolley-wheel	703,701	July 1	607	134	100	120
Hall, William G., Grafton, W. Va. Plow attachment	702,647	June 17	491	571	99	2658
Hall, Zachary T., Philadelphia, Pa. Handle for washboilers	697,205	Apr. 8	1544	346	99	348
Hallberg, Josef H., assignor to General Incandescent Arc Light Company, New York, N. Y. Regulator for alternating series arc-light systems	712,521	Nov. 4	111	28	101	920
Hallberg, Josef H., assignor to General Incandescent Arc Light Company, New York, N. Y. Regulator for alternating series arc-light systems	712,522	Nov. 4	112	28	101	921
Hallberg, Josef H., assignor to General Incandescent Arc Light Company, New York, N. Y. Regulator for alternating series arc-light systems	712,523	Nov. 4	113	28	101	921
Hallberg, Josef H., assignor to General Incandescent Arc Light Company, New York, N. Y. Regulator for alternating series arc-light systems	712,524	Nov. 4	115	28	101	922
Hallbergh, David V., Stockholm, Sweden. Water-meter	691,904	Jan. 28	2012	657	98	657
Hallden, John A., Rockford, assignor of one-third to E. Carlson, Chicago, Ill. Sand-pa- pering-machine	705,232	July 22	3627	786	100	784
Halle, Hiram J., assignor to Fisher Book Typewriter Company, Cleveland, Ohio. Work- gage attachment for type-writing machines	705,527	July 22	4265	922	100	911
Halleck, Parker S., Akron, Ohio. Means for teaching writing	698,938	Apr. 29	4853	1070	99	1097
Hallenscheid, Gustav, Ronsdorf, Germany. Twisted auger	703,535	July 1	361	83	100	71
Haller, Carl F., St. Louis, Mo. Bedstead	712,671	Nov. 4	388	90, 91	101	978
Haller, Joseph P., et al. (See Farmer, Albert J., assignor.)						
Hallett, Thomas E., Chicago, Ill. Land-anchor	714,176	Nov. 25	3357	739	101	1643
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,103	Aug. 19	2113	472	100	1582
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,104	Aug. 19	2115	472	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,105	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,106	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,107	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,108	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,109	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,110	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,111	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,112	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,113	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,114	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,115	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,116	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,117	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,118	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,119	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,120	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,121	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,122	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,123	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,124	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,125	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,126	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,127	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,128	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,129	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,130	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,131	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,132	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,133	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,134	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,135	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,136	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,137	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,138	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,139	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,140	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,141	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,142	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,143	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,144	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,145	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,146	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,147	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,148	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,149	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,150	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,151	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,152	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,153	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,154	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,155	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,156	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,157	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,158	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,159	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,160	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,161	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,162	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,163	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,164	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,165	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,166	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,167	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,168	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,169	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,170	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,171	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,172	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,173	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,174	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,175	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,176	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,177	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,178	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,179	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,180	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,181	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,182	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,183	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,184	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,185	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,186	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,187	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,188	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,189	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,190	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,191	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,192	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,193	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,194	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,195	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,196	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,197	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,198	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,199	Aug. 19	2115	473	100	1583
Halley, Robert, assignor of one-fourth to Plano Manufacturing Company, Chicago, Ill. Fur- nace	707,200	Aug. 19	2			



## Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Pr. g.	Vol.	Page.
Halvorsen, Christine M., Los Angeles, Cal. Mechanical music-chart .....	708,139	Sept. 2	293	63	100	2036
Ham, Albert W., Lansingburg, N. Y. Trolley-tender .....	691,263	Jan. 14	1663	378	98	363
Ham, Albert W., Lansingburg, N. Y. Trolley-tender .....	691,264	Jan. 14	1664	379	98	363
Ham, Albert W., Lansingburg, N. Y. Trolley-catcher .....	700,763	May 27	3241	743	99	1893
Ham, Elijah B., and J. W. Shipley, Jennings, Okla. Ter. Cotton-cleaner .....	712,296	Oct. 28	3052	797	101	892
Ham, Herbert H., New York, N. Y. Cork-extractor .....	702,001	June 10	1293	295	99	2391
Hamann, Carl H. O., Bergedorf, near Hamburg, Germany. Differential gearing .....	702,793	June 17	2762	635	99	2715
Hamann, Christel, Friedenau-Berlin, assignor to E. Schuster, Berlin, Germany. Calculating-machine .....	705,838	July 29	4858	1054	100	1043
Hamann, Christian, assignor to P. Haack, Berlin, Germany. Calculating-machine .....	703,785	July 1	753	166	100	151
Hamaby, James T., New York, N. Y. Electric block system for railway-trains .....	707,226	Aug. 19	2345	167	100	1638
Hamberger, George, and G. A. Stelzer, Berna, Switzerland. Life-preserver .....	692,278	Feb. 4	115	27	98	822
Hamblin, Stephen M. (See Stafford and Hamblin.) .....						
Hamblin, Stephen M., Central Falls, R. I., assignor to H. W. Smith, Worcester, Mass. Electrical weft-indicator mechanism for looms .....	694,961	Mar. 11	1204	263	98	1984
Hamblby, Margaret, <i>et al.</i> (See Vernon, Charles W., assignor.) .....						
Hamblby, Mathew C. F., <i>et al.</i> (See Vernon, Charles W., assignor.) .....						
Hamburger, Moritz, and A. J. Birkholz, Budapest, Austria-Hungary. Combined week-note and day block-calendar .....	696,098	Mar. 25	3306	745	98	2452
Hamel, Henry P., assignor of one-half to P. C. Riehe, Chicago, Ill. Printer's quoin .....	715,790	Dec. 16	2180	487	101	2320
Hamel, Joseph L., Grafton, N. D. Door closing and holding device .....	698,939	Apr. 29	4854	1071	99	1097
Hamel, Norbert D., West Gardner, Mass. Combined bevel-protractor, square, and pitch-board .....	700,326	May 20	2385	544	99	1697
Hamel, Henry, Paris, France. Lubricating apparatus .....	691,905	Jan. 29	2913	657	98	658
Hamer, Frank G., Cincinnati, Ohio. Gas-furnace .....	705,077	July 22	3271	709	100	712
Hamer, John, assignor of one-half to R. E. Erdman, Buffalo, N. Y. Fire-alarm signaling apparatus .....	712,525	Nov. 4	116	29	101	922
Hamer, John C., Radcliffe, England. Apparatus for dyeing yarn .....	702,002	Nov. 10	1293	295	99	2391
Hammersly, William H., Harrisburg, Pa. Photographic-film holder .....	715,372	Dec. 9	1374	296	101	2136
Hamill, Robert. (See Wilson, David Y., assignor.) .....						
Hamill, Robert H., Salmo, Canada. Chuck for rock-drills .....	695,388	Mar. 11	1979	443	98	2145
Hamilton, Alexander S., Needham, Mass. Extracting oil from fish-livers .....	711,307	Oct. 14	1764	382	101	382
Hamilton, Carl B. (See Woodford, Samuel B., assignor.) .....						
Hamilton, Charles A., Coventry, England. Carbureting device for internal-combustion motors .....	699,309	May 6	340	79	99	1243
Hamilton, Charles E. (See Casteel and Fall, assignors.) .....						
Hamilton, Clarence J., assignor to C. J. Hamilton & Son, Plymouth, Mich. Sight for firearms .....	696,962	Apr. 8	1122	249	99	258
Hamilton, Clarence J., assignor to C. J. Hamilton & Son, Plymouth, Mich. Gun-barrel .....	704,962	July 15	3047	654	100	651
Hamilton, Clarence S., Salem, Oreg. Awning .....	711,850	Oct. 21	2786	617	101	611
Hamilton, Clayton M., assignor to W. H. Davis, Boston, Mass. Folding bed .....	710,268	Sept. 30	4405	992	100	2951
Hamilton, Daniel, <i>et al.</i> (See McKone, William, assignor.) .....						
Hamilton, Edward D., Vancouver, Wash. Washing-machine .....	700,194	May 20	2104	481	99	1641
Hamilton, Emery M., New York, N. Y. Piano-action .....	693,131	Feb. 11	1701	372	98	1174
Hamilton-Foster Fog Signal Company. (See Hope-Jones, Robert, assignor.) .....						
Hamilton, Frank D. (See Cole and Hamilton.) .....						
Hamilton, Frederick A. E., Beverly, assignor to H. Hunt, Boston, Mass. Hinge-joint for connecting rod-sections .....	702,204	June 10	1662	373	99	2467
Hamilton, George F., Council Bluffs, Iowa. Door-securer .....	704,634	July 15	2362	513	100	560
Hamilton, George W., Chicago, Ill. Glazier's tool .....	693,518	Feb. 18	2492	540	98	1353
Hamilton, Henry A., and F. H. Crawford, Emlenton, Pa. Overshoe .....	708,547	Sept. 9	983	232	100	2192
Hamilton, Isaiah E. (See Benton, George P., assignor.) .....						
Hamilton, James. (See Eppers and Hamilton.) .....						
Hamilton, James, Glasgow, Scotland. Means for housing propellers of ships .....	707,411	Aug. 19	2690	607	100	1704
Hamilton, John. (See Fawcett, James F., assignor.) .....						
Hamilton, John A., Homestead, Pa. Fountain-pen attachment .....	716,224	Dec. 16	3095	669	101	2508
Hamilton, John F., South Framingham, Mass. Guide for straw-braid-sewing machines .....	692,279	Feb. 4	116	27	98	822
Hamilton, Jonathan R., Sioux Falls, S. D. Dilator .....	705,346	July 22	3897	843	100	837
Hamilton, Joseph, assignor to James Dunlap Carpet Company, Philadelphia, Pa. Yarn-printing machine .....	699,948	May 13	1604	367	99	1519
Hamilton, Joseph B., Springfield, Mass. Life-preserver .....	715,261	Dec. 9	1166	249	101	2098
Hamilton, Paul H., assignor of one-half to J. Goepfinger, Youngstown, Ohio. Fluid-pressure regulator .....	702,872	June 17	2906	672	99	2745
Hamilton, Robert, Commerce, Tex. Window attachment .....	703,252	June 24	3643	837	99	2009
Hamilton, Robert, Commerce, Tex. Shears .....	703,253	June 24	3644	837	99	2009
Hamilton, Robert A., Brooklyn, N. Y. Thread-cutting appliance .....	703,193	June 24	3541	814	99	2287
Hamilton & Son, C. J. (See Hamilton, Clarence J., assignor.) .....						
Hamilton, Supplina, Endicott, Wash. Swinging gate .....	705,401	July 22	3987	863	100	856
Hamilton, Thomas C., McKees Creek, Ohio. Latch .....	698,940	Apr. 29	4854	1071	99	1098
Hamilton, William F., Ventura, Cal. Nut-wrench .....	695,047	Mar. 11	1370	301	98	2019
Hamilton, William J., Carbondale, assignor of two-fifths to T. R. Hughes, Scranton, Pa. Coal-separator .....	703,254	June 24	3645	838	99	2009
Hamlin, Horace, Philadelphia, Pa. Means for securing printing-plates .....	710,970	Oct. 14	1074	237	101	235
Hamlin, R. C. (See Woodmansee, Clay G., assignor.) .....						
Hamlin, Charles. (See Geddes, Charles A., assignor.) .....						
Hamlin, William S., and J. A. Mosher, Chicago, Ill., assignors to Adams & Westlake Company. Acetylene gas generator .....	715,078	July 22	3273	700	100	712
Hammack, Martin V., assignor of one-half to H. W. Miller, Thalia, Va. Game apparatus .....	697,406	Apr. 8	1909	426	99	425
Hammar, Sigard A. S. (See Meigs and Hammar.) .....						
Hammer, Alfred E., Branford, Conn. Rammer .....	692,280	Feb. 4	117	27	98	822
Hammer, Jacob. (See Katzke, Albert, assignor.) .....						
Hammer, John and K. M., Tacoma, Wash. Dress-skirt lifter .....	696,561	Apr. 1	304	72	99	69
Hammer, Katrina M. (See Hammer, John and K. M.) .....						
Hammer, Robert E., Philadelphia, Pa. Coaster-brake for vehicles .....	697,337	Apr. 8	1767	396	99	396
Hammer, Willie A., assignor of two-thirds to F. M. Hoganamp, Bardwell, Ky. Combined stump-puller and tree-transplanter .....	700,641	May 20	2962	681	99	1818
Hammerly, Richard, New York, N. Y. Fire-escape .....	705,580	July 29	4390	952	100	940
Hammersmith, Perry C., assignor of one-half to F. S. Wahl, Buffalo, N. Y. Dental filling-tool .....	712,526	Nov. 4	119	29	101	923
Hammerstein, Moritz, assignor to M. Blau, Berlin, Germany. Candle-holder .....	711,624	Oct. 21	2359	517	101	520

## Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Draw.	Vol.	Page.
Hammesfahr, Ernest. (See Hammesfahr, Hermann and E.)						
Hammesfahr, Hermann and E. New York, N. Y. Electric conducting-wire	702,725	June 17	2636	606	99	2689
Hammitt, James W. Eureka, W. Va. Fastener for bands, wires, or the like	713,634	Nov. 18	2281	507	101	1396
Hammond, Charles, New York, N. Y. Bicycle-support	698,377	Apr. 22	3548	781	99	800
Hammond, David, Canton, Ohio. Combined shape-metal cutting, coping, and upsetting machine	700,419	May 20	2563	587	99	1733
Hammond, Edgar B., New Bedford, Mass. Tackle-block	699,518	May 6	733	171	99	1327
Hammond, George B. and T. Dennis, Neath, England; said Dennis assignor to said Hammond, Apparatus for coating metal plates	706,408	Aug. 5	819	179	100	1279
Hammond, George S., Chicago, Ill. Cigarette-former	706,931	Aug. 12	1791	401	100	1500
Hammond, George W., assignor of one-half to S. S. Wiener, Philadelphia, Pa. Apparatus for preventing trolley-wheels from leaving the feed-wire	703,786	July 1	761	167	100	152
Hammond, Isaac B., Portland, Oreg. Dredger and excavator	710,054	Sept. 30	3988	869	100	2861
Hammond, James B., Camden, Me. Adjustable type-writer key	701,563	June 3	511	112	99	2214
Hammond, James W., Fredonia, N. Y. Electric-current regulator	714,893	Dec. 2	508	106	101	1937
Hammond, John E., assignor of one-half to W. E. Aydelotte, Sullivan, Ind. Rail-joint	708,351	Sept. 2	646	146	100	2112
Hammond, Leander W., Plainfield, assignor of one-half to S. A. Wallace, North Plainfield, N. J. Propeller-wheel	695,380	Mar. 11	1980	443	98	2145
Hammond, Lewis M. (See Blaine, Otis E., assignor.)						
Hammond, Myron B., Bridgeport, Conn. Hose-supporter hook	704,249	July 8	1642	356	100	343
Hammond, Myron B., Bridgeport, Conn. Garment-clasp	704,337	July 15	2212	470	100	478
Hammond, Myron B., Bridgeport, Conn. Hose-supporter	708,037	Sept. 2	80	18	100	1998
Hammond, Myron B., Bridgeport, Conn. Hose-supporter hook	713,214	Nov. 11	1423	321	101	1205
Hammond, Myron B., Bridgeport, Conn. Hose-supporter hook	714,300	Nov. 25	3601	792	101	1692
Hammond, Myron B., Bridgeport, Conn. Hose-supporter hook	716,413	Dec. 23	3435	749	101	2598
Hammond, Myron B. and T. P. Taylor, Bridgeport, Conn. Hook for attaching hose-supporters to corsets	710,862	Oct. 7	888	193	101	180
Hammond, Oliver S., assignor of two-thirds to A. M. Campbell and V. Robin, Toronto, Canada. Sanding-machine	701,877	June 10	1061	239	99	2345
Hammond, Ormond. (See Butler and Hammond.)						
Hammond, Robert A. (See Dill, James S., assignor.)						
Hammond, William A., and J. C. Kahle, Oil City, Pa. Envelop	696,431	Apr. 1	68	16	99	18
Hammons, James E., Portland, Ind. Interdependent heating and ventilating device	713,760	Nov. 18	2513	559	101	1448
Hampden Watch Co. (See Corey, Varian S., assignor.)						
Hampden, Wellesley R. (See Holmes and Hampden.)						
Hampe, Albert H. (See Seekamp and Hampe.)						
Hampson, Charles M., Denver, Colo. Turn-table	695,307	Mar. 11	1858	413	98	2118
Hampson, Frank G., London, England. Friction-clutch	694,270	Feb. 25	3917	870	98	1663
Hampson, Frank G., Clapham, England. Water-tube boiler	695,641	Mar. 18	2454	556	98	2260
Hampson, Frank G., Chelsea, assignor of one-half to H. Swales, London, England. Aeration of liquids	715,575	Dec. 9	1760	557	101	2212
Hampson, Frank G., Clapham, and H. Swales, London, England. Aeration of liquids	715,658	Dec. 9	1899	425	101	2241
Hampson, Joseph. (See Stone and Hampson.)						
Hampton, Thomas, assignor of one-half to Steel Nut and Joseph Hampton, Limited, Wednesbury, England. Screw lifting-jack	716,337	Dec. 16	3273	715	101	2549
Hamrick, Adam H. (See Rhoads and Hamrick.)						
Hanan, Alfred M., Brooklyn, N. Y. Envelop and fastening therefor	710,684	Oct. 7	549	114	101	112
Hanchett, Lafayette, Idaho Springs, and W. C. Davis, Denver, Colo. Pneumatic shovel	699,080	May 13	1065	249	99	1407
Hancock, Charles D., Chicago, Ill. Fastening device	702,056	June 10	1414	317	99	2417
Hancock, Henry J., assignor of one-half to T. S. Jessup, New York, N. Y. Chain-stitch sewing-machine	707,227	Aug. 19	2348	526	100	1633
Hancock, Henry J., New York, N. Y., assignor to G. T. Batchelor, South Orange, N. J., and S. Stenson, Seaclyff, N. Y. Needle-feed chain-stitch sewing-machine	691,311	Jan. 14	1776	404	98	385
Hancock Inspirator Company. (See Park, William R., assignor.)						
Hancock Inspirator Company. (See Williston, Belvin T., assignor.)						
Hancock, John, Alton, Ill. Safety-pin	716,888	Dec. 30	4467	968	101	2843
Hancock & Leighton. (See Hacking, Robert, assignor.)						
Hancock, Luke H., Fargo, N. D. Shoe-lace fastener	701,199	May 27	4042	929	99	2061
Hancock, Milton T., Shreveport, La. Convertible disk plow	692,655	Feb. 4	769	176	98	957
Hand, Edward M., Orient, S. D. Wire-stretcher	702,648	June 17	2493	572	99	2659
Händel, Hermann L. (See Bergstrasser, Händel, and Mues.)						
Handelsgesellschaft Adolph Winter. (See Krüger, August, assignor.)						
Handiges, Philip T., assignor of one-half to Damascus Brake Beam Company, St. Louis, Mo. Brake-beam fulcrum	708,352	Sept. 2	647	146	100	2113
Handiges, Philip T., assignor to T. H. Simpson, trustee, and Michigan Malleable Iron Co., Detroit, Mich. Car-coupling	692,850	Feb. 11	1124	251	98	1054
Handler-Buck Manufacturing Company. (See Moyle, Leigh, assignor.)						
Handschin, Johannes. (See Kirschner, Léon, assignor.)						
Handschumacher, John, San Francisco, Cal. Door-hanger	715,373	Dec. 9	1376	296	101	2136
Handy Company. (See Cowan, James W., assignor.)						
Handy, Lucien H., assignor to American Faucet Company, San Francisco, Cal. Device for drawing liquids	701,335	June 3	104	21	99	2130
Handy, Lucien H., San Francisco, and C. S. Hosford, Berkeley, Cal. Burglar-alarm and door-lock	700,039	May 13	1764	408	99	1551
Handy Things Company. (See Bailey, Herbert L., assignor.)						
Handy Window Shade Adjuster Company. (See Hover, Albert H., assignor.)						
Hanes, Pleasant H., Jr. (See Crouch, Joseph B., assignor.)						
Hanford, Melancthon, Malden, Mass. Elevator	703,127	June 24	3413	783	99	2863
Hanford Oil Burner Company. (See Payne, James B., assignor.)						
Hanford, Orrin A., Woburn, assignor to C. A. Gridley and G. Bernard, Boston, Mass. Burnishing or polishing machine	700,642	May 20	2965	681	99	1819
Hanger, James E., Washington, D. C. Adjustable reclining chair	704,459	July 8	2044	443	100	430
Hangel, Karl F. (See Simons and Hangel.)						
Hankey, Joseph, Boston, Mass. Slide-trombone	699,681	May 13	1670	250	99	1408
Hankins, Elias, Purdon, Tex. Plow	709,901	Sept. 30	3702	835	100	2801
Hankins, Lewis T., Troy, assignor of one-half to H. M. Case, Toledo, Ohio. Combined curd-knife and whey-strainer	709,819	Sept. 16	2526	569	100	2533
Hankins, Theodore D., and F. J. Booher, New Ross, Ind. Vault or grave	699,620	May 6	935	216	99	1368
Hanks, Marshall W., assignor to G. Westinghouse, Pittsburg, Pa. Making glowers for electric lamps	690,856	Jan. 7	924	206	98	195



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Hanks, Marshall W., assignor to G. Westinghouse, Pittsburg, Pa. Removable heater for electric lamps	605,928	Mar. 25	2965	671	98	2380
Hanks, Marshall W., assignor to G. Westinghouse, Pittsburg, Pa. Electric lamp	716,889	Dec. 30	4468	968	101	2844
Hann, Job G., Grand Rapids, Mich. Bicycle-lock	710,570	Oct. 7	341	74	101	60
Hanna, Benjamin M., Pittsburg, Pa. Bunsen gas-burner	694,716	Mar. 4	788	175	98	1878
Hanna, Elmer E., Chicago, Ill., assignor to Allis-Chalmers Company, Jersey City, N. J. Ore-crusher	691,135	Jan. 14	1429	324	98	312
Hanna, Elmer E., assignor to Allis-Chalmers Company, Chicago, Ill. Carrying-roll	712,061	Oct. 28	3242	710	101	720
Hanna, Leon C., Tampa, Fla. Bicycle-wheel hub	698,941	Apr. 29	4856	1071	99	1098
Hannah, James. (See Hannah, Richard H., assignor.)						
Hannah, Richard H., Ontario, assignor of one-half to J. Hannah, San Pedro, Cal. Wave-motor	693,270	Feb. 11	1092	433	98	1234
Hannan, John B. (See Cavanagh, Hannan, and Clarke.)						
Hannay, James B., Loch Long, Scotland. Manufacturing white pigment	712,527	Nov. 4	120	29, 30	101	923
Hanneborg, Odilon B. H., Christiania, Norway. Excavator	706,175	Aug. 5	337	72, 73	100	1186
Hanner, Edward, assignor of two-fifths to G. W. Hanner, Ridgway, Pa. Tack or nail puller	694,854	Mar. 4	995	221	98	1923
Hanner, George W. (See Hanner, Edward, assignor.)						
Hannes, William F., assignor of one-half to W. J. Browning, Deming, N. Mex. Ter. Smelting-furnace	712,374	Oct. 28	3779	827	101	830
Hanni, Henry, Portland, Oreg. Brick-making machinery	690,857	Jan. 7	926	206	98	195
Hannigan, Charles H. (See Seitz and Hannigan.)						
Hannun, Henry A., Cazenovia, N. Y. Rotary cutter	691,939	Jan. 28	2975	669	98	670
Hannun, Henry A., Cazenovia, N. Y. Game apparatus	703,632	Sept. 23	3164	706	100	2617
Hannum, Philip E., Carthage, Mo. Fan attachment for bicycles	702,003	June 10	1294	296	99	2391
Hano, Philip, New York, N. Y. Manifying sales or copying book	709,320	Sept. 16	2327	569	100	2533
Hanpeter, Edward C. (See Upton, Frank B., assignor.)						
Hanrahan, Francis J., Catawissa, Pa. Sliding-door lock	716,890	Dec. 30	4469	969	101	2844
Haurot, Conrad, and H. O. Seyd, London, England. Coaster-brake	695,685	Mar. 18	2326	572	98	2274
Hanrotty, Thomas D. (See Shaw, Bert J., assignor.)						
Hansbury, Peter R., New York, N. Y. Street-sweeper	703,194	June 24	3543	814	99	2888
Hanscom, John B. (See Bird and Hanscom.)						
Hanscom, John B., assignor to F. W. Bird and Son, East Walpole, Mass. Making paper.	702,205	June 10	1663	373	99	2468
Hanse, Mary. (See Hotchkiss, Arthur E., assignor.)						
Hanseatische Acetylen-Gasindustrie Aktiengesellschaft. (See Traubel, Salomon, assignor.)						
Hansell, Robert B., Baltimore, Md. Display-bench for dog-shows	706,316	Aug. 5	629	137	100	1243
Hansen, Andrew P., Omaha, Nebr. Horse-checking device	695,390	Mar. 11	1981	444	98	2145
Hansen, Charles H., Racine, Wis. Awning	690,650	Jan. 7	543	118	98	116
Hansen, Charles H., Racine, Wis. Awning-protector	706,820	Aug. 12	1590	358	100	1459
Hansen-Ellehammer, Jacob C., Copenhagen, Denmark. Cigarette-machine	700,040	May 13	1756	408	99	1551
Hansen-Ellehammer, Jacob C., Copenhagen, Denmark. Cigarette-machine	702,206	June 10	1665	374	99	2468
Hansen, Friedrich, Husum, Germany. Ball-bearing	692,135	Jan. 28	2934	375	98	742
Hansen, Hans N., Jyderup, Denmark. Roof	716,225	Dec. 16	3066	669	101	2508
Hansen, John M., Pittsburg, Pa. Truck-frame for railway-cars	706,233	Aug. 5	445	94	100	1207
Hansen, John M., Pittsburg, Pa. Truck-frame for railway-cars	706,234	Aug. 5	447	94	100	1207
Hansen, John M., assignor to Pressed Steel Car Company, Pittsburg, Pa. Metallic-frame box-car	701,720	June 3	792	175	99	2274
Hansen, Lars. (See Wile, Louis, assignor.)						
Hansen, Mads L., East Oakland, Cal. Detachable heel for boots or shoes	691,857	Jan. 28	2833	636	98	641
Hansen, Mads L., Oakland, Cal. Detachable heel	699,519	May 6	374	171	99	1327
Hansen, Martin, Livermore, Cal. Barley-bearder and cereal-polisher	692,011	Jan. 28	3103	697	98	695
Hansen, Oswald H., Milwaukee, Wis. Bicycle-lock	691,374	Jan. 21	1927	433	98	435
Hansen, Rasmus P., Erindalsvej Sogn, Denmark. Valve mechanism for explosive-engines	706,932	June 12	1794	401	100	1500
Hansen, Victor. (See Douglas and Hansen.)						
Hanshill, Paul, Lewistown, Mo. Wall tie or bond	702,944	June 24	3059	704	99	2791
Hanson, Albert. (See Field and Hanson.)						
Hanson, Albert G., Westhaven, Conn., assignor to L. I. De Meritte, Lee, N. H. Puzzle	695,455	Mar. 18	2093	472	98	2187
Hanson, Antonia, et al. (See Baillard, Edward V., assignor.)						
Hanson, August, New Haven, Conn. Adjustable shade-bracket	708,226	Sept. 2	427	97	100	2068
Hanson, Bengt M. W., assignor to Winkley Company, Hartford, Conn. Oil-cup	697,082	Apr. 8	1341	297	99	304
Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Lathe-turret stop	699,310	May 6	341	79, 80	99	1243
Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Lathe-turret stop	701,719	June 3	788	174	99	2273
Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Milling-cutter	703,577	July 1	361	83	100	72
Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Fluid-operated stop-valve and alarm	711,398	Oct. 14	1920	418	101	415
Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Work-support	711,722	Oct. 21	2548	560	101	501
Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Feed-mechanism for metal-working machines	711,851	Oct. 21	2788	618	101	611
Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Feed-mechanism for metal-working machines	711,852	Oct. 21	2796	619	101	614
Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Relieving attachment for lathes	714,894	Dec. 2	510	106	101	1938
Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Chuck operating and feeding device	714,895	Dec. 2	514	107	101	1938
Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Thrust-bearing for collars	714,896	Dec. 2	516	107	101	1939
Hanson, Bengt M. W., and F. W. Gordon, assignors to Pratt & Whitney Company, Hartford, Conn. Lathe-feed	701,564	June 3	513	113	99	2214
Hanson, Bengt M. W., and F. W. Gordon, assignors to Pratt & Whitney Company, Hartford, Conn. Gear-tumbler	703,578	July 1	363	83	100	72
Hanson, Bengt M. W., and F. W. Gordon, assignors to Pratt & Whitney Company, Hartford, Conn. Variable-speed device	706,049	Aug. 5	92	19, 20	100	1135
Hanson, Charles F. (See Barton and Hanson.)						
Hanson, Charles F., et al. (See Schulz, Otto C., assignor.)						
Hanson, Charles M., Peacedale, R. I. Apparatus for dyeing slivers	708,808	Sept. 9	1486	340	100	2298

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Hanson, Ernest F., Dorchester, assignor to Library Bureau, Boston, Mass. Numbering attachment for printing-presses	692,515	Feb. 4	530	124 125	98	906
Hanson Furniture Company. (See Hanson, Henry M., assignor.)						
Hanson, Gustof W., et al. (See Darwin, Frank L., assignor.)						
Hanson, Hans, et al. (See Darwin, Frank L., assignor.)						
Hanson, Henry M., assignor to Hanson Furniture Company, Janesville, Wis. Table	702,057	June 10	1417	317 318	99	2417
Hanson, Nathan C., Medfield, assignor of one-half to A. B. Colburn, Westwood, Mass. Tongue-buckle	703,255	June 24	3647	838	99	2010
Hanson, Richard B., assignor to J. H. Diehl, Buffalo, N. Y. Bow-facing oar	706,491	Aug. 5	975	214	100	1313
Hanson, Robert, R. Henshall, and A. E. Boardman, Warrington, England. Water-tube boiler	716,032	Dec. 16	2670	580 590	101	2425
Hanson, Walter T., Macon, Ga. Cop-winding machine	714,897	Dec. 2	517	108 109	101	1939
Hanson, William. (See Pierce and Hanson.)						
Hansson, Hans, Shingleton, Mich. Tool for peeling poles, &c	715,374	Dec. 9	1378	297	101	2137
Hansson, Per. (See Rosengren, Anders A., assignor.)						
Happ, Conrad. (See Atherton and Happ.)						
Happe, William C., Davenport, Iowa. Railway-truck	715,791	Dec. 16	2181	488	101	2320
Happold, Henry C., New York, N. Y. Focusing-hood for photographic cameras	703,655	July 1	513	115	100	101
Haptonstall, James E. (See Lottridge, William M., assignor.)						
Harbison & Walker Company. (See Reif, Otto M., assignor.)						
Harbough, Winfield, Santa Barbara, Cal. Apparatus for dusting and cleaning garments	715,792	Dec. 16	2183	488	101	2320
Harbour, Mack F. (See Sinclair, Millard F., assignor.)						
Harcourt, Edgar G., Birmingham, England, and M. B. Lloyd, Minneapolis, Minn. Electrical push and switch	704,322	July 8	1778	388	100	373
Hard, John R., New York, N. Y. Hook and eye	709,302	Sept. 30	3705	335	100	2802
Hardcastle, Thomas H., Moberly, Mo. Disk seed-planter	697,479	Apr. 15	2055	454	99	472
Hardeman, William E., Carlton, Victoria, Australia. Sliding window	710,322	Sept. 30	4497	1014	100	2970
Harden, Edward W. (See Rabbe, Harden, and Dempsey.)						
Harden, Edward W., W. H. Rabbe, and M. E. Dempsey, assignors to American Frog & Switch Company, Hamilton, Ohio. Adjustable switch	712,062	Oct. 28	3243	710	101	721
Harden, Harry, assignor of one-half to M. and J. Carter, London, Ohio. Combined shaft support and coupling	702,900	June 10	1516	414	99	2499
Harden, Hiram O., Ioka, Iowa. Mail and parcel carrier	692,443	Feb. 4	388	94,05	98	879
Hardenberg, William L. von, Brooklyn, N. Y. Trolley	705,798	July 29	4788	1039	100	1029
Harders, Hartwig M. A., Milwaukee, Wis. Means for carrying bottles	699,868	May 13	1439	332	99	1485
Hardie, James H., New York, N. Y. Power applying and transmitting apparatus	701,480	June 3	366	81	99	2184
Harding, Fred D. (See Richardson, Horace M., assignor.)						
Harding, George W. (See Marqua, Magdalena, assignor.)						
Harding, Henry M., Englewood, N. J. Means for regulating speed of cars on overhead electric railways	692,136	Jan. 28	3335	755	98	742
Harding, Henry M., Englewood, N. J. Support for trolley and track wires for suspended cable-roads	692,137	Jan. 28	3336	756	98	742
Harding, Henry M., New York, N. Y. Support for suspended-cable-track roads	707,228	Aug. 19	2350	527	100	1633
Harding, Henry M., New York, N. Y. Overhead electric carrier and hoisting device	716,033	Dec. 16	2671	590	101	2426
Harding, Hiram B., Los Angeles, Cal. Tug sheave-clutch	707,321	Aug. 19	2526	568	100	1069
Harding, J. Horace. (See Clark, Absalom F., assignor.)						
Harding, John, Jr., Chicago, Ill. Clutch mechanism	693,271	Feb. 11	1993	433	98	1234
Harding, John, Jr., Chicago, Ill. Fluid-power-transmission mechanism	697,143	Apr. 8	1432	319 320	99	324
Harding, Walter R., Palmer, assignor to M. J. Whittall, Worcester, Mass. Harness-operating mechanism for looms	693,796	Feb. 18	2981	658 659	98	1458
Hardinge, Franklin, assignor to Geneva Optical Company, Chicago, Ill. Lens-measuring instrument	703,725	July 1	649	144	100	130
Hardison, Edwin A., assignor of one-half to J. L. Oliva, Santa Paula, Cal. Well-rig	704,250	July 8	1642	356 357	100	343
Hardison, Lewis A., Santa Paula, Cal. Drilling device	717,095	Dec. 30	4859	1053	101	2925
Hardman Rubber Company. (See Schwerin, Silas, assignor.)						
Hardman Rubber Company. (See Vertz, Herman, assignor.)						
Hardsoeg, Lester C. (See Hardsoeg, Martin, assignor.)						
Hardsoeg, Martin, assignor of one-half to L. C. Hardsoeg, Ottumwa, Iowa. Combination miner's tool	705,997	July 29	5138	1120	100	1100
Hardwick, Harry, Philadelphia, Pa. Device for correcting improper registry of party-colored warp-threads	691,136	Jan. 14	1430	324	98	313
Hardwick, Harry, assignor to Ivins, Dietz & Metzger Company, Philadelphia, Pa. Toven fabric	710,775	Oct. 7	732	115 116	101	150
Hardy, Francis A., Evanston, Ill. Optometer	698,893	Apr. 29	4672	1029	99	1060
Hardy, Hattie E., Walkerton, Ind. Cover for cooking utensils	700,764	May 27	3244	743	99	1894
Hardy, James F., assignor to Consolidated Dental Manufacturing Company, New York, N. Y. Elevating and controlling mechanism	694,637	Mar. 4	575	126 127	98	1834
Hardy, James F., assignor to Consolidated Dental Manufacturing Company, New York, N. Y. Elevating and controlling mechanism	715,476	Dec. 9	1564	339 340	101	2173
Hardy, James H., Waco, Tex. Trousers-guard	703,579	July 1	364	84	100	72
Hardy, John F., Monticello, Ind. Safety device for use in filling fluid-reservoirs	695,929	Mar. 25	2666	671 672	98	2380
Hardy, John F., Monticello, Ind. Hydrocarbon-burner	700,914	May 27	3524	809	99	1950
Hardy Motor Works. (See Hardy, Roy E., assignor.)						
Hardy, Roy E., Detroit, assignor, by mesne assignments, to Hardy Motor Works, Limited, Port Huron, Mich. Mixing-valve for gas or gasoline engines	706,050	Aug. 5	94	20	100	1136
Hardy, Thomas S., Knoxville, Miss. Wire-shade adjuster	713,215	Nov. 11	1424	322	101	1205
Hardy, Willis F., Ottumwa, Iowa. Electric protective device	694,852	Mar. 4	997	231	98	1923
Hare, George, Los Angeles, Cal. Bronzing-machine	702,551	June 17	2295	522	99	2618
Hare, Joseph C., Greencastle, assignor to C. B. Ford, Indianapolis, Ind. Derailing-switch	711,308	Oct. 14	1765	382	101	382
Hare, William, Augusta, Ill. Dental mouth prop and mirror	692,281	Feb. 4	119	28	98	823
Haren, Edward. (See Olsted, Christian, assignor.)						
Hargrave, Benjamin O., Merkel, Tex. Wireworking-tool	692,282	Feb. 4	120	28	98	823
Hargrave, William, assignor of one-fourth to B. C. Maclean, Montreal, Canada. Door-spring	693,389	Feb. 18	2220	487	98	1302
Haring, William N., Nyack, N. Y. Trolley-rail	701,565	June 3	515	113	99	2215
Haring, William N., Nyack, N. Y. Electric alarm	701,566	June 3	516	114	99	2215
Haring, William N., Nyack, N. Y. Door-securer	716,707	Dec. 23	4012	879	101	2721
Harker, Charles O., Sioux City, Iowa. Poison-holder	716,593	Dec. 23	3681	838	101	2649
Harker, Oliver A., Jr., Carbondale, Ill. Metallic fence-post	703,726	July 1	653	144	100	151



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Harkins, Francis W., Chicago, Ill. Fire-escape.	714,108	Nov. 18	3183	705	101	1589
Harlan, Harry E., assignor to Harlan Manufacturing Company, Toledo, Ohio. Toilet article.	713,761	Nov. 18	2516	560	101	1448
Harlan Manufacturing Company. (See Harlan, Harry E., assignor.)						
Harlé, Henri A. E. (See Râteau and Harlé.)						
Harless, Joseph D., Birmingham, Ala. Collapsible core-bar	697,083	Apr. 8	1343	297	99	304
Harley, Henry M. (See Lundgren, Jacob, assignor.)						
Harloe, Morton, Hawley, Pa. Insulator.	715,375	Dec. 9	1879	297	101	2187
Harlow, M. B., et al. (See Cheeseman, Lewis, Sr., assignor.)						
Harnel, Leopold, Boulicourt, France. Metallic yarn and textile fabric	700,915	May 27	3528	809	99	1951
Harner, Thomas, Burlington, N. J., assignor to Manufactured Rubber Company, Metchen, N. J., and Philadelphia, Pa. Utilizing waste-rubber scrap	697,338	Apr. 8	1769		99	396
Harnet, Henri, St. Etienne, France. Press for compressing liquid steel in conical ingot-molds.	711,092	Dec. 2	76	16	101	1853
Harmon, Alonzo, Tecumseh, Nebr. Cultivator	704,538	July 15	2213	479	100	479
Harmon, Anthony, et al. (See Gaynor, John J., assignor.)						
Harmon, Edward N., Belvedere, Cal. Tank.	704,539	July 15	2214	479	100	479
Harmon, Edwin C., trustee. (See Wood, James E., assignor.)						
Harmon, Frank A. (See Moser, Fred, assignor.)						
Harmon-Whitmore Company. (See Lane and Whitmore, assignors.)						
Harms, Albert J., Etherley, Ill. Railway-tie.	697,480	Apr. 15	2057	454	99	472
Harms, George H. (See Sherman and Harms.)						
Harnden, Wesley S., Paola, Kans. Clothes-line	714,797	Dec. 2	295	64	101	1897
Harner, Daniel W. (See Walton and Harner.)						
Harnisch, Karl, St. Petersburg, Russia, assignor to American Tobacco Company, New York, N. Y. Rolling mechanism for cigarette-mouthpieces	716,534	Dec. 23	3684	804	101	2649
Harnisch, Karl, St. Petersburg, Russia, assignor to American Tobacco Company, New York, N. Y. Cutting mechanism for forming projections on mouthpiece material	716,535	Dec. 23	3686	804	101	2650
Harnisch, Karl, St. Petersburg, Russia, assignor to American Tobacco Company, New York, N. Y. Cigarette-tube	716,536	Dec. 23	3691	804	101	2652
Harnisch, Karl, St. Petersburg, Russia, assignor to American Tobacco Company, New York, N. Y. Machine for forming cigarette-tubes.	716,537	Dec. 23	3692	805	101	2652
Harp, William R. (See Smith and Harp.)						
Harper, Charles R., Marshalltown, Iowa. Vise and bracket	708,038	Sept. 2	81	19	100	1998
Harper, Frank, Beverly, Ohio. Gas-burner.	705,581	July 29	4391	952 953	100	949
Harper, James M., Chicago, Ill. Churn	697,715	Apr. 15	2486	555	99	557
Harper, James N., Kansas City, Mo. Automatic electric semaphore-signal	704,323	July 8	1778	388	100	874
Harper, Nelson E., Paulding, Ohio. Photograph-holder	715,376	Dec. 9	1380	297	101	2137
Harper, Robert L. (See Goodwin, Margaret E., assignor.)						
Harper, Smith, Abington Township, Montgomery county, Pa., assignor to S. Harper & Sons. Asphalt-hoe.	709,903	Sept. 30	3706	835	100	2802
Harper & Sons, Smith. (See Harper, Smith, assignor.)						
Harper, Walter L., Mena, Ark. Automatic railway-signal	704,877	July 15	2812	609	100	602
Harper, William A., Glendale, S. C. Furrow opening and covering attachment for planters	701,336 691,763	June 3 Jan. 28	107 2659	21 596	99 98	2131 606
Harper, William E., Chicago, Ill. Dental instrument						
Harpham, G. E. (See Price, George W., assignor.)						
Harpham, George E. (See Kittle and Harpham.)						
Harpham, George E., et al. (See Dyer, Fayette, assignor.)						
Harrah, William F., Des Moines, Iowa. Combined book-holder and arm-rest	698,014 696,392	Apr. 22 Mar. 25	3035 3799	667 847	99 98	693 2552
Harrell, Conrad, Whigham, Ga. Trace-carrier	692,656	Feb. 4	771		98	957
Harries, Carl, assignor to Chemische Fabrik auf Actien, vorm. E. Schering, Berlin, Germany. Acidyl derivative of unsymmetrical acetonalkamins and making same	709,440	Sept. 16	2769	624	100	2584
Harriman, Henry I., New York, N. Y. Weft-replenishing loom	692,198	Jan. 28	3337	756 757	98	743
Harriman, Henry I., New York, N. Y., assignor to American Loom Company, Readville, Mass. Weft-replenishing loom						
Harriman, Henry I., New York, N. Y., assignor to American Loom Company, Readville, Mass. Weft-detecting device for looms	714,690	Dec. 2	72	15	101	1852
Harriman, Louis H., Haverhill, assignor to Plunger Elevator Company, Worcester, Mass. Slow-closing device for hydraulic-elevator valves	701,265	May 27	4165	957	99	2083
Harrington, Benoni R., Oklahoma, Okla. Ter. Repeating gun	693,965	Feb. 25	3330	731 732	98	1546
Harrington, Charles F., Lyndhurst, N. J. Voting-machine	703,787	July 1	762	168	100	152
Harrington, David, Worcester, Mass. Spinning-ring	693,797	Feb. 18	2982	659	98	1459
Harrington, E. B., trustee. (See Baker, Willard D., assignor.)						
Harrington, F. L., et al. (See Eichholtz, William B., assignor.)						
Harrington, Harry C., and W. M. Towers, Rome, Ga. Car-mover	709,765	Sept. 23	3415	767	100	2729
Harrington, Jeremiah, Auburn, N. Y. Gate-heater	712,672	Nov. 4	390	91	101	979
Harrington, John, Coventry, England. Friction-clutch	694,472	Mar. 4	252	56	98	1765
Harrington, John G., Streator, Ill. Fruit-bottle holder	716,226	Dec. 16	3065	670	101	2500
Harrington, Louder, Chester, Pa., assignor to J. F. Wells and E. W. Bonnett, Aberdeen, Md. Can-dipping machine	707,969	Aug. 26	3831	861	100	1950
Harrington, Neal J. (See Hastings and Harrington.)						
Harrington, Patrick S., assignor of two-thirds to G. E. Smith and C. R. Lockwood, Chicago, Ill. Driver's whip	715,576	Dec. 9	1765	391	101	2213
Harrington, Samuel H., New York, N. Y. Railway heater system	704,797	July 15	2867	577	100	570
Harris, Abraham, trustee. (See Cornfield, Noah, assignor.)						
Harris, Alfred, Culmet, Mich. Miner's hat	691,623	Jan. 21	2375	534	98	528
Harris, Alfred E., London, England. Cooking apparatus	713,635	Nov. 18	2282	568	101	1396
Harris, Anthony, London, England. Apparatus for purifying water	700,420	May 20	2566	387	99	1733
Harris Automatic Press Company. (See McNutt, John F., assignor.)						
Harris, Barnett W., Waveland, Ind. Gas-filter	707,774	Aug. 26	3455	778	100	1878
Harris, Ben. J. (See Ambruster, William, assignor.)						
Harris, Benjamin S. H. (See Harris, William A. and B. S. H.)						
Harris, Calvin P., New York, N. Y., assignor to Reed and Barton Corporation, Taunton, Mass. Individual communion service	697,247	Apr. 8	1607	361 362	99	360
Harris, Charles B., assignor to S. I. Atwater, trustee, New York, N. Y. Artificial fuel	709,851	Sept. 23	3573		100	2763
Harris, Charles E., et al. (See McInnis, William N., assignor.)						
Harris, Charles R., Williamsport, Pa. Filter	700,916	May 27	3529	809	99	1951
Harris, Charles R., Williamsport, Pa., assignor to Harris Safety Company, New York, N. Y. Fire-alarm	704,681	July 15	2438	527	100	525
Harris, Charles R., Williamsport, Pa., assignor to Harris Safety Company, New York, N. Y. Nozzle	705,754	July 29	4716	1020	100	1013
Harris, Charles R., Williamsport, Pa., assignor of one-half to J. E. Austrian, New York, N. Y. Attachment for suspenders	706,933	Aug. 12	1796	402	100	1501

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Harris, Charles R., and C. C. Barrick, Los Angeles, Cal. Composition of fireproof wall-plaster.	708,853	Sept. 2	648	.....	100	2113
Harris, Charles R., and C. C. Barrick, Los Angeles, Cal. Fireproof wall-plaster.	708,354	Sept. 2	649	.....	100	2113
Harris, Charles W., Akron, Ohio. Rubber tire.	710,971	Oct. 14	1073	287	101	235
Harris, David W., Alamo, Tenn. Plow-brace.	706,935	Aug. 12	1798	402	100	1501
Harris, Edward E. (See Hinman, Walter E., assignor.)	715,262	Dec. 9	1167	249	101	2098
Harris, Elmo G., Rolla, Mo. Centrifugal pump.	705,347	July 22	3897	843	100	837
Harris, Elmo G., Rolla, Mo. Centrifugal pump.	717,096	Dec. 30	4861	1053	101	2926
Harris, Frank H., Toledo, Ohio. Trolley cart.	706,934	Aug. 12	1797	402	100	1501
Harris, Frank L., assignor to S. A. Cook & Company, Medina, N. Y. Adjusting device for furniture.	714,177	Nov. 25	3359	739	101	1644
Harris, Franklin P., assignor of one-half to B. Smoot, Greenville, Ky. Rocker attachment for sewing-machine treadles.	695,881	Mar. 18	2875	652	98	2348
Harris, Fred F. (See Howe, Hezekiah, assignor.)						
Harris, George P., China Spring, Tex. Seed-cotton elevator.	714,691	Dec. 2	75	15, 16	101	1853
Harris, George R., Norwich, Conn. Curtain for carriages.	701,337	June 3	108	32	99	2131
Harris, George W., Perry, Okla. Ter. Kitchen-cabinet.	714,480	Nov. 25	3908	864	101	1752
Harris, H. Gordon. (See Howard, James H., assignor.)						
Harris, Harry. (See Greer and Harris.)						
Harris, Hart, Washington, Pa. Lubricator.	701,567	June 3	518	114	99	2215
Harris, Henry S., et al. (See McInnis, William N., assignor.)						
Harris, Hugh, and S. M. Reese, Galion, Ohio. Wagon-rack.	705,735	July 29	4718	1021	100	1013
Harris, Isaac L., assignor of one-half to H. Partridge, Jacksonville, Fla. Acetylene-gas generator.	704,032	July 8	1227	1264	100	259
Harris, Isaiah, Van Wert, Ohio. Ironing-machine.	707,968	Aug. 26	3827	861	100	1950
Harris, Jesse, Rensselaer, N. Y. Operating electric motors.	712,673	Nov. 4	392	92	101	979
Harris, Jesse, Rensselaer, N. Y. Electric meter.	713,564	Nov. 11	2144	473	101	1352
Harris, John, Cleveland, Ohio. Gas-burner.	704,635	July 15	2363	513	100	509
Harris, John, assignor to Harris Manufacturing Company, Cleveland, Ohio. Acetylene-gas generator.	694,916	Mar. 4	1111	245	98	1948
Harris, John, Cleveland, assignor to S. H. Smart, trustee, Willoughby, Ohio. Gas-burner.	697,481	Apr. 15	2058	216	99	472
Harris, John N., South Norwood, assignor to Globe Trading Company, Limited, London, England. Refining oils.	692,283	Feb. 4	121	28	98	823
Harris, Jonathan, Cleveland, Ohio. Wire fence.	714,178	Nov. 25	3361	740	101	1644
Harris, Jonathan, assignor to Harris Wire Fence Company, Oxford, Mich. Hand-machine for casting balls upon wire crossings.	690,723	Jan. 7	707	156	98	149
Harris, Joseph W., Ashbourne, Pa. Manufacture of ether.	711,565	Oct. 21	2250	988	101	498
Harris, Louie J., New York, N. Y. Friction-clutch.	710,688	Oct. 7	551	115	101	113
Harris, Louis G., East Orange, N. J. Manufacturing gas.	693,008	Feb. 11	1455	316	98	1125
Harris Manufacturing Company. (See Harris, John, assignor.)						
Harris, Nelson G., Chicago, Ill., assignor to American Bicycle Company, New York, N. Y., and Jersey City, N. J. Carburetor for explosion-engines.	692,444	Feb. 4	394	95	98	880
Harris, Nicholas, and J. Bray, Russell Gulch, Colo. Blasting-fuse.	694,271	Feb. 25	3918	870	98	1664
Harris, Philip, Garden City, Minn. Valve-gear for steam-engines.	712,674	Nov. 4	392	92	101	979
Harris, Polk. (See Milam, Robert H., assignor.)						
Harris, Pompey, Petersburg, Va. Brick-cleaning machine.	717,191	Dec. 30	5079	1101	101	2973
Harris, Robert, Canal Dover, Ohio. Catching-machine for rolling-mills.	710,972	Oct. 14	1076	238	101	235
Harris, Roberta R., et al. (See McInnis, William N., assignor.)						
Harris Safety Company. (See Harris, Charles R., assignor.)						
Harris, Samuel J., Lake City, Fla. Switch.	703,917	July 1	999	217	100	199
Harris, Samuel J., Lake City, Fla. Safety appliance for switches.	703,918	July 1	1000	218	100	199
Harris, Samuel R., Knoxville, Pa. Elevator.	710,686	Oct. 7	553	115	101	113
Harris, Thomas. (See Carl, John H., assignor.)						
Harris, Washington L., Swissvale, Pa. Spike-puller.	714,107	Nov. 18	3184	704	101	1589
Harris, William A. and B. S. H., Greenville, S. C. Train signaling apparatus.	700,765	May 27	3245	743	99	1894
Harris, William A. and B. S. H., Greenville, S. C. Train signaling apparatus.	700,766	May 27	3251	744	99	1895
Harris, William L., assignor of three-fourths to G. H. B. and G. H. French and A. T. Howland, Chicago, Ill. Dust-pan.	698,834	Apr. 29	4674	1029	99	1060
Harris, William P., assignor to Fruit Stoning and Preserving Syndicate, Limited, London, England. Machine for removing stones from cherries or other single-stoned fruit.	704,876	July 15	2800	698	100	601
Harris, William R., Akron, Ohio. Rubber tire.	703,408	July 1	80	16	100	19
Harris, William W., assignor to Max Huncke Chemical Company, New York, N. Y. Embalming-catheter.	707,775	Aug. 26	3457	778	100	1878
Harris, William W., and W. D. Chew, Eldorado, Ark. Street-car and railway indicator.	705,235	July 22	3636	787	100	786
Harris Wire Fence Company. (See Harris, Jonathan, assignor.)						
Harrison, Arthur W. (See Harrison, Benjamin J., assignor.)						
Harrison, Arthur W., assignor of two-thirds to F. A. Marcher, Los Angeles, Cal. Electrode-separator for batteries.	708,708	Sept. 9	1282	293	100	2252
Harrison, Benjamin J., assignor to A. M. Harrison, Whiteplains, N. Y. Portable folding chair.	707,841	Aug. 26	3398	812	100	1904
Harrison Bros. & Co. (See Darling, James D., assignor.)						
Harrison, Charles M., Napoleon, Ohio. Steam shovel or excavating-machine.	716,538	Dec. 23	3700	806	101	2654
Harrison, Edwin J., et al. Platts, Elmer, Pa. Chop-chop.	690,974	Apr. 1	526	121	99	114
Harrison, Frank A., Keokuk, Iowa. Tea or coffee pot.	703,919	July 1	1002	218	100	200
Harrison, Frank B. (See Tunks, Nelson H., assignor.)						
Harrison, Frank B., Toledo, Ohio. Dust-guard for journal-boxes.	692,284	Feb. 4	122	28	98	823
Harrison, Frank B., Toledo, Ohio. Window-screen.	714,898	Dec. 2	521	109	101	1940
Harrison, George F., Knoxville, Tenn. Calculating-machine.	701,721	June 3	795	176	99	2274
Harrison, Henry J., Juneau, Alaska. Lamp-hanger.	695,308	Mar. 11	1859	413	98	2118
Harrison, Henry J., Juneau, Alaska. Lamp-hanger.	698,276	Apr. 22	3549	782	99	891
Harrison, James M., et al. (See Thurmond, Thomas D., assignor.)						
Harrison, John W., Detroit, Mich. Signal-station.	698,942	Apr. 29	4857	1072	99	1098
Harrison, Joseph H., et al. (See Quayle, William, assignor.)						
Harrison, Julian R., assignor of one-half to J. M. and J. R. Easterling, Barnwell, S. C. Fountain-comb.	710,269	Sept. 30	4406	993	100	2951
Harrison, Marion C., Kansas City, Mo. Cutoff for down-spouts.	693,009	Feb. 11	1456	316	98	1125
Harrison, Meyer, et al. (See Quayle, William, assignor.)						
Harrison, Newton, assignor of one-half to W. H. Laird, New York, N. Y. Hair-pin.	708,959	Sept. 9	1785	412	100	2359



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Harrison, Newton, assignor of one-half to W. H. Laird, New York, N. Y. Electric clock	709,818	Sept. 23	3520	793	100	2751
Harrison, Owen L., Coletta, Ill. Pocket-knife leather-punch	701,878	June 10	1063	239	99	2346
Harrison, Theodore N., Middletown, Ohio. Mechanical stoker	691,764	Jan. 28	2660	596	98	606
Harrison, Thomas, Bowling Green, Ohio. Attachment for car-couplings	703,250	June 24	3648	587	99	2910
Harrison, Walter J., Boston, Mass. Box	696,813	Apr. 1	791	189	99	168
Harrison, Walter S., Bellefontaine, assignor of one-third to E. V. Moore, Sidney, Ohio. Envelop	714,179	Nov. 25	3363	740	101	1644
Harrison, William H., Braintree, Mass. Steam-engine indicator	692,657	Feb. 4	774	177	98	958
Harrison, William W., and J. Holt, assignors of one-third to C. E. Pervear, Pawtucket, R. I. Weft-motion for haircloth-loom	691,375	Jan. 21	1930	434	98	436
Harriss, Langdon, and W. H. Kendall, Waco, Tex. Combined touch-regulating and mute attachment for pianos	716,034	Dec. 16	2672	591	101	2426
Harrod, Orrian L., assignor to Medicated Poultry Perch Company, Belle Center, Ohio. Poultry-perch	704,963	July 15	3048	654	100	651
Harrold, Elmer, assignor of one-fourth to C. G. Wilderson, Leetonia, Ohio. Photographic timer	715,061	Dec. 2	793	168	101	1996
Harrop, John T., Garfield, N. J. Mold for cement or concrete curbs	706,410	Aug. 5	823	180	100	1280
Harrower, Henry D. (See Davis, Charles E., assignor.)						
Harseim, Robert G., et al. (See Gaynor, Timothy, Jr., assignor.)						
Harsh, Samuel E., Wabash, Ind. Rein-support	702,207	June 10	1669	375	99	2169
Harstick, William, Hanover, Ill. Replanting attachment for cultivators or plows	690,948	Jan. 14	1090	245	98	244
Harstone, John B., Winnipeg, Canada. Combined wagon and baby-walker	713,431	Nov. 11	1868	421	101	1297
Hart, Anthony M., Allegheny, Pa. Nut-lock	716,708	Dec. 23	4013	879	101	2721
Hart & Cooley Company, (See Hart, Howard S., assignor.)						
Hart, Edward, Easton, Pa. assignor to General Chemical Company, New York, N. Y. Making hydrochloric acid	698,704	Apr. 29	4393	969	99	996
Hart, Esther, Dunedin, New Zealand. Hat-fastener	691,024	Jan. 21	2376	535	98	528
Hart, Frank, assignor of two-thirds to F. J. and G. H. Bolinger, J. O. Sutherland, and J. C. Perkins, Newcastle, Pa. Nut-lock	706,400	Aug. 5	822	179	100	1280
Hart, George (See Cowper, Peter H., assignor.)						
Hart, Gerald W., West Hartford, assignor to Hart Manufacturing Company, Hartford, Conn. Electric switch	696,963	Apr. 8	1123	250	99	250
Hart, Harry S., assignor to Rodger Ballast Car Company, Chicago, Ill. Convertible dump-car	691,137	Jan. 14	1433	325	98	313
Hart, Harry S., assignor to Rodger Ballast Car Company, Chicago, Ill. Dumping-car	693,858	Feb. 25	3120	691	98	1505
Hart, Harry S., assignor to Rodger Ballast Car Company, Chicago, Ill. Gondola-car	699,949	May 13	1606	367	99	1530
Hart, Harry S., assignor to Rodger Ballast Car Company, Chicago, Ill. Metallic car	700,767	May 27	3255	745	99	1896
Hart and Hegeman Manufacturing Company. (See Guett, Monroe, assignor.)						
Hart, Henry, Quincy, Ill. Fare-register	695,550	Mar. 18	2273	513	98	2924
Hart, Henry, New York, N. Y. Plant pot or holder	702,821	Aug. 12	1592	358	100	1459
Hart, Herbert H., Chicago, Ill. Tie-plate	696,964	Apr. 8	1124	250	99	259
Hart, Howard S., assignor to Hart & Cooley Company, New Britain, Conn. Register, ventilator, or the like	701,481	June 3	368	81, 82	99	2184
Hart, Howard S., assignor to Hart & Cooley Company, New Britain, Conn. Register, ventilator, or the like	703,409	July 1	82	16	100	19
Hart, Hubert C., Unionville, Conn. Knife and making same	699,530	May 6	735	171	99	1327
Hart, John A., Blackburn, England. Ventilating apparatus	691,312	Jan. 14	1777	440	98	385
Hart, John H., Memphis, Tenn. Buckle	694,379	Mar. 4	80	18	98	1728
Hart, John M. (See Clark and Wheeler, assignors.)						
Hart Manufacturing Company. (See Hart, Gerald W., assignor.)						
Hart, Milton H., Brooklyn, N. Y. Cellar-pipe for extinguishing fires	691,858	Jan. 28	2834	637	98	641
Hart, Milton H., Brooklyn, N. Y. Fire-extinguishing apparatus	691,859	Jan. 28	2836	637	98	642
Hart, Napoleon, et al. (See Green, Thomas R., assignor.)						
Hart, Orlando W., assignor to Union Stop and Signal Company, Fall River, Mass. Electric-railway signaling	695,456	Mar. 18	2094	472	98	2188
Hart, Patrick J., Mendota, Ill. Tobacco stemming and booking machine	711,963	Oct. 28	3051	670	101	684
Hart, Stacy B., Peoria, Ill. Grain-elevator for separators	702,053	June 10	1419	318	99	2413
Hart, Thomas J., assignor to Sherwood Manufacturing Company, Buffalo, N. Y. Flue-cleaner	705,753	July 29	4715	1020	100	1013
Hart, Walter V., Hobart, Ind. Clamping device for fruit-jar lids	698,492	Apr. 29	3920	867	99	893
Hart, William D., Bloomfield, assignor of one-half to E. M. Macdonald, Glenridge, N. J. Valve for pneumatic tires	694,638	Mar. 4	578	127	98	1835
Hart, William H., Jr., Philadelphia, Pa. Neckwear fastener and shield	694,272	Feb. 25	3919	870	98	1604
Hart, William H., Jr., Philadelphia, Pa. Necktie-fastener	696,905	Apr. 8	1125	250	99	259
Hart, William H., Jr., Philadelphia, Pa. Neckwear-holder	713,565	Nov. 11	2146	480	101	1353
Hartel, Lewis. (See Jacoby, Josiah, assignor.)						
Hartell, Etta M., Brooklyn, N. Y. Garden implement	705,233	July 22	3633	787	100	786
Harter, Elam, assignor of one-half to V. O. Harter, Arlington Station, Cal. Fruit-picking sack	691,376	Jan. 21	1931	434	98	436
Harter, Virgil O. (See Harter, Elam, assignor.)						
Hartford Accumulator Company. (See Cogswell, Henry J., assignor.)						
Hartford, Edward V. (See Truffault, Jules M. M., assignor.)						
Hartford, Isaac J., Bloomington, Ill. Human-treatment apparatus	712,375	Oct. 28	3781	827	101	831
Hartford Motor Machine Company. (See Collins, John T., assignor.)						
Hartford, William F., Cassville, Wis. Hot-air heater	711,853	Oct. 21	2804	621	101	616
Hartgrove, H. H. (See O'Neal, Isaac N., assignor.)						
Harthan, Charles E., Lynn, Mass., assignor to General Electric Company. Electric-arc lamp	697,482	Apr. 15	2061	455	99	473
Harthan, Charles E., Lynn, Mass., assignor to General Electric Company. Electric-arc lamp	710,055	Sept. 30	3991	900	100	2862
Hartig, John. (See Leas, William G., assignor.)						
Harting, Carl A. H., assignor to Voigtlaender & Sohn, Aktien Gesellschaft, Brunswick, Germany. Lens	716,035	Dec. 16	2676	591	101	2427
Hartley, Arthur J. (See Hartley, Charles J. and A. J.)						
Hartley, Charles J. and A. J., Decatur, Ill. Weighing-machine	701,722	June 3	800	177	99	2275

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Hartley, Charles P., Washington, D. C. Combined pocket rule, square, compasses, and comb.	708,855	Sept. 2	650	147	100	2113
Hartley, Fred, <i>et al.</i> (See Beler, Adolf, assignor.)						
Hartley, Frederic, <i>et al.</i> (See Beler, Adolf, assignor.)						
Hartley, Henry (See Palmer and Hartley.)						
Hartley, Leonard H., T. H. Namack, and J. Newhall, Lowell, Mass. Pile-wire motion for looms.	698,279	Apr. 22	3550	782	99	801
Hartley, Wilfred, Utica, E. D. Rivers and E. Beach, assignors to Remington Arms Company, Ilion, N. Y. Firearm.	705,234	July 22	3635	787	100	786
Hartley, William G., Lowell, Mass. Loom for weaving velvets.	703,580	July 1	365	84	100	72
Hartline, William H., Tamaqua, Pa. Signal.	700,041	May 13	1768	409	99	1552
Hartman, George W., Kansas City, Kans. Box-lid and tag-support.	699,682	May 13	1071	250	99	1408
Hartman, Jacob, Cleveland, Ohio, assignor of one-half to E. M. Rothman, Detroit, Mich. Water-heater.	716,414	Dec. 23	3436	750	101	2598
Hartman, John H., Advance, N. C. Bed-brace.	700,917	May 27	3530	810	99	1951
Hartman, John M., Philadelphia, Pa. Mold-coating for apparatus for casting pig metal.	709,672	Sept. 23	8321	722	100	2692
Hartman, John R., Davenport, Iowa. Washing-machine.	696,562	Apr. 1	305	72	99	69
Hartman, Joseph E., Cleveland, Ohio. Automatic measuring-tank.	716,539	Dec. 23	3700	806	101	2654
Hartman, Peter H., <i>et al.</i> (See Humphrey, Edwin H., assignor.)						
Hartmann & Braun, Actiengesellschaft. (See Brugger, Theodor, assignor.)						
Hartmann, Christoph, assignor to Farbwerke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Blue anthraquinone dye and making same.	704,798	July 15	2668		100	371
Hartmann, Georg. (See Eidel and Hartmann.)						
Hartmann, Gustav, Munich, Germany. Producing peat briquets.	714,578	Nov. 25	4094		101	1790
Hartmann, Oscar, assignor to F. Krupp, Essen, Germany. Time-fuse.	700,643	May 20	2967	681	99	1819
Hartness, James, Springfield, Vt. Fluid-regulating device.	696,634	Apr. 1	434	101	99	94
Hartness, James, Springfield, Vt. Fluid-regulating device.	700,644	May 20	2968	682	99	1819
Hartness, James, Springfield, Vt. Fluid-regulating device.	700,645	May 20	2970	682	99	1820
Hartness, James, Springfield, Vt. Fluid-operating device.	700,646	May 20	2972	682	99	1820
Hartness, James, Springfield, Vt. Power-transmission mechanism.	700,647	May 20	2972	683	99	1820
Hartness, James, Springfield, Vt. Fluid-regulating device.	703,410	July 1	83	16	100	19
Hartness, James, Springfield, Vt. Back gearing for lathes.	703,411	July 1	85	17	100	20
Hartog, Stephen D., assignor of two-thirds to E. W. Moon and J. M. Novy, St. Louis, Mo. Stencil-cutting machine.	690,921	May 13	1547	356	99	1508
Harton, Francis X. J., Philadelphia, Pa. Score-card.	711,854	Oct. 21	2806	621	101	616
Hartshorn, Arthur S., Heyfield, Victoria, Australia. Adjustable clump-scale.	711,309	Oct. 14	1766	383	101	382
Hartshorn, Edmund F., Newark, N. J., assignor to Stewart Hartshorn Company. Awning.	698,010	Feb. 11	1457	317	98	1125
Hartshorn, Elgin C., Denver, Colo. Folding sofa-bed.	700,042	May 13	1769	409	99	1552
Hartson, George W. (See Lee and Hartson.)						
Hartt, Henry, Chicago, Ill. Bed-motion for printing-presses.	711,625	Oct. 21	2360	517	101	520
Hartwig, Adolph, Mansfield, Ohio. Automatic safety-valve for water-gages.	712,376	Oct. 28	3782	828	101	831
Hartwig, William G. (See Butcher and Hartwig.)						
Harty, J. H. (See Edwards, Richard N., assignor.)						
Hartzell, Albert P., Hudson, S. D. Apparatus for loading cars, wagons, &c.	697,716	Apr. 15	2487	555	99	558
Hartzler, Samuel P. (See Longenecker and Hartzler.)						
Harvester King Company. (See Appleby, John F., assignor.)						
Harvey, Alice A., Binghamton, N. Y. Corset-steel.	700,918	May 27	3532	810	99	1952
Harvey Burner and Furnace Company. (See Auman, Harvey E., assignor.)						
Harvey, George L., Evanston, assignor to Acme Gas Company, Chicago, Ill. Carbureter.	716,227	Dec. 16	3069	670	101	2509
Harvey, George K., Pittsburg, Pa. Means for reducing condensation of steam in cylinders.	696,635	Apr. 1	437	101	99	94
Harvey, George K., Hamilton, Canada, and E. A. Werner, Birmingham, Ala. Press for baling cotton or analogous materials.	696,432	Apr. 1	68	16, 17	99	18
Harvey, George W. (See Brewer and Harvey.)						
Harvey, Isaac, assignor to C. E. Colwell, J. E. Mulroney, deceased, (A. M. and J. R. Mulroney, executors), and F. J. Blake, Fort Dodge, Iowa. Dipping-tank for shingles.	694,059	Feb. 25	3534	779	98	1587
Harvey, Minor, Philadelphia, Pa., assignor to Morse, Williams and Company. Electrically-driven rolling-mill.	699,950	May 13	1608	368	99	1520
Harvey, William, New York, N. Y. Illuminator.	702,649	June 17	2465	572	99	2659
Harvey, William H., Westminster, England. Prism-telescope.	715,793	Dec. 16	2185	489	101	2321
Harvey, William L. (See Tweedale and Harvey.)						
Harvie, William C. (See Potter and Harvie.)						
Harville, Walter S., Montague, Tex. Wheel-rim.	701,036	May 27	3759	862	99	2001
Harwood, Frank C., G. E. Gedge, and P. T. J. Monson, assignors to A. C. Evans Manufacturing Company, Springfield, Ohio. Corn-planter.	695,391	Mar. 11	1982	445	98	2146
Haseley, George J., Indianapolis, Ind. Portable sample-rack.	713,636	Nov. 18	2283	508	101	1397
Hasezahl, John L. (See King, Adam, assignor.)						
Hashfield, Morris, London, England. Fur and glove sewing machine.	697,339	Apr. 8	1771	396	99	396
Haskell, Broderick, Saginaw, Mich. Car-truck.	704,188	July 8	1549	333	100	325
Haskell, Broderick, Saginaw, Mich. Brake-beam.	707,105	Aug. 19	2117	473	100	1583
Haskell, Charles S. (See Haskell, William E. and C. S.)						
Haskell, Frank H., Boston, Mass. Pressure-gage.	697,623	Apr. 15	2316	518	99	523
Haskell, Henry L., Ludington, Mich. Dice-cup.	709,633	Sept. 23	3165	706	100	2678
Haskell, Henry L., Ludington, Mich. Game-board.	709,634	Sept. 23	3166	706	100	2678
Haskell, Henry L., Ludington, Mich. Game-board.	709,635	Sept. 23	3168	707	100	2678
Haskell, Henry L., Ludington, Mich. Game-board.	715,794	Dec. 16	2187	489	101	2321
Haskell, Henry L., Ludington, Mich. Game-board.	715,796	Dec. 16	2189	490	101	2321
Haskell, Henry L., assignor to Ludington Novelty Company, Ludington, Mich. Game-piece.						
Haskell, Olcott, San Rafael, Cal. Holder for table-tennis sets.	715,795	Dec. 16	2188	489	101	2321
Haskell, William E. and C. S., Philadelphia, Pa. Organ.	713,762	Nov. 18	2517	560	101	1448
Haskins, Caryl D., Schenectady, N. Y., assignor to General Electric Company. Electric switch.	708,765	Sept. 9	1391	318	100	2277
Haskins, Caryl D., Schenectady, N. Y., assignor to General Electric Company. Electric meter.	695,150	Mar. 11	1566	347	98	2060
Haskins, Caryl D., Schenectady, N. Y., assignor to General Electric Company. Electric meter.	701,338	June 3	109	22	99	2132
Haskins, Caryl D., Schenectady, N. Y., assignor to General Electric Company. Automatic circuit-breaker.	706,555	Aug. 12	1086	240	100	1350
Haskins, Caryl D., Schenectady, N. Y., assignor to General Electric Company. Automatic circuit-breaker.	710,056	Sept. 30	3394	901	100	2863



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Haskins, Caryl D., Schenectady, N. Y., assignor to General Electric Company. Anti-creeping device for electric meters	712,063	Oct. 28	3245	710	101	721
Haskins, Albert O., Rutherford, N. J. Sectional heating-boiler	707,229	Aug. 19	2350	527	100	1034
Haskins, James H., assignor of one-half to McCormick Harvesting Machine Company, Chicago, Ill. Feed mechanism for blank-treading machines	708,140	Sept. 2	264	63, 64	100	2036
Haskins, Naman. (See Glover and Haskins.)						
Haskins, Robert B., Cincinnati, Ohio. Apparatus for the manufacture of molders' chaplets	709,541	Sept. 23	3011	671	100	2647
Haskins, Seth F., Peoria, Ill. Ticket-dater	692,285	Feb. 4	123	29	98	824
Hadam, William H., Bolton, England. Domestic fireplace or hearth	696,040	Mar. 25	3184	719	98	2425
Hadlett, Charles A. (See Shiley, William F., assignor.)						
Hastelmeier, Joseph, Pittsburg, Pa. Rack-mount	711,764	Oct. 21	2638	580	101	580
Hasselius, Peter, Chicago, Ill. Potato-digger	703,727	July 1	653	145	100	131
Hassett, Frank C., Kelso, Wash. Horn-stand	706,176	Aug. 5	340	73	100	1186
Hassinger, William H. (See Rader, Charles I., assignor.)						
Hassler, Robert H., Indianapolis, Ind., assignor to National Battery Company, Jersey City, N. J., and Cleveland, Ohio. Secondary battery	696,171	Mar. 25	3466	776	98	2484
Hassum, Nils O., Jersey City, N. J. Hair-pin	703,412	July 1	88	18	100	20
Hastings, Clarence B. (See Hastings, John R. and C. B.)						
Hastings, Fred J. (See Gardner, George B., assignor.)						
Hastings, Herbert. (See Smyth and Hastings.)						
Hastings, James U., et al. (See McWhorter, Milton, assignor.)						
Hastings, John R. and C. B. Lampasas, Tex. Saddle	709,904	Sept. 30	3707	835	100	2802
Hastings and Miller. (See Hastings, Theodore K., assignor.)						
Hastings, Moses A. (See Hilliard, Harry D., assignor.)						
Hastings, Samuel M., trustee. (See Hughes, Will J., assignor.)						
Hastings, Seth F., Wellington, assignor to G. D. Henderson, Cleveland, Ohio. Grinding device	704,324	July 8	1780	389	100	374
Hastings, Theodore K., Brooklyn, assignor to Hastings and Miller, New York, N. Y. Pass-partout	691,544	Jan. 21	2219	490	98	497
Hastings, William A., San Francisco, and N. J. Harrington, Oakland, assignors to Geo. W. Caswell Company, San Francisco, Cal. Apparatus for cleaning coffee-berries	709,327	May 20	2386	545	99	1697
Hasty, Joseph P., Superior, Neb. Switch-actuating mechanism	699,167	May 6	11	19	99	1190
Hatch, Albert T., South Elgin, Ill. Table-server	705,237	July 22	3640	788	100	787
Hatch, Alexander P., Bridgeport, Conn. Plural whistle	696,814	Apr. 1	792	180	99	168
Hatch, Axel F. (See Koenig, William A., assignor.)						
Hatch, Edward P., et al. (See Powell, Myron H., assignor.)						
Hatch, Edward P., Lagrange, assignor, by mesne assignments, to himself, Union Special Sewing Machine Company, Chicago, Ill., and M. H. Powell, Muskegon, Mich. Machine for inserting tape into edging	707,061	Aug. 12	2023	452	100	1547
Hatch, James N., Streator, Ill. Coupling for bicycle-pumps	695,551	Mar. 18	2280	515	98	2225
Hatch, Tracy B., assignor to Submerged Electric Motor Company, Menomonee, Wis. Electric motor	694,630	Mar. 4	579	127	98	1835
Hatch, Tracy B., assignor to Submerged Electric Motor Company, Menomonee, Wis. Electrical machine	705,238	July 22	3642	788	100	787
Hatcher, William A. (See Packard and Hatcher.)						
Hatcher, William A., and J. W. Packard, Warren, Ohio; said Hatcher assignor to said Packard. Oiling device for motor-vehicles	700,768	May 27	3260	746	99	1808
Hatcher, William A., and J. W. Packard, assignors to Ohio Automobile Company, Warren, Ohio. Controlling device for motor-vehicles	712,928	Nov. 4	872	747	101	1075
Hatfield, Benjamin F., Dublin, Ind. See Cleaner and grain-separator	709,766	Sept. 23	3417	768	100	2729
Hatfield, James H., et al. (See Brigham, Edward M., assignor.)						
Hatfield, Joseph M., Corning, Ohio. Torpedo-shell protector	710,323	Sept. 30	4500	1014	100	5971
Hatfield, William H., Wade, Ill. Hoisting and transporting device	709,905	Sept. 30	3708	836	100	2802
Hatfill, Andrew T., and G. B. Lee, Decorah, Idaho. Door-lock attachment	705,236	July 22	3639	788	100	787
Hathaway, Andrew E. (See Cumif, John V. and E., assignors.)						
Hathaway, Harlow D. (See Hayden and Hathaway.)						
Hathaway, James F., Somerville, Mass. Vehicle	702,059	June 10	1421	319	99	2418
Hathaway, Oliver H., Central Falls, and W. H. Spencer, Providence, R. I. Covered roller for cotton-machines	701,266	May 27	4169	957	99	2084
Hathaway, William A. (See Rathbun, John O., assignor.)						
Hathorn, Henry W., Mason City, Iowa. Pipe or tube sawing machine	700,118	May 13	1895	441	99	1577
Hatton, George F., St. Leonards-on-Sea, England. Kinematographic apparatus	713,876	Nov. 18	2722	608	101	1489
Hatton, John M., Des Moines, Iowa. Garbage-can	703,257	June 24	3649	830	99	2910
Hatton, Joseph E., Santo Domingo, Santo Domingo. Apparatus for defecating liquids	705,924	July 29	5011	1091	100	1074
Hatz, Florian J., et al. (See Yancey, Christopher C., assignor.)						
Hau, August H., St. Cloud, Wis. Windmill	690,950	Jan. 14	1093	247	98	244
Hauberg, Sophus C., Copenhagen, Denmark. Liquid-separator	705,693	July 29	4553	988	100	982
Haug, Andrew, assignor to A. R. Clary, San Francisco, Cal. Separable fastener	710,863	Oct. 7	889	193	101	180
Haug, John, Philadelphia, Pa. Cutoff valve mechanism	697,899	Apr. 15	2703	600	99	606
Haughton, Thomas W. (See Lishman, Haughton, and Kirkpatrick.)						
Haulbrook, Robert W., Maysville, Ga. Cultivator plow attachment	703,656	July 1	514	115	100	101
Hausdorf, Robert, assignor to Actien Gesellschaft fur Anilin Fabrikation, Berlin, Germany. Photographic roll-film	700,684	May 20	3041	695	99	1835
Hausser, Theodore, assignor to Garvy Company, Chicago, Ill. Convertible lounge	716,434	Dec. 23	3890	840	101	2696
Hausermann, Theodore, Vienna, Austria-Hungary. Metal ornamentation	712,789	Nov. 4	607	140	101	1023
Hausfeld, Joseph E. (See Carier and Hausfeld.)						
Hausfeld, Joseph E., Cincinnati, Ohio, and J. R. Carter, Augusta, Ky., assignors to E. H. Huenefeld, Cincinnati, Ohio. Washing-machine	695,532	Mar. 18	2280	515	98	2225
Hauss, Albert F., assignor of one-half to C. F. Hauss, Baltimore, Md. Electric signaling apparatus	711,893	Oct. 21	2681	637	101	632
Hauss, Augustus P., New Albany, Ind. Receiving and delivering apparatus for mail-bags	707,412	Aug. 19	2691	608	100	1704
Hauss, Charles F. (See Hauss, Albert F., assignor.)						
Hausmann, Albert, Pond du Lac, Wis. Toilet brush	715,263	Dec. 9	1168	250	101	2093
Hausmann, Paul, Burg, near Magdeburg, Germany. Pulsometer	703,788	July 1	769	168	100	154
Haut, Jacob. (See Haut, Mayer and J.)						
Haut, Mayer and J., New York, N. Y. Combination furniture	696,236	Mar. 25	3583	802	98	2506
Hauxhurst, Harry I., Oakland, Cal. Telephone attachment	690,651	Jan. 7	547	119	98	117
Havell, George, assignor to Havell Manufacturing Company, Newark, N. J. Tweezers with shank all in one piece	690,385	May 6	484	113	99	1274
Havell, George, assignor to Havell Manufacturing Company, Newark, N. J. Pocket-book frame	713,877	Nov. 13	2726	606	101	1491
Havell Manufacturing Company. (See Havell, George, assignor.)						
Havens, Arthur W., Richmond, Va. Coin-controlled apparatus	703,062	June 24	3286	756	99	2838

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Javens, Joseph D. (See Irving, Junius B., assignor.)						
Javens, Joseph G., Trenton, N. J. Tobacco-stemming rolls.	694,962	Mar. 11	1207	264	98	1984
Javens, Joseph G., Trenton, N. J. Tobacco-stemming rolls.	696,966	Apr. 8	1126	250	99	259
Javens, Joseph G., Trenton, N. J. Tobacco-stemming rolls.	696,967	Apr. 8	1128	251	99	259
Javerfield, Joseph L. (See Paris, Steelman, and Javerfield.)						
Javerly, David M., and E. G. Solomon, Omaha, Neb. Adjustable seat.	714,370	Nov. 25	3721	819	101	1716
Haviland, James F., Paterson, N. J. Shovel.	702,497	June 10	1478	333	99	2430
Havill, Harry, Los Angeles, Cal. Weeding implement.	700,685	May 20	3-41	695	99	1836
Hawes, Benjamin N., Washington, D. C. Gas-heated iron.	699,683	May 13	1073	251	99	1169
Hawes, Benjamin N., Washington, D. C. Hydrocarbon-burner.	711,855	Oct. 21	2807	622	101	616
Hawes, William W. (See Unser, John, assignor.)						
Hawk, Francis M., Muncie, Ind. Wheel.	693,011	Feb. 11	1459	317	98	1125
Hawk, George O., Greenfield, Ind. Cartridge.	695,809	Mar. 18	9747	626	98	2320
Haw, Nathaniel H., Desota, Tex. Rotary fan.	712,790	Nov. 4	698	140	101	1-23
Hawkes, Albert K., Atlanta, Ga. Eyeglasses.	708,141	Sept. 2	2-68	64	100	2687
Hawkes, John F., assignor of one-half to S. Blatt, Jersey City, N. J. Shoe-fastener.	707,694	Aug. 26	3262	729	100	1830
Hawkes, William H. (See Barker, John C., assignor.)						
Hawkins, Amasa F., Jr., Ashton, S. D. Book and study table.	711,048	Oct. 14	1247	272	101	273
Hawkins, Augustus L., assignor of one-half to J. M. Page, Georgetown, Tex. Harness.	703,789	July 1	1088	100	100	154
Hawkins, Cyrus H., Brooklyn, N. Y. Rotary engine.	710,577	Oct. 7	342	74	101	69
Hawkins, Frank F., Troy, N. Y. Dental bur.	708,063	June 24	3288	757	99	2-38
Hawkins, Frank S., Boston, Mass. Clutch.	712,183	Oct. 28	3372	739	101	746
Hawkins, Gardner C., assignor to Boston Radiator Company, Boston, Mass. Radiator.	716,228	Dec. 16	3074	671	101	2510
Hawkins, Gardner C., Boston, and H. L. Flint, Cambridge, Mass., assignors to Boston Electric Heating and Power Company, Portland, Me., and Boston, Mass. Electric fan.	707,842	Aug. 26	3600	813	100	1994
Hawkins, George H., Vicksburg, Miss. Saw-handle.	695,399	Mar. 11	1988	445	98	2147
Hawkins, John W., Munfordville, Ky. Animal-trap.	698,012	Feb. 11	1460	317	98	1126
Hawkins, William H., Springfield, Mass. Stub-holder for check-books.	697,483	Apr. 15	2062	455	99	473
Hawkinson, Charles H., Chicago, Ill. Combined burglar-alarm and door-check.	694,330	Mar. 4	81	19	98	1738
Hawks, Horatio C., Newton, Mass. Reflector.	716,401	Dec. 30	4471	939	101	2-44
Hawks, Moses L., New York, N. Y. Can-opener.	706,823	Aug. 12	1595	359	100	1460
Hawks, William, assignor to Chicago Solar Light Company, Chicago, Ill. Hydrocarbon-lamp.						
Hawley, Anna E., Manchester, Vt. Figure toy.	705,582	July 29	4394	953	100	590
Hawley, Benjamin, Philadelphia, Pa. Making pictures.	697,248	Apr. 8	1608	262	99	560
Hawley, Charles E., Berkeley, Cal. Extension for cutter-heads.	691,138	Jan. 14	1435	326	98	314
Hawley Down Draft Furnace Company. (See Schwartz, Edward H., assignor.)	694,060	Feb. 25	3535	779	98	1788
Hawley, Wm. G., et al. (See Weller, Herbert D., assignor.)						
Hawliczek, Josef L., Liverpool, England. Making acetone.	690,724	Jan. 7	708	156	98	1469
Haworth, Lyander L., Decatur, Ill. Bump-board for wagon-boxes.	706,382	Aug. 12	1504	358	100	110
Haworth, William H., New York, assignor to N. J. Bishoprick, Brooklyn, N. Y. Envelop.	702,945	June 24	3904	704	99	2732
Haws, Isaac, Hannibal, N. Y. Mold for forming concrete troughs or other articles.	710,391	Sept. 30	4618	1042	100	2965
Hawthorne, Thomas, London, Canada. Combined perforating, ring forming, and insert-ing machine.						
Hay, Edwin B., Washington, D. C. Paper receptacle.	708,636	Sept. 9	1134	257	100	2223
Hay, Frank L. (See Mabius and Hay.)	715,659	Dec. 9	1967	426	101	2192
Hay, James R. (See Carryl, Henry D., assignor.)						
Hay, Julia B., executrix. (See Hay, Robert.)						
Hay, Robert, deceased, Summit, N. J.; J. B. Hay, executrix. Bottle-neck.	706,556	Aug. 12	1987	241	100	1351
Hay, William G. (See Musker and Hay.)						
Hay, William J., Oshkosh, Wis. Skirt facing and binding.	704,033	July 8	1230	265	100	280
Haycox, Arthur J., Mansfield, Ohio. Electric signal.	706,583	July 29	4395	953	100	590
Haycraft, Josiah J., Montgomery, Ala. Exhaust-expander for steam-engines.	716,635	Dec. 23	3691	850	101	2967
Hayden, Austin B., Chicago, Ill., assignor to Computing Scale Company of America.						
Computing-scale.	700,919	May 27	3532	810	99	1952
Hayden, Austin B., Chicago, Ill., assignor to Computing Scale Company of America.						
Computing-scale.	700,920	May 27	3535	811	99	1953
Hayden-Corbett Chain Company. (See Bauermeister, William, assignor.)						
Hayden, Henry A., Jersey City, N. J. Mop.	711,482	June 3	369	82	99	2194
Hayden, Henry F., assignor of one-third to J. H. Jennings, Washington, D. C. Smoke-preventing furnace.	704,325	July 8	1782	389	100	374
Hayden, Henry F., assignor of one-third to J. H. Jennings, Washington, D. C. Smoke-preventing furnace.	704,326	July 8	1785	390	100	375
Hayden, Jefferson B., Abilene, Tex. Draft-equalizer.	709,092	Sept. 16	2886	478	100	2449
Hayden, John W. (See Schureman, Jacob L., Jr., assignor.)						
Hayes, Saml. F. H., and H. D. H. Haysay, Flint, Mich. Cross-bar for vehicle-shafts.	704,460	July 8	2045	443	100	450
Hayes, Samuel R., assignor of two-thirds to A. L. Clark and C. W. Lake, Kansas City, Mo. Inserting-machine for newspapers.	707,587	Aug. 26	3041	684	100	1763
Haydon, William H., assignor to W. H. Rice, Gallinas, Tex. Washing-machine.	713,763	Nov. 18	2518	560	101	1449
Hayes, Andrew, Buskirk Bridge, N. Y. Bolt.	691,765	Jan. 28	2663	597	98	607
Hayes, Archie O., and E. C. Hemphill, Los Angeles, Cal. Perforating attachment for printing-presses.	691,860	Jan. 28	2637	638	98	642
Hayes, Christopher, Brisbane, Co. South Wales, Australia. Oscillating propeller.	705,348	July 22	3900	844	100	838
Hayes, Edward, Wolverton, England. Construction of composite vessels.	703,413	July 1	89	18	100	20
Hayes, Eli B., Oshkosh, Wis. Sanding-machine.	714,899	Dec. 2	523	110	101	1930
Hayes, Eli B., Oshkosh, Wis. Sanding-machine.						
Hayes, Hector J. (See McLouth, Hayes, and Wissman.)						
Hayes, James F., Meriden, Conn. Glaze for cutters or tools.	715,377	Dec. 9	1381	297	101	2137
Hayes, John A., Philadelphia, Pa. Stopper for bottles.	694,013	Feb. 25	3443	760	98	1569
Hayes, Orville R., et al. (See Murphy, William M., assignor.)						
Hayes, Stanley W., Wellesley, Mass., and T. E. Lutz, Galion, Ohio. Derailing device.	693,544	Feb. 18	2515	554	98	1363
Hayes, Thomas F., New York, N. Y. Antislipping pad for horses' feet.	702,794	June 17	3673	635	99	2715
Hayes, Walter H., London, England. Velocipede or the like.	708,809	Sept. 9	1489	341	100	2288
Haynes, William H., Flushing, N. Y. Forming and pressing machine.	705,756	Jan. 29	4718	1021	100	1613
Hayman, Arthur F. P., Berlin, Germany. Stopper for inclined gas-retorts.	691,840	Jan. 28	2976	669	98	679
Hayne, William P. (See Zoder and Hayne.)						
Hayner, William B. (See Houston, Eli, assignor.)						
Hayner, William E., Springfield, Ohio. Cartridge.	702,208	June 10	1669	375	99	2469
Haynes, Charles M., assignor of one-half to A. Bradley, Toledo, Ohio. Car-brake.	711,508	Oct. 14	1581	389	101	343
Haynes, George E., Chelsea, assignor of one-half to W. McCarthy, Boston, Mass. Rail-way switch.	691,720	Jan. 21	2542	569	99	564
Haynes, Luther F., Lunenburg, assignor of one-half to H. E. and C. F. Cowdrey, Fitchburg, Mass. Flushing-tank for closets.	702,060	June 10	1422	320	99	2419



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Haynes, Silas B. A. (See Freeman, John W., assignor.)						
Haynes, Thomas, Jr., Radcliffe-upon-Trent, England. Malt-kiln	702,552	June 17	2297	523	99	2618
Hays, James T., and J. W. Wilson, Garland, Tex. Rotary steam-engine	705,079	July 22	2376	710	100	713
Hays, Samuel O., Triplett, Mo. Combined road grader and scraper	694,963	Mar. 11	1209	264	98	1985
Hayler, Gustave C. (See Kellogg, Albert A., assignor.)						
Hayward, Eugene, assignor of two-thirds to J. T. Lueder and J. B. Morris, Chicago, Ill. Means for propelling cars, &c.	691,625	Jan. 21	2376	535	98	528
Hayward, Eugene, assignor of two-thirds to J. T. Lueder and J. B. Morris, Chicago, Ill. Means for utilizing compressed air	706,653	Aug. 12	1266	279	100	1389
Hayward, Walter, Palmerston, Canada. Bag-holder	704,251	July 8	1644	357	100	344
Haywood, Daniel H., New York, N. Y. Vehicle-wheel	700,489	May 20	2705	619	99	1763
Haywood, Daniel H., New York, N. Y. Mechanical movement	712,528	Nov. 4	129	30	101	923
Haywood, Daniel H., New York, N. Y. Musical instrument	715,264	Dec. 9	1169	250	101	2093
Haywood, Daniel H., assignor to Wheel Within Wheel Company, New York, N. Y. Vehicle-wheel	700,686	May 20	3042	695	99	1836
Haywood, John W., Syracuse, N. Y. Dump-wagon	714,481	Nov. 25	3909	864	101	1752
Haywood, John W., Syracuse, N. Y. Dump-wagon	714,482	Nov. 25	3912	865	101	1753
Haywood, John W., Syracuse, N. Y. Dump-wagon	714,483	Nov. 25	3914	865	101	1753
Haywood, William A., Denver, Colo. Shade	690,725	Jan. 7	710	157	99	146
Hayworth, David M., Chicago, Ill. Can-opener	695,048	Mar. 11	1372	301	98	2019
Hazard, Charles B., Xenia, Ohio. Straw-stacker	703,414	July 1	90	19	100	21
Hazard, Clark D., (insane.) Cleveland, Ohio; C. A. Gibbs, guardian. Heating-furnace	711,566	Oct. 21	2252	1488 1489	101	498
Hazard, Henry T., et al. (See Dyer, Fayette, assignor.)						
Hazard, Henry T., Los Angeles, Cal. Suspenders	700,921	May 27	3537	811	99	1953
Hazard, Isaac, et al. (See Leach, William, assignor.)						
Hazard, Thomas H., Vancouver, Canada. Diving vessel	700,769	May 27	3261	747	99	1899
Hazen, Jacob, West Independence, Ohio. Gate	712,675	Nov. 4	394	92	101	979
Hazen, Robert H., Lula, Miss. Folding basket or bucket	702,650	June 17	2497	572	99	2660
Hazledine, John, Philadelphia, Pa. Apparatus for extinguishing fire in oil-tanks or the like	705,925	July 29	5013	1091 1092	100	1074
Hazlehurst, Edward, Chicago, Ill. Spinning-top	708,766	Sept. 9	1393	319	100	2278
Head, Albert, et al. (See Leach, William, assignor.)						
Head, Joseph H. R., South Shields, England. Construction and application of piston-valves	697,840	Apr. 15	2704	600	99	696
Head, Reuben M., Allegheny, Pa. Variable-speed driving mechanism	692,653	Feb. 4	777 1177 1178	98	99	696
Head, William S., and G. J. Dovey, Latrobe, Pa. Carbureter	704,064	July 8	1291	265	100	289
Headley, Frederick H., St. Austell, England. Electric switch	710,370	Sept. 30	4408	963	100	2351
Headley, Joseph W., Cooper, Ala. Wire-lightener	715,062	Dec. 2	793	169	101	1997
Headson, Frank A., Lafayette, Ind. Handcuff	691,941	Jan. 28	2976	669	98	670
Headson, Frank A., assignor of one-half to L. H. J., and M. Pottlitzer, Lafayette, Ind. Rotary engine	701,339	June 3	110	22, 23	99	2192
Heagy, William. (See Bush, Isaac, assignor.)						
Heal, Harry R., Camden, N. J. Counter	690,424	Jan. 7	71	16	98	18
Heal, John G., Detroit, Mich. Automobile air-pump	706,051	Aug. 5	96	20, 21	100	1136
Heal, William E., assignor of one-half to J. H. Forrest, Marion, Ind. Manufacture of window and plate glass	710,937	Sept. 30	4555	1028	100	2982
Heald, Edward L., Blue Island, assignor to Quaker Manufacturing Company, Chicago, Ill. Hot-air furnace	703,105	June 24	3546	815	99	2888
Healea, Joseph S., Craig, Nebr. Fork-scraper	716,229	Dec. 16	3076	671	101	2510
Healy, George W. (See Warren and Healy.)						
Healy, Theron L., Battletcreek, Mich. Condiment	701,037	May 27	3759		99	2001
Healy, William W. (See Stone and Healy.)						
Heany, John A., Philadelphia, Pa., assignor to Adams Top Cutting Machine Company, East Orange, N. J. Fabric-cutting machine	695,103	Mar. 11	1463	1325 1326	98	2088
Heany, John A., Philadelphia, Pa., assignor to Adams Top Cutting Machine Company, East Orange, N. J. Fabric-cutting machine	695,553	Mar. 18	2282	516	98	2225
Heany, John A., Philadelphia, Pa., assignor to Teter-Heany Developing Company, Philadelphia, Pa., and Charleston, W. Va. Electric-arc lamp	693,705	Feb. 18	2890	623	98	1426
Heany, John A., Philadelphia, Pa., assignor to Teter-Heany Developing Company, Philadelphia, Pa., and Charleston, W. Va. Insulated wire	703,106	June 24	3548	815	99	2889
Heany, John A., Philadelphia, Pa., assignor to Teter-Heany Developing Company, Philadelphia, Pa., and Charleston, W. Va. Manufacture of insulated wire	703,114	June 24	3549	816	99	2889
Heany, John A., Philadelphia, Pa., assignor to Teter-Heany Developing Company, Philadelphia, Pa., and Charleston, W. Va. Insulating metallic surfaces or wires	703,198	June 24	3552		99	2890
Heany, John A., Philadelphia, Pa., assignor to Teter-Heany Developing Company, Philadelphia, Pa., and Charleston, W. Va. Water, acid, and fire proof composition	703,199	June 24	3553		99	2890
Heany, John A., Philadelphia, Pa., assignor to Teter-Heany Developing Company, Philadelphia, Pa., and Charleston, W. Va. Preparing asbestos for use as an insulation for metallic surfaces	703,200	June 24	3554		99	2890
Heany, John A., Philadelphia, Pa., assignor to Teter-Heany Developing Company, Philadelphia, Pa., and Charleston, W. Va. Insulating metallic surfaces with asbestos	703,201	June 24	3555		99	2891
Heany, John A., Philadelphia, Pa., assignor to Teter-Heany Developing Company, Philadelphia, Pa., and Charleston, W. Va. Carbon-holder for electric-arc lamps	711,567	Oct. 21	2353	489	101	498
Heany, John A., Philadelphia, Pa., assignor to Teter-Heany Developing Company, Charleston, W. Va., and Philadelphia, Pa. Electric-arc lamp	693,706	Feb. 18	2892	624	98	1427
Heany, John A., Philadelphia, Pa., assignor to Teter-Heany Developing Company, Charleston, W. Va., and Philadelphia, Pa. Electric switch or cut-out	707,843	Aug. 26	3903	813	100	1905
Heany, John A., Philadelphia, Pa., assignor to Teter-Heany Developing Company, Charleston, W. Va., and Philadelphia, Pa. Electric-arc lamp	715,797	Dec. 16	2191	490	101	2322
Heany, John A., Philadelphia, Pa., assignor to Teter-Heany Developing Company, Charleston, W. Va., and Philadelphia, Pa. Insulating metallic surfaces or wires	715,798	Dec. 16	2192		101	2322
Heap, Charles. (See Shore, Charles, assignor.)						
Heaphy, Thomas M., London, England. Means for testing thermostats	706,177	Aug. 5	341	73, 74	100	1186
Heard, John, Strathroy, Canada. Bottle-stopper	700,043	May 13	1771	410	99	1553
Hearn, Charles, Port Elgin, Canada. Wind-stacker	715,003	Dec. 2	797	169	101	1997
Hearn, Robert H., Dyer, Tenn. Lock	693,642	Mar. 18	2458	558	98	2002
Heardon, James M., Nicco, Fla. Animal-trap	699,465	May 6	647	149	99	1990
Hearne, Joseph, Indianapolis, Ind. Vehicle shaft or pole coupling	714,371	Nov. 25	3723	819	101	1716
Heath, Clarence F., Providence, assignor of one-half to E. E. Dodge, Saylesville, R. I. Non-refillable bottle	693,601	Feb. 18	2640	582	98	1388
Heath, Clarence F., assignor to C. S. Orr and J. W. Bond, Providence, R. I. Electric timeswitch	703,128	June 24	3416	784	99	2864
Heath, Edward H., and E. E. Taylor, Cripple Creek, Colo. Blasting-fuse	713,878	Nov. 18	2728	609	101	1491
Heath, George S., Revere, Mass. Printing-press	712,064	Oct. 28	3246	710	101	721

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Heath, George W., Jacksonville, Ill. Carpet-raveling machine .....	715,378	Dec. 9	1384	298	101	2138
Heath, H. W., et al. (See Martenette, Frank L., assignor.)						
Heath, James S. (See Baseman and Heath.)						
Heath, James S., assignor to Bickford and Huffman Company, Macedon, N. Y. Adjustable bearing .....	717,192	Dec. 30	5080	1101	101	2074
Heath, James S., and E. Baseman, assignors to Bickford and Huffman Company, Macedon, N. Y. Seeding-machine .....	710,272	Sept. 30	4411	994	100	2952
Heath, James S., and E. Baseman, assignors to Bickford & Huffman Company, Macedon, N. Y. Furrow-opener for seeding-machines .....	711,626	Oct. 21	2362	518	101	521
Heath, James S. and L., and E. Baseman, assignors to Bickford and Huffman Company, Macedon, N. Y. Speed mechanism .....	710,271	Sept. 30	4409	994	100	2952
Heath, Lawrence. (See Heath and Baseman.)						
Heath, Lester E., assignor of one-half to S. C. Brown, Saratoga Springs, N. Y. Carbureter for explosive-engines .....	713,988	Nov. 18	2948	654	101	1537
Heathfield, Richard, London, England. Galvanizing-machine .....	707,322	Aug. 19	2528	569	100	1669
Heaton, John W., assignor of one-half to E. E. Holmes, Indianapolis, Ind. Wind-stacker .....	711,964	Oct. 28	3054	670	101	684
Heaton, Joseph. (See Renwick and Heaton.)						
Heberd, Charles E., Brooklyn, N. Y. Construction of metallic-frame buildings .....	708,548	Sept. 9	984	222	100	2192
Heberle, Josef W. B. T., Sala, Sweden. Apparatus for separating magnetic and non-magnetic materials from one another .....	709,982	Sept. 30	3868	871	100	2836
Hebert, Arsene, Manchester, N. H., assignor to H. B. Newton, Haverhill, Mass. Hand tacking-tool .....	696,968	Apr. 8	1129	251	99	260
Hebden, John C., Providence, R. I. Aging apparatus .....	694,640	Mar. 4	581	128	98	1835
Hebdon Machine and Cloth Finishing Company. (See Hebdon, William, assignor.)						
Hebdon, William, Brooklyn, assignor to Hebdon Machine and Cloth Finishing Company, New York, N. Y. Apparatus for steaming cloth .....	711,399	Oct. 11	1922	418	101	415
Hebert, Arsene, Manchester, N. H., assignor to H. B. Newton, Haverhill, Mass. Hand tacking-tool .....	695,554	Mar. 18	2284	517	98	2226
Hebert, Ismael, Manchester, N. H. Pillow-sham holder .....	695,555	Mar. 18	2290	517	98	2227
Hecht, Nathan I., Baltimore, Md. Buckle .....	714,579	Nov. 25	4095	906	101	1790
Heck, Gustav, assignor of one-half to R. Mardian, Detroit, Mich. Vehicle-axle .....	704,327	July 8	1787	390	100	375
Heckert, Wilford R., Graner, Ohio. Carriage .....	712,676	Nov. 4	395	88	101	980
Heckel, Wilhelm, Biebrich, Germany. Clarinet .....	706,657	Aug. 12	1089	241	100	1351
Heckendorn, Henry C., assignor to J. A. Bonsack, Philadelphia, Pa. Cigarette-machine .....	702,209	June 10	1670	376 377	99	2463
Heckert, John C., et al. (See Dela Mar, Joseph, assignor.)						
Heckert, William, Findlay, assignor of one-half to H. W. Seney, Toledo, Ohio. Combined gas and steam engine .....	708,637	Sept. 9	1147	259 260	100	2225
Heckman, Noah L. (See Smith and Coughlin, assignors.)						
Hedden, Hiram J., Whiteplains, assignor to A. B. Levy, New York, N. Y. Fluid-pressure brake system .....	705,239	July 22	3643	789	100	788
Heddon, James, Dowagiac, Mich. Fish-bait .....	696,438	Apr. 1	75	17	99	21
Hedge, Homer W. (See En Holm, Oscar A., assignor.)						
Hedge, Homer W. (See Schenck, Unico H. W., assignor.)						
Hedges, Edward G., Newark, N. J. Spring compression-cock .....	696,434	Apr. 1	76	18	99	21
Hedley, Edward M., Depew, N. Y. Pneumatic track-sander .....	708,757	July 29	4719	1021	100	1014
Hedley, Frank, Chicago, Ill. Track-cleaning device .....	693,859	Feb. 25	3122	692	98	1505
Hedlund, Johan, Stockholm, Sweden. Shaft-bearing for centrifugal pumps .....	715,064	Dec. 2	797	169	101	1997
Hedman, Carl M. (See Hoglund and Hedman.)						
Hedman, Erik G., Stockholm, Sweden. Automatic balance or scale .....	702,726	June 17	2636	607	99	2689
Hedrick, George M. (See Prince, Charles C., assignor.)						
Hedstrom, Carl O., Portland, Conn., assignor to G. M. Hendee, Springfield, Mass. Fuel or other reservoir for internal-combustion engines .....	707,922	Aug. 26	3753	841	100	1936
Hedstrom, Carl O., Portland, Conn., assignor to G. M. Hendee, Springfield, Mass. Chain-adjusting device for motor-vehicles .....	707,923	Aug. 26	3754	841 842	100	1936
Hedstrom, Carl O., Portland, Conn., assignor to G. M. Hendee, Springfield, Mass. Muffler for internal-combustion engines .....	712,791	Nov. 4	610	140	101	1024
Hedstrom, Carl O., Portland, Conn., assignor to G. M. Hendee, Springfield, Mass. Valve for internal-combustion engines .....	712,929	Nov. 4	874	204	101	1076
Heeter, Thomas E., St. Louis, Mo. Electric alarm-clock .....	711,568	Oct. 21	2254	489 490	101	499
Heffington, Calvin F. (See Reames and Heffington.)						
Heffley, William, Jackson Township, Lebanon county, assignor of one-half to H. R. Miller, Robeson, Pa. Gage and butt-cutter for cigars .....	706,936	Aug. 12	1799	402	100	1501
Hefner, Ernest W., et al. (See Deringer, Milo S., assignor.)						
Hefner, Franklin W., et al. (See Deringer, Milo S., assignor.)						
Hefner, Jesse A. L., et al. (See Deringer, Milo S., assignor.)						
Hegan, Edwin C., Louisville, Ky. Composite material .....	695,309	Mar. 11	1859	414	98	2119
Hege, Constantine A., Salem, N. C. Machine for cutting cross-ties .....	715,477	Dec. 9	1568	340 341	101	2174
Heggie, David, McKeesport, assignor to National Tube Company, Pittsburg, Pa. Coupling-holding rib .....	698,113	Apr. 22	3241	709	99	736
Hegglund, Mathias L., and W. W. Revell, Pierre, S. D. Thill-coupling .....	700,105	May 20	2105	482	99	1642
Heghinian, Garabed G., West Hoboken, N. J. Surveyor's rod .....	717,193	Dec. 30	5081	1102	101	2974
Hehr, John G., Pittsburg, Pa., assignor of two-thirds to E. J. Vilsack and J. J. O'Reilly. Bottle-washing machine .....	703,415	July 1	92	19, 20	100	21
Heick, Henry J. (See Albrecht, Gustav, assignor.)						
Heidacker, Henry. (See Hilliard and Heidacker.)						
Heideger, Frank J., West Bridgewater, Pa. Sand-blast machine .....	708,880	Sept. 9	1638	377	100	2329
Heiden, Axel, Allegheny, Pa. Car .....	693,132	Feb. 11	1706	373	98	1175
Heider, Henry J., Templeton, Iowa. Draft-equalizer .....	697,841	Apr. 15	2706	601	99	606
Heidinger, Louis C., Belleville, Ill. Game apparatus .....	696,735	Apr. 1	645	145	99	138
Heil, Albrecht, assignor to A. Wolf, Jr., & Co., Frankfort-on-the-Main, Germany. Thermoelectric pile .....	715,265	Dec. 9	1174	250	101	2095
Heil, Albrecht, assignor to A. Wolf, Jr., & Co., Frankfort-on-the-Main, Germany. Hot-air machine .....	716,036	Dec. 16	2677	592	101	2427
Heil, Franklin, Santa Ana, Cal. Air or steam operated pump .....	716,830	Dec. 23	4364	947	101	2805
Heiles, Rudolph F., Newark, N. J. Bookkeeping-book .....	713,984	Nov. 18	2949	654	101	1538
Heiliger, Fritz, Andernach, Germany. Thermophore .....	708,549	Sept. 9	986	223	100	2192
Heilmann, Rudolph, Brooklyn, N. Y. Fireproof covering for frame structures .....	695,732	Mar. 18	2579	598	98	2285
Heim, Lewis E., assignor to F. C. Olms and Danbury, Conn. Hat-curling machine .....	695,393	Mar. 11	1989	445	98	2147
Heimann, Albert. (See Hollweg, Carl, assignor.)						
Heimann, Julius, assignor to Heimann & Lichten, New York, N. Y. Hat or head-gear .....	701,723	June 3	803	177	99	2276



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Heimann & Lichten. (See Heimann, Julius, assignor.)						
Heimann, Morris A., St. Louis, Mo. Show-case.	696,041	Mar. 25	3185	719	98	2425
Heimbuecher, William C., Chicago, Ill. Game apparatus.	696,435	Apr. 1	78	18	99	21
Heinmendinger, William C., Louisville, Ky. Safety-knife.	712,792	Nov. 4	610	140	101	1024
Heineke, Martin, assignor to Sattley Manufacturing Company, Springfield, Ill. Straw-stacker.	691,265	Jan. 14	1666	379	98	368
Heineke, Martin, assignor to Sattley Manufacturing Company, Springfield, Ill. Raddle for straw-carriers.	705,528	July 22	4270	923	100	913
Heinemann, Heinrich, Zurich, Switzerland. Sofa, couch, &c.	716,892	Dec. 30	4471	969	101	2844
Heinemann, Solomon E., assignor to Merz Capsule Company, Detroit, Mich. Counting-machine.	707,062	Aug. 12	2026	453	100	1548
Heinemann, Adolf, Eberswalde, Germany. Extracting ellagic acid.	706,411	Aug. 5	826		100	1281
Heinemann, Theodore P., assignor of one-half to F. T. Roots, Connersville, Ind. Change-aligner.	696,496	Apr. 1	80	18	99	22
Heinicke, Hermann, Schoeneberg, near Berlin, Germany. Electric accumulator.	704,744	July 15	2566	558	100	531
Heinig, Frederick E., assignor of two-thirds to C. and A. T. Pope, Louisville, Ky. Sheet-metal-fastening cleat.	699,311	May 6	345	80	99	1244
Heinig, Frederick E., assignor of two-thirds to C. and A. T. Pope, Louisville, Ky. Apparatus for applying holding-cleats to barrels.	700,922	May 27	3538	811	99	1454
Heinig, Frederick E., assignor of two-thirds to C. and A. T. Pope, Louisville, Ky. Sheet-metal fastening-cleat.	701,367	May 27	4169	957	99	2084
Heinitz, Woldemar, Dresden, Germany. Cash-register.	695,151	Mar. 11	1567	347	98	2041
Heinold, Edward B., Anderson, Ind. Starching-machine.	700,196	May 20	2106	482	99	1642
Heinold, Edward B., Anderson, Ind. Starching-machine.	712,065	Oct. 28	3247	711	101	721
Heinrichs, Otto, Stuttgart, Germany. Churn.	699,521	May 6	737	172	99	1328
Heinitz, John C., and J. W. McCuen, assignors of one-third to R. H. Johns, Baltimore, Md. Street-lamp.	697,717	Apr. 15	2488	535	99	558
Heinsdorf, Ernst O. (See Coby and Heinsdorf.)						
Heinz, Clarence N., Pittsburg, assignor to H. J. Heinz Company, Allegheny, Pa. Utensil for display of goods.	698,943	Apr. 29	4859	1072	99	1098
Heinz Company, H. J. (See Heinz, Clarence N., assignor.)						
Heinz, Franz, Goodlinton, Kans. Tire-tightener.	700,490	May 20	2708	619	99	1764
Heinze, John S., Jr., Lowell, Mass. Magnetic wheel.	709,484	Sept. 23	2898	647	100	3024
Heinze, John O., Jr., Revere, Mass. Induction-coil.	709,485	Sept. 23	2901	648	100	2625
Heinzelman, Frederick and R., Belleville, Ill. Roller-bearing.	698,944	Apr. 29	4860	1073	99	1099
Heinzelman, Reginald. (See Heinzelman, Frederick and R.)						
Heiser, Johannes P., Denver, Colo. Suspenders.	697,916	Apr. 15	2838	628	99	634
Heiser, Heinrich, Chrost, Austria-Hungary. Paper-rolled cigar or cigarette holder.	713,580	Nov. 25	4096	906	101	1790
Heisenberger, John, New York, N. Y. Punching-machine.	704,590	July 1	1078	233	100	215
Heist, Leo G., Philadelphia, Pa., assignor of one-half to C. J. Wilson, New York, N. Y. Hydrocarbon-vapor burner.	702,553	June 17	2298	523	99	2619
Heizer, Frederick, assignor, by mesne assignments, to J. H. Heizer, Sioux City, Iowa. Elevator.	694,964	Mar. 11	1211	264	98	1985
Heizer, Jessie H. (See Heizer, Frederick, assignor.)						
Helbing, Emil, Hamburg, Germany. Producing artificial wood.	694,014	Feb. 25	3444		98	1569
Helbing, Emil, Wandsbeck-Hamburg, Germany. Manufacturing peat briquets.	700,421	May 20	2568		99	1734
Held, August S., assignor to Stover Manufacturing Company, Freeport, Ill. Spring-head.	694,273	Feb. 25	3320	871	98	1664
Held, August S., assignor to Stover Manufacturing Company, Freeport, Ill. Mop-head.	699,312	May 6	346	80	99	1244
Held, August S., assignor to Stover Manufacturing Company, Freeport, Ill. Mop-head.	699,313	May 6	347	81	99	1245
Held, August S., assignor to Stover Manufacturing Company, Freeport, Ill. Mop-head.	699,314	May 6	347	81	99	1245
Held, August S., assignor to Stover Manufacturing Company, Freeport, Ill. Mop-head.	699,315	May 6	348	81	99	1245
Helgeson, Henry W., Boma, Wis. Tobacco-baler.	715,065	Dec. 2	798	169	101	1997
Helin, Aaron, et al. (See Gabrielson, William, assignor.)						
Helios Electrical Construction Company. (See Schwartz, Alfred, assignor.)						
Helios Electricaets-Aktiengesellschaft. (See Schwartz, Alfred, assignor.)						
Helios-Upton Company. (See Morrison, William, assignor.)						
Hellen, Samuel H. (See Moran, Stephen W., assignor.)						
Hellenkamp, Albert B., Cleveland, Ohio. Drum-stand.	706,987	Aug. 12	1801	403	100	1502
Heller, Charles W., and E. A. Jones, Cass City, Mich. Folding crate.	709,542	Sept. 23	3013	671	100	2647
Heller, Harold W., et al. (See Heller, William A., assignor.)						
Heller, Jennie G., et al. (See Heller, William A., assignor.)						
Heller, William, Havana, Ill. Machine for finishing bottoms of trousers.	699,316	May 6	349	81, 82	99	1245
Heller, William A., assignor to J. G. and H. W. Heller, Muskegon, Mich. Trolley harp or wheel.	692,851	Feb. 11	1126	251	98	1055
Hellweg, Henry, Milwaukee, Wis. Metallic shoe-heel.	701,366	July 1	1861	84	100	72
Hellweg, John A., Milwaukee, Wis. Steam-turbine.	713,095	Nov. 11	1199	274	101	1160
Hellwig, Bernhard, Cincinnati, Ohio. Pop safety-valve.	708,039	Sept. 2	88	19	100	1998
Helm, James W., assignor to C. Wagner, Newark, Ohio. Angle-cock.	704,904	July 15	3049	655	100	651
Helm, John W. (See Hoffman and Helm.)						
Helmers, Ludwig O., assignor to Ichthyol-Gesellschaft Cordes, Hermann & Co., Hamburg, Germany. Separating sulfonic acids.	709,321	Sept. 16	2528		100	2533
Helmick, Lee, Pennsboro, W. Va. Stock-feeding device.	715,478	Dec. 9	1574	341	101	2175
Heltner, Ole M. (See Teper and Heltner.)						
Hemann, Bernard. (See Brauch and Hemann.)						
Hemingway, Joseph, Chicago, Ill., assignor of three-fourths to C. J. Rothermel, Springfield, Minn., and W. E. Rothermel, Chicago, Ill. Continuous process of coking coal.	705,926	July 29	5017	1092	100	1375
Hemleb, Martin. (See Diehl and Hemleb.)						
Hemleb, Martin, Elizabeth, N. J., assignor to Singer Manufacturing Company. Rotary take-up for sewing-machines.	705,240	July 22	3645	789	100	788
Hemming, Benjamin C., New Haven, Conn. Automatic glazing-machine.	702,008	June 10	1479	338	99	2430
Hemming, Robert B., Oakland, Cal. Fire-escape apparatus.	701,483	June 3	370	82, 83	99	2184
Hemp, Lewis W., St. Louis, Mo. Heating-stove.	709,673	Sept. 23	3233	723	100	2692
Hemp, Lewis W., St. Louis, Mo. Heating-stove.	709,674	Sept. 23	3234	723	100	2693
Hemphill, Edward C. (See Hayes and Hemphill.)						
Hemphill, Henry B., Stonefort, assignor of three-fourths to W. A. Gaunt, M. Doty, and G. A. Bartleson, New Grand Chain, Ill. Ventilating attachment for stovepipes.	712,377	Oct. 28	3786	828	101	882
Hemple, Menzo, assignor to W. R. Hemple, Bloomington, Wis. Wintering-case for bee-hives.	692,784	Feb. 4	1000	226	98	1001
Hemple, Walter E. (See Hemple, Menzo, assignor.)						
Hempy, George L., Brice, Ohio. Buckle-shield.	699,317	May 6	352	82	99	1246
Henry, Sarah A., St. Joseph, Mo. Oven.	704,328	July 8	1788	391	100	375
Hemsley, Alexander, Lansdowne, Pa. Flash-light apparatus.	699,522	May 6	738	172	99	1328

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Hammstrom, Edward, Greatfalls, Mont. Knife.....	691,861	Jan. 28	2838	638	98	643
Hendee, George M. (See Hedstrom, Carl O., assignor.)						
Hendee, George M. (See Warwick, George T., assignor.)						
Hendershot, Amos M., Graysville, assignor of two-thirds to W. H. Ernst and D. W. Stevenson, Marietta, Ohio. Tool for oil-wells or Artesian wells.....	700,328	May 20	2388	545	99	1697
Hendershott, Leroy J., Spokane, Wash. Hand-stamp.....	704,189	July 8	1550	534	100	325
Henderson, Albert E., Toronto, Canada. Thrust-bearing.....	705,839	July 29	4857	1054	100	1043
Henderson, Albert E., Toronto, Canada. Roller-bearing.....	708,475	Sept. 2	851	194	100	2154
Henderson, Albert E., assignor to Toronto Roller Bearing Company, Limited, Toronto, Canada. Roller-bearing.....	709,322	Sept. 16	2530	569	100	2533
Henderson, Albert E., assignor to Toronto Roller Bearing Company, Limited, Toronto, Canada. Roller-bearing.....	709,441	Sept. 16	2772	624	100	2584
Henderson, Charles S., Elkhart, Ind. Cellurian.....	710,454	Oct. 7	101	32	101	22
Henderson, Christopher, Montrose, Colo. Road grader, scraper, and weeder.....	700,923	May 27	3530	812	99	1954
Henderson, Eliot M., New York, N. Y. Inlaid tile floor.....	711,661	Oct. 21	2431	594	101	536
Henderson, Elmer O., and J. B. Thompson, Okoboji, Iowa. Stripper for wire insulation.....	714,109	Nov. 18	3188	701	101	1590
Henderson, George D. (See Hastings, Seth P., assignor.)						
Henderson, George M., Indianapolis, Ind. Dipping-tank.....	702,135	June 10	1336	347	99	2442
Henderson, George W. (See Zappelf, George, assignor.)						
Henderson, Gustav, Woodside, N. Y. Painter's tool.....	705,349	July 22	3902	844	100	838
Henderson, Henry T., assignor of one-half to R. B. Lourie, Keokuk, Iowa. Tire-setting machine.....	695,208	Mar. 11	1672	372	98	2082
Henderson, Herman L., Stephens Mills, N. Y. Clutch.....	697,206	Apr. 8	1544	346	99	348
Henderson, John C. (See Duncan, Charles B., assignor.)						
Henderson, Joseph W., Philadelphia, Pa. Horn for phonographs or graphophones.....	690,858	Jan. 7	930	208	98	196
Henderson, Oscar B. (See Dunn and Henderson.)						
Henderson, Thomas M. (See Freeman and Henderson.)						
Henderson, Thomas M., Portsmouth, Va., assignor of two-thirds to C. P. Storrs, Wilmington, Del., and R. R. Hicks, Norfolk, Va. Train-pipe coupling.....	709,401	Sept. 16	2696	695	100	2568
Henderson, William, Los Angeles, Cal. Hydrant.....	697,084	Apr. 8	1345	298	99	305
Henderson, William G., Titusville, assignor of one-half to E. P. Cole, Pittsburg, Pa. Shears.....	698,195	Apr. 22	3404	749	99	770
Hendler, John J., Kansas City, Mo. Acetylene-gas generator.....	690,425	Jan. 7	72	16	98	18
Hendrick, Fred W. (See Dods, Ella R., assignor.)						
Hendrick, Eli E., Carbondale, Pa. Bearing.....	706,938	Aug. 12	1804	403	100	1502
Hendrick, Eli E., Carbondale, Pa. Pump.....	711,965	Oct. 28	3056	671	101	685
Hendrick, Eli E., Carbondale, Pa. Pump.....	711,966	Oct. 28	3057	671	101	685
Hendricks, Adam C., Waynesboro, Pa. Sash-fastener.....	694,856	Mar. 4	990	221	98	1924
Hendricks, Alexander F., and C. A. Logwood, Warren, Okla. Ter. Cattle-muzzle.....	692,659	Feb. 4	779	178	98	958
Hendricks, Benjamin F., and E. Thompson, Quincy, Ill. Fire-escape.....	702,858	June 17	2885	667	99	2741
Hendricks, Clark, Riverside, Cal. Internal-combustion engine.....	714,180	Nov. 25	3364	740	101	1644
Hendricks, Ferdinand, and W. F. Kohl, Mason, Ohio. Whiffletree-coupling.....	697,340	Apr. 8	1772	397	99	397
Hendricks, Henry, Kinbrae, Minn. Draft-equalizer.....	696,333	Mar. 25	3800	447	98	2552
Hendricks, Simeon B., assignor to Emerson Manufacturing Company, Rockford, Ill. Horse hay-rake.....	699,318	May 6	353	83	99	1246
Hendrickson, Andrew, <i>et al.</i> (See Gabrielson, William, assignor.)						
Hendrickson, Isaac B., assignor to H. Vetter, Rochester, N. Y. Card-index system.....	715,799	Dec. 16	2193	490	101	2322
Hendryx, Andrew B., New Haven, Conn. Fishing-reel.....	705,758	July 29	4723	1022	100	1014
Hendy, John H., San Francisco, Cal. Automatic latch for dump-cars.....	713,302	Nov. 11	1647	370	101	1249
Henefeld, Henry J., and A. E. Adams, High Springs, Fla. Tire-heater.....	701,200	May 27	4044	929	99	2061
Henis, William G., and F. C. Jamison, Philadelphia, Pa. Cooking vessel.....	712,793	Nov. 4	611	141	101	1024
Henkel, Heinrich, Brussels, Belgium, assignor to F. Habrich, Hagen, Germany. System of construction with beton strengthened by metal.....	693,966	Feb. 25	3335	732	98	1547
Henley, Henry and H. H., Bloomington, Ind. Acetylene-gas generator.....	713,303	Nov. 11	1648	373	101	1250
Henley, Henry H. (See Henley, Henry and H. H.)						
Henn, Edwin C., Bloomfield, Conn., assignor, by mesne assignments, to National Acme Manufacturing Company, Cleveland, Ohio. Blank-slotting machine.....	694,965	Mar. 11	1214	265	98	1986
Henneberry, Ella T., and M. M. Gleeson, Deerlodge, Mont. Puttying-tool.....	708,709	Sept. 9	1283	293	100	2252
Hennebique, François, Paris, France. Ceiling structure composed of beton and iron.....	707,924	Aug. 26	3755	842	100	1937
Hennebique, Frank, South Chicago, Ill. Automatic duplex check and stop valve.....	693,133	Feb. 11	1708	373	98	1176
Hennegin, Herbert H., assignor to Buckeye Manufacturing Company, Anderson, Ind. Speed-regulator for gas-engines.....	696,903	Apr. 1	979	218	99	207
Hennegin, Herbert H., assignor to International Motor Company, St. Louis, Mo. Combined driving-gear and brake for motor-vehicles.....	708,356	Sept. 2	651	147	100	2113
Hennessey, John J., Milwaukee, Wis. Combined friction and direct-acting spring draft-rigging.....	702,426	June 17	2068	472	99	2570
Hennessey, John J., Milwaukee, Wis. Door-hanger.....	705,080	July 22	3278	711	100	713
Hennessey, John J., Milwaukee, Wis. Bracket for sliding doors.....	705,081	July 22	3280	711	100	713
Hennessey, John J., Milwaukee, Wis. Friction draft-rigging for railway-cars.....	705,550	Sept. 9	987	223	100	2192
Hennessey, John J., Milwaukee, Wis. Rocker side-bearing for railway-cars.....	715,577	Dec. 9	1767	391	101	2214
Hennessey, John J., Milwaukee, Wis. Friction draft-rigging for railway-cars.....	716,415	Dec. 23	3438	732	101	2599
Hennessey, John J., Milwaukee, Wis. Friction draft-rigging for railway-cars.....	716,416	Dec. 23	3441	750	101	2600
Hennessey, John J., and P. N. Moore, Milwaukee, Wis., assignors to said Hennessey and W. H. Miner, Chicago, Ill. Friction draft-rigging for railway-cars.....	700,422	May 20	2568	588	99	1734
Hennessey Foundry Company. (See Garrett and Pauly, assignors.)						
Hennessey, John J., New Kensington, Pa. Spinning-top.....	695,930	Mar. 25	2970	672	98	2381
Hennessey, Mary J., New Kensington, Pa. Waist-shaping means.....	694,641	Mar. 4	582	128	99	1875
Henninger, Hugo, Frankfurt-on-the-Main, Germany. Muffle-furnace for iron.....	704,824	July 15	2722	589	100	583
Henning, Abel, assignor of two-thirds to H. W. Douglas, Ann Arbor, Mich. Valve-grinding mechanism.....	693,967	Feb. 25	3336	733	98	1547
Henning, Gustavus C., New York, N. Y. Reversing turbine.....	713,637	Nov. 18	2285	590	101	1397
Henning, Henry F., Chicago, Ill. Box.....	713,216	Nov. 11	1425	322	101	1206
Henning, Thomas W., San Angelo, Tex. Ice-tray.....	693,319	May 6	354	83	99	1246
Henningson, Jacob J., New York, N. Y. Means for closing casks.....	704,329	July 8	1760	391	100	1010
Hennis, Julius C., Cleveland, Ohio. Burial-vault.....	699,068	Apr. 29	5089	1126	99	1146
Henrich, Julius, Philadelphia, Pa. Button-turning machine.....	711,723	Oct. 21	2549	560	101	561
Henrici, Maria L. (See Henrici, William A. E., assignor.)						
Henrici, William A. E., Berlin, Germany, assignor to M. L. Henrici, Westminster, England. Rotary engine.....	710,973	Oct. 14	1081	239	101	236
Henricks, Garrett W., assignor to Henricks Novelty Company, Indianapolis, Ind. Safety speed-limiting means.....	700,491	May 20	2709	620	99	1761



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Henricks Novelty Company. (See Henricks, Garrett W., assignor.)						
Henricjean, Henri, and A. Fatsion, Brussels, Belgium. Manufacture of spherical maps.	701,340	June 3	114	24	99	2132
Henrikson, Bernhard, Austin, Ill. Track-sanding device for locomotives.	700,924	May 27	3541	812	99	1934
Henriot, Charles E., Neuilly-sur-Seine, France. Internal-combustion engine or motor.	717,000	Dec. 30	4693	1018	101	2890
Henriot, Louise C., Reims, France. Photographic plate for reproducing ink impressions.	702,554	June 17	2300		99	2619
Henry, Albert, Nebraska City, Nebr. Fence-post	704,035	July 8	1232	266	100	260
Henry, Alfred W., St. Louis, Mo. Truss-rod beam	706,654	Aug. 12	1267	280	100	1389
Henry, Curtis B., Akron, Ohio, assignor of one-half to G. H. Ellis and A. E. Baker. Checkrein.	704,636	July 15	2364	514	100	509
Henry, Edward G., Powellville, assignor of one-half to B. J. Merrill, Carrollton, Ga. Combined seed-planter and fertilizer spreader.	709,575	Sept. 23	3068	683	100	2658
Henry, George W., Oil City, Pa. Cultivator	692,660	Feb. 4	781	178	98	959
Henry, Harvey J., Massillon, Ohio. Gas-burner for stoves	696,815	Apr. 1	793	181	99	168
Henry, Innes. (See Eyler, Frank A., assignor.)						
Henry, J. H. (See Skinner, John J., assignor.)						
Henry, John C., deceased, Denver, Colo.; S. A. Henry, executrix, assignor to Stanley Electric Manufacturing Company. Controller for electric railways or vehicles	696,237	Mar. 25	3585	803	98	2506
Henry, John C., deceased, Denver, Colo.; S. A. Henry, executrix, assignor to Stanley Electric Manufacturing Company. Electric controller	699,951	May 13	1610	1369	99	1521
Henry, John C., deceased, Denver, Colo.; S. A. Henry, executrix, assignor to Stanley Electric Manufacturing Company. Electric controller	702,427	June 17	2071	472	99	2571
Henry, John C., deceased, Denver, Colo.; S. A. Henry, executrix, assignor to Stanley Electric Manufacturing Company. Electric controller	705,241	July 22	3647	700	100	788
Henry, John C., deceased, Denver, Colo.; S. A. Henry, executrix, assignor to Stanley Electric Manufacturing Company. Electric controller	707,230	Aug. 19	2351	527	100	1634
Henry, John C., deceased, Denver, Colo.; S. A. Henry, executrix, assignor to Stanley Electric Manufacturing Company. Electric-railway system	707,844	Aug. 26	3604	813	100	1905
Henry, John C., deceased, Denver, Colo.; S. A. Henry, executrix, assignor to Stanley Electric Manufacturing Company. Controlling electric motors	708,960	Sept. 9	1786	412	100	2359
Henry, John C., deceased, Denver, Colo.; S. A. Henry, executrix, assignor to Stanley Electric Manufacturing Company. Controlling electric motors	708,961	Sept. 9	1790	412	100	2359
Henry, John C., deceased, Denver, Colo.; S. A. Henry, executrix, assignor to Stanley Electric Manufacturing Company. Electric vehicle	708,962	Sept. 9	1792	413	100	2360
Henry, Joseph L., et al. (See Bryant, John M., assignor.)						
Henry Likly & Company. (See Cannan, John J., assignor.)						
Henry, Michael. (See Kirkpatrick and Henry.)						
Henry, Robert W., Connorsville, Ind. Cultivator	698,196	Apr. 22	3405	749	99	770
Henry, Samuel R., Washington, D. C. Fire-ladder	708,040	Sept. 2	84	19	100	1998
Henry, Stephen, Marshfield, Mass. Milking apparatus	712,529	Nov. 4	128	30	101	925
Henry, Susie A., executrix. (See Henry, John C.)						
Henry Thayer and Company. (See Carver and Sturtevant, assignors.)						
Henry, William B., trustee, et al. (See Gombar, Amos B., assignor.)						
Henry, William K., assignor to P. & F. Corbin, New Britain, Conn. Bracket	698,945	Apr. 29	4861	1073	99	1099
Henry, William P., Central City, Ky. Tobacco-hoister	706,052	Aug. 5	98	21	100	1137
Hensel-Colladay Company. (See Hensel, George S., assignor.)						
Hensel, Colladay Company. (See Kirberg, Jakob E., assignor.)						
Hensel, George S., Philadelphia, Pa., assignor to Hensel-Colladay Company. Skirt-protector	710,687	Oct. 7	554	116	101	1114
Henshall, Robert. (See Hanson, Henshall, and Boardman.)						
Henshaw, Augustus S., Brooklyn, N. Y. Suspender-fastener	694,857	Mar. 4	1002	221	98	1924
Hensley, William N., Columbus, Nebr. Car-coupling	711,496	Oct. 21	2112	458	101	469
Henson, Henry T., Attica, Kans. Pump	705,670	July 29	4554	989	100	982
Henson, Robert W., Geneva, N. Y. Wagon-box	696,354	Mar. 25	3801	847	98	2553
Henstock, Edward W., Chester, England. Pedal for velocipedes	700,492	May 20	2714	1621	99	1765
Henthorn, Philip S., Newark, W. Va. Churn	711,106	Oct. 14	1855	294	101	295
Hentschel, Willibald, assignor to Chemische Fabrik von Heyden, Actiengesellschaft, Radebeul, near Dresden, Germany. Making phenylglycin	712,190	Oct. 28	3464		101	763
Heppburn, William S., and A. G. Morrison, St. Louis, Mo. Adjustable chain-heading for chain or rope curtains or valances	704,799	July 15	2669	577	100	571
Heffinger, William, assignor of one-half to T. Conner, Montezano, Wash. Educational puzzle	713,638	Nov. 18	2288	509	101	1397
Hepp, Eduard, Frankfort-on-the-Main, assignor to Farbwerke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Polyamidoanthraquinone sulfo-acid and making same	711,310	Oct. 14	1767		101	888
Hepp, Eduard, Frankfort-on-the-Main, assignor to Farbwerke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Making polyamidoanthraquinone-sulfo-acids	713,432	Nov. 11	1864	1580	101	1297
Hepp, Florence J., Philadelphia, Pa. Musical instrument	711,765	Oct. 21	2698	1581	101	581
Herb, Fredrick, assignor to R. Hoe, New York, N. Y. Cutting mechanism	690,521	Jan. 7	204	60	98	66
Herbert, Edward G., Manchester, England. Sawing-machine	691,139	Jan. 14	1436	326	98	314
Herbert, Frederick J. (See Shinn, Martin E., assignor.)						
Herbert, Frederick J. (See Shinn and Herbert.)						
Herbert, William H., Chicago, Ill. Portable stool	713,639	Nov. 18	2289	510	101	1398
Herbrand, Nicholas, assignor of one-half to F. Paul, Coldspring, Minn. Attachment for harness	707,588	Aug. 26	3043	684	100	1794
Herbs, Joseph, Redlands, Cal. Roasting-pan	690,574	Jan. 7	395	81	98	86
Herbst, Carl W. (See Ortmann and Herbst.)						
Herbstritt, Hermann. (See Andriano and Herbstritt.)						
Hercules Woodenware Company. (See Reif, Joseph, Jr., assignor.)						
Herd, Andrew B., Phillipsburg, Pa. Jack-o'-lantern	715,379	Dec. 9	1387	299	101	2138
Herd, Charles E., Middleboro, Ky. Indicator for mail-boxes	703,920	July 1	1004	218	100	200
Herd, Frederick, Brooklyn, N. Y. Wire puzzle	705,759	July 29	4723	1022	100	1014
Herdner, Henry, Wellsboro, Pa. Roller-die	696,816	Apr. 1	794	181	99	168
Herdman, Frank E., Winnetka, Ill. Elevator	692,236	Feb. 4	125	20, 30	98	824
Herdman, Frank E., Winnetka, Ill. Hydraulic or liquid motor or pumping apparatus	711,662	Oct. 21	2432	1535	101	536
Herdman, Frank E., Winnetka, Ill. Mechanical movement	711,663	Oct. 21	2436	1535	101	537
Herrert, Joseph, Tucker, Wash. Currycomb	712,530	Nov. 4	129	31	101	925
Herfs, Hen-ette, Bonn, Germany. Manufacture of water and fat proof paper with glazed surface	697,207	Apr. 8	1545		99	348
Hergenhahn, John C., and C. C. Von der Ahe, New York, N. Y. Device for utilizing wave-power	706,558	Aug. 12	1090	241	100	1351
Hert, Anton, Hays City, Kans. Self-feeder for threshing-machines	713,433	Nov. 11	1865	1423	101	1297

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Herley, Patrick H. (See Chambers, Joseph, assignor.)						
Herlt, Frank, New York, N. Y. Machine for teaching type-writing	698,114	Apr. 22	3244	710	99	736
Herman, Charles, Allegheny, Pa. Molding-machine.	706,751	Aug. 12	1461	711	100	1431
Herman, Frank, <i>et al.</i> (See Miller, Benjamin F. D., assignor.)				712		
Herman, H. (See Anderson, Carl O., assignor.)						
Herman, John, Canon City, Colo. Treating ores	707,107	Aug. 19	2123		100	1585
Herman, Ludwig, Cleveland, Ohio. Crushing and pulverizing machine.	706,655	Aug. 12	1269	280	100	1390
Herman, Reinhold. (See Spangler and Herman.)						
Herman, Reinhold, Crafton, Pa. Signaling mechanism	695,723	Mar. 18	2580	583	98	2285
Herman, Reinhold, Crafton, Pa. Electric lock	695,724	Mar. 18	2587	584	98	2287
Herman, Reinhold, Crafton, Pa. Circuit-controller	699,952	May 13	1612	369	99	1521
Herman, Reinhold, Crafton, Pa. Signal	704,800	July 15	2670	577	100	571
Herman, Reinhold, Crafton, Pa. Signal mechanism	705,584	July 29	4396	578	100	951
Herman, Sophie. (See Seligman, Joseph, assignor.)				583		
Hermann, Clara L., New York, N. Y. Lady's underskirt	706,235	Aug. 5	449	95	100	1208
Hermann, Gustav, Berlin, Germany. Photographic-printing frame	711,856	Oct. 21	2810	632	101	617
Hermann, Gustaf A., Chicago, assignor to J. Munton, Maywood, Ill. Automatic car-coupling.	706,236	Aug. 5	449	95	100	1208
Hermanson, Gustaf A., Chicago, assignor to J. Munton, Maywood, Ill. Car-coupling.	711,160	Oct. 14	1464	318	101	319
Hern, John, <i>et al.</i> (See Hern, Marshall B., assignor.)						
Hern, Maria, <i>et al.</i> (See Hern, Marshall B., assignor.)						
Hern, Marshall B., Birmingham, assignor to J. and M. Hern, Manchester, England. Tobacco-pipe	708,142	Sept. 2	269	64	100	2037
Herndon, Edward A., Lagrange, Ga. Extension-ladder and truck therefor	709,402	Sept. 16	2698	605	100	2585
Herndon, George P., Washington, D. C. Pocket attachment for envelopes	691,767	Jan. 28	2666	598	98	608
Herndon, Jesse F., assignor to one-half to F. R. Hunter, Sebastian, Fla. Safety attachment for firearms	707,925	Aug. 26	3757	843	100	1937
Herold, Bernedott T., Vallejo, Cal. Buoyant propeller	694,274	Feb. 25	3922	872	98	1665
Herold, Carl. (See Panitschek and Herold.)						
Herold, Friedrich, Berlin, Germany. Photograph-printing frame	698,015	Apr. 22	3038	667	99	694
Héroult, Paul L. T., La Fraz, assignor to Société Electro Metallurgique Française.	707,776	Aug. 26	3458	779	100	1878
Froges, Isère, France. Oscillating electric furnace	707,106	Aug. 19	2118	473	100	1584
Héroux, Edmond, Yamachiche, Canada. Window-sash	691,882	Jan. 28	2839	638	98	438
Herpolsheimer, Paul, Seward, Nebr. Pneumatic car-spring	707,925	Aug. 26	3757	843	100	1937
Herr, Edwin M., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Brake-shoe adjuster	705,227	July 29	5020	1093	100	1075
Herr, Samuel, assignor to one-half to W. H. Neese, Akron, Ohio. Washing-machine	695,556	Mar. 18	2291	517	98	2297
Herre, Max, Chicago, Ill. Folding paper box	690,575	Jan. 7	396	81	98	86
Herrick, Gerard P., New York, N. Y. Blast-furnace	697,249	Apr. 8	1609	362	99	361
Herrick, Harrison E., Merrimack, N. H. Saw-handle fastening.	701,201	May 27	4044	929	99	2062
Herrick, James A., Jenkintown, Pa. Gas-producer	705,840	July 29	4558	1055	100	1043
Herrick, James A., Philadelphia, Pa. Gas-producer	706,412	Aug. 5	887	180	100	1281
Herrick, James A., Philadelphia, Pa. Gas-producer	706,939	Aug. 12	1805	403	100	1502
Herrick, William, Chicago, Ill. Tobacco-pipe	718,304	Nov. 11	1651	371	101	1250
Herring, Walter R., Edinburgh, Scotland. Mechanism for measuring coal to gas-retorts.	706,940	Aug. 12	1807	404	100	1503
Herrington, Florence L., assignor to G. L. McAlpin, New York, N. Y. Cigar-bunch-wrapping machine	698,835	Apr. 29	4675	1030	99	1060
Herrington, Fredrick J., Pittsburg, Pa. Non-refillable bottle	700,770	May 27	3263	747	99	1899
Herrling, Rudolph, Greenbush, Wis. Plow	691,464	Jan. 27	2287	467	98	469
Herrman, Leopold, New York, N. Y. Handle-fastener	691,377	Jan. 21	1938	435	98	497
Herrmann, Charles P. (See Schmidt and Mueller, assignors.)						
Herron, Charles. (See De Rochemont, Perkins H., assignor.)						
Herschmann, Arthur, New York, N. Y. Vehicle	698,493	Apr. 29	3921	867	99	894
Herschmann, Arthur, New York, N. Y. Braking device for compensating gears	698,494	Apr. 29	3922	867	99	894
Herschmann, Arthur, New York, N. Y. Differential gear for self-propelling vehicles.	705,671	July 29	4556	989	100	982
Hersey, Francis C. (See Winton, Henry D., assignor.)						
Hersh, George, Quarryville, Pa. Stove-grate	692,661	Feb. 4	782	178	98	959
Hersh, Harvey E., Allentown, assignor to one-half to J. Erhardt, Northampton, Pa. Knockdown trestle	695,310	Mar. 11	1860	414	98	2119
Hershberger, Charles E., Luray, Va. Currycomb	698,946	Apr. 29	4862	1073	99	1099
Hershberger, Jonas S. (See Denison, Hugh W., assignor.)						
Hershey, Chacecy B., Anderson, Ind. Steering-lever	716,709	Dec. 23	4014	879	101	2721
Hershey, Christian K., <i>et al.</i> (See Lippy, David, assignor.)						
Herskovitz, Abraham L., <i>et al.</i> (See Walker, Milo S., assignor.)						
Herskovitz, Max, <i>et al.</i> (See Walker, Milo S., assignor.)						
Herskovitz, Max, Chicago, Ill. Support for incandescent mantles	705,242	July 22	3649	790	100	789
Hervey, Benjamin E., Ritzville, Wash. Boring and drilling machine	708,881	Sept. 9	1640	377	100	2329
Hervey, James J., Randsburg, Cal. Cyanid-tank	698,016	Apr. 22	3037	667	99	694
Hervey, Walter, Chenoa, Ill. Tube-cutter	700,197	May 20	2109	483	99	1642
Herz, Martin, Brooklyn, N. Y. Packing-box	694,275	Feb. 25	3923	872	98	1665
Herz, Richard. (See Weinberg and Herz.)						
Herz, Richard, assignor to L. Cassella & Co., Frankfort-on-the-Main, Germany. Blue sulfur dye and making same	709,151	Sept. 16	2182		100	2461
Herzberg, Richard, Steftin, Germany. Furnace for burning fine fuel.	700,198	May 20	2111	483	99	1643
Herzberg, Wilhelm, and O. Siebert, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Red azo dye	704,825	July 15	2723		100	583
Herzberg, Wilhelm, and O. Siebert, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Red azo dye	704,826	July 15	2725		100	583
Herzig, Eduard, Union Hill, N. J. Loose-reed motion for looms	710,192	Sept. 30	4265	962	100	2920
Herzog, Felix B., New York, N. Y. Electric signaling apparatus	693,013	Feb. 11	1462	317	98	1132
Herzog, Felix B., New York, N. Y. Electric signaling apparatus	693,014	Feb. 11	1463	318	98	1132
Herzog, Felix B., New York, N. Y. Electric signaling apparatus	693,390	Feb. 18	2222	487	98	1303
Herzog, Felix B., New York, N. Y. Electric signaling apparatus	696,140	Mar. 25	3399	765	98	2471
Herzog, Felix B., New York, N. Y. Electric signaling apparatus	696,372	Mar. 25	3389	766	98	2567
Herzog, Gustavus A., San Francisco, Cal. Graining apparatus	700,493	May 20	2715	863	99	1765



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Herzog, Philip W. (See Schultdt, Henry J., assignor.)						
Herzog, Rudolph, Syracuse, N. Y. Garment-stay	714,372	Nov. 25	3724	820	101	1717
Hesser, John J., Waco, Nebr. Calf-weaver	696,593	Apr. 1	306	72	99	69
Hess, Edward B., Brooklyn, assignor to Mechanical Improvements Company, New York, N. Y. Writing-machine	694,015	Feb. 25	3444	760	98	1569
Hess, Edward B., Brooklyn, assignor to Mechanical Improvements Company, New York, N. Y. Writing-machine	697,250	Apr. 8	1611	393	99	361
Hess, Edward B., Brooklyn, assignor to Mechanical Improvements Company, New York, N. Y. Writing-machine	700,687	May 20	2045	696	99	1836
Hess, Edward B., Brooklyn, and J. M. Stoughton, Yonkers, N. Y., assignors to Mechanical Improvements Company, New York, N. Y. Writing-machine	691,626	Jan. 21	2378	535	98	528
Hess, Edward B., Brooklyn, and J. M. Stoughton, Yonkers, assignors to Mechanical Improvements Company, New York, N. Y. Time-stamp	700,688	May 20	2056	696	99	1840
Hess, George H., Jr., Chicago, Ill. Apparatus for drying, cooling, or otherwise treating grain, &c.	707,323	Aug. 19	2529	569	100	1670
Hess, Henry, Ober-Schoene-weide, Germany. Device for adjusting the work on machine-tools	693,015	Feb. 11	1464	318	98	1127
Hess, Henry K., Philadelphia, Pa. Making plates for storage batteries and product thereof	704,252	July 8	1646	358	100	344
Hess, Henry K., Philadelphia, Pa. Steam-propelled vehicle	704,253	July 8	1647	358	100	345
Hess, Henry K., Philadelphia, Pa. Steam-propelled vehicle	704,254	July 8	1650	359	100	345
Hess, Henry K., Philadelphia, Pa. Steam-boiler	711,311	Oct. 14	1770	383	101	383
Hess, Hugo, Galveston, Tex. Comb-cleaner	691,378	Jan. 21	1935	435	98	437
Hess, John, Milwaukee, Wis. Manufacturing lace-paper pail covers or circulars	690,951	Jan. 14	1096	247	98	245
Hess, John, Milwaukee, Wis. Lace-paper dolly	700,771	May 27	2323	748	99	1869
Hess, John G., Hagerstown, Md. Vehicle running-gear	712,387	Oct. 28	3787	828	101	832
Hess, Joseph O., Oram, Mo. Combination-tool	713,066	Nov. 11	1201	274	101	1160
Hesse, William T., et al. (See Linn, Allen D., assignor.)						
Hesse, Gustaf E., Brooklyn, assignor of two-thirds to A. L. Washburne, New York, N. Y. Boiler for engines	690,426	Jan. 7	74	16	98	19
Hesse, Gustav. (See Kraemer and Hesse.)						
Hesse, John J., et al. (See Zorch and Hesse.)						
Hesse, Walter A., Alameda, Cal. Funnel attachment	690,576	Jan. 7	397	82	98	86
Hesse, William A., Redbluff, Cal. Thresher	715,066	Dec. 2	800	170	101	1998
Hessel, Amelia, et al. (See Klemm, Hermann A., assignor.)						
Hessel, Sophie, et al. (See Klemm, Hermann A., assignor.)						
Hestand, Hardy. (See Daggett and Hestand.)						
Hestand, Hardy, and A. R. Matthews, Dunlee, Tex. Vehicle-axle	707,845	Aug. 26	3607	813	100	1906
Hesterhagen, August H., Jersey City, N. J. Hinge	708,707	Sept. 9	1306	319	100	2273
Heston, William, Homestead, Pa. Piston-valve	696,175	Apr. 1	537	122	99	131
Heston, William, Homestead, Pa. Valve	715,296	Dec. 9	1175	251	101	2095
Heston, William, Homestead, Pa. Valve	715,578	Dec. 9	1769	392	101	2214
Hetherington, Sam, Reagan, Tex. Animal-trap	708,638	Sept. 9	1152	260	100	2226
Hettinger, Henry, Aurora, Ill. Letter-box	692,852	Feb. 11	1127	292	98	1055
Hetzl, Frederic V., assignor to Link-Belt Engineering Company, Philadelphia, Pa. Box-elevator	716,037	Dec. 16	2678	592	101	2427
Heuer, August Jr., et al. (See Davis, Charles L., assignor.)						
Heuer, Engelina, et al. (See Davis, Charles L., assignor.)						
Heuer, Johann W., Dixon, Iowa. Heating-stove	711,027	Oct. 21	2364	519	101	521
Heuer, William H., et al. (See Davis, Charles L., assignor.)						
Heuermann, William, Sedalia, Mo. Stove	693,707	Feb. 18	2836	625	98	1428
Heuermann, William, Sedalia, Mo. Stove	695,928	July 29	5021	1094	100	1076
Heumader, Christian, St. Joseph, Mo. Trunk and display-case	699,333	May 6	738	172	99	1323
Heuring, Philip K. (See Tislow, Hovey H., assignor.)						
Heurteaux, Georges, Paris, France. Apparatus for rinsing bottles	700,925	May 27	3542	812 814 815 816	99	1955
Heurtier, Antoine, St. Etienne, France. Machine for forming ribs on scythes	703,202	June 24	3556	816	99	2891
Heusner, George F. (See Cook, Edmund R., assignor.)						
Hewes, Fremont D., and F. J. Bittner, New York, N. Y. Adjustable window-shade holder	707,413	Aug. 19	2695	609	100	1705
Hewett, Ashley M., Chicago, Ill. Gas-burner	704,745	July 15	3266	553	100	551
Hewett, Ashley M., and J. C. Smith, Chicago, Ill. Electrical dental furnace	714,373	Nov. 25	3725	820	101	1717
Hewitt, Arthur F., St. Louis, Mo., assignor to General Aristo Company, Rochester, N. Y. Photographic-printing apparatus	711,857	Oct. 21	2811	622	101	618
Hewitt, Charles, Philadelphia, Pa. Wheelbarrow	702,428	June 17	2073	472	99	2571
Hewitt, Don W., et al. (See Hodges, John D., assignor.)						
Hewitt, Herbert H., Buffalo, N. Y. Furnace for heating or smelting metals	698,495	Apr. 29	3924	867	99	894
Hewitt, Herbert H., Buffalo, N. Y. Journal-bearing	698,947	Apr. 29	4863	1073	99	1099
Hewitt, Herbert H., Buffalo, N. Y. Journal-bearing	705,700	July 29	4725	1022 1023	100	1015
Hewitt, James M., and W. G. Rhodes, Manchester, England. Slipper-brake for tramway-cars	714,798	Dec. 2	296	64	101	1897
Hewitt, John D., Brooklyn, N. Y. Lathe attachment	701,724	June 3	804	178	99	2276
Hewitt, Joseph F. (See Wolfe, Andrew C., assignor.)						
Hewitt, Joseph F., Allegheny, Pa. Gas-fire appliance	697,941	Apr. 15	2891	637	99	645
Hewitt, Peter C., trustee. (See Hewitt, Peter C., assignor.)						
Hewitt, Peter C., assignor to P. C. Hewitt, trustee, New York, N. Y. Incandescent electric vapor-electric lamp	690,952	Jan. 14	1068	248	98	245
Hewitt, Peter C., assignor to P. C. Hewitt, trustee, New York, N. Y. Electric lighting	690,953	Jan. 14	1100	248	98	246
Hewitt, T. D., et al. (See Weimar, Fred, assignor.)						
Hewitt, W. C., et al. (See Allen, Charles F., assignor.)						
Hewlett, Alfred M. (See Hewlett, Maddra J., assignor.)						
Hewlett, Alfred M., Kewanee, Ill. Rattling-mill	712,531	Nov. 4	130	31 31 32 33 33	101	925
Hewlett, Alfred M., Kewanee, Ill. Preparing cores for casting	712,532	Nov. 4	132	32 33 33 34 35	101	926
Hewlett, Alfred M., Kewanee, Ill. Core-baking apparatus	712,533	Nov. 4	135	34 35 37	101	926
Hewlett, Alfred M., Kewanee, Ill. Annealing-furnace	716,893	Dec. 30	4473	870	101	2845
Hewlett, Alfred M., Kewanee, Ill. Annealing iron or steel castings	716,894	Dec. 30	4477	871	101	2845

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Hewlett, Edward M. (See Potter and Hewlett.)						
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. Electric switch.	691,766	Jan. 28	2064	597	98	607
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. Electric switch.	696,969	Apr. 8	1132	251	99	260
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. Circuit-controller.	697,144	Apr. 8	1433	320	99	325
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. Surface-contact electric railway.	705,082	July 22	3281	711	100	713
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. Electric transmission of power.	706,559	Aug. 12	1091	242	100	1352
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. Switching apparatus for alternating currents.	716,540	Dec. 23	3702	806 807	101	2654
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. Arc-light switchboard.	717,194	Dec. 30	5084	1102	101	2974
Hewlett, Edward M., Schenectady, assignor, by mesne assignments, to H. W. Leonard. Bronxville, N. Y. Circuit-breaker.	708,710	Sept. 9	1284	293	100	2252
Hewlett, Maddra J., assignor of one-half to A. M. Hewlett, Kewanee, Ill. Rotary engine.	696,904	Apr. 1	980	219	99	207
Hewlett, Maddra J., assignor to himself and A. M. Hewlett, Kewanee, Ill. Governor.	712,534	Nov. 4	141	35	101	926
Hewlett, Maddra J., assignor to himself and A. M. Hewlett, Kewanee, Ill. Rotary engine.	713,003	Nov. 4	1004	233	101	1101
Hewson, Robert B., San Francisco, Cal. Steam-turbine.	708,227	Sept. 2	428	98	100	2069
Hewson, Robert B., San Francisco, Cal. Marine propulsion.	712,677	Nov. 4	397	93	101	980
Hewston, Howard S., Camden, N. J., assignor to C. R. Carver, Philadelphia, Pa. Strip per for rotary perforating-machines.	716,895	Dec. 30	4478	971	101	2846
Hewton, Thomas, Dunedin, New Zealand. Apparatus for straining wire.	700,014	May 13	1773	410	99	1553
Hey, Ishmael, Oakworth, England. Machine for combing wool, &c.	702,301	June 10	1818	414 415	99	2499
Hey, Ishmael, Oakworth, England. Comb for combing-machines.	702,332	June 10	1820	415	99	2499
Heyburn, Weldon B., Wallace, Idaho. Antitelescoping railway-train guard.	702,210	June 10	1676	378	99	2470
Heyburn, Weldon B., Wallace, Idaho. Antitelescoping railway-train guard.	702,211	June 10	1678	378	99	2471
Heyde, Edward, Saginaw, Mich. Machine for topping beets.	710,578	Oct. 7	344	74	101	69
Heyde, Julius, Dresden, Germany. Speed-measurer for rotary shafts.	715,067	Dec. 2	801	170 171	101	1998
Heydrich, Alfred, Brooklyn, N. Y. Envelope-sealing machine.	694,966	Mar. 11	1220	266 267	98	1988
Heydrich, Alfred, Brooklyn, assignor of three-fifths to A. McIntosh and E. Ratloer, New York, N. Y. Device for sealing envelopes.	700,199	May 20	2112	483 484	99	1643
Heydrick, Jesse A., Butler, Pa. Scale.	713,097	Nov. 11	1202	275 276	101	1161
Heydrick, William H. H., Philadelphia, Pa. Lawn-mower.	707,324	Aug. 19	2536	570	100	1671
Heyenga, Martin W., near Emden, Ill. Scoop-board.	693,134	Feb. 11	1710	374	98	1176
Heyenga, Martin W., near Emden, Ill. Grain-elevating machine.	709,012	Sept. 16	1909	439 440	100	2402
Heyer, Charles, assignor of one-half to J. Fitzgerald, Newark, N. J. Curtain-holder.	700,142	May 13	1979	454	99	1592
Heyer, William. (See McKee, Bayes, and Heyer.)						
Heyerman, C. F. (See Eisenhuth, Oscar, assignor.)						
Heyl, Albert D., Saznaw, Mich. Apparatus for making pails from pulp.	698,948	Apr. 29	4864	1074	99	1100
Heyl-Dia, George E., Manchester, England. Covering electric conductors with insulating material.	692,012	Jan. 28	3104	697	98	695
Heyl-Dia, George E., Manchester, England. Insulating covering material for electric cables, conductors, &c.	692,013	Jan. 28	3105	697	98	695
Heyl-Dia, George E., Warrington, England. Manufacture of rubber hose-pipes, rubber tubing, or the like.	710,688	Oct. 7	555	116	101	1114
Heyl, Edwin A., Philadelphia, Pa. Horn for talking-machines.	708,810	Sept. 9	1491	341	100	2299
Heyl and Patterson. (See Acklin, Alfred M., assignor.)						
Heyl and Patterson. (See Rhoad, Charles H., assignor.)						
Heylman, Edward M., assignor to Janesville Machine Company, Janesville, Wis. Seed-machine.	707,846	Aug. 26	3607	814	100	1906
Heylman, Edward M., assignor to Janesville Machine Company, Janesville, Wis. Corn-planter.	708,979	Sept. 9	1830	421	100	2368
Heylman, Edward M., assignor to Janesville Machine Company, Janesville, Wis. Corn-planter.	712,453	Oct. 28	3942	863 862 863	101	865
Heylman, Edward M., assignor to Janesville Machine Company, Janesville, Wis. Corn-planter.	713,217	Nov. 11	1427	821	101	1206
Heyman, Julius C. (See Reym, David, assignor.)						
Heyman, Oscar, New York, N. Y. Bottle-capping machine.	703,203	June 24	3558	817	99	2891
Heys, John J., Lynn, Mass. Leveling-machine.	703,204	June 24	3559	817 818	99	2891
Heys, John J., assignor of one-half to M. V. Bresnahan, Lynn, Mass. Leveling-machine.	693,016	Feb. 11	1466	319	98	1127
Heys, John J., assignor of one-half to M. V. Bresnahan, Lynn, Mass. Leveling-machine.	707,414	Aug. 19	2697	609 610	100	1705
Heysinger, Isaac W., Philadelphia, Pa. Covered strip of soft metal and the manufacture thereof.	690,427	Jan. 7	77	17	98	19
Heysinger, Isaac W., Philadelphia, Pa. Means and appliances for the manufacture of covered strips of soft metal for electrical or other purposes.	706,053	Aug. 5	99	21, 22	100	1137
Heysinger, Isaac W., Philadelphia, Pa. Tool for electricians.	708,639	Sept. 9	1153	260	100	2226
Heywood, Benjamin, East Orange, N. J. Knife-grinding attachment for planing-machines.	695,931	Mar. 25	2971	672	98	2381
Heywood Bros. and Wakefield Company. (See Watkins, Edward G., assignor.)						
Heywood Brothers and Wakefield Company. (See Collier, David R., assignor.)						
Heywood, Frank. (See Browning, William B., assignor.)						
Heywood, William A., assignor of one-half to E. A. Moore, Philadelphia, Pa. Dash-pot.	697,145	Apr. 8	1435	320 321	99	325
Hiatt, Bert L. (See Schooley, Frank W., assignor.)						
Hiatt, Edwin J., et al. (See Mann, George R., assignor.)						
Hibbard, Charles. (See Hibbard, Warren, S., and C.)						
Hibbard, Henry D., Plainfield, N. J., assignor to Hibbard-Rodman-Ely Safe Company, New York, N. Y. Duplex locking mechanism for safes or vaults.	691,942	Jan. 28	2978	670	98	670
Hibbard, Henry D., Plainfield, N. J., assignor to Hibbard-Rodman-Ely Safe Company, New York, N. Y. Safe or vault door.	708,041	Sept. 2	86	20	100	1999
Hibbard, Henry D., Plainfield, N. J., assignor to Hibbard-Rodman-Ely Safe Company, New York, N. Y. Safe or vault door.	713,879	Nov. 18	2729	609	101	1491
Hibbard, Henry D., Plainfield, N. J., assignor to Hibbard-Rodman-Ely Safe Company, New York, N. Y. Fastening for safe or vault plates.	713,580	Nov. 18	2733	609	101	1492



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Hibbard, Henry D., Plainfield, N. J., assignor to Hibbard-Rodman-Ely Safe Company, New York, N. Y. Fastening for safe or vault plates	713,881	Nov. 18	2735	609	101	1493
Hibbard, Maury W., assignor to R. Fitzgerald, Chicago, Ill. Fluid-pressure brake	699,386	May 6	485	113	99	1274
Hibbard, Maury W., Chicago, Ill., assignor to Pettibone, Mulliken & Company, Mechanical movement	716,088	Dec. 16	2679	592	101	2427
Hibbard-Rodman-Ely Safe Company. (See Hibbard, Henry D., assignor.)						
Hibbard, Sumner. (See Hibbard, Warren, S., and C.)						
Hibbard, Warren, S., and C. Sandhill, N. Y. Explosive-engine	694,016	Feb. 25	3448	761	98	1570
Hibson, Albert R. (See Lynch and Hibson.)						
Hielborn, Philip, and A. O. Bostrom, Washington, D. C. Revolving turret	711,967	Oct. 28	3060	671	101	686
Hickey, John J., New York, N. Y. Waste-water receptacle and discharge-trap for ice-boxes or the like	695,311	Mar. 11	1861	414	98	2119
Hickey, John J., New York, N. Y. Waste-water receptacle and connection	695,312	Mar. 11	1862	414	98	2119
Hickey, John P., Washington, D. C. Beer-cooling apparatus	705,243	July 22	3659	790	100	789
Hickey, Thomas F., assignor of one-half to C. J. Van Wert, Johnsonville, N. Y. Level	697,718	Apr. 15	2489	556	99	538
Hickey, White W. M., San Francisco, Cal. Massaging-machine	710,680	Oct. 7	556	116	101	114
Hickey, White W. M., San Francisco, Cal. Gold-separator	710,690	Oct. 7	558	117	101	114
Hickey, White W. M., San Francisco, Cal. Mop-wringer	714,374	Nov. 25	3726	821	101	1717
Hickley, Phillip, et al. (See Cotton, Walter H., assignor.)						
Hickman, Francis. (See Merrill and Hickman.)						
Hickman, John D., Anderson, Ind. Trolley-pole	703,921	July 1	1004	218	100	200
Hickman, John I., and A. Borrows, Milwaukee, Wis. Rail-joint	690,428	Jan. 7	80	47	98	20
Hickman, Logan D., Wichita, Kans. Organ	690,726	Jan. 7	711	157	98	150
Hickman, William H., et al. (See Miller, Jacob B., assignor.)						
Hickok, L. E. (See Wilcox, Frank E., assignor.)						
Hickok, William M., Parisburg, Ohio. Railway construction	694,276	Feb. 25	3924	872	98	1665
Hickox, Herbert E., Great Yarmouth, England. Photographic camera	697,624	Apr. 15	2518	518	99	523
Hicks, Bohm C., Chicago, Ill. Motor-vehicle	700,772	May 27	3264	748	99	1599
Hicks, Bohm C., Chicago, Ill. Motor-vehicle	700,773	May 27	3265	748	99	1595
Hicks, George C., Jr., Connerville, Ind. Spring shaft-coupling	700,773	May 27	3266	748	99	1900
Hicks, George C., Jr., assignor to P. H. & F. M. Roots Company, Connerville, Ind. Flexible shaft-coupling	703,582	July 1	367	85	100	72
Hicks, George J., New York, N. Y. Chocolate coating or dipping machine	707,777	Aug. 26	3459	779	100	1878
Hicks, Irving C., Minneapolis, Minn. Flue-cutter attachment	702,349	June 10	1912	457	99	2517
Hicks, John B., Detroit, Mich. Sparking igniter for explosive-engines	708,042	Sept. 2	88	20	100	1999
Hicks, John J., Chalklevel, Tenn. Fence construction	701,810	June 3	939	208	99	2365
Hicks, John T., Boston, Mass. Sliding-door fastener	705,529	July 22	4271	924	100	913
Hicks, John T., Boston, Mass. Compartment-box for checks or the like	707,325	Aug. 19	2837	570	100	1672
Hicks, John T., Boston, Mass. Bottle-stopper	709,819	Sept. 28	3521	794	100	2732
Hicks, John T., Boston, Mass. Shipping-box	710,100	Sept. 30	4087	922	100	2881
Hicks, John T., Boston, Mass., assignor to Hotel Security Checking Company, Portland, Me.; Boston, Mass., and New York, N. Y. Combination-sideboard	708,043	Sept. 2	90	20	100	2000
Hicks, Louis, Englewood, N. J. Substance and mantle for incandescent gas-lights	703,064	June 24	3290	99	99	2838
Hicks, Richard R., et al. (See Fillingham, Joseph P., assignor.)						
Hicks, Robert R., et al. (See Henderson, Thomas M., assignor.)						
Hicks, Thomas, Chicago, Ill. Foot-power hammer	711,766	Oct. 21	2640	381	101	381
Hickson, Fredrich A., Atlanta, Ga. Lock	693,602	Feb. 18	2641	383	98	1388
Hien, Phillip, Chicago, Ill. Draw-gear and buffing apparatus	702,946	June 24	3061	704	99	2792
Hien, Phillip, Chicago, Ill. Car-coupling	707,108	Aug. 19	2125	474	100	1585
Hien, Phillip, Chicago, Ill. Draft-gear and buffing apparatus	715,068	Dec. 2	804	171	101	1999
Hien, Phillip, Chicago, Ill. Friction-spring	715,069	Dec. 2	807	171	101	1999
Hiestler, Franklin R., Centerport, Pa. Steering mechanism for motor-vehicles	691,054	Jan. 14	1302	295	98	287
Hiett, De Kernaia J. T., assignor to New Hiett Machines Manufacturing Company, St. Louis, Mo. Adding-machine	699,320	May 6	355	85	99	1246
Hiett, De Kernaia J. T., assignor of thirteen twenty-fifths to G. A. von Brecht, St. Louis, Mo. Tabulating mechanism	712,066	Oct. 28	3250	711	101	722
Hiett, De Kernaia J. T., assignor of thirteen twenty-fifths to G. A. von Brecht, St. Louis, Mo. Calculating-machine	717,396	Dec. 30	5422	1178	101	3047
Higbe, James M., Manson, Iowa. Seed-planter	709,442	Sept. 16	2774	634	100	2385
Higbee, Edwin W., Northampton, Mass. Apparatus for heating water	704,330	July 8	1791	391	100	376
Higdon, Otis P., et al. (See Cunningham, Walter C., assignor.)						
Higgin, Henry, Newport, Ky., assignor to Higgin Manufacturing Company. Tufting-button	711,312	Oct. 14	1772	383	101	383
Higgin, Henry, Newport, Ky., assignor to Higgin Manufacturing Company. Curtain-knob	715,380	Dec. 9	1388	299	101	2139
Higgin Manufacturing Company. (See Higgin, Henry, assignor.)						
Higginbotham, Charles T., assignor to Illinois Watch Company, Springfield, Ill. Stem-winding watch	706,656	Aug. 12	1272	281	100	1390
Higginbottom, James, Liverpool, England. Wheat-cleaning mechanism	702,212	June 10	1679	378	99	2471
Higgins, Albert L., Bar Harbor, Me. Lamp-burner attachment	713,098	Nov. 11	1915	276	101	1161
Higgins, Benjamin P., assignor of one-half to C. W. Brumfield, Centralia, Ill. Weather-strip	696,335	Mar. 25	3803	848	98	2553
Higgins, Charles H., Cincinnati, Ohio. Oil-heated oven	716,230	Dec. 16	3078	671	101	2511
Higgins, Clara J., Wanatah, Ind. Bandage	709,767	Sept. 28	3420	768	100	2729
Higgins, Eugene, assignor to Duplex Printing Press Co., Battlecreek, Mich. Printing-press	700,119	May 13	1897	441	99	1577
Higgins, Eugene W., Cortland, N. Y. Hat-hook	704,327	July 15	2727	589	100	583
Higgins, Henry G., Cambridge, Mass. Game device	711,424	Oct. 14	1961	426	101	423
Higgins, Hubert, Cambridge, England. Apparatus for cooking, desiccating, or seasoning purposes	692,516	Feb. 4	582	125	98	906
Higgins, Hubert, Cambridge, England. Apparatus for impregnating and seasoning wood	695,132	Mar. 11	1570	348	98	2062
Higgins, James F., Corsicana, Tex. Hydrocarbon-burner	705,590	July 22	4272	924	100	913
Higgins, James H., Wanatah, Ind. Railway-crossing	695,457	Mar. 18	2098	473	98	2188
Higgins, John J., Duquoin, Ill. Device for cleaning watch-movements	692,663	Feb. 4	788	180	98	960
Higgins, Rozander S., Neoga, Ill. Washing-machine	702,429	June 17	2074	473	99	2571
Higgins, Sylvester W., Detroit, Mich. Dip-net	691,465	Jan. 21	2088	467	98	469
Higgins, William H., Boston, Mass. Fender for boats	708,476	Sept. 2	853	195	100	2154

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Higginson, George, Westminster, London, England. Electric switch	701,725	June 3	805	178	99	2276
Higgins, John A. (See Tyson, Frank, assignor.)						
Higgs, Albert J., Colton, Cal. Circuit-breaking device	696,172	Mar. 25	3467	777	98	2484
Higgs, Walter E. (See Griffin and Higgs.)						
Higham, Daniel, Winthrop Highlands, Mass. Sound-reproducing apparatus	712,930	Nov. 4	875	205	101	1076
Higham, Howard H., Philadelphia, Pa. Cellular packing structure	707,415	Aug. 19	2701	611	100	1706
Higlers, Charlie, assignor of one-half to G. Q. Jarrett, Vicksburg, Ky. Churn	696,042	Mar. 25	3186	719	98	2425
Hight, Albert W., Ballard, assignor of one-half to E. B. Sankey, Seattle, Wash. Split-pulley attachment	696,636	Apr. 1	439	102	99	95
Hight, Wallace L., Boston, Mass. Motor-vehicle	698,836	Apr. 29	4678	1030 1031	99	1061
Hight, William, Macon, Ill. Street-sweeper	698,949	Apr. 29	4867	1077	99	1100
Hight, William, Macon, Ill. Street-sweeper	717,397	Dec. 30	5489	1181	101	3049
Higley, Christina J. (See Pilkington, Joseph H., assignor.)						
Higman, John, et al. (See Engberg, Carl, assignor.)						
Hilbert, Baptiste, Worcester, Mass. Shedding mechanism for looms	695,609	Mar. 18	2400	543	98	2250
Hilbert, Charles, Cincinnati, Ohio. Ice-breaker	704,801	July 15	2676	578	100	572
Hilborn, Max. (See Sheffalt, Charles H., assignor.)						
Hild, Frederic W., and S. B. Stewart, Jr., Schenectady, N. Y., assignors to General Electric Company, S. Electric railway	705,083	July 22	3283	712	100	714
Hildebrand, Albert, Hutchins, Iowa. Traction-engine tender	706,560	Aug. 19	1093	442	100	1352
Hildebrandt, Carl R. (See Evers and Hildebrandt.)						
Hildebrandt, John J., Logansport, Ind. Trolling-bait	706,941	Aug. 12	1808	405	100	1503
Hildebrandt, John J., Logansport, Ind. Spoon-carrier for fishing-tackle	713,435	Nov. 11	1872	424	101	1298
Hildenbrandt's Automatic Hinge Company. (See Smith, James G., assignor.)						
Hilder, Jacob, New York, N. Y. Button	708,711	Sept. 9	1288	294	100	2254
Hildreth, Albert S., Bovine, S. D. Hitching-post	696,817	Apr. 1	796	182	99	168
Hildreth, George H., Seattle, Wash. Turning device	701,038	May 27	3760	862	99	2001
Hilger, George M., Chicago, Ill. Feeder						
Hilker, Charles F. (See Isler, Herman R., assignor.)						
Hilker, Edward, Chicago, Ill. Mop and wringer therefor	699,953	May 13	1615	369	99	1522
Hilker, Edward, Chicago, Ill. Combined mop and wringer therefor	716,417	Dec. 23	3443	751	101	2601
Hill, Albert J., Twickenham, England. Manufacturing improved cellulose fabrics	705,244	July 22	3651	100	789	
Hill, Alexander S., D. Hitching-post	715,381	Dec. 9	1389	291	101	2139
Hill, Anthony S., Kalamazoo, Mich. Steam dorging-machine	702,727	June 17	2638	607	99	3889
Hill, Barton B., St. Petersburg, Russia. Magnetic traction-wheel	710,691	Oct. 7	561	117	101	115
Hill, Chauncy H., Minneapolis, Minn. Attachment for rotary engines	717,001	Dec. 30	4695	1018	101	2890
Hill, Christian C., Chicago, Ill. Condensing or cooling apparatus	708,712	Sept. 9	1290	294	100	2254
Hill, Dan L., Keene, N. H. Box-hinging machine	693,519	Feb. 18	2463	540 541	98	1353
Hill, Dan L., Keene, N. H. Box-hinge	711,968	Oct. 28	3061	672	101	686
Hill, Dan L., Keene, N. H. Box-hinging machine	712,794	Nov. 4	613	141 142	101	1024
Hill, David S., Cincinnati, Ohio. Burglar-alarm fly-screen	695,049	Mar. 11	1373	301	98	2020
Hill, Ebenezer, South Norwalk, Conn. Air-compressor	700,927	May 27	3548	815 816	99	1956
Hill, Ebenezer, South Norwalk, Conn. Journal-bearing	702,947	June 24	3064	705	99	2792
Hill, Ebenezer, Jr., Norwalk, Conn. Trolley-wire support	717,398	Dec. 30	5440	1181	101	3049
Hill, Edgar, Philadelphia, Pa. Measuring device	709,600	Sept. 23	3111	693	100	2668
Hill, Edward. (See Stucky and Hill.)						
Hill, Edward, New Boston, N. H. Toy	691,266	Jan. 14	1667	380	98	363
Hill, Edward J., Kalkaska, Mich. Projectile	711,209	Oct. 14	1582	339	101	343
Hill, Edwin A. (See Bowman, Aaron P., assignor.)						
Hill, F. C. (See Wilder, Julius P., assignor.)						
Hill, F. T., et al. (See Laswell, Martin, assignor.)						
Hill, Frederick H., London, assignor to T. R. Dalmeyer, County of Middlesex, England. Prismatic binocular telescope	699,168	May 6	72	19	99	1190
Hill, George E., Scranton, Pa. Trousers-supporter	698,198	Apr. 22	3410	751	99	771
Hill, George H., Glenridge, N. J., assignor to Sprague Electric Company, New York, N. Y. Electric switch	710,455	Oct. 7	103	23	101	23
Hill, George H., Glenridge, N. J., assignor to Sprague Electric Company, New York, N. Y. Constructing electric switches	712,535	Nov. 4	144	35	101	927
Hill, George S. (See Dahl and Hill.)						
Hill, George S., Haverhill, Mass. assignor, by mesne assignments, to Singer Manufacturing Company. Cutting attachment for sewing-machines	703,960	July 1	1080	233 234	100	215
Hill, George S., assignor of one-half to J. H. Murray, Haverhill, Mass. Beading and turning machine	713,566	Nov. 11	2148	481	101	1353
Hill, George S., Haverhill, Mass., assignor to Roe & Buttonhole Machine Company, Portland, Me., and Boston, Mass. Buttonhole-sewing machine	713,764	Nov. 18	2519	561	101	1449
Hill, Harland P., Hummer, Kans. Tire-tightener	711,894	Oct. 21	2886	698	101	633
Hill, James E., and W. W. Brower, Meservey, Iowa. Grain or seed separating device	696,336	Mar. 25	3804	818	98	2553
Hill, James F., Fleetwood, Pa. Explosive-engine	711,628	Oct. 21	2366	519	101	522
Hill, James H., and J. Rivett, Horseshoe, assignors to A. A. Low, Brooklyn, N. Y. Evaporating-pan	697,484	Apr. 15	2063	455	99	473
Hill, John H. (See Ford, Fred H., assignor.)						
Hill, John J., Denver, Colo. Amalgamating apparatus	717,195	Dec. 30	5086	1103	101	2975
Hill, John R., Washington, D. C. Book-rest	695,810	Mar. 18	2747	627	98	2320
Hill, John W. (See Bassett and Hill.)						
Hill, Jones, Thomas. (See Kressel, Edward C. L., assignor.)						
Hill, Louis W. (See Toltz and Hill.)						
Hill, Marie A. (See Farrand, William K., assignor.)						
Hill, Norman N., East Hampton, Conn. Bicycle-bell	698,950	Apr. 29	4668	1074 1075	99	1000
Hill, Norman N., East Hampton, Conn. Bicycle-bell	698,951	Apr. 29	4870	1075	99	1101
Hill, Olivia A. (See Kost, Victor, assignor.)						
Hill, Richard S., Cambridge, Mass. Machine for jointing and sizing lumber	691,267	Jan. 14	1669	380 381	98	364
Hill, Robert, Lawrence, Mass. Cop-holder for winding-machines	712,536	Nov. 4	144	36	101	928
Hill, Robert E. (See Tcherikassov and Hill.)						
Hill, Robert S., Detroit, Mich. Conveyor	704,540	July 15	2215	479	100	479
Hill, Terelius A., Knoxville, Tenn. Gate	696,676	Apr. 1	528	122	99	115
Hill, Terelius A., Maryville, Tenn. Gate	709,543	Sept. 23	3014	671	100	2647
Hill, Terelius A., Maryville, Tenn., assignor of one-half to V. B. McClung. Gate	706,113	Aug. 5	828	181 182	100	1281
Hill, Thomas, Jersey City, N. J. Ash or refuse can	698,496	Apr. 29	3925	868	99	895
Hill, Thomas, Jersey City, N. J. Ash or refuse can	698,497	Apr. 29	3927	868	99	895



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Hill, Thomas, Jersey City, N. J. Dumping-vehicle	699,169	May 6	73	19, 20	99	1191
Hill, Thomas, Jersey City, N. J. Push-wagon for street-cleaning purposes	711,893	Oct. 21	2887	698	101	633
Hill, W. I. (See Miller, Martin L., assignor.)						
Hill, Warren S., Hydepark, Mass. Electrical traction system	711,107	Oct. 14	1356	295	101	295
Hill, Wesley W. C., Martinsville, Ill. Fence-builder and hay-derrick	703,551	Sept. 9	989	223 224	100	2193
Hill, William T., et al. (See Evans, William, assignor.)						
Hillard, Frederic W., Brooklyn, N. Y., assignor to Elliott & Hatch Book-Typewriter Company. Type-writing machine	692,664	Feb. 4	790	180 181	98	961
Hillard, Frederic W., Tottenville, assignor to Elliott & Hatch Book Typewriter Company, New York, N. Y. Book-type-writer table	695,725	Mar. 18	2589	585 586	98	2287
Hillard, Frederic W., Tottenville, assignor to Elliott & Hatch Book Typewriter Company, New York, N. Y. Type-writing machine	713,434	Nov. 11	1870	423 424	101	1298
Hilleary, Ridgely B. (See Bradford and Hilleary.)						
Hilleary, Ridgely B., and C. Bradford, Indianapolis, Ind. Pneumatic elevator and weigher	706,054	Aug. 5	103	22	100	1188
Hillenbrand, Charles W., Kansas City, Kans. Crate-fastener	699,107	Apr. 29	5127	1134	99	1153
Hiller, Balthasar, assignor to Hiller Home Cure Meat Company, St. Paul, Minn. Machine for salting meats	713,218	Nov. 11	1429	323	101	1207
Hiller, Gustav, Zittau, Germany. Mechanism for uniting the ends of warp-threads	714,900	Dec. 2	527	111 112 113	101	1941
Hiller, Hattie W., New York, N. Y. Shoe-lacing	699,869	May 13	1441	333	99	1485
Hiller Home Cure Meat Company. (See Hiller, Balthasar, assignor.)						
Hillichich, John A., Louisville, Ky. Bat	716,541	Dec. 23	3705	807	101	2655
Hillery, John, assignor of one-third to J. R. Enness, Colchester, Ill. Check-row corn-planter	709,403	Sept. 16	2700	606	100	2569
Hilliard, Edward W., and H. Heidacker, Metropolis City, Ill. Baling-press	701,089	May 27	3761	862	99	2001
Hilliard, Frederick E., Brooklyn, assignor to L. Tannenbaum, New York, N. Y. Apparatus for grinding and polishing gems	701,879	June 10	1064	239 240	99	2346
Hilliard, Harry D., assignor to M. A. Hastings, Lancaster, N. H. Wrench	698,498	Apr. 29	3929	808	99	895
Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Tripping electric switches or circuit-breakers	714,181	Nov. 25	3368	741	101	1645
Hilliker, Ryerson W., Kansas City, Kans. Bake-oven for gas or gasoline stoves	700,045	May 13	1774	410	99	1553
Hillman, Charles L., Santiago, Chile. Means for conveying oil for calming waves	717,196	Dec. 30	5058	1108 1109	101	2975
Hillman, George F., Florence, Mass. Apparatus for curing tobacco	696,877	Apr. 1	531	122	99	115
Hillman, Ulysses G., Washington, N. J. Paper-holding structure	693,768	Feb. 18	2838	625	98	1433
Hills, George A., Alliance, Nebr. Weather-strip attachment for doors or windows	717,399	Dec. 30	5442	1181	101	3059
Hills, Howard L., assignor of two-thirds to A. M. Darling and W. Joy, Lansing, Mich. Lamp-burner attachment	694,858	Mar. 4	1003	222	98	1925
Hills, James E., New York, N. Y. Toothpick	714,301	Dec. 2	530	113	101	1942
Hills-McCanna Company. (See McCanna and Delaney, assignors.)						
Hills, Victor G., and J. E. Chapson, Cripple Creek, Colo. Reel for tape-measures	692,665	Feb. 4	797	181	98	962
Hillstrom, Jacob E., Michigan City, Ind. Saw-setting machine	703,013	Sept. 16	1916	440	100	2403
Hillyer, Edgar C., Newport News, Va. Automatic cut-off for gas-stoves	698,199	Apr. 22	3412	751	99	772
Hillyer, George H., Duluth, Minn. Motor-handle for tools	714,581	Nov. 25	4097	906	101	1790
Hilmar, Josef, Magdeburg, Germany. Automatic tramway-switch	714,301	Nov. 25	3602	792	101	1692
Hilsinger, Adin W. (See Hilsinger, Alburts C. and A. W.)						
Hilsinger, Alburts C., New York, N. Y., and A. W. Hilsinger, Orange, N. J., assignors to C. A. Stevens, New York, N. Y. Pulverizer	708,510	Sept. 9	1156	260 261 262	100	2227
Hilsum, Samuel. (See Proops and Hilsum.)						
Hilt, Wilmer, Coles, Cal., and C. E. Lane, Ashland, Oreg. Extracting precious metals	707,926	Aug. 26	3757	843	100	1937
Hilton, George O. (See McCurley, Charles C., assignor.)						
Hilton, John H., New York, assignor of one-half to T. F. Curley, Brooklyn, N. Y. Spool-holder	697,442	Apr. 15	2893	637	99	645
Himmel, Solomon, Baltimore, Md. Show-case-holding structure	700,703	Sept. 28	3235	739	100	2735
Himmelman, Ernest, Leroy, N. Y. Fruit-jar holder	694,744	Mar. 4	790	175	98	1878
Himmelman, Ernest, Leroy, N. Y. Fruit-jar-top wrench	694,748	Mar. 4	790	176	98	1878
Himoff, Max, New York, N. Y. Tobacco-cutting machine	707,778	Aug. 26	3465	781	100	1879
Himrod, Kirk, Chicago, J. R. Tucker and C. C. Hinkley, Aurora, Ill., assignors to International Typal Telegraph Company, Detroit, Mich. Selector	690,571	Jan. 7	389	32, 83	98	87
Hinchcliffe, Charles W., Lawrence, Mass. Roundabout	673,498	Feb. 25	3339	734	98	1548
Hincher Mfg. Co. (See Willer, Marshall A., assignor.)						
Hincher Manufacturing Company. (See Black, Julius, assignor.)						
Hinchley, John W., London, England. Means for starting explosion-motors	714,902	Dec. 2	531	113	101	1942
Hinchliffe, John R., and J. Hall, Maynard, Mass. Carding-engine	696,437	Apr. 1	80	8, 19	99	22
Hinchman, James B., Denver, Colo. Fireproof flooring	694,381	Apr. 4	82	19	98	1728
Hinckley, Charles C. (See Himrod, Tucker, and Hinckley.)						
Hinde, Henry J., Toledo, Ohio. Power-screw-press	700,046	May 13	1775	411	99	1553
Hinderer, Edward, St. Paul, Minn. Heating-stove	711,969	Oct. 28	3062	672	101	686
Hindley, Edward, S. Walker, and M. Rose, Stockport, England. Apparatus for dyeing, &c	706,657	Aug. 12	1276	281	100	1391
Hindman, David C., Rushville, Ill. Wrench	717,400	Dec. 30	5443	1181	101	3059
Hinds, Jesse L., Syracuse, N. Y. Voltmeter-switch	698,300	Apr. 22	3414	751	99	772
Hinds, John T., Brooklyn, N. Y., assignor of one-sixth to R. Lewis, Bridesburg, Philadelphia. Paper-holding pipes	714,902	Dec. 2	532	114	101	1942
Hine, Charles O., Battersea, and F. G. Waters, Kensington, England. Cowl for chimneys	711,497	Oct. 21	2114	459	101	469
Hine, Henry C., New Britain, Conn. Suspenders or other garment-supporter	708,882	Sept. 9	1641	378	100	2330
Hine, Henry C., New Britain, Conn. Garment-supporter	708,963	Sept. 9	1796	413	100	2360
Hine, Henry C., New Britain, Conn. Garment-supporter	711,313	Oct. 14	1774	383	101	383
Hine, Henry C., New Britain, Conn. Suspenders	711,314	Oct. 14	1775	384	101	384
Hine-Watt Manufacturing Company. (See Watt, Sern P., assignor.)						
Hines, Henry V., Scranton, Pa. Fire-kindler for fire-engines	696,438	Apr. 1	83	19	99	22
Hines, Warren H., Poplarbluff, Mo., assignor to L. M. Palmer, New York, N. Y. Stave-drying apparatus	691,140	Jan. 14	1439	327	98	315
Hinkler, Andrew J., San Francisco, Cal. Matrix-band retainer	698,280	Apr. 22	3352	782	99	801
Hinkel, Adam and J., assignors to Firm of E. P. Hinkel, Offenbach-on-the-Main, Germany. Fastener for satchels, purses, &c	700,329	May 20	2389	546	99	1698
Hinkel, E. P., Firm of. (See Hinkel, Adam and J., assignors.)						
Hinkel, Jacob. (See Hinkel, Adam and J.)						
Hinklein, Johannes, assignor to F. Levy, Frankfurt-on-the-Main, Germany. Type-distributing machine	702,555	June 17	2302	1524 1525	99	2619
Hiuman, Charles E., assignor of one-half to W. C. McPherson, Council Bluffs, Iowa. Milk pasteurizer and sterilizer	705,245	July 22	3652	790	100	789

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Hinman, Charles W., Boston, Mass. Air and gas mixer	715,800	Dec. 16	2195	491	101	2322
Hinman, Edward P., North Andover, Mass. Rolling-hoop	708,143	Sept. 2	270	64	100	2037
Hinman, George W., Lake Charles, La. Rein-guard	695,932	Mar. 25	2973	673	98	2381
Hinman, Walter B., assignor of one-half to E. E. Harris, Joplin, Mo. Electric heater	700,494	May 20	2716	621	99	1766
Hinni, Fritz. (See Flatley and Arthur, assignors.)						
Hinsdale, Winfield E., New York, N. Y. Water-closet	691,768	Jan. 23	2667	598	98	608
Hinson, James A., Chicago, Ill. Draft-rigging for cars	704,802	July 15	2678	578 579	100	573
Hinson, James A., Chicago, Ill. Draft-rigging for railway-car couplings	709,044	Sept. 16	2704	607	100	2569
Hinson, James A., Chicago, Ill. Car-coupling	714,693	Dec. 2	77	16, 17	101	1853
Hinson, James A., Chicago, Ill. Draft-rigging for car-couplings	716,542	Dec. 23	3706	807	101	2355
Hinz, Hermann, Frankfort, Ky. Device for tapping lager-beer kegs	717,300	Dec. 30	5618	1219	101	3085
Hinzke, Albert, Rumford Falls, Me. Pulp-washing apparatus	702,556	June 17	2305	525	99	2620
Hjorth, Fredrik V. L., Christiania, Norway. Drying apparatus	715,070	Dec. 2	811	172	101	2000
Hippolito, Espiridon, Los Angeles, Cal. Window-screen	709,405	Sept. 16	2709	607	100	2570
Hippard, Emanuel, Youngstown, Ohio. Valley-gutter for greenhouses	696,043	Mar. 25	3188	719	98	2426
Hipple, Alpheus H., Omaha, Neb. Treating materials to render them waterproof	694,839	Mar. 4	1004		98	1925
Hiram Maxim Lamp Company. (See Liver, Ernest A., assignor.)						
Hird, Charles, Woonsocket, R. I. Mold for the manufacture of cellular cushion-tires for wheels of bicycles or other vehicles	698,115	Apr. 22	3247	711	99	737
Hird, Charles, Woonsocket, assignor of forty-nine one-hundredths to P. J. McCarthy, Providence, R. I. Cushion-tire	695,394	Mar. 11	1993	446	98	2148
Hirner, Emil A., Allentown, Pa. Manufacture of figured knit fabrics	698,499	Apr. 29	3331	869	99	895
Hirner, Emil A., Allentown, Pa. Manufacture of open-striped hosiery	699,954	May 13	1616	370	99	1522
Hirsch, Frank, Stockholm, Sweden. Belt-shifter	693,969	Feb. 25	3341	734	98	1548
Hirsch, Frank, assignor to Aktiebolaget Verktygsmaskiner, Stockholm, Sweden. Multiple-spindle lathe	694,277	Feb. 25	3925	874 875	98	1665
Hirsch, John G., Milwaukee, Wis. Shadowgraph	703,416	July 1	93	20	100	21
Hirsch, Joseph, Kansas City, Mo. Elastic horseshoe	713,882	Nov. 18	2739	610	101	1494
Hirsch, Louis, Ger. Germany. Imitating beige or vigoureux by printing	694,860	Mar. 4	1004	222	98	1925
Hirschell, George, Pittsburg, Pa. Beer-stopper	711,767	Oct. 21	3642	181	101	581
Hirschell, George, Pittsburg, Pa. Rail-joint	715,579	Dec. 9	1771	392	101	9215
Hirschey, Samuel L., Castorland, N. Y. Chicken-brooder	701,040	May 27	3763	863	99	2001
Hirschfield, William A., Philadelphia, Pa. Automatic call-bell clock	693,647	Feb. 18	2723	601	98	1406
Hirst, Franklin G., Philadelphia, Pa. Temple-attaching device	707,109	Aug. 19	3127	474	100	1586
Hirst, Joseph, New London, Conn. Gas-engine	714,799	Dec. 2	2397	65	101	1888
Hirt, Ludwig, Grevenbroich, Germany. Centrifugal machine	699,321	May 6	365	86	99	1248
Hirt, Ludwig, assignor to Maschinenfabrik Grevenbroich, vormals Langen & Hundhausen, Grevenbroich, Germany. Device for packing sliding gate-valves	703,583	July 1	368	85	100	73
Hirzel, Heinrich, Leipzig-Plagwitz, Germany. Distilling apparatus	710,974	Oct. 14	1083	239	101	236
Hiser, Charles H., assignor to Springfield Metallic Casket Company, Springfield, Ohio. Burial-casket	696,439	Apr. 1	84	19	99	22
Hiser, Daniel B., assignor to Springfield Metallic Casket Company, Springfield, Ohio. Casket-truck	693,860	Feb. 25	3124	692	98	1506
Hisey, Charles S., Dayton, Ky., assignor to Hisey-Wolf Machine Co., Cincinnati, Ohio. Electric grinding device	712,537	Nov. 4	146	36	101	928
Hisey-Wolf Machine Co. (See Hisey, Charles S., assignor.)						
Hitchcock, Embury A., Columbus, Ohio. Steam-pressure indicator	715,382	Dec. 9	1390	299	101	2139
Hitchcock, Otto G., Erie, Pa. Trap ferrule-cover	712,379	Oct. 28	3788	829	101	832
Hitchcock, William F., Rochester, N. Y. Brake for vehicles	706,824	Aug. 12	1596	359	100	1460
Hitchings, David D., Norfolk, Va. Street-sweeper	690,727	Jan. 7	732	157	98	150
Hitchon, Alfred, Accrington, England. Ring spinning and twisting frame	706,414	Aug. 5	812	181 182 183	100	1282
Hitchon, Alfred, Clayton-le-Dale, England. Driving-gear for automobiles	706,415	Aug. 5	835	182 183	100	1282
Hitt, Addison W., assignor of one-half to C. E. Naylor, San Francisco, Cal. Ship's berth	704,378	July 15	2815	609	100	603
Hitt, Joseph E. (See Hitt, Robert G., assignor.)						
Hitt, Robert G., Atlanta, assignor of one-fourth to J. E. Hitt, Augusta, Ga. Tag	696,675	Apr. 1	533	123	99	116
Hitt, Samuel E. (See Coleman and Hitt.)						
Hitzl, Carl, Brooklyn, assignor to S. Hochstadter, New York, N. Y. Apparatus for filling bottles	712,454	Oct. 28	3944	863	101	865
Hitzrot, Henry W. (See Griffiths, Hitzrot, and Mower.)						
Hix, Howard L., assignor to Wallace Manufacturing Company, Frankfort, Ind. Brick-cutting machine	711,896	Oct. 21	2889	639	101	633
Hixon, Frank, Ashland, Ohio, assignor to Ashland Sieve Company. Adjustable sieve	695,104	Mar. 11	1467	326	98	2038
Hixson, Frank, assignor of one-half to H. L. McCray, Ashland, Ohio. Adjustable chaffer or sieve	694,148	Feb. 25	3677	813 814	98	1616
Hjermstad, John M., St. Paul, Minn., assignor to F. B. and E. J. Fargo, Lakemills, Wis. Horse-collar-blocking machine	701,880	June 10	1066	240 241	99	2346
Hoadley, Joseph H., assignor to Pneumatic Carriage Company, New York, N. Y. Motor-vehicle	707,695	Aug. 26	3263	730	100	1839
Hoag, C. E. et al. (See Smith, Thomas, assignor.)						
Hoag, Chester R., assignor to Whitehead & Hoag Company, Newark, N. J. Letter or space indicating scale for type-writing machines	699,524	May 6	741	173	99	1328
Hoag, Frank G., Battlecreek, Mich. Cultivator	706,942	Aug. 12	1810	405	100	1503
Hoag, Frank G., Battlecreek, Mich. Adjustable cultivator-tooth	714,642	Nov. 25	4214	932	101	1813
Hoag, Ira G., Los Angeles, Cal. Train-order box	692,666	Feb. 4	799	181	98	962
Hoag, Ira G., Los Angeles, Cal. Train-order box in connection with semaphores	699,735	May 13	1208	282	99	1436
Hoag, Ira G., Los Angeles, Cal. Train-order box	700,928	May 27	3551	816	99	1956
Hoag, Ira G., Los Angeles, Cal. Train-order-receiving box	703,313	June 24	3803	874	99	2943
Hoag, John F., and C. R. Beckman, Palisade, Neb. Wind-wheel	717,197	Dec. 30	5638	1104	101	2976
Hoagland, Charles W., Gates, Neb. Fence-wire tightener	714,302	Nov. 25	3603	792	101	1692
Hoagland, John, Clarksburg, W. Va. Molding-machine	703,258	June 24	3651	839 840	99	2911
Hoard, Benjamin F., New York, N. Y. Manifolding-tablet	707,511	Aug. 19	2860	649	100	1740
Hobart, Caleb E. P., Meriden, Iowa. Mail-catcher	707,696	Aug. 26	3264	730	100	1839
Hobart, Edwin L., Denver, Colo. Attaching device	710,776	Oct. 7	735	156	101	150
Hobart, Henry M., Berlin, Germany, assignor to General Electric Company. Time-limit circuit-breaker	706,055	Aug. 5	104	22	100	1138
Hobart, James F., Brooklyn, assignor to C. F. Wyckoff, Ithaca, and J. R. Chisholm, New York, N. Y. Internal-combustion engine	702,430	June 17	2075	473 474	99	2572
Hobart, John H., Denver, Colo. Smoke-preventer	697,085	Apr. 8	1345	298	99	305
Hobbs, Bion D., Edwardsville, Ill., assignor of one-half to C. A. Robbins, Winterset, Iowa. Rotary engine	700,423	May 20	2374	589	99	1735



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Hobbs, Charles M., Baltimore, Md., assignor of one-half to H. P. Brown, Montclair, N. J. Third-rail insulator for electric railways.....	698,603	Feb. 18	2642	583	98	1389
Hobbs, Charles M., Baltimore, Md., assignor of one-half to H. P. Brown, Montclair, N. J. Third-rail construction for electric railways.....	700,689	May 20	3068	697 698	99	1843
Hobbs, Clarence W., Worcester, Mass. Machine for applying adhesive material to paper.....	694,749	Mar. 4	791	176	98	1879
Hobbs, Clarence W., Worcester, Mass. Adjustable receiving-table for scoring-machines.....	705,998	July 29	5139	1121	100	1101
Hobbs, Clarence W., Worcester, Mass. Expandable box-form.....	710,975	Oct. 14	1085	240	101	237
Hobbs, George F., assignor of one-half to H. Haller Manufacturing Company, Limited, New Orleans, La. Packaging sheet-metal sections.....	699,322	May 6	367	86	99	1248
Hobbs, Jefferson D., Jersey City, N. J. Telephone substation-registering system.....	695,105	Mar. 11	1468	327	98	2039
Hobbs, Jennie F., Bridgeport, Conn. Car-truck.....	694,478	Mar. 4	252	57	98	1766
Hobbs, John E., North Berwick, Me. Double-ender sleigh-runner.....	716,543	Dec. 23	3709	808	101	2656
Hobbs, Joseph D., Mediapolis, Iowa. Means for pumping water under hydraulic power.....	711,858	Oct. 21	2815	623	101	619
Hoberecht, Albert, Ensenada, Mexico. Automatic water-balance.....	697,086	Apr. 8	1347	298	99	305
Hobert, Clayton, Philadelphia, Pa., assignor, by mesne assignments, of seven-tenths to W. S. Miller and E. S. Kerper, Reading, Pa. Insulator.....	711,629	Oct. 21	2367	519	101	522
Hobson, John H., assignor of one-half to C. C. Redding, Mattoon, Ill. Wrench.....	693,861	Feb. 25	3126	692	98	1506
Hobson, Russell B., Pueblo, Colo. Boiler.....	715,580	Dec. 9	1771	392 393	101	2215
Hoch, Adam, Alameda, assignor to Wendling-Hoch Adding Machine Company, San Francisco, Cal. Adding attachment for type-writing machines.....	696,141	Mar. 25	3404	786 787	98	2472
Hoch, Adam, Alameda, assignor to Wendling-Hoch Adding Machine Company, San Francisco, Cal. Adding attachment for type-writing machines.....	696,173	Mar. 25	3468	777 778	98	2484
Hoch, Adam, Alameda, assignor to Wendling-Hoch Adding Machine Company, San Francisco, Cal. Calculating-machine.....	712,795	Nov. 4	616	142 143	101	1025
Hochriem, Gustav F. (See Paupa and Hochriem.)						
Hochspeier, William F., assignor of one-half to J. H. and L. H. Greif, Jersey City, N. J. Drafting device.....	709,219	Sept. 16	2325	537	100	2490
Hochstadter, Sigmund. (See Hitzel, Carl, assignor.)						
Hochstein, Ludwig, Dietrichsdorf, Germany. Ash-ejector.....	716,418	Dec. 23	3445	751	101	2601
Hochstetter, Heinrich von, Troppau, Austria-Hungary. Making acids of the fatty-acid series.....	714,494	Nov. 25	3916	866	101	1753
Hock, William R., assignor of one-half to A. Hohl, Catsauqua, Pa. Game apparatus.....	706,658	Aug. 12	1277	281	100	1391
Hocker, Jefferson C. (See McGuire, Squire D., assignor.)						
Hockett, Aaron L., Mastodon, Miss. Cotton-chopper.....	694,474	Mar. 4	254	57	98	1766
Hockett, Aaron L., Mastodon, Miss. Scraper attachment for cotton-choppers.....	694,475	Mar. 4	255	57.58	98	1766
Hockett, Aaron L., Mastodon, Miss. Wheel.....	697,341	Apr. 8	1773	397	99	397
Hockey, Oliver A. (See Strutt and Hockey.)						
Hodell, Henry H., Cleveland, Ohio. Scoop.....	690,522	Jan. 7	305	60	98	67
Hodge, Charles J., Houghton, Mich. Actuating mechanism for jigs for washing min- erals or ores.....	710,777	Oct. 7	736	156	101	150
Hodge, Charles J., Houghton, Mich. Jig for mineral or ore washing.....	713,436	Nov. 11	1873	424 425	101	1296
Hodge, Charles S., Chinook, Mont. Harvester-frame.....	708,703	July 1	608	135	100	120
Hodge, Chester A., Vinton, Iowa. Butter-pressing apparatus.....	701,041	May 27	3764	803	99	2002
Hodge, George L., Boston, assignor of one-half to Akron Paper Company, Akron, Ohio. Mixer for paper-making machines.....	710,456	Oct. 7	104	23.24	101	23
Hodge, John W. K., assignor of one-fourth to E. E. Bahr, Blair Station, Pa. Rotary steam-engine.....	709,323	Sept. 16	2532	569 570	100	2534
Hodge, Leonard M., et al. (See Stewart, Washington H., assignor.)						
Hodge, Mary A., administratrix. (See Stewart, Washington H.)						
Hodge, Thomas L., trustee. (See Logan, Ferdinand, assignor.)						
Hodgens, David E., San Francisco, Cal. Gas-governor.....	708,883	Sept. 9	1645	378	100	2331
Hodges, Abel B. W., Grand Forks, Canada. Furnace-charging system.....	699,525	May 6	743	174	99	1329
Hodges, Addison S., Everett, Mass. Flask for making seamless sash-weights.....	700,768	Sept. 23	3421	769	100	2730
Hodges, Chauncey W., assignor to Michigan Specialty Company, Limited, Battlecreek, Mich. Harness-hook.....	696,970	Apr. 8	1123	251	99	261
Hodges, Frederick F., Battlecreek, Mich. Adjustable clamp-buckle and combination.....	708,584	July 1	369	85	100	73
Hodges, Harry F., U. S. Army. Hoist and conveyer.....	695,050	Mar. 11	1375	302	98	2020
Hodges, Henry C., and G. A. Blume, Detroit, Mich.; said Blume assignor to said Hodges. Car construction.....	704,965	July 15	3051	655 656	100	652
Hodges, Horace F. (See Kuen and Hodges.)						
Hodges, James S., Troy, N. Y. Electromagnetic device.....	714,904	Dec. 2	535	114	101	1942
Hodges, James W., Jersey City, N. J., assignor of one-half to H. C. Voss, New York, N. Y. Steam-trap.....	699,170	May 6	76	20	99	1191
Hodges, John D., assignor of two-thirds to D. W. Hewitt and E. Butler, Jr., St. Louis, Mo. Car-fender.....	701,568	June 3	519	114	99	2215
Hodgetts, Harold W., New Haven, assignor of one-half to W. J. Hodgetts, Wallingford, Conn. Pneumatic-tire valve.....	706,944	Aug. 12	1818	406	100	1504
Hodgetts, William J. (See Hodgetts, Harold W., assignor.)						
Hodgins, John T., St. Louis, Mo. Car-fender.....	704,461	July 8	2046	443 241 242 243	100	430
Hodgkin, Philip E., and G. E. Kenney, London, England. Type-distributing machine.....	701,881	June 10	1069	242 243 244	99	2347
Hodgkinson, Edmund H., County of Middlesex, England. Belt, rope, or chain gearing.....	702,948	June 24	3065	705 706	99	2792
Hodgkinson, Francis, Wilksburg, Pa., assignor to Westinghouse Machine Company. Balancing-machine.....	710,148	Sept. 30	4186	942	100	2903
Hodgson, Alvin, South Ottumwa, Iowa. Derrick.....	706,943	Aug. 12	1812	406	100	1504
Hodgson, Herbert E., assignor of one-half to W. W. Old, Norfolk, Va., executor of H. D. Van Wyck, deceased. Rotary engine.....	704,637	July 15	2365	514	100	509
Hodgson, Herbert E., assignor of one-half to W. W. Old, Norfolk, Va., executor of H. D. Van Wyck, deceased. Rotary engine.....	704,638	July 15	2369	514	100	510
Hodgson, John G. (See Norton and Hodgson.)						
Hodgson, John G., Maywood, assignor to Automatic Vacuum Canning Company, Chi- cago, Ill. Can-body-flanging machine.....	693,017	Feb. 11	1467	319 320	98	1128
Hodgson, John G., Maywood, assignor to Automatic Vacuum Canning Company, Chi- cago, Ill. Double-seaming machine.....	693,135	Feb. 11	1712	374	98	1177
Hodgson, John G., Maywood, assignor to Automatic Vacuum Canning Company, Chi- cago, Ill. Canning food products.....	704,258	July 8	1608	363 364	100	350
Hodgson, John G., Maywood, Ill., assignor, by mesne assignments, to American Can Company, Jersey City, N. J. Machine for manufacturing ball-cared cans, pails, or other vessels.....	703,205	June 24	3564	819 820	99	2
Hodgson, John G., Maywood, Ill., assignor, by mesne assignments, to American Can Company, Jersey City, N. J. Can-body-forming machine.....	704,700	July 15	2473	534	100	533

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Hodgson, John G., and H. N. Norton, Maywood, Ill., assignors, by mesne assignments, to American Can Company, Jersey City, N. J. Can ending or heading machine.	704,255	July 8	1653	359 360 360	100	346
Hodgson, John G., Maywood, Ill., and J. C. Taliaferro, Baltimore, Md., assignors, by mesne assignments, to American Can Company, Jersey City, N. J. Automatic side-seam-soldering machine for sheet-metal cans.	704,256	July 8	1658	361 362 363	100	347
Hodgson, John G., Maywood, Ill., and J. C. Taliaferro, Baltimore, Md., assignors, by mesne assignments, to American Can Company, Jersey City, N. J. Can-soldering machine.	704,257	July 8	1665	362 363 363	100	349
Hodkinson, George F., Chicago, Ill. Filter.	701,726	June 3	806	119 459 460	99	2377
Hodsdon, Henry, Albion, Brisbane, Queensland, Australia. Enumerating-machine.	711,498	Oct. 21	2116	459 460	101	470
Hoe and Company, R. (See North, Thomas M., assignor.)						
Hoe and Company, R. (See Spalckhaver, William, assignor.)						
Hoe and Company, R. (See Tucker, Edwin D., assignor.)						
Hoe, Robert. (See Herb, Fredrick, assignor.)						
Hoe, Robert. (See Read, George F., assignor.)						
Hoe, Robert. (See Roesen, Oscar, assignor.)						
Hoe, Robert. (See Spalckhaver, William, assignor.)						
Hoe, Robert. (See White, Joseph, assignor.)						
Hoe, Robert, et al. (See North, Thomas M., assignor.)						
Hoefer, A. G., et al. (See Hoefer, Emil A., assignor.)						
Hoefer, August G., assignor to Hoefer Manufacturing Company, Freeport, Ill. Wire fence.	710,913	Oct. 7	966	213	101	197
Hoefer, Emil A., assignor to himself and F. W. and A. G. Hoefer, Freeport, Ill. Spring-seat.	711,161	Oct. 14	1463	318	101	320
Hoefer, F. W., et al. (See Hoefer, Emil A., assignor.)						
Hoefer, John C., Portland, Oreg. Ore-separating machine.	693,709	Feb. 18	2839	625 626	98	1428
Hoefer Manufacturing Company. (See Hoefer, August G., assignor.)						
Hoelt, Henry, St. Louis, Mo. Stove.	710,198	Sept. 30	4266	962	100	2920
Hoelt, Max, Berlin, Germany. Electric clock.	696,238	Mar. 25	3587	803	98	2506
Hoelt, Max, and E. Schultz, Berlin, assignors to M. Möller, Altona, Germany. Self-winding electric clock.	694,546	Mar. 4	408	89	98	1799
Hoekstra, William, Harrison, S. D. Pump-rod ejector.	694,278	Feb. 25	3934	875 876	98	1668
Hoelzlein, Philipp. (See Brautligam and Hoelzlein.)						
Hoer, Albert B. (See Bartle and Hoer.)						
Hoer, Ernest A. (See Cowles, Arthur E., assignor.)						
Hoeftner, Carl, deceased, Frankfort-on-the-Main, Germany; H. Orth, Jr., administrator. Separating alkali-metal sulfates from mixed solutions.	704,036	July 8	1234	-----	100	260
Hoeftner, Carl, deceased, Frankfort-on-the-Main, Germany; H. Orth, Jr., administrator. Leaching and extraction of metals from their ores.	704,639	July 15	2372	-----	100	511
Hoeftner, Carl, deceased, Frankfort-on-the-Main, Germany; H. Orth, Jr., administrator. Extracting copper and nickel from sulfid compounds.	704,640	July 15	2374	-----	100	511
Hoeftner, Carl, deceased, Frankfort-on-the-Main, Germany; H. Orth, Jr., administrator. Extracting zinc or other metals from their ores.	704,641	July 15	2376	-----	100	512
Hoeftner, Albert O., Sandwich, Ill. Harrow draw-bar.	709,769	Sept. 23	3424	760	100	2730
Hoeftner, George, San Francisco, assignor to Union Scale and Manufacturing Company, Sacramento, Cal. Automatic feed-regulating apparatus.	691,627	Jan. 21	2385	536	98	530
Hoeftner, George, assignor to Union Scale and Manufacturing Company, San Francisco, Cal. Feed-regulator.	713,099	Nov. 11	1207	276	101	1162
Hoeftner, George, assignor to Union Scale and Manufacturing Company, San Francisco, Cal. Weighing-scale.	716,544	Dec. 23	3711	808	101	2657
Hoerichs, Edward, assignor of two-thirds to T. A. Bryan and C. H. Boone, Baltimore, Md. Non-refillable bottle.	707,512	Aug. 19	2862	649	100	1740
Hoerlein, Franz G., Brooklyn, N. Y. Gas-heater.	698,017	Apr. 22	3038	668	99	694
Hoerning, Robert, Brooklyn, N. Y. Bottle-washing brush.	704,828	July 15	2727	590	100	583
Hoerr, Louis A., St. Louis, Mo. Draft-rigging.	692,200	Jan. 28	3441	773	98	764
Hoerr, Louis A., St. Louis, Mo. Grain-door for cars.	709,466	Sept. 23	2802	648	100	2625
Hoey, John, San Francisco, Cal. Wire-mattress stretcher.	693,018	Feb. 11	1469	321	98	1128
Hoey, John, San Francisco, Cal. Bed-bottom attachment.	696,239	Mar. 25	3589	803	98	2507
Hoey, John, San Francisco, Cal. Wire bed-bottom.	697,087	Apr. 8	1348	298	99	306
Hoey, John, San Francisco, Cal. Bed-bottom.	700,929	May 27	3552	817	99	1957
Hoey, John, San Francisco, Cal. Extension bed-couch.	706,178	Aug. 5	344	74	100	1187
Hoey, John, San Francisco, Cal. Bed-couch.	714,375	Nov. 25	3727	821	101	1717
Hofe, Edward vom, New York, N. Y. Fishing-reel.	700,424	May 20	2575	590	99	1736
Hofe, Julius vom, Brooklyn, N. Y. Fishing-reel.	703,585	July 1	371	86	100	73
Hoff, Olaf, New York, N. Y. Fireplace floor.	691,466	Jan. 21	2089	468	98	470
Hoffman, David J., and J. W. Helm, Parachute, Colo. Ditching-machine.	691,141	Jan. 14	1440	327	98	315
Hoffman, Edmund, assignor to himself and C. E. E. Whiteley, Bridgeton, N. J.; H. Whiteley, Philadelphia, Pa., and W. G. Whiteley and R. P. Frist, Wilmington, Del. Sheet-metal enclosure.	714,303	Nov. 25	3604	793	101	1692
Hoffman, Edmund, assignor to himself and C. E. E. Whiteley, Bridgeton, N. J.; H. Whiteley, Philadelphia, Pa.; W. G. Whiteley and R. P. Frist, Wilmington, Del. Neck-forming tool.	714,304	Nov. 25	3605	793	101	1692
Hoffman, Edward J., assignor of one-half to C. W. Adams, Chicago, Ill. Manufacturing artificial fuel.	707,231	Aug. 19	2353	-----	100	1634
Hoffman, George, Fontaine, Ind. Loading device for locomotives.	707,527	Aug. 26	3758	843	100	1997
Hoffman, Isaac W. (See Ebersole, Peter K., assignor.)						
Hoffman, Jacob A., and W. R. Magie, Paulding, Ohio; said Magie assignor to said Hoffman. File-case.	691,628	Jan. 21	2387	537	98	531
Hoffman, John W., et al. (See McPherson, Frank G., assignor.)						
Hoffman, Lewis F., Oakland City, Ind. Automatic water-discharging apparatus for wells.	717,198	Dec. 30	5094	1104	101	2976
Hoffman, Louis E. (See Raymond, Charles M., assignor.)						
Hoffman, Nellie F., Arlington, S. D. Oven.	698,500	Apr. 29	3933	869	99	896
Hoffman, Richard J. (See Krueger and Hoffman.)						
Hoffman, William W., and F. W. Powers, West Lafayette, assignors to Electric and Steam Railway Supply Co., Lafayette, Ind. Railway-switch.	698,952	Apr. 29	4872	1075 1076	99	1101
Hoffman, William W., and F. W. Powers, West Lafayette, assignors to Electric and Steam Ry. Supply Co., Lafayette, Ind. Electric trolley-protector.	715,071	Dec. 2	813	172 173	101	2001
Hoffmann, Adolf, Constance, Germany. Device for moistening and applying gummed paper.	691,379	Jan. 21	1935	435	98	437
Hoffmann, Alfred W., assignor to N. Y. Metal Specialty Manufacturing Company, New York, N. Y. Shade-holder.	712,796	Nov. 4	628	144	101	1026
Hoffmann, Carl, assignor to Farbwerke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Acidyl dialkylrhodamin and making same.	694,149	Feb. 25	3679	-----	98	1617



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Hoffmann, Ernst G., Chelmsford, England. Machine for grinding balls.	703,065	June 24	3292	1757	99	2309
Hoffmann, Ernst G., Chelmsford, England. Back-pedaling brake.	708,228	Sept. 2	481	1268	100	2069
Hoffmann, Herman H., Chicago, Ill. Binder.	690,859	Jan. 7	931	1209	98	196
Hoffmann, Hermann H., Chicago, Ill. Loose-leaf-ledger binder.	703,922	July 1	1005	219	100	200
Hoffmann, Oswald, Neugersdorf, Germany. Shaking-strap for looms.	704,642	July 15	2378	515	100	512
Hoffmann, Otto, Portland, Oreg. Grass-catcher attachment for lawn-mowers.	692,145	Feb. 4	305	95	98	880
Hoffmann, Otto, Withington, England. Automatic fire-extinguisher.	704,682	July 15	2439	527	100	525
Hoffmann, Otto, Withington, near Manchester, England. Valve for automatic sprinklers.	716,030	Dec. 16	2280	533	101	2128
Hoffmann, Otto, New Albany, Ind. Folding basket or fruit-box.	716,231	Dec. 16	3078	672	101	2511
Hoffmann, Otto C., assignor to F. R. Greene, Chicago, Ill. Gas or vapor lamp.	715,801	Dec. 16	2139	1491	101	2323
Hoffmann, William R., St. Joseph, Mo. Lap-board.	696,044	Mar. 25	3189	720	98	2426
Hoffnungsthaler Papierfabrik A. & R. Geldmacher. (See Zilles, Hans, assignor.)						
Hofman, Peter, Los Angeles, Cal. Apparatus for measuring distances.	716,710	Dec. 23	4016	889	101	2721
Hofmann, Adam, Munich, Germany, assignor to I. Friedinger, Oberthal, near Lintz, Austria-Hungary. Wall-nail.	703,704	July 1	609	135	100	120
Hofmann, Frederick, New York, N. Y. Curtain-fixture.	715,690	Dec. 9	1908	1426	101	2213
Hofmann, Frederick H. (See Berry, Charles M., assignor.)						
Hofmann, Fritz, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Co. Salicylic ether of quinin. (Reissue.)	11,960	Jan. 7	1030		98	215
Hofmann, Fritz, and J. Callen, Elberfeld, Germany, assignors to Farbenfabriken of Elberfeld Co., New York, N. Y. Glycolic menthyl ester.	707,110	Aug. 19	2129		100	1586
Hofmann, Josef, Berlin, Germany. Motive-power apparatus.	694,642	Mar. 4	583	128	98	1836
Hofmann, Peter, Greenfield, Iowa. Grain-threshing machine.	700,047	May 13	1779	411	99	1554
Hofmeister, William. (See Clump and Hofmeister.)						
Hofstad, Paul M. (See Olsen, Peder, assignor.)						
Hogan, Bertice P., assignor to American Manufacturing Co., Erie, Pa. Sectional ladder.	700,090	May 20	3071	698	99	1844
Hogan, Daniel. (See Meinecke and Hogan.)						
Hogan, Daniel, New York, N. Y., and C. W. Meinecke, Jersey City, N. J., assignors to Meinecke & Co., New York, N. Y. Water-bag.	710,864	Oct. 7	890	194	101	180
Hogan, Enos W., Port Arthur, Canada. Rail-fastener.	694,750	Mar. 4	793	176	98	1879
Hogan, James T., Jersey City, N. J., assignor to National Machine Company. Button-hole-sewing machine.	694,150	Feb. 25	3680	814	98	1617
Hogan, James T., Jersey City, N. J., assignor to National Machine Company, New York, N. Y. Buttonhole-sewing machine.	694,151	Feb. 25	3680	815	98	1619
Hogan, James T., Jersey City, N. J., assignor to National Machine Company. Button-hole-sewing machine.	710,149	Sept. 30	4188	943	100	2903
Hogan, James T., Jersey City, N. J., assignor to National Machine Company, New York, N. Y. Sewing-machine.	710,150	Sept. 30	4193	944	100	2904
Hogan, James T., Jersey City, N. J., assignor to National Machine Company, New York, N. Y. Machine for sewing buttons to fabrics.	712,191	Oct. 28	3465	945	101	763
Hogan, William. (See Judge, Thomas F., assignor.)						
Hogancamp, Francis M. (See Hammer, Willie A., assignor.)						
Hogarth, John M., Bootle, assignor of one-half to R. W. Preston, Wallasey, county of Chester, England. Water-feeding and scale-removing device for steam-boilers.	715,581	Dec. 9	1774	393	101	2215
Hogeland, Israel, assignor to M. Bernhard, Chicago, Ill. Self-adjusting support.	713,100	Nov. 11	1209	276	101	1162
Hogenson, Anton, Calmar, Iowa. Pipe-lifting machine.	697,625	Apr. 15	2320	518	99	524
Hogenson, Anton, Calmar, Iowa. Pipe-lifting machine.	697,719	Apr. 15	2491	556	99	558
Hogfeldt, Richard. (See Jacenbergh and Hogfeldt.)						
Hogson, Samuel H., New York, N. Y. Electromechanical clock.	714,905	Dec. 2	537	115	101	1913
Hoglund, Gustavus E., and C. M. Hedman, assignors to Stromberg-Carlson Telephone Manufacturing Company, Chicago, Ill. Annunciator.	698,018	Apr. 22	3030	668	99	694
Hogrehe, Arthur E., Philadelphia, Pa. Electric controller.	704,803	July 15	2681	579	100	573
Hogue, L. B., et al. (See Allen, Charles F., assignor.)						
Hogue, William E. (See Stewart, Robert P., assignor.)						
Hohagen, Julius, Velbert, Germany. Lock.	710,692	Oct. 7	562	117	101	116
Hohl, August. (See Hock, William R., assignor.)						
Hohner, Hans, Trossingen, Germany. Mouth-harmonica.	712,380	Oct. 28	3789	829	101	833
Hoisington, Benjamin R., Minneapolis, Minn. Boiler.	710,579	Oct. 7	316	75	101	70
Holabird, William H. (See Donnatin and Greenmyer, assignors.)						
Holbach, Joseph, New York, N. Y. Bear-barre-tapping device.	711,162	Oct. 14	1469	318	101	320
Holbert, Nathan E. (See Quaschar, Gustav C., assignor.)						
Holbrook, Frank, assignor to New England Fire Supply Company, Lynn, Mass. Boring apparatus.	691,620	Jan. 21	2389	537	98	531
Holbrook, Frank, assignor to New England Fire Supply Company, Lynn, Mass. Hose-nozzle.	696,174	Mar. 25	3476	778	98	2185
Holbrook, Frank, assignor to New England Fire Supply Company, Lynn, Mass. Fire-harness.	696,175	Mar. 25	3477	778	98	2185
Holbrook, James H., Boston, Mass. Twine-reel.	691,943	Jan. 28	2384	671	98	572
Holbrook, Olin A., Quincy, Mass. Mold for forming golf-tees.	714,906	Dec. 2	539	115	101	1943
Holden, Artemis F. (See Diggins, William T. S., assignor.)						
Holden, Daniel L., Philadelphia, Pa. Press for ice-machines.	701,882	June 10	1075	243	99	2348
Holden, Edward, et al. (See Lones, Joseph, assignor.)						
Holden, Elbridge G., Philadelphia, Pa. Window-screen.	708,357	Sept. 2	633	147	100	2113
Holden, Henry H., Port Huron, Mich. Stove.	693,862	Feb. 25	3127	692	98	1507
Holden, John F. (See Thurston and Holden.)						
Holden, Jonas H. (See Warren and Holden.)						
Holden, Jonas H., and A. A. Ackerman, assignors to Warren Featherbone Company, Threeokas, Mich. Machine for making corset-stiffeners.	715,267	Dec. 9	1177	251	101	2096
Holden, Sylvanus L., assignor of one-half to W. Cordes, New York, N. Y. Foot-damper for bowling-alleys.	702,091	June 10	1424	320	99	2419
Holden, William M., Barre, Vt. Pneumatic tool.	711,859	Oct. 21	2817	623	101	619
Holder, Franklin B., Lansing, Mich. Carpet-beater.	714,907	Dec. 2	540	115	101	1943
Holderrieth, Charles H., Brooklyn, assignor to United States Battery Company, New York, N. Y. Automatic regulator for storage-battery systems of distribution.	693,863	Feb. 25	3128	693	98	1507
Holdridge, Clarence A., Chicago Heights, assignor to D. S. Wegg, Chicago, Ill. Bonding-pin and making same.	691,313	Jan. 14	1778	405	98	386
Holdridge, Clarence A., assignor of one-half to J. A. Smith, Chicago Heights, Ill. Electrical igniting device.	713,305	Nov. 11	1653	371	101	1251
Holdsombeck, Enoch W., Lawley, Ala. Cane-stripper.	703,417	July 1	95	20	100	22
Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company, Claremont, N. H., and Chicago, Ill. Engine cross-head.	692,287	Feb. 4	128	30	98	821

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Hollisworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company, Claremont, N. H., and Chicago, Ill. Engine cross-head	692,288	Feb. 4	129	30	98	825
Hollisworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Co., Claremont, N. H., and Chicago, Ill. Valve-gear for engines	692,289	Feb. 4	130	30	98	825
Hollisworth, Frederic. (See McClintock and Holdsworth.)						
Hollisworth, Frederic, assignor, by mesne assignments, to E. C. Hoyt and F. Rosen, New York, N. Y. Machine for justifying type	701,811	June 3	940	200	99	2305
Hote, Peter B., McIntosh, Minn. Car-ventilator	701,883	June 10	1076	244	99	2340
Holland, Adolf, Magdeburg, Germany. Centrifugal machine	703,728	July 1	655	145	100	131
Holland, Adolf, Magdeburg, Germany. Centrifugal apparatus	716,711	Dec. 23	4019	1,880	101	2722
Holland, Benjamin, Providence, R. I. Clamp for filing shaft-keys	695,686	Mar. 18	2528	572	98	2275
Holland, Blanche I. (See Holland, Timothy, assignor.)						
Holland, Charles C., trustee. (See McGinn, John S., assignor.)						
Holland, Charles E., New York, N. Y., assignor to Electric Purifying Company. Portable water purifier and filter	691,545	Jan. 21	2220	499	98	497
Holland, Henry, Detroit, Mich. Trolley-stand	694,152	Feb. 25	3694	816	98	1620
Holland, Henry, Detroit, Mich. Trolley-stand	717,401	Dec. 30	5444	1182	101	3050
Holland, John, Cincinnati, Ohio. Fountain-pen	703,418	July 1	96	21	100	22
Holland, John, and W. P. Wickline, San Antonio, Tex. Safety-platform for railway-cars	701,302	May 27	4045	930	99	2062
Holland, John P., Newark, N. J. Automatic diving mechanism for submarine boats	693,272	Feb. 11	1994	434	98	1234
Holland, John P., Newark, N. J. Means for automatically ballasting submarine boats	394,153	Feb. 25	3696	817	98	1620
Holland, John P., Newark, N. J. Submarine boat or vessel	694,154	Feb. 25	3698	817	98	1621
Holland, John P., Newark, N. J. Submarine boat	694,043	Mar. 4	385	120	98	1386
Holland, John P., Newark, N. J. Firing valve for subsurface expulsion-tubes	696,971	Apr. 8	1134	252	99	261
Holland, John P., Newark, N. J. Submarine boat	696,972	Apr. 8	1135	252	99	261
Holland, John P., Newark, N. J. Submarine boat	706,561	Aug. 12	1094	242	100	1352
Holland, John P., Newark, N. J. Submarine boat	708,553	Sept. 9	904	224	100	2194
Holland, John P., Newark, N. J., assignor to Electric Boat Company. Submarine boat	702,728	June 17	2640	608	99	2690
Holland, John P., Newark, N. J., assignor to Electric Boat Company. Submarine boat	702,729	June 17	2641	608	99	2690
Holland, John P., Newark, N. J., assignor to Electric Boat Company. Submarine or other gun	8,552	Sept. 9	992	224	100	2193
Holland, Joseph R., assignor to I. M. Gray, G. D. Nash, Binghamton, N. Y., and D. S. Stone, Scranton, Pa. Horseshoe	694,917	Mar. 4	1116	246	98	1948
Holland, Newman H., assignor of one-half to C. W. Holtzer, Brookline, Mass. Telephone-exchange	694,918	Mar. 4	1117	246	98	1948
Holland, Thomas. (See Pratt, Cyrus C., assignor.)						
Holland, Thomas G. (See Sandstrom, Edward, assignor.)						
Holland, Thomas O., Philadelphia, Pa. Toilet outfit	692,853	Feb. 11	1128	252	98	1055
Holland, Thomas O., Philadelphia, Pa. Shoe-lace	696,440	Apr. 1	85	19	99	23
Holland, Thomas O., Philadelphia, Pa. Tooth-powder receptacle	717,402	Dec. 30	5445	1182	101	3050
Holland, Timothy, assignor to B. I. Holland, New York, N. Y. Gas-burner	702,873	June 17	2609	622	99	2745
Holland, William J., Era, Tex. Trap	693,391	Feb. 18	2225	488	98	1303
Holland, William J., Era, Tex. Wagon-seat	693,392	Feb. 18	2226	488	98	1304
Holland, William J., Era, Tex. Swinging gate	710,976	Oct. 14	1086	240	101	237
Holland, William L. (See Tipping and Fletcher, assignors.)						
Holland, Willie W., Bremond, Tex. Bottle	706,056	Aug. 5	105	22	100	1138
Hollander, Adolph. (See Greite, Gustav, assignor.)						
Hollands Manufacturing Company. (See Renner, Henry F., assignor.)						
Hollar, William C., et al. (See Shank, Augustus W., assignor.)						
Hollen, William H., Philadelphia, Pa. Safe	719,883	Nov. 18	2741	610	101	1494
Hollen, John A., Sioux City, Iowa. Folding box or case	706,057	Aug. 5	106	23	100	1139
Hollenbeck, J. E. (See Caughey, Albert E., assignor.)						
Hollender, Charles W., Paris, Tex. Eccentric	710,865	Oct. 7	891	194	101	181
Hollender, Charles W., Paris, Tex., assignor of one-half to E. Springmann, Liverpool, England. Bolting-machine	715,072	Dec. 2	822	173	101	2004
Hollerith, Herman, Washington, D. C., assignor to Tabulating Machine Company. Electrically-actuated calculator	695,933	Mar. 25	2974	673	98	2381
Holley, Claude, Albany, Ga., assignor to Chambers Brothers Company, Philadelphia, Pa. Die for brick-machines	698,019	Apr. 22	3042	688	99	695
Holley, Walter D., assignor of one-half to J. A. Fries, Brookville, Ind. Vehicle-seat lock	716,712	Dec. 23	4021	881	101	2722
Hollick, Thomas D., Brentwood, England. Crane and hoisting apparatus	711,400	Oct. 11	1923	448	101	415
Holliday, Thomas, Chicago, Ill. Reversing-gear	706,752	Aug. 12	1465	322	100	1492
Holliday, William, Cadiz, Ind. Per. Tool-handling device	699,223	May 6	308	86	99	1248
Hollings, Alfred, Chorlton-cum-Hardy, England. Press for guncotton	690,728	Jan. 7	714	158	98	150
Hollingsworth, Clarence M. (See Anderson and Hollingsworth.)						
Hollingsworth, Merrill W., Philadelphia, Pa. Machine for forcibly casting dental bridges	708,811	Sept. 9	1492	342	100	2209
Hollingsworth, Merrill W., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Artificial tooth	696,099	Mar. 25	3307	745	98	2452
Hollingsworth, William T. F. (See Barlet, Frédéric, assignor.)						
Holls, Elijah B., Greenville, S. C. Loconator-destructor	711,569	Oct. 21	2256	490	101	499
Hollis, Henry B., New York, N. Y. Table or desk for holding dies	695,051	Mar. 11	1877	302	98	2029
Holliswell, Charles. (See Elliott and Holliswell.)						
Holliswell, Charles, Broadheath, England, assignor to Mergenthaler Linotype Company, New York, N. Y. Automatically-cored linotype mold-block	696,637	Apr. 1	439	102	99	95
Holmr, Gustav H., Bridgeport, Conn. Tapping-fixture	717,199	Dec. 30	5096	1103	101	2977
Hollopeter, Russell, Fostoria, Ohio. Dyeing and dyeing apparatus	708,144	Sept. 2	271	65	100	2037
Holloway, John P., assignor to M. E. Holloway, Santa Barbara, Cal. Mortar-bed	708,344	June 24	3805	874	99	2944
Holloway, Mary E. (See Holloway, John M., assignor.)						
Holloway, William C., Westminster, England. Motor-car	705,402	July 22	3989	861	100	856
Holloweg, Carl, Magdeburg-Sudenburg, assignor to A. Heimann, Berlin, Germany. Pessary	709,675	Sept. 23	3235	723	100	2693
Holly, Carlos, Lockport, N. Y. Steam-boiler	698,240	Mar. 25	3590	804	98	2507
Holly Manufacturing Company. (See Deering, David A., assignor.)						
Holm, Edward, Chicago, Ill. Incrustation preventive	699,684	May 13	1074	240	99	1410
Holm, Ernest G., Berlin, Germany. Electricity-meter	702,213	June 10	1681	379	99	2471
Holman, Axel. (See Anderson, William, assignor.)						
Holman & Company, A. J. (See Oberteuffer, Robert F., assignor.)						
Holman, William P., Belt, Mont. Rotary steam-engine	710,977	Oct. 14	1088	241	101	237
Holmboe, Leonard C. B. (See McCullough and Holmboe.)						
Holmstrom, Carl, Dorchester, Mass. Shutter-holder	716,636	Dec. 23	3892	850	101	2697
Holmes-Barton Company. (See Barton, Robert W., assignor.)						
Holmes & Bros., Robert. (See Holmes, Grant, assignor.)						
Holmes, Charles E., assignor of one-half to F. H. Page, Melrose, Mass. Adjustable pulley and adjusting mechanism therefor	695,052	Mar. 11	1378	302	98	2021



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Holmes, Charles J., San Francisco, Cal. Manufacturing artificial fuel.....	710,580	Oct. 7	348	75	101	70
Holmes, Cuthbert, Montgomery, W. Va. Paper-hanging machine.....	701,727	June 3	811	170	99	2277
Holmes, Daniel M., Arlington, N. J., assignor to C. S. Fowler and L. A. Rockwell, New York, N. Y. Starch-printer.....	707,589	Aug. 26	3044	685	100	1794
Holmes, Daniel M., Arlington, N. J., assignor to C. S. Fowler and L. A. Rockwell, New York, N. Y. Double-stroke depositor.....	707,590	Aug. 26	3045	685	100	1794
Holmes, Enoch T., assignor of one-third to J. C. Brocklebank, Chicago, Ill. Treating fibrous substances.....	704,359	July 8	1670	363	100	350
Holmes, Erwin E. (See Heaton, John W., assignor.)						
Holmes, Franklin C., Chicago, Ill. Bag for remedial applications.....	696,441	Apr. 1	86	20	99	23
Holmes, George L., assignor to Link Belt Machinery Company, Chicago, Ill. Clutch-operating device.....	696,978	Apr. 8	1136	253	99	261
Holmes, George S., Liverpool, England. Car-coupling.....	690,954	Jan. 14	1101	248	98	246
Holmes, Grant, assignor to R. Holmes & Bros., Danville, Ill. Combined screen and chute.....	693,019	Feb. 11	1170	321	98	1136
Holmes, Horace W., Kingsland, Ark. Well-bucket.....	703,923	July 1	1008	219	100	201
Holmes, Isaac V., Chicago, Ill. Centrifugal separator.....	702,795	June 17	2764	636	99	2715
Holmes, James S., Carlton, Victoria. Manifold counter check or sales book for drapers, tailors, or others.....	692,290	Feb. 4	131	31	98	825
Holmes, Joe. (See Boxley and Holmes.)						
Holmes, John A., Salt Lake City, Utah, and J. F. Wood, Denver, Colo. Concentrator.....	709,770	Sept. 23	3425	769 770 771	100	2730
Holmes, John H., Kipling, Miss. Cotton-picker's sack.....	699,324	May 6	369	87	99	1248
Holmes, Mansfield E. (See Greenlaw and Holmes.)						
Holmes, Oscar J., and W. R. Hampden, San Francisco, Cal. Stove.....	717,097	Dec. 30	4864	1054	101	2026
Holmes, Thomas H., et al. (See Taylor, James W., assignor.)						
Holmes, Watson M., et al. (See Mayberry, Frank E., assignor.)						
Holmes, Watson M., Hoosick Falls, N. Y., assignor, by mesne assignments, to Planters Compress Company of Maine. Combined bale and tie.....	715,802	Dec. 16	2203	492	101	2334
Holmes, William, Parkersburg, W. Va. Pipe-wrench.....	706,753	Aug. 12	1467	323	100	1432
Holmes, William C., assignor of one-half to D. Olmsted, Pittsburg, Pa. Folding-grate.....	700,774	May 27	3268	748	99	1900
Holmes, William K., Brooklyn, N. Y. Tripod.....	701,042	May 27	3766	863	99	2002
Holmes, Willis F., et al. (See Stewart, Washington H., assignor.)						
Holmlund, John A., Mason City, Iowa. Peg-cutter.....	696,974	Apr. 8	1138	253	99	262
Holmquist, Peter E. (See Kriwulka and Holmquist)						
Holmström, Carl, Glasgow, Scotland. Breech block and chamber for ordnance.....	705,841	July 29	4860	1055	100	1043
Holmström, Carl, Glasgow, Scotland. Breech mechanism for ordnance.....	708,884	Sept. 9	1647	378 379	100	2331
Holmström, Carl, Glasgow, Scotland. Breech mechanism for guns.....	715,073	Dec. 2	826	175	101	2094
Holmström, Patrick, Hancock, assignor of one-half to W. R. Craig, St. Paul, Minn. Waggon-pole cap.....	706,754	Aug. 12	1467	323	100	1432
Holmström, Thure, assignor of one-half to L. Thorstenson, Starbuck, Minn. Power-hammer.....	710,358	Sept. 30	4559	1028	100	2983
Holritz, Edward A., assignor of one-half to J. C. Bramwell, St. Paul, Minn. Copy-holder for type-writers.....	708,554	Sept. 9	995	225	100	2194
Hölscher, Hermann, Lengerich, Germany. Printing apparatus for use with machines for making paper bags.....	706,237	Aug. 5	452	95 96 97	100	1219
Holsclaw, Wilford H., Louisville, Ky., assignor to B. F. Avery & Sons. Attachment for plows.....	706,525	Aug. 12	1598	359 360	100	1461
Holsman, Henry K., Chicago, Ill. Automobile.....	697,720	Apr. 15	2492	556	99	559
Holson, Albert B., Chicago, Ill. Electric motor.....	701,341	June 8	115	24	99	2132
Holson, Albert B., Chicago, Ill. Electric motor.....	706,317	Aug. 5	630	138	100	1243
Holst, Lodewyk J. R., Brooklyn, N. Y., assignor of two-thirds to L. Borsum, Plainfield, N. J. Photographic camera.....	715,803	Dec. 16	2204	493	101	2334
Holst, Lodewyk J. R., and C. C. Langill, New York, N. Y. Focal-plane shutter.....	711,680	Oct. 21	2367	520	101	522
Holt, Albert T., Springfield, Ohio. Making rubber tires.....	701,342	June 3	118	24	99	2133
Holt, Benjamin, Stockton, Cal. Traction-engine.....	694,476	Mar. 4	256	58	98	1766
Holt, Charles, Philadelphia, Pa., assignor to Bradley Patent Horse Shoe Company, Incorporated. Manufacture of horseshoe-blanks, &c., from ductile metal.....	713,219	Nov. 11	1430	324 325 326	101	1307
Holt, Henry A., Wilton, N. H. Tonguing and grooving machine.....	698,705	Apr. 29	4395	969 970	99	996
Holt, Henry S. A., assignor to Badische Anilin & Soda Fabrik, Ludwigshafen, Germany. Substituted indoxyl and making same.....	713,437	Nov. 11	1875		101	1299
Holt, Henry S. A., assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Indigo color and making same.....	715,074	Dec. 2	828		101	2005
Holt, John. (See Brooks and Holt.)						
Holt, John. (See Harrison and Holt.)						
Holt, Oliver D., Braman, Okla. Ter. Link-motion block.....	708,924	July 1	1009	219	100	201
Holt, Robert C. (See Stafford and Holt.)						
Holt, Thomas. (See Ellis and Holt.)						
Holt, William, Grand Rapids, Mich. Desk-lid support.....	711,315	Oct. 14	1776	384	101	384
Holt, William C., Oakley, Kans. Applicator.....	716,040	Dec. 16	2581	593	101	2428
Holtan, Henry H., Carogordo, Minn. Egg-candler.....	700,048	May 13	1780	411	99	1554
Holthaus, Johann, Hüllen, assignor to Aktien-Gesellschaft Schalker Gruben-und Hüttenverein, Gelsenkirchen, Germany. Driving device for shafts.....	701,043	May 27	3767	863	99	2002
Holton, Abner L., Norfolk, Va. Note-book.....	700,648	May 20	2974	683	99	1821
Holton, Abner L., Norfolk, Va. Note-book.....	703,259	June 24	3053	840	99	2011
Holton, Abner L., Norfolk, Va. Tablet.....	708,260	June 24	3054	840	99	2011
Holton, Edward T. (See Crane and Holton.)						
Holton, George J., assignor of one-half to G. W. Diehl, Ponca, Okla. Ter. Baby-jumper.....	703,641	Sept. 9	1158	263	100	2227
Holton, Thomas H. (See Gronold, Anders, assignor.)						
Holtz, Gustav, Jamesburg, N. J. Treadle-motor.....	699,171	May 6	78	20	99	1192
Holtz, Gustav, Jamesburg, N. J., assignor to American Dental Manufacturing Company, of New Jersey. Adjustable wall-bracket.....	714,694	Dec. 2	83	17	101	1854
Holtzer-Cabot Electric Company. (See Bliss, Donald M., assignor.)						
Holtzer, Charles W. (See Holland, Newman H., assignor.)						
Holtzman, George H., St. Louis, Mo. Hinge.....	712,797	Nov. 4	629	144	101	1027
Holway, Frank. (See Barron, George F., assignor.)						
Holy, John, Canton, Ohio. Window-sash hinge.....	704,541	July 15	2216	480	100	479
Holzapel, Charles G. (See Carson and Cundell, assignors.)						
Holzhauer, Frederick E., Detroit, Mich. Garbage-receptacle.....	709,983	Sept. 30	3869	871	100	2836
Holzhausen, George. (See Wetherman and Holzhausen.)						
Holzmark, Isaac, St. Louis, Mo. Shoemaker's jack.....	716,896	Dec. 30	4480	971	101	2846
Holzrichter, Firm of Peter. (See Budd, August, assignor.)						
Holzworth, Louis, Brooklyn, assignor to Eagle Pencil Company, New York, N. Y. Pencil and making same.....	708,964	Sept. 9	1798	413	100	2361

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Homan, William C. (See Beck and Homan.)						
Homan, William C., Meriden, Conn. Acetylene-gas generator	713,640	Nov. 18	2291	510	101	1368
Homan, William C., Meriden, Conn. Safety-lock for acetylene-generators	716,419	Dec. 23	3447	732	101	2600
Homer, Frederic C., Stoke-upon-Trent, England. Propulsion of ships.	691,314	Jan. 14	1780	405	98	380
Homestead Valve Manufacturing Company. (See Rylands, James J., assignor.)						
Hommel, George. (See Bausch and Hommel.)						
Homolka, Benno. (See Liebknecht and Homolka.)						
Homolka, Benno, Frankfurt-on-the-Main, assignor to Farbwerke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Purifying raw indigo	702,730	June 17	2643		99	2620
Homolka, Benno, Frankfurt-on-the-Main, and N. Schwan, assignors to Farbwerke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Making phenylamidocetonitrile	701,044	May 27	3769		99	2103
Homolka, Benno, and O. Liebknecht, Frankfurt-on-the-Main, assignors to Farbwerke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Making indoxyl, &c.	704,804	July 15	2681		100	573
Homolka, Benno, Frankfurt-on-the-Main, and F. von Bolzano, assignors to Farbwerke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Making indoxyl	712,798	Nov. 4	630		101	1027
Hon, Nelson, Redline, Iowa. End-gate for wagons	701,884	June 10	1078	244	99	2948
Honey, Albert A., Tacoma, Wash. Electro-magnetic traction-increasing device	714,695	Dec. 2	87	17	101	1855
Honeycutt, Anderson D. (See Parks, Leonard D., assignor.)						
Honeycutt, John, Albany, Tex. Branding-chute	693,798	Feb. 18	2984	659	98	1450
Honiss, William H. (See Lorenz and Honiss.)						
Honiss, William H., et al. (See Arkell, Bartlett, assignor.)						
Honiss, William H., et al. (See Lorenz, William A., assignor.)						
Honiss, William H., Hartford, Conn., assignor of three-fourths to Beech-Nut Packing Company, Canajoharie, N. Y., and W. A. Lorenz, Hartford, Conn. Jar-sealing apparatus	711,210	Oct. 14	1582	340	101	343
Honiss, William H., Hartford, Conn., assignor of three-fourths to Beech-Nut Packing Company, Canajoharie, N. Y., and W. A. Lorenz, Hartford, Conn. Jar-sealing apparatus	711,211	Oct. 14	1584	340	101	344
Honiss, William H., Hartford, Conn., assignor of three-fourths to Beech-Nut Packing Company, Canajoharie, N. Y., and W. A. Lorenz, Hartford, Conn. Jar-sealing apparatus	711,212	Oct. 14	1586	340	101	344
Honrath, Alexander, Reynolds, Ind. Ter. Mechanical toy	708,358	Sept. 2	655	147	100	2114
Honrath, Alexander, Kiowa, Ind. Ter. Puncture-proof inflatable wheel	709,394	Sept. 16	2534	570	100	2539
Honstain, George T. (See Cooley, Fred W., assignor.)						
Honts, George W., assignor of one-third to J. R. Dean, Broken Bow, Nebr. Carburetor	698,953	Apr. 29	4876	1076	99	1162
Hood, Alexander J., Muscoda, Wis. Tinting and delivery attachment for printing-presses	691,863	Jan. 28	2840	638	98	643
Hood, Alexander J., Muscoda, Wis. Delivery mechanism for printing-presses	699,172	May 6	80	21	99	1199
Hood, John H., assignor of one-half to J. G. Donoghue, Philadelphia, Pa. Carpet-sewing machine	713,884	Nov. 18	2742	610	101	1498
Hood, Ralph O., assignor to Simplex Motor Vehicle Company, Danvers, Mass. Fluid-pressure motor-vehicle	691,944	Jan. 28	2986	671	98	673
Hood, Ralph O., assignor to Simplex Motor Vehicle Company, Danvers, Mass. Frame for motor-vehicles	691,945	Jan. 28	2988	671	98	673
Hood, Ralph O., assignor to Simplex Motor Vehicle Company, Danvers, Mass. Valve-gear for engines	694,547	Mar. 4	411	89	98	1798
Hood, William, Hornellsville, N. Y. Exhaust mechanism	713,641	Nov. 18	2293	511	101	1369
Hood, William H. (See Cook and Hood.)						
Hoode, Henry A. (See Paige and Hoode.)						
Hoofnagle, William T. (See Mergenthaler and Hoofnagle.)						
Hook, Alonzo L., assignor of two-thirds to J. R. Hutton, R. K. Long, and R. L. Plunkett, Coffeyville, Kans. Grain-car door	709,325	Sept. 16	2537	571	100	2538
Hook, Arthur S., Ottawa, Ill. Door-hanger	696,142	Mar. 25	3415	767	98	2473
Hook, Charles H. (See Wilson, Howard L., assignor.)						
Hook, Thomas. (See Faith and Hook.)						
Hook, Charles L. C., and M. C. Boca, Cal. Separable square	705,403	July 22	3990	864	100	870
Hooker, Christopher D., et al. (See Linscott, William D., assignor.)						
Hooker, Martin C. (See Hooker, Charles L. F. and M. C.)						
Hooker, Mary D., and W. H. Birchmore, Brooklyn, assignors of one-third to C. A. Collins, New York, N. Y. Incandescent lighting device	690,578	Jan. 7	403	83	98	87
Hooker, William, Woodside, England. Apparatus for regulating the supply of combustible vapor or gas to burners	716,429	Dec. 23	2448	752	101	2605
Hooker, William C., Birmingham, Ill. Animal trap	717,062	Dec. 30	4697	1018	101	2891
Hooker, William D., St. Louis, Mo. Cut-off gear for steam-engines	692,785	Feb. 4	1001	227	98	1002
Hookland, Sibert S., Philadelphia, Pa. Book	693,393	Feb. 18	2228	488	98	1304
Hooley, Thomas, Stockport, assignor to Linotype Company, Limited, London, England. Machine for printing in gold, silver, or other powders	710,693	Oct. 7	563	117	101	116
Hooper, Beekman D., Jamaica, N. Y. Aerating-agitator	708,229	Sept. 2	433	99	100	2070
Hooper, Beekman D., Jamaica, N. Y. Aerating-agitator	716,840	Dec. 23	4967	947	101	2896
Hooper, Frank B. (See Taylor, Isaiah H., assignor.)						
Hooper, John C., assignor to Economy Locomotive Sander Company, Baltimore, Md. Locomotive sanding device	704,097	July 4	1235	266	100	261
Hooper, Louis M. (See Reid and Hooper.)						
Hooper, Louis M., Rutherford, N. J., assignor to J. L. Mott Iron Works, New York, N. Y. Toilet-fixture	711,970	Oct. 28	3062	672	101	680
Hooper, Louis M., Rutherford, N. J., assignor to J. L. Mott Iron Works, New York, N. Y. Washbasin-support	715,268	Dec. 9	1180	251	101	2090
Hooton, James E., et al. (See Patrick, William P., assignor.)						
Hooven, Clinton E., and J. W. See, Hamilton, Ohio. Railway-rail	699,173	May 6	82	21	99	1192
Hoover, Alta L. (See Devore, Francis M., assignor.)						
Hoover, Archie B., Paola, Kans. Dynamite detonating-cap	697,842	Apr. 15	2707	601	99	607
Hoover, Claude V., Chattanooga, Tenn. Whiffletree-hook	707,779	Aug. 26	3466	781	100	1875
Hoover, Daniel S., Allegheny, and F. H. Workman, Freedom, Pa. Railway-switch	717,403	Dec. 30	5447	1382	101	3051
Hoover, Frank K., Kansas City, Mo., and A. J. Mason, Chicago, Ill. Ore-pocket	702,731	June 17	2643	609	99	2600
Hoover, Franklin, Detroit, Mich. Repair-tool	691,055	Jan. 14	1303	295	98	287
Hoover, Franklin, Detroit, Mich. Tone-regulating tool	700,200	May 20	2118	484	99	1644
Hoover & Gamble Company. (See Myers, Richard A., assignor.)						
Hoover, Harrison R. (See Burgess, James C., assignor.)						
Hoover, Horace M., Perryburg, Ohio. Machine for producing wood fiber	709,576	Sept. 23	3070	683	100	2659
Hoover, Horace M., Perryburg, Ohio. Railway-car	711,163	Oct. 14	1470	318	101	321



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Hoover, Horace M., Perrysburg, Ohio. Railway-car	711,164	Oct. 14	1474	319	101	322
Hoover, Ira W., Perrysburg, Ohio. Cutter-head for wood-fiber machines	714,182	Nov. 25	3370	742	101	1645
Hoover, Jacob B. (See Hulise and Hoover.)						
Hoover, Jacob D., assignor of one-fourth to J. T. Fisher, Winchester, Va. Car-coupling.	695,053	Mar. 11	1380	303	98	2021
Hoover, Joseph J. (See Murray and Hoover.)						
Hoover, Leonard C., Clearrun, Ky. Wire fence	706,592	Aug. 12	1095	343	100	1353
Hoover, Monroe S., Newcastle, Ind. Rural-route mail-service apparatus	710,457	Oct. 7	105	319	101	23
Hoover, Thomas J., Carlinville, Ill. Electric signal device	699,841	May 13	1383	330	99	1473
Hope, John, Liverpool, England. Ship's-course-recording apparatus	711,971	Oct. 28	3063	672	101	686
Hope, John T., Kansas City, Mo. Steam-radiator	692,854	Feb. 11	1129	252	98	1055
Hope, John T., Kansas City, Mo. Fan-case for blast-fans	704,038	July 8	1237	266	100	261
Hope, John T., Kansas City, Mo. Pneumatic dust-collector and sweeper	705,585	July 29	4398	954	100	951
Hope-Jones, Robert, Hereford, England, assignor to Hamilton-Foster Fog Signal Company, New York, N. Y. Sound-producing device suitable for sirens, &c.	702,557	June 17	2307	526	99	2620
Hopf, George R. (See McGarity and Hopf.)						
Hopfelt, Robert, Berlin, Germany. Electrode for arc-lamps	700,495	May 20	2717	621	99	1766
Hopfelt, Robert, Berlin, Germany. Electrode for arc-lamps	700,449	May 20	2976	683	99	1821
Hopfner, Michael, Fosston, Minn. Harvester attachment	696,442	Apr. 1	87	20	99	23
Hopkie, William, Muscatine County, Iowa. Tongs	690,860	Jan. 7	935	209	98	197
Hopkins, Adolphe H., Brooklyn, N. Y. Coffee-hulling machine	690,429	Jan. 7	81	17, 18	98	20
Hopkins & Allen Arms Co. (See Elder, Edward H., assignor.)						
Hopkins, Charles M., Union City, and E. H. Dorn, Spartansburg, Pa. Milk-can	705,404	July 22	3991	861	100	857
Hopkins, Clarence F., New York, N. Y., assignor to Elliott & Hatch Book Typewriter Company. Type-writing machine	709,906	Sept. 30	3709	837	100	2802
Hopkins, Eustace W., Berlin, Germany. Rolling machinery	702,303	June 10	1821	416	99	2500
Hopkins, Evan H., South Kensington, England. Retort	701,885	June 10	1079	244	99	2349
Hopkins, Evan H., South Kensington, England. Obtaining zinc	708,044	Sept. 2	92	21	100	2000
Hopkins, Frank, Cincinnati, Ohio. Sapping-machine	698,501	Apr. 29	3934	870	99	896
Hopkins, George W., Cleveland, assignor to Terry Heater Company, Cincinnati, Ohio. Compressed-air-heating apparatus	707,111	Aug. 19	2130	474	100	1586
Hopkins, Harvey L., assignor to Hopkins Patent Company, Chicago, Ill. Cutting apparatus for mowers, reapers, or the like	697,407	Apr. 8	1912	427	99	425
Hopkins, Jeanne, executrix. (See Hopkins, William.)						
Hopkins, John H., Funksutawney, Pa. Pile-driver	705,586	July 29	4402	924	100	932
Hopkins Patent Company. (See Hopkins, Harvey L., assignor.)						
Hopkins, Victoria V. (See Day, St. John, assignor.)						
Hopkins, William, deceased; J. Hopkins, executrix, assignor to Iowa Iron Works Co., Dubuque, Iowa. Compound engine	700,980	May 27	3533	817	99	1957
Hopkins, William, deceased; J. Hopkins, executrix, assignor to Iowa Iron Works Company, Dubuque, Iowa. Steam-boiler	711,860	Oct. 21	2819	624	101	619
Hopkins, William W., St. Louis, assignor of one-half to W. P. H. Turner, Normandy, Mo. Emergency-brake	708,477	Sept. 2	854	195	100	2154
Hopkins, William W., St. Louis, assignor of one-half to W. P. H. Turner, Normandy, Mo. Emergency-brake	708,885	Sept. 9	1649	379	100	2331
Hopkinson, Naaman D., Spokane, Wash. Pneumatic-tube protector	692,446	Feb. 4	396	95	98	880
Hoskinson, Richard O., Waterville, assignor of two-thirds to F. H. Sleeper, Westmount, and North West Shoe Company, Montreal, Canada. Lifting-jack	713,642	Nov. 18	2294	511	101	1399
Hopp, John P. (See Möhrer and Hopp.)						
Hoppe & Homann. (See Erdsiek, Friedrich, assignor.)						
Hoppe, Paul, Berlin, assignor to Norddeutscher Lloyd, Bremen, Germany. Means for operating bulkhead-doors	706,471	Aug. 5	944	206	100	1306
Hopper, Alfred and T. R., assignors to Hopper Powder Gun Company, Highland, N. Y. Dry-compound fire-extinguishing tube	717,200	Dec. 30	5097	1105	101	2977
Hopper, John, Fulham, London, England. Wheel for vehicles	717,404	Dec. 30	5449	1183	101	3051
Hopper, John L., Kirksville, Mo. Ore-roaster	702,004	June 10	1296	296	99	2392
Hopper Powder Gun Company. (See Hopper, Alfred and T. R., assignors.)						
Hopper, Thomas R. (See Hopper, Alfred and T. R.)						
Hoppes, John J., Springfield, Ohio. Rotary sweeper	696,443	Apr. 1	88	20	99	23
Hoppes, John J., Springfield, Ohio. Meter-box connection	690,174	May 6	83	22	99	1193
Hoppes, John J., Springfield, Ohio. Steam-boiler	706,563	Aug. 12	1096	243	100	1353
Hopson, Seymour J., Hopkins, Mo. Photographer's scene-holder	713,765	Nov. 18	2526	502	101	1450
Hora, Karl, Pardubitz, Austria-Hungary. Sectional-conductor electric railway	693,334	Feb. 18	3229	483	98	1304
Hornack, Charles L., New York, N. Y. Wheel	695,334	Mar. 25	2979	674	98	2382
Hornack, Charles L., Brooklyn, assignor to R. M. Williams, New York, N. Y. Wheel	690,756	Jan. 13	1210	282	99	1436
Hornack, Charles L., assignor to R. M. Williams, New York, N. Y. Cycle	706,058	Aug. 5	107	23, 24	100	1139
Horak, Josef, Königswinter, Germany. Fireproof lime sandstone	712,739	Nov. 4	630		101	1027
Hordish, Katie, Danville, Va. Nut-cracker	706,179	Aug. 5	347	74	100	1187
Horez, Otto, Dresden, Germany. Draft-regulator for locomotives	702,005	June 10	1297	297	99	2392
Horger, John M. (See Horger, Simon D. and J. M.)						
Horger, Simon D. and J. M., Newton, Tex. Mud or sand band for vehicles	701,343	June 3	121	25	99	2134
Horizontal Swing Co. (See Olson, Olof R., assignor.)						
Horiacher, Adam S., Indianapolis, Ind. Loom	710,458	Oct. 7	107	24, 25	101	23
Horiacher, Adam S., Indianapolis, Ind. Twisting and winding machine	710,459	Oct. 7	111	25	101	24
Hornby, John, Woonsocket, R. I. Stenciling-machine for buttons	705,084	July 22	3288	713	100	715
Hornby, John, Woonsocket, R. I. Stencil-carrier for button-stenciling machines	705,085	July 22	3292	714	100	716
Hornby, John, Woonsocket, R. I. Pigment-spraying mechanism for button-stenciling machines	705,086	July 22	3295	716	100	716
Hornby, John, Woonsocket, R. I. Grip-carrier for button-making machines	707,326	Aug. 19	2539	571	100	1672
Hornby, John, Woonsocket, R. I. Locking device for work-carriers	707,327	Aug. 19	2541	571	100	1672
Hornby, John, Woonsocket, R. I. Segmental gear for button-making machines	707,328	Aug. 19	2542	572	100	1672
Hornby, John, Woonsocket, R. I. Button-feeding mechanism	707,329	Aug. 19	2544	573	100	1673
Hornby, John, Woonsocket, R. I. Spindle adjustment for button-making machines	707,330	Aug. 19	2546	574	100	1673
Hornby, John, Woonsocket, R. I. Button-polishing machine	708,768	Sept. 9	1396	819	100	2378
Hornby, John, Woonsocket, R. I. Stencil-punch	711,972	Oct. 28	3065	673	101	687
Horn, Ferdinand, Coshocton, Ohio. Coal-pick	704,039	July 8	1239	266	100	261
Horn, Frank O. (See Blair and Horn.)						
Horn, Friedrich. (See Hroneck, Josef, assignor.)						
Horn, George A. (See Fisher, Charles, assignor.)						
Horn, Joel E., Las Animas, Colo. Breachy-cattle yoke	713,438	Nov. 11	1876	425	101	1299

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Horn, Joseph, Philadelphia, Pa. Attachment for plumbers' pumps	703,657	July 1	515	115 116	100	101
Horn, Walter. (See Stewart and Horn.)						
Hornaday, Edson, assignor of two-fifths to G. W. Shanafelt, Colfax, Iowa. Computing measuring-cabinet	696,564	Apr. 1	307	72	99	69
Hornbrook, Raymond H., Canton, Ohio. Feed-water heater	704,879	July 15	2818	609	100	608
Hornbrook, Raymond H., Canton, Ohio. Car-truck bolster	710,978	Oct. 14	1088	241	101	238
Hornbrook, Raymond H., Canton, Ohio. Car-body bolster	712,800	Nov. 4	631	144	101	1027
Hornbrook, Raymond H., Canton, Ohio. Car end sill	715,075	Dec. 2	829	176	101	2005
Hornbrook, Raymond H., Philadelphia, Pa., and W. H. Woodcock, Canton, Ohio. Metallic railway-car	707,416	Aug. 19	2702	612	100	1706
Hornbrook, Raymond H., and W. H. Woodcock, Canton, Ohio. Street-car truck	709,406	Sept. 16	2710	607	100	2571
Hornbrook, Raymond H., and W. H. Woodcock, Canton, Ohio. Truck for street-cars	711,861	Oct. 21	2824	625	101	620
Horne, George A., Syracuse, N. Y. Recoil-operated firearm	690,955	Jan. 14	1102	249	98	246
Horne, James. (See Dawson and Horne.)						
Horne, John E. (See Barrett and Horne.)						
Horne, Thomas F., Denver, Colo. Locking-brace for buggy-tops	710,273	Sept. 30	4413	994 995	100	2953
Horner, Albert, Paauilo, Hawaii. Cane-loader	694,548	Mar. 4	412	90	98	1800
Horner, Albert, Paauilo, Hawaii. Cultivating-plow	709,601	Sept. 23	3113	693	100	2668
Horne, John W., Des Moines, assignor to McNeely Brothers, Marshalltown, Iowa. Metal door-mat. (Reissue)	11,985	May 18	2090	468	99	1603
Horney, Odus C. U. S. Army. Locking-catch for extendible sight-bars	711,213	Oct. 14	1587	340	101	344
Horning, John O. (See Carrell, Wilber A., assignor.)						
Hornung, Charles G., and H. Wolf, Buffalo, N. Y. Forming bail-ears on sheet-metal vessels	694,644	Mar. 4	586	129	98	1836
Hornung, Charles W., Jersey City, N. J., assignor to himself, S. R. and H. J. Knapp, Brooklyn, N. Y. Moving trains	701,045	May 27	3769	864	99	2003
Horr, George E., Norway Lake, Me. Cattle-stall	704,643	July 15	2378	515	100	512
Horr, Henry H., Chicago, Ill. Shirt-neckband-expanding ring	716,548	Dec. 23	3713	809	101	2637
Horris, John T., New York, N. Y. Animal-tie	694,279	Feb. 25	3935	876	98	1668
Horrocks Desk Company. (See Horrocks, William, assignor.)						
Horrocks, James, Manchester, England. Mechanism for converting motion	707,112	Aug. 19	2131	475	100	1586
Horrocks, William, assignor to Horrocks Desk Company, Herkimer, N. Y. Type-writer cabinet	696,565	Apr. 1	310	73	99	70
Horsfield, E. Emma. (See Horsfield, John, assignor.)						
Horsfield, John, Chicago, Ill. Window-opener	705,405	July 22	3993	865	100	857
Horsfield, John, Chicago, Ill. Window	705,999	July 29	5141	1121	100	1101
Horsfield, John, assignor to E. E. Horsfield, Chicago, Ill. Door-check	693,021	Feb. 11	1472	322	98	1129
Horsfield, John, assignor to E. E. Horsfield, Chicago, Ill. Ventilator	693,022	Feb. 11	1473	322	98	1129
Horsley, James, assignor of one-half to J. B. Gregory, Glade Mills, Pa. Coupling for connecting-rods	703,925	July 1	1010	220	100	201
Horsley, James, assignor of one-half to J. B. Gregory, Glade Mills, Pa. Oil-well pump	710,778	Oct. 7	738	157	101	151
Horsting, Bernard F. (See Stein, Peter, assignor.)						
Horstmann, Richard, and W. Wendt, Berlin, Germany. Type-writing machine.	699,325	May 6	370	87	99	1249
Horter, Hiram, Jr. (See Fleming, Joseph W., assignor.)						
Horton, Charles P., Birmingham, England. Tubular condenser and water-heater	690,729	Jan. 7	715	158	98	150
Horton, Doc G., and M. Nicholson, Attalla, Ala. Nut-lock	711,704	Oct. 21	2514	552	101	554
Horton, Emmet, Elmira, N. Y. Mechanical movement	697,342	Apr. 8	1774	397	99	397
Horton, Everett, Bristol, Conn. Tire for wheels	710,274	Sept. 30	4414	965	100	2353
Horton, Peter D., assignor of two-thirds to J. M. Espencheid, Newark, N. Y. Toy air-gun	710,359	Sept. 30	4560	1028	100	2983
Horton, Peter D., assignor of one-half to E. V. Feirson, Newark, N. Y. Device for draining pens	711,316	Oct. 14	1777	384	101	385
Horton, Peter D., assignor of two-thirds to J. M. Espencheid, Newark, and J. Cooper, New York, N. Y. Device for blowing bubbles	693,395	Feb. 18	2230	489	98	2005
Horton, Robert O., <i>et al.</i> (See Hughes, Robert D., assignor.)						
Horton, Wright, Peekskill, N. Y. Fish-line reel	715,076	Dec. 2	831	176	101	1304
Hortter, John J., <i>et al.</i> (See Rooney, Henry F., assignor.)						
Hosea, Lewis M., Cincinnati, Ohio. Screw-press	694,861	Mar. 4	1006	222	98	1925
Hosea, Lucy K., Cincinnati, Ohio. Carbon-oil heater	699,502	Apr. 29	3935	870	99	896
Hosford, Calvin R., assignor of one-half to F. A. Burnham and E. A. Kenyon, Hartford, Conn. Tobacco-hanger	713,101	Nov. 11	1210	277	101	1162
Hosford, Charles S. (See Handy and Hosford.)						
Hosken, William F. (See House and Hosken.)						
Hoskins, George J., Sydney, New South Wales, Australia. Machine for making cylindrical cores for casting	696,045	Mar. 25	3190	720	98	2426
Hoskins, George J., Sydney, New South Wales, Australia. Apparatus for making cores.	699,175	May 6	85	22	99	1193
Hoskins, George J., Ultimo, New South Wales, Australia. Tool for smoothing gravel paths	717,008	Dec. 30	4698	1018	101	2891
Hosmer, George H., Niagara Falls, N. Y., and E. W. Anderson, Washington, D. C. Reminding device	703,066	June 24	3296	758	99	2830
Hosfield, William, Wichita, Kans. Trunk	711,214	Oct. 14	1588	341	101	345
Hosstetter, Benjamin D., <i>et al.</i> (See Livingood, Thomas, assignor.)						
Hosstetter, Clayton N. (See Morrow, Isaac, assignor.)						
Hotchkiss, Arthur E., assignor to M. Hanse, New York, N. Y. Ellipsograph	696,046	Mar. 25	3191	720 721	98	2426
Hotchkiss, Henry S. (See Pearce, John H., assignor.)						
Hotchkiss, Hiram G., Lyons, N. Y. Beet-harvester	706,416	Aug. 5	838	183	100	1283
Hotel Security Checking Company. (See Hicks, John T., assignor.)						
Hothan, August, Brooklyn, assignor to John Kroder & Henry Reubel Co., New York, N. Y. Curtain-pole ring	695,313	Mar. 11	1864	415	98	2120
Hott, Charles E., Columbus, Ohio. Oiling device	713,439	Nov. 11	1877	425	101	1299
Hottman, Charles W. (See Lippert and Hottman.)						
Hotz, Henry P. (See Good, Thomas L., assignor.)						
Houder, Martin L., Fort Wayne, Ind. Angle-cock for air-brake mechanism	706,059	Aug. 5	117	24	100	1141
Houdyshell, Aaron C., Tama, Iowa. Shock-loading apparatus	702,796	June 17	2766	636 637	99	2716
Houdyshell, Aaron C., Tama Township, Iowa. Shock-loader	708,045	Sept. 2	93	21	100	2000
Houé, Alfred, Rennes, France. Rolling-skate	698,381	Apr. 22	3553	783	99	801
Houf, John, Schenectady, N. Y. Saw-setting machine	693,970	Feb. 25	3342	734 735	98	1548
Hough, Franklin H., <i>et al.</i> (See Dunham, William L., assignor.)						
Hough, Samuel. (See Adams and Hough.)						
Hough, William J., Albany, N. Y. Catch-basin for sewers	699,176	May 6	86	22, 23	99	1193
Houghland, Frank H., St. Louis, Mo. Box	695,537	Mar. 18	2292	518	98	2228
Houghtaling, Paul A., Riverton, N. J. Clutch. (Reissue)	12,030	Sept. 9	1837	423	100	2370



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Houghtaling, Paul A., Riverton, N. J. Clutch.....	709,771	Sept. 23	3429	771	100	2731
Houghtaling, Paul A., Riverton, N. J. Clutch.....	716,041	Dec. 16	2683	593	101	2428
Houghton, Alanson B., assignor to Corning Glass Works, Corning, N. Y. Manufacture of lantern globes.....	717,501	Dec. 30	5619	1220	101	3085
Houghton, Charles E. (See Giorgio, Francis A., assignor.)						
Houghton, Elijah M., assignor to Parke, Davis & Company, Detroit, Mich. Vaccinating-tool.....	715,661	Dec. 9	1911	427	101	2244
Houghton, George F. C., Chicago, Ill. Flat-opening loose-leaf ledger.....	716,232	Dec. 16	3079	672	101	2511
Houghton, Willard, Novelty, Wash. Conduit.....	687,465	Apr. 15	2064	456	99	473
Houlhan, John J., Chicago, Ill. Metal plinth-block.....	709,220	Sept. 16	2326	527	100	2409
Hour, Charles, Paris, France. Self-winding clock.....	708,886	Sept. 9	1651	379	100	2382
Housberg, John W., Pittsburg, Pa. Door-strip.....	695,054	Mar. 11	1382	303	98	2021
House, Arthur G., Belton, Mo. Transmitting and receiving tube for auricular instruments.....	690,430	Jan. 7	83	18	98	20
House, Charles A. and J. J., Keewatin, assignors of one-third to S. S. Cummins, Rat Portage, Canada. Grain-door.....	716,546	Dec. 23	3715	809	101	2657
House, George E., Kansas City, Mo. Hernal truss.....	714,305	Nov. 25	3606	763	101	1093
House, Henry A., Jr., Hampstead, England. Automatic fuel-regulator.....	696,638	Apr. 1	442	103	99	95
House, Henry A., Jr., Hampstead, England. Friction-brake.....	707,232	Aug. 19	2355	528	100	1635
House, James J. (See House, Charles A. and J. J.)						
House, Samuel N., Dallas, Tex. Cold-tire-shrinking machine.....	690,523	Jan. 7	306	61	98	67
House, Will A., and W. F. Hosken, Covington, Ky. Wheelbarrow.....	705,106	July 22	3994	865	100	858
House, William, Syracuse, N. Y. Car-brake.....	707,391	Aug. 19	2547	574	100	1674
Household Manufacturing Company. (See Bierley, Henry A., assignor.)						
Houseman, Harry A., Philadelphia, Pa., assignor to Standard Machine Company. Circular-knitting machine.....	694,382	Mar. 4	84	19,20	98	1729
Houseman, James D. (See Frederick, Edward P., assignor.)						
Houseman, James H., Conrad, Iowa. Rotary engine.....	696,047	Mar. 25	3194	721	98	2427
Houser & Haines Manufacturing Company. (See Haines, George W., assignor.)						
Houser, Harley H., and S. C. Gorman, Peabees, Ohio. Mail-bag catcher.....	710,866	Oct. 7	892	194	101	181
Housh, Frank E., Winthrop, Mass. Frame and calendar.....	715,479	Dec. 9	1576	341	101	2175
Houston, David H., Hunter, N. D. Folding support for cameras.....	694,862	Mar. 4	1008	222	98	1926
Houston, David H., Hunter, N. D. Roll-holding camera.....	694,910	Mar. 4	1122	247	98	1919
Houston, David H., Hunter, N. D. Camera.....	694,920	Mar. 4	1124	247	98	1949
Houston, David H., Hunter, N. D. Daylight-loading photographic-roll holder.....	694,921	Mar. 4	1126	247	98	1950
Houston, David H., Hunter, N. D. Roll-holding photographic camera.....	694,922	Mar. 4	1127	248	98	1950
Houston, David H., Hunter, N. D. Panoramic photographic camera.....	694,923	Mar. 4	1129	248	98	1951
Houston, David H., Hunter, N. D. Roll-holding camera.....	694,924	Mar. 4	1130	248	98	1951
Houston, David H., Hunter, N. D. Folding roll-holding camera.....	694,925	Mar. 4	1131	248	98	1951
Houston, David H., Hunter, N. D. Daylight-loading photographic-roll holder.....	694,926	Mar. 4	1133	249	98	1951
Houston, David H., Hunter, N. D. Daylight-loading photographic-roll holder.....	694,927	Mar. 4	1134	249	98	1952
Houston, David H., Hunter, N. D. Folding roll-holding photographic camera.....	694,928	Mar. 4	1136	249	98	1952
Houston, David H., Hunter, N. D. Folding panoramic camera.....	694,929	Mar. 4	1137	249	98	1953
Houston, David H., Hunter, N. D. Photographic-roll holder.....	694,930	Mar. 4	1139	250	98	1953
Houston, David H., Hunter, N. D. Photographic-roll holder.....	700,120	May 13	1898	441	99	1578
Houston, Edwin J. (See Thomson and Houston.)						
Houston, Eli, Morrow, assignor of one-half to W. B. Hayner, South Lebanon, Ohio. Apparatus for separating silk from green corn.....	694,017	Feb. 25	949	761	98	1570
Houston, John, Sunderland, England. Means for driving shuttles of looms.....	703,419	July 1	377	21	100	22
Houston, Preston C. (See Gatrell, Otmarr A., assignor.)						
Houtz, John W., Republic, Mo. Water-wheel.....	705,087	Oct. 22	3299	717	100	717
Houy, Nicholas, Jr., Munnhall, Pa. Water-cooled door.....	712,678	Nov. 4	398	94	101	90
Houze, Luc, Hartford City, Ind. Glass-tank.....	704,040	July 8	1240	267	100	261
Hovander, August S. (See Emerson and Hovander.)						
Hove, Gustave, Belfast, Ireland. Loom-jacquard.....	711,499	Oct. 21	2119	460	101	470
Hove, Ole, Elpasoo, Wis. Engine valve-gear.....	705,088	July 22	3300	717	100	717
Hover, Albert H., assignor to Handy Window Shade Adjuster Company, Cincinnati, Ohio. Catch-pulley.....	711,570	Oct. 21	2258	490	101	500
Hover, Jess C., Binghamton, N. Y. Folding box.....	700,049	May 13	1781	412	99	1554
Hovey, Charles C. (See Lees, George, assignor.)						
Hovey, John J., et al. (See Eberstein, John G., assignor.)						
How, William S., assignor of one-half to G. L. Johnson, London, England. Resonator or amplifier for phonographs.....	709,984	Sept. 30	3870	872	100	2836
Howard, Archibald, and C. F. Leitch, Ogdensburg, N. Y. Releasing hitching-strap.....	701,268	May 27	4171	958	99	2084
Howard, Aurelius, Wadsworth, Ohio. Rail-joint.....	711,862	Oct. 21	2895	625	101	621
Howard and Boulough American Machine Company. (See Riley, Charles E., assignor.)						
Howard, Charles P., Hartford, Conn. Latch.....	696,176	Mar. 25	3478	779	98	2485
Howard, Clarence H. (See Schaffer and Howard.)						
Howard, Clarence W., Kirkwood, Ill. Tripod or stand.....	697,146	Apr. 8	1437	321	99	326
Howard, Clarence W., Kirkwood, Ill. Tripod or stand.....	697,147	Apr. 8	1439	322	99	326
Howard, Duane. (See Palmer and Phelps, assignors.)						
Howard, Edward J., New York, N. Y., assignor to E. W. Brunsen and F. S. Sweet, Providence, R. I. Toy gun.....	716,547	Dec. 23	3717	809	101	2658
Howard, Frank B., assignor to Lafin & Rand Powder Company, New York, N. Y. Apparatus for manufacturing closed vessels of pulp.....	708,642	Sept. 9	1160	263	100	2228
Howard, Frank B., assignor to Lafin & Rand Powder Company, New York, N. Y. Apparatus for the manufacture of closed vessels from pulp.....	710,101	Sept. 30	4080	923	100	2882
Howard, Frank B., assignor to Lafin & Rand Powder Company, New York, N. Y. Apparatus for manufacturing closed vessels from pulp.....	710,694	Oct. 7	564	118	101	116
Howard, Frank B., assignor to Lafin & Rand Powder Company, New York, N. Y. Apparatus for making closed vessels from pulp.....	711,165	Oct. 14	1477	320	101	323
Howard, Frank W., assignor to X. Stoutenborough, Brooklyn, N. Y. Pump for fluid-tanks.....	694,645	Mar. 4	587	129	98	1837
Howard, Frank W., assignor to X. Stoutenborough, Brooklyn, N. Y. Filling-nozzle for fluid-holding tanks.....	696,736	Apr. 1	616	146	99	139
Howard, Frederick. (See Bentonson, Hans J., assignor.) (Reissue.)						
Howard, Frederick T. (See Booraem and Howard.)						
Howard, Geoffrey, and G. Gibbs, Bedford, England. Mechanical stoker.....	704,880	July 15	2820	610	100	603
Howard, George B., and J. Langhart, Jr., McKeesport, Pa. Wrench.....	696,679	Apr. 1	534	123	99	116
Howard, George E., Washington, D. C. Label.....	702,350	June 10	1915	437	99	2518
Howard, George E., Washington, D. C. Label-affixing device.....	707,730	Aug. 26	3467	781	100	1880
Howard, George E., Washington, D. C. Label-affixer.....	707,781	Aug. 26	3468	782	100	1880
Howard, George E., Washington, D. C. Label-holder.....	707,782	Aug. 26	3470	782	100	1880

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Howard, George E., Washington, D. C. Label.....	709,326	Sept. 16	2539	571	100	2537
Howard, George E., Washington, D. C. Label-affixer.....	710,867	Oct. 7	894	194	101	171
Howard, George E., Washington, D. C. Label.....	714,485	Nov. 25	8917	866	101	1703
Howard, Gibson, <i>et al.</i> (See Norfolk, Napoleon B., assignor.)						
Howard, Harry E., Chicago, Ill. Curtain-stretcher.....	699,685	May 13	1075	251	99	1417
Howard, Harry E., Chicago, Ill. Foldable trestle.....	702,431	June 17	2080	474	99	2522
Howard, Hazen S., Leominster, Mass. Window-platform.....	690,579	Jan. 7	405	84	98	8
Howard, Henry E. and G. Hadley, Halesowen, near Birmingham, England. Treatment of spent acid from galvanizing-works.....	715,804	Dec. 16	2206		101	2321
Howard, Henry G. M., Kalamazoo, Mich. Elastic steel spoke for vehicle-wheels.....	706,659	Aug. 12	1278	282	100	1332
Howard, Iron Works. (See Darrin and Dollar, assignors.)						
Howard, James B., Indianapolis, Ind. Heating-stove.....	710,460	Oct. 7	114	25, 26	101	25
Howard, James H., assignor of one-third to H. G. Harris, Kansas City, Kans. Burglar-alarm.....	707,513	Aug. 19	2864	650	100	1741
Howard, John W. (See Van Leer, John S., assignor.)						
Howard, Leonard D., St. Johnsbury, Vt. Drop-hammer.....	709,577	Sept. 23	3075	684	100	2610
Howard, Lincoln, Savannah, Mo. Heating-stove.....	704,331	July 8	1738	302	100	376
Howard, Lyman D., assignor to J. A. Jeffrey, Columbus, Ohio. Chain.....	702,874	June 17	2910	673	99	2746
Howard, William H., Pueblo, Colo. Furnace-feeding apparatus.....	705,246	July 22	3654	791	100	710
Howard, William J., Louisville, Ky. Food product and preparing same.....	692,667	Feb. 4	800		98	90.3
Howarth, Fred A., Johnstown, assignor of one-half to H. L. Shaver, Cohoes, N. Y. Underground-trolley system.....	707,501	Aug. 26	3047	685 686	100	1794
Howbert, Charles W., Cripplecreek, Colo. Dumping device.....	713,220	Nov. 11	1431	321	101	1207
Howd, Charles B., assignor to Sahlin Corset Company, Chicago, Ill. Garment-closure.....	695,305	Mar. 11	1993	446	98	2148
Howd, Charles B., assignor to Sahlin Corset Company, Chicago, Ill. Garment-closure.....	702,919	June 24	3066	706	99	2793
Howden, James, Glasgow, Scotland. Steam-superheater.....	695,202	Apr. 22	3419	732	99	774
Howden, James H., <i>et al.</i> (See McKone, William, assignor.)						
Howe, Albert W., Derby, assignor of one-half to Shelton Company, Shelton, Conn. Feed mechanism for plates or strips.....	713,885	Nov. 18	2745	611	101	1495
Howe, Allyn E., New York, N. Y. Speed-regulator for rotary shafts.....	703,261	June 24	2655	840 841	99	2911
Howe and Davidson Company. (See Carrier and Low, assignors.)						
Howe, Elbridge G., Millbury, Mass. Swinging crate for bottles or carboys.....	693,020	Feb. 11	1471	321	98	1129
Howe, Elbridge G., Millbury, Mass. Apparatus for grinding bottles and their caps.....	712,679	Nov. 4	399	94	101	981
Howe, Eugene L., assignor to Michigan Washing Machine Company, Muskegon, Mich. Washing-machine.....	711,317	Oct. 14	1779	384	101	385
Howe, Harry, <i>et al.</i> (See Kuehn, Paul, assignor.)						
Howe, Henry R., assignor of one-half to H. W. Carmichael, Rockford, Ill. Milk or cream deodorizer.....	709,093	Sept. 16	2087	478	100	2140
Howe, Henry R., assignor of one-half to H. W. Carmichael, Rockford, Ill. Deodorizing milk or cream.....	709,094	Sept. 16	2089	479	100	2141
Howe, Hezekiah, Olean, N. Y. Land-pulverizer.....	702,850	June 17	2886	667 668	99	2741
Howe, Hezekiah, Olean, assignor of one-half to F. F. Harris, Scio, N. Y. Antifriction roller-bearing.....	700,231	May 20	2119	484 485	99	1045
Howe, Homer W., Chicago, Ill. Register.....	693,604	Feb. 18	2644	583	98	1399
Howe, James H., Buffalo, N. Y. Trousers-hanger.....	706,080	Aug. 5	119	24	100	1141
Howe, John B., Windber, Pa. Envelop.....	706,417	Aug. 5	841	417	100	1288
Howe, John B., and J. J. Fernandez, Danbury, Conn. Bicycle.....	703,129	June 24	3418	784 785	99	2864
Howe, John C., assignor of eleven-twentieths to D. M. Moroney, J. Wohlfeld, J. M. Kaminsky, and I. Bachrach, Indianapolis, Ind. Machine for assembling links in making chain belts.....	705,842	July 29	4862	1056	100	1044
Howe, Maynard L., Stockton, Cal. Self-adjuster for threshers.....	704,084	Apr. 8	1340	329	99	1306
Howe, Samuel P., and S. M. Vaulain, Jr., Ithaca, N. Y. Apparatus for compressing air.....	694,280	Feb. 25	3936	876	98	1008
Howe, Thomas J., Owatonna, Minn. Combined churn and butter-worker.....	700,775	May 27	3269	749	99	1001
Howe, William D. (See Fowler and Howe.)						
Howell, William B. (See White, Frank L., assignor.)						
Howell, Charles W., Jr., Newark, N. J. Type-writing machine.....	705,587	July 29	4403	955	100	932
Howell, Charles W., Jr., Newark, N. J., assignor to Wagner Typewriter Company, New York, N. Y. Carriage-feed mechanism for type-writing machines.....	702,950	June 24	3369	706 707	99	2794
Howell, Charles W., Jr., Newark, N. J., assignor to Wagner Typewriter Company, New York, N. Y. Line-spacing mechanism for type-writers.....	712,538	Nov. 4	150	36	101	929
Howell, Edward M., assignor to himself and P. B. Thurnes, Denver, Colo. Delivery-table for printing-presses.....	696,818	Apr. 1	797	182	99	109
Howell, Edward W., assignor to H. L. May, New York, N. Y. Refrigerating apparatus.....	702,062	June 10	1425	320 321	99	2419
Howell, Israel G., assignor of one-half to M. Di Puglia, Hopewell, N. J. Ice-sandal for flat horseshoes.....	707,417	Aug. 19	2704	612	100	1707
Howell, James C., Goshen, N. Y., assignor to Dairymen's Manufacturing Company. Closure for milk-cans.....	714,376	Nov. 25	3729	821	101	1718
Howell, Jenkin, and S. J. Drew, Joliet, Ill. Treating metal plate.....	713,446	Nov. 11	1878	425	101	1299
Howell, John, Schaller, Iowa. Manure-distributor.....	705,929	July 29	5022	1094	100	1076
Howell, John W., Newark, N. J., assignor to General Electric Company. Cut-out.....	717,201	Dec. 30	5098	1105	101	2077
Howell, Martin H., Melrose, Mass., assignor to New England Telephone and Telegraph Company. Composite electric circuit.....	706,318	Aug. 5	684	138	100	1244
Howell, Martin H., Melrose, Mass., assignor to New England Telephone and Telegraph Company. Telephone-circuit.....	706,319	Aug. 5	636	139	100	1244
Howell, Orange D., assignor of one-half to O. Watts, Goshen, Ind. Carbureting-lamp.....	714,696	Dec. 2	89	17	101	1856
Howell, William, Brooklyn, N. Y. Child's teething-nipple.....	699,757	May 13	1213	282	99	1437
Howells, Charles, New York, N. Y. Vehicle wheel and tire.....	691,467	Jan. 21	2090	468	98	470
Howenstein, Franklin. (See Grey, Sylvester P., assignor.)						
Hower, Aten B., Logan, Utah. Steam-cooker.....	691,380	Jan. 21	1936	435	98	437
Hower, Jeremiah M., Jr. (See Beeger, Bastian W., assignor.)						
Howes, Charles F., Cambridge, assignor to Electric Gas Lighting Company, Boston, Mass. Attachment plug.....	693,864	Feb. 25	3130	693	98	1507
Howes, Omar C., assignor to Cortland Carriage Goods Company, Cortland, N. Y. Propelling and brake mechanism for vehicles.....	696,975	Apr. 8	1139	253 254	99	202
Howie, James F. (See Patrick, Marcus C., assignor.)						
Howieson, John T., New York, N. Y., assignor of one-half to F. Spiekerman, Philadelphia, Pa. Calculating-machine.....	712,381	Oct. 28	3790	829 830 831	101	833
Howland, Adda T., <i>et al.</i> (See Harris, William L., assignor.)						
Howland, Chauncey W., Geneva, N. Y., assignor to Standard Optical Company. Machine for marking or cutting lenses.....	701,046	May 27	3770	864	99	2008



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Howland, Chauncey W. (See Bowker, Long, and Howland.)						
Howland, Edwin, Boston, Mass. Stop and waste for water-pipes	703,262	June 24	3658	841	99	2912
Howland, Frank E., Peoria, Ill. Valve	694,477	Mar. 4	359	58	98	1767
Howland, Matthew M., Providence, R. I. Pliers	707,418	Aug. 19	2705	612	100	1707
Howland-Sherman, Charles H., assignor of one-fourth to G. H. Howard, Washington, D. C., and S. G. B. Cook, London, England. Main gun-turret	697,843	Apr. 15	2708	601 602 603	99	607
Howland-Sherman, Charles H., Washington, D. C., assignor to Howland-Sherman Manufacturing Company, Wilmington, Del., and Baltimore, Md. Column capital and attachment	712,299	Oct. 28	3653	797	101	803
Howland-Sherman Manufacturing Company. (See Howland-Sherman, Charles H., assignor.)						
Howles, John B., Sugargrove, Pa. Spring-hinge	701,344	June 3	122	25	99	2134
Hoxie, George L., assignor of two-thirds to D. Metcalf, Adrian, Mich. Voting-machine	700,931	May 27	3556	818 819	99	1957
Hoxie, George L., assignor of two-thirds to D. Metcalf, Adrian, Mich. Voting-machine	715,805	Dec. 16	2207	493	101	2324
Hoy, Ermia L., assignor of one-half to C. Ridgway, Leroy, Iowa. Combined velocipede and wagon	704,041	July 8	1242	267	100	261
Hoy, George O., and J. J. Peifer, Shamokin, Pa. Nut-lock	698,837	Apr. 29	4680	1031	99	1061
Hoyer, Julius H., Aalborg, Denmark. Fastening for doors or such like	698,282	Apr. 22	3554	783	99	802
Howland, Fredrick, Jr. (See De May and Howland.)						
Hoyle, William H., and T. Barker, Bolton, England. Carding-machine	708,046	Sept. 2	95	22	100	2001
Hoyos, George, Flume, Austria-Hungary. Submerged broadside apparatus for discharging torpedoes	713,985	Nov. 18	2951	654	101	1538
Hoyt, Arthur S., Brooklyn, N. Y. Adhesive	709,544	Sept. 23	3019		100	2648
Hoyt, Arthur S., Brooklyn, N. Y. Utilizing by-products of the manufacture of starch	710,461	Oct. 7	115	26	101	25
Hoyt, Daniel, South Norwalk, Conn., assignor of one-half to National Lock Washer Company, Newark, N. J. Sash-lock	696,819	Apr. 1	799	182	99	169
Hoyt, Daniel, South Norwalk, Conn., assignor of one-half to National Lock Washer Company, Newark, N. J. Lock-case	696,820	Apr. 1	800	183	99	169
Hoyt, Edwin C., et al. (See Holdsworth, Frederic, assignor.)						
Hoyt, Edwin C., et al. (See McClintock, Frank, assignor.)						
Hoyt, Edwin C., et al. (See McClintock and Holdsworth, assignors.)						
Hoyt, Edwin C., et al. (See Watson, John, assignor.)						
Hoyt, Elva, et al. (See Winckfield, George W., assignor.)						
Hoyt, H. H., et al. (See Winckfield, George W., assignor.)						
Hoyt, John C., Richmond, Mo. Stovepipe attachment	709,545	Sept. 23	3019	672	100	2648
Hoyt, Robert S., East Orange, N. J. Buttonhole attachment for garments	716,421	Dec. 23	3450	752 753	101	2602
Hoyt, Will F., Dowagiac, Mich. Grain-drill	709,636	Sept. 23	3169	707	100	2679
Hoyt, Will F., and D. B. Saltsman, Dowagiac, Mich. Grain-drill	709,637	Sept. 23	3170	707	100	2679
Hoyt, William H., Wyoming, assignor to Burt Company, Milburn, N. J. Game-ball	690,861	Jan. 7	936	209	98	197
Hoyt, William H., Wyoming, assignor to Burt Company, Milburn, N. J. Game-ball and making same	695,153	Mar. 11	1573	349	98	2062
Hrbacek, Joseph. (See McDonner, Charly, assignor.)						
Hrebicek, Apollinaris, Bingerbrück, Germany. Subterranean current transmission for electric tramways or railways	691,381	Jan. 21	1938	436	98	438
Hronecek, Josef, assignor to F. Horn, Worms, Germany. Apparatus for coating metallic articles	714,697	Dec. 2	91	18	101	1856
Huard, Edward F., Springfield, Mo. Means for automatically closing swinging doors	706,945	Aug. 12	1815	406	100	1504
Hub Two Speed Gear Company. (See Pellant, Alfred, assignor.)						
Hubbard, Albert S., Greenwich, Conn. Electrical position-indicator	708,478	Sept. 2	856	195	100	2155
Hubbard, Cleveland C., Lafayette, Ind. Roller-bearing	699,466	May 6	648	149	99	1310
Hubbard, Eber, Chicago, Ill. Spool and producing same	697,408	Apr. 8	1915	427	99	425
Hubbard, Frank W., assignor to American Clock Company, Chicago, Ill. Time-stamp	717,405	Dec. 30	5450	1183	101	3051
Hubbard, William W., Manchester, N. H. Elevator-operating mechanism	706,826	Aug. 12	1602	390	100	1462
Hubbell, Drusilla, et al. (See Hubbell, Thomas J., assignor.)						
Hubbell, Grier Electric Company. (See Hubbell, Harvey, assignor.)						
Hubbell, Harvey, Bridgeport, Conn. Switch-cluster-operating device	701,269	May 27	4172	958	99	2065
Hubbell, Harvey, assignor to Hubbell, Grier Electric Company, Bridgeport, Conn. Pull-socket	693,799	Feb. 18	2986	660	98	1459
Hubbell, Joseph H., assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Cage-press	697,251	Apr. 8	1624	364	99	365
Hubbell, Thomas J., Pomona, assignor of one-half to R. M. Furlong, Pasadena, Cal. Sub-soil-plow	712,680	Nov. 4	401	94	101	981
Hubbell, Thomas J., assignor to D. Hubbell and W. H. Ames, Watsonville, Cal. Protecting trees	691,546	Jan. 21	2221	499	98	496
Hubbell, Thomas J., assignor to H. C. Norris, C. E. Norton, and D. Hubbell, Los Angeles, Cal. Thill-coupling	702,951	June 24	3076	707	99	2795
Hubbell, William W., et al. (See Richardson, George W., assignor.)						
Huber, Carl, Carlsruhe, assignor to Gesellschaft für Huberpressung Gesellschaft mit Beschränkter Haftung, Carlsruhe, Baden, Germany. Apparatus for pressing, stamping, embossing, or printing flat surfaces	696,821	Apr. 1	801	183	99	170
Huber, Edward, Marion, Ohio. Compensating gearing	705,588	July 29	4409	955 956	100	953
Huber, Edward, Marion, Ohio. Riddle	706,061	Aug. 5	120	25	100	1142
Huber, Edward, Marion, Ohio. Friction-plate	706,060	Aug. 12	1279	282	100	1392
Huber, Edward, Marion, and A. Milmine, Toledo, Ohio. Metal framework for buildings	704,829	July 23	2729	590	100	584
Huber, Edward, and J. W. Miller, Marion, Ohio. Pneumatic stacker	705,407	July 22	3995	865	100	858
Huber, John F., Rochester, assignor to L. T. Huber, Lockport, N. Y. Book for holding and filing sales-slips, &c	708,230	Sept. 2	435	99	100	2070
Huber, Lewis T. (See Huber, John F., assignor.)						
Huber, William E., et al. (See Haines, Jacques C., assignor.)						
Huberdeau, Thomas, Larimore, N. D. Breast-strap slide	691,630	Jan. 21	2291	537	98	532
Huberdeau, Thomas, Larimore, N. D. Rail-joint	704,190	Jan. 8	1551	334	100	325
Hubert, Conrad, New York, N. Y. Electric time-alarm	700,496	May 20	2718	632	99	1766
Hubert, Conrad, New York, N. Y. Electric battery	700,497	May 20	2720	632	99	1766
Hubert, Conrad, New York, N. Y. Electric lamp	700,650	May 20	2977	683 684	99	1821
Hubert, Philip G., New York, N. Y. Solar heater	705,350	Sept. 22	2903	845	100	830
Huberty, August, Canton, Ohio. Watchman's clock	714,908	Dec. 2	541	116	101	1944
Hubinger, Newton, Barberton, Ohio. Trolley	712,539	Nov. 4	152	37	101	929
Hübner, Robert. (See Odell and Hübner.)						
Hübsch, Franz, Vienna, Austria-Hungary, assignor to J. Hübsch, Tarrytown, N. Y. Mechanical toy	717,202	Dec. 30	5100	1105	101	2978

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Hübsch, Joseph. (See Hübsch, Franz, assignor.)						
Huck, Albert, assignor to Milwaukee Valve Company, Milwaukee, Wis. Faucet	693,865	Feb. 25	3132	691	92	1507
Huckel, William F., Frankford, Pa. Shoe-blackening kit	696,048	Mar. 25	3197	422	92	2427
Hucks, William, Jr., London, England. Apparatus for dispensing aerated liquids	695,314	Mar. 11	1895	415	92	2120
Hucks, William and William, Jr., Camden-Town, London, England. Apparatus for use in dispensing aerated liquids	709,407	Sept. 16	2711	608	110	2571
Huckstopp, Arthur C., Birmingham, England. Advertising device	694,646	Mar. 4	589	130	92	1837
Hudgens, George T., New Waverly, Tex. Dog attachment for logging-cars, &c.	691,703	Jan. 21	2518	563	98	560
Hudson, Franklin M., assignor to B. L. Embury and E. Rodgers, Villa Rica, Ga. Combined cotton-planter and fertilizer-distributor	712,931	Nov. 4	876	564	101	1076
Hudson, John H., Philadelphia, Pa. Indicating speed	699,758	May 13	1211	282	99	1437
Hudson Brothers. (See Knight, Harry H., assignor.)	713,986	Nov. 18	2933	653	101	1539
Hudson, Edmund, Templeton, Mass. Vehicle-wheel	697,252	Apr. 8	1625	365	99	266
Hudson, James B., Charlotte, N. C. Roll for spinning-machines	692,855	Feb. 11	1131	252	98	1055
Hudson, Richard W., assignor to three-thirds to L. I. Plummer, Toledo, Ohio. Cash-reg-	703,263	June 24	3660	842	99	212
Hudson, Samuel M., Athens, Ohio. Chair	701,728	June 3	812	179	99	2377
Hudson, William L., Lewisburg, Tenn. Clevis	695,643	Mar. 18	2460	558	98	2262
Hudspeth, Joseph G., Berkeley, Cal. Motor	715,480	Dec. 9	1577	342	101	2176
Huebel, Otto H., Brooklyn, N. Y., assignor to Manhattan Electrical Supply Company. Induction-coil or like instrument	717,203	Dec. 30	5101	1106	101	2978
Huebner, Paul, Milwaukee, Wis. Sprinkler-head	704,907	Sept. 30	3711	837	100	2303
Huenefeld, Ernst H. (See Carter, John B., assignor.)						
Huenefeld, Ernst H. (See Carter and Hausfeld, assignors.)						
Huenefeld, Ernst H. (See Hausfeld and Carter, assignors.)						
Huenefeld, Ernst H. (See Pross and Tucker, assignors.)						
Huenke, Louis, New Bremen, Ohio. Wheel-operated rein-holder	716,233	Dec. 16	3081	673	101	2512
Huey, John S., Chicago, Ill. Counter	691,142	Jan. 14	1441	328	98	315
Huey, Valentine. (See Lynch and Huey.)						
Huff, Charles M., near Bishop, Ga. Combined fertilizer-distributor and cultivator	716,942	Dec. 16	2635	593	101	2429
Huff, Frank, St. Louis, Mo. Measuring apparatus	699,055	May 13	1619	370	99	1620
Huff, George S. (See Huff, Jake J. and G. S.)						
Huff, George S. and J. J., assignors of two-fifths to F. H. Ewers and J. M. Berauer, Indianapolis, Ind. Smoke-consuming furnace	690,580	Jan. 7	146	84	98	88
Huff, George S. and J. J., assignors of two-fifths to F. H. Ewers and J. M. Berauer, Indianapolis, Ind. Mechanical stoker	690,582	Jan. 7	410	85	98	89
Huff, George S. and J. J., assignors of two-fifths to F. H. Ewers and J. M. Berauer, Indianapolis, Ind. Automatic clutch	690,583	Jan. 7	412	86	98	90
Huff, Henry H., assignor of two-thirds to A. D. Curran and S. P. Burton, Jr., Boston, Mass. Automatic variable-exhaust apparatus	696,639	Apr. 1	443	103	99	95
Huff, Hiram C., Winans, S. D. Windmill	698,116	Apr. 22	3251	712	99	738
Huff, Jake J. and G. S., assignors of two-fifths to F. H. Ewers and J. M. Berauer, Indianapolis, Ind. Smoke-consuming furnace	690,581	Jan. 7	408	84, 85	98	89
Huff, Slaughter W., Baltimore, Md. Automatic railway appliance	693,396	Feb. 18	2231	489	98	1305
Huff, Slaughter W., Baltimore, Md. Railway electric signal	717,406	Dec. 30	5153	1184	101	3051
Huff, Wilson S. (See Webb and Huff.)						
Huffman, Datus E., assignor of one-half to A. G. Nelson, Minneapolis, Minn. Hernial truss	694,751	Mar. 4	795	177	98	1879
Huffman, James G., Pana, Ill. Making wells	698,020	Apr. 22	3043	669	99	695
Huffman, James G., Pana, Ill. Well-casing and strainer	702,006	June 10	1298	297	99	2392
Huffman, Louis, Toronto, Canada. Duplicating-book	712,641	Nov. 4	402	94	101	981
Huffman, Mary C., Boston, Mass. Skirt-retainer	704,042	July 8	1243	268	100	261
Huffman, William S., Boston, Mass. Vehicle-tire	702,432	June 17	2081	473	99	2572
Hufmaster, Charles A., San Leandro, Cal. Variable-speed governor	707,697	Aug. 26	3266	730	100	1840
Huffstickler, Henry, Coal Valley, Pa. Hoof-trimmer	696,177	Mar. 25	3480	779	98	2485
Hufft, B. (See Word, David C., assignor.)						
Hufschmidt, Milton S., San Francisco, Cal. Lamp	716,043	Dec. 16	2687	594	101	2429
Hufstедler, James W. (See Bridges, John, assignor.)						
Hug, Daniel, Denver, Colo. Breech-loading firearm	691,056	Jan. 14	1304	296	98	287
Hugentobler, Emil M., assignor to W. D. Walbridge, New York, N. Y. Furnace for burning bituminous coal	690,431	Jan. 7	84	18, 19	98	21
Hugentobler, Emil M., assignor to W. D. Walbridge, New York, N. Y. Furnace for burning bituminous coal	690,432	Jan. 7	89	20	98	22
Huggins, Frank E., Zeandale, Kans. Electric call system	699,177	May 6	90	23	99	1194
Huggins, John T., et al. (See Mead, Albert G., assignor.)						
Hughen, Mary B., Chicago, Ill. Broom attachment	693,710	Feb. 19	2841	626	98	1429
Hughes, Arthur S., Mansfield, Ohio. Rotary water-tube	696,566	Apr. 1	312	73	99	70
Hughes, Carrie L., Cleveland, Ohio. Tape-needle	694,281	Feb. 25	3937	876	98	1669
Hughes, Daniel E., Espy, Pa. Bevel	709,487	Sept. 23	2903	648	100	2625
Hughes, David W., Vandalia, and W. T. S. Barnes, Jackson, Mo. Washing-machine	691,468	Jan. 21	2092	468	98	470
Hughes, Ebenezer W., and L. Campbell, Kensington, England. Measuring and registering cock for liquids	697,844	Apr. 15	2713	603	99	608
Hughes, Edward E., Colorado Springs, Colo. Signal-lantern	699,536	May 6	746	174	99	1329
Hughes, Frederic G. (See Hyland, John, assignor.)						
Hughes, George H., London, England. Cattle-food	707,113	Aug. 19	2132		100	1587
Hughes, Giffard R., London, England. Printer's form or chase rack	703,264	June 24	3665	843	99	2913
Hughes, Harry N., Duquesne, Pa. Device for unloading coal-flats or the like	710,194	Sept. 30	4267	962	100	2920
Hughes, Henry A., Jr., Philadelphia, Pa., assignor to Perfection Jar Closure Company, Philadelphia, Pa., and Camden, N. J. Jar or bottle closure	691,332	Jan. 21	1939	437	98	438
Hughes, Henry A., Jr., Philadelphia, Pa., assignor to Perfection Jar Closure Company, Philadelphia, Pa., and Camden, N. J. Composition of matter	691,333	Jan. 21	1941		98	438
Hughes, John A., et al. (See Gahagan, Arthur B., assignor.)						
Hughes, John C., South Omaha, Nebr. Hog or cattle splitting machine	701,345	June 3	124	25, 26	99	2134
Hughes, Joseph S., Chesley's Corners, Canada. Wood-pulp press	691,770	Jan. 28	2671	599	98	609
Hughes, Joseph S., Chesley's Corners, Canada. Forming wood-pulp into sheets	691,771	Jan. 28	2676	599	98	610
Hughes, Julia F., Westchester, Pa. Lacing-fastener	711,708	Oct. 21	3243	582	101	582
Hughes, Millard F., near Lawrence, Kans. Attachment for corn-harvesters	712,382	Oct. 28	3836	831	101	837
Hughes, Orville B., Akron, Ohio. Unitary match-safe and cigar-lighter	696,337	Mar. 25	3306	848	98	2553



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Hughes, Robert C. (See Wall, Osborne, assignor.)						
Hughes, Robert D., Vermillion, assignor of two-thirds to R. O. Horton and C. P. Patten, Lynchburg, Va. Nut-lock	704,332	July 8	1794	392	100	377
Hughes, Samuel F., Fort Madison, Iowa. Treadle guide for cultivators	692,517	Feb. 4	534	126	98	906
Hughes, Thomas, Taunton, Mass. Cigar-stand	716,713	Dec. 23	4022	881	101	2723
Hughes, Thomas R. (See Hamilton, William J., assignor.)						
Hughes, Thomas W., assignor of two-thirds to L. N. Clayton and A. Bugbee, Trenton, N. J. Ash or garbage receptacle	705,672	July 29	4557	990	100	983
Hughes, Will J., St. Louis, Mo. Pump	705,351	July 22	3904	845	100	839
Hughes, Will J., St. Louis, Mo., assignor to S. M. Hastings, trustee, Chicago, Ill. Refrigerator-car	706,661	Aug. 12	1281	283	100	1392
Hughes, Will J., St. Louis, Mo., assignor to S. M. Hastings, trustee, Chicago, Ill. Refrigerator-car	710,695	Oct. 7	566	118	101	116
Hughes, William B., Philadelphia, Pa. Manufacture of steel by the open-hearth process	694,752	Mar. 4	796		98	1880
Hughes, William D., Granville, N. Y., assignor of one-half to J. T. Williams, Brownville, Me. Nut-lock	700,651	May 20	2980	684	99	1822
Hughes, William S., Philadelphia, Pa., assignor to E. A. Willard, New York, N. Y. Smoke and spark preventing device	707,332	Aug. 19	2548	574	100	1674
Hughes, William W., Urbana, Ohio. Antifriction-cover for bicycle-saddles	707,592	Aug. 26	3049	686	100	1795
Huillard, Alphonse, Suresnes, France. Apparatus for drying humid material	714,487	Nov. 25	3918	866	101	1753
Hulett, Frank E., Cleveland, Ohio. Clam-shell bucket and operating mechanism	696,444	Apr. 1	90	20, 21	99	24
Hulett, George H., Cleveland, Ohio. Ore-bin	705,761	July 29	4727	1023	100	1015
Hulett, George H., Cleveland, assignor of one-half to Webster, Camp & Lane Machine Company, Akron, Ohio. Unloading apparatus	694,383	Mar. 4	92	20, 21	98	1731
Hulett, George H., Cleveland, assignor of one-half to Webster, Camp and Lane Company, Akron, Ohio. Bucket	713,987	Nov. 18	2955	1655	101	1539
Hulfish, David S., Chicago, Ill., assignor to American Bell Telephone Company, Boston, Mass. Signaling and switchboard apparatus for telephone-exchange circuits	711,973	Oct. 28	3067	673	101	687
Hulfish, David S., Chicago, Ill., assignor to American Bell Telephone Company, Boston, Mass. Busy-test system	712,455	Oct. 28	3947	864	101	806
Hulfish, David S., Chicago, Ill., assignor to American Telephone and Telegraph Company, Boston, Mass. Switchboard and supervisory signal circuit	712,801	Nov. 4	632	145	101	1027
Hulin, Paul L., Clavaux, par Rieupeupré, France. Making hydrogen dioxide	692,139	Jan. 28	3342		98	744
Hull, Alfred A., Knoxville, Tenn. Flue-cleaner	691,057	Jan. 14	1307	296	98	288
Hull, David C., assignor to United States Whip Company, Westfield, Mass. Whip	711,897	Oct. 21	2803	640	101	634
Hull, Fletcher C., Norwalk, Ohio. Umbrella-stick	693,711	Feb. 18	2842	626	98	1429
Hull, Fletcher C., Norwalk, Ohio. Detachable umbrella-handle	693,712	Feb. 18	2843	626	98	1429
Hull, Foster J., Brooklyn, N. Y. Pressure-engine	698,503	Apr. 29	3936	870	99	897
Hull, Foster J., Brooklyn, N. Y., assignor, by mesne assignments, to American Mechanical Cashier Company. Check-severing device	710,360	Sept. 30	4561	1029	100	2983
Hull, George W. (See Hull, Joseph A., assignor.)						
Hull, James S. (See Smith and Hull.)						
Hull, Joseph A., Chicago, Ill., assignor of one-half to G. W. Hull, South Bend, Ind. Attachment for bristles	697,486	Apr. 15	2065	456	99	473
Hull, William F. (See Dawes and Hull.)						
Hull, William N., Youngstown, Ohio. Rope-clasp	702,214	June 10	1683	379	99	2471
Hullinger, Thomas W., Lima, Ohio. Pumping-jack	696,398	Mar. 25	3807	1848	98	2354
Hulseher, William T., Battlecreek, Mich. Baling-chamber for baling-presses	716,422	Dec. 23	3451	753	101	2016
Hulse, Edgar J., Washington, D. C. Skylight	707,419	Aug. 19	2707	613	100	1707
Hulse, Edwin M., and A. F. Schramm, Columbus, Ohio; said Schramm assignor to said Hulse. Clip for securing wires together	693,696	Feb. 25	3134	693	98	1508
Hulse, Edwin M., and J. B. Hoover, Columbus, Ohio; said Hoover assignor to said Hulse. Hinge	702,304	June 10	1822	416	99	2500
Hulsebosch, Marius L. Q. V. (See Berntrup and Hulsebosch.)						
Hulst, Clarence P., Milwaukee, Wis. Car-fender	698,954	Apr. 29	4877	1076	99	1102
Hult, Carl A. and O. W., Stockholm, Sweden. Rotary engine	702,558	June 17	2909	1526	99	2620
Hult, Carl A. and O. W., Stockholm, Sweden. Rotary motor	706,181	Aug. 5	351	75, 76	100	1188
Hult, Oscar W. (See Hult, Carl A. and O. W.)						
Hultgren, Johan P., assignor of one-half to F. H. Getzmann, Stockholm, Sweden. Centrifugal separator	708,643	Sept. 9	1161	264	100	2228
Hultman, Carl A. W., Stockholm, Sweden. Conduit for electric or like cables	697,845	Apr. 15	2714	603	99	600
Hultman, Ivar, assignor of one-half to A. M. Johanson, Stockholm, Sweden. Calculating-machine	706,180	Aug. 5	347	75	100	1187
Hultman, Ivar, and A. M. Johanson, Stockholm, Sweden. Ink-feeder for pens	703,265	June 24	3665	843	99	2913
Hultquist, Carl E., Rockford, Ill. Cuff-holder	704,644	July 15	2379	515	100	513
Hülzer, Lambert, and R. Kemper, Essen, Germany. Padlock for securing coats, &c., to wardrobe-hooks	695,458	Mar. 18	2099	473	98	2189
Hume, Washington, London, England. Railway electric signaling apparatus	693,529	Feb. 18	2471	542	98	1354
Humes, James, New York, N. Y. Apparatus for making gas	690,956	Jan. 14	1106	250	98	247
Humiston, Dawson M., Tonica, Ill. Glazier's hammer	705,730	July 1	771	169	100	154
Hummel, Caspar, Johnstown, Pa. Hoop-tightening device	691,769	Jan. 28	2670	598	98	608
Hummel, Louis, assignor to A. Mayer, Brooklyn, and S. Friedman, New York, N. Y. Bolt	701,270	May 27	4174	958	99	2085
Hummel, Richard, New York, N. Y. Hernal truss	691,143	Jan. 14	1443	328	98	315
Hummer, William F., assignor to Columbian Automatic Computing Scales Company, Washington, D. C. Automatic computing scale	694,647	Mar. 4	591	130	98	1838
Humphrey, Alfred H., Kalamazoo, Mich. Gas-lamp	696,640	Apr. 1	445	104	99	96
Humphrey, Alfred H., Kalamazoo, Mich. Igniter	705,673	July 29	4559	990	100	983
Humphrey, Alfred H., assignor to H. S. Humphrey, Kalamazoo, Mich. Heater	704,043	July 8	1244	268	100	262
Humphrey, Edwin H., assignor to P. H. Hartman and A. Zimmer, Monterey, Ind., and S. C. Olson, Bradley, Ill. Carpet-fastener	700,691	May 20	3073	698	99	1844
Humphrey, Herbert A., Westminster, London, England. Apparatus for purifying gas	709,772	Sept. 23	3431	772	100	2731
Humphrey, Herson M., Tonica, Ill. Glazier's hammer	705,730	July 1	771	169	100	154
Humphrey, John D., assignor to J. M. Brady, New Britain, Conn. Door-check	716,014	Dec. 16	2690	594	101	2430
Humphrey, William H., New York, N. Y. Flat brush	700,050	May 13	1783	412	99	1555
Humphreys, David C., trustee. (See Birmingham, John P., assignor.)						
Humphreys, David C., Lexington, Va. Combination hot-air and hot-water heater for house-warming, &c.	714,698	Dec. 2	98	18	101	1857
Humphreys, David C., Lexington, Va. Damper-regulator for hot-water heaters	714,699	Dec. 2	98	18	101	1857
Humphreys, Edgar, trustee. (See Humphrey, Sylvester E., assignor.)						
Humphreys, Frederick W., assignor to Wayne Chemical Company, Germantown, Pa. Photographic package	693,136	Feb. 11	1713	374	98	1177

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Humphreys, John C., Sutton, assignor of one-half to C. S. Phillips, Lanes Bottom, W. Va. Valve-operating mechanism	711,863	Oct. 21	2827	626	101	621
Humphreys, Sylvester E., Kansas City, Mo., assignor to E. J. Humphreys, individually and as trustee, Fairmount, Kans. Liquid-measuring device	699,621	May 6	936	217	99	1368
Humphreys, T. D., See Clairmont, Adolfo de, assignor.						
Humphreys, William W., Sheffield, Ill. Repeating firearm	703,366	June 24	3666	843	99	2913
Hunzerford, Churchill, Philadelphia, Pa. Filter	707,333	Aug. 19	3551	575	100	1674
Hunzerford, Henry H., (See Peters and Hunzerford.)						
Hunzerford, Oliver T., Brooklyn, N. Y. Covering for pipes, rods, electric-line conductors, or the like	695,726	Mar. 18	2592	586	98	2388
Hunker, John M., West Superior, assignor of one-half to E. T. Safford, Superior, Wis. Coke-oven	711,500	Oct. 21	2122	461	101	470
Hunker, Martin L., assignor to Canton Machine and Manufacturing Company, Canton, Ohio. Sheet-metal-pipe crimper	699,537	May 6	747	175	99	1320
Hunkins, William S., Merriam Park, Minn. Garment-supporter	700,498	May 20	2722	622	99	1767
Hunkins, William S., Merriam Park, Minn. Garment-supporter	703,926	July 1	1011	220	100	362
Hunkins, William S., Merriam Park, Minn. Hose-supporter	711,108	Oct. 14	1358	295	101	295
Hunt, Allen J., See Clark, Charles, assignor.						
Hunsaker, Oscar W., St. Louis, Mo. Cash-register	705,353	July 22	3908	1846	100	840
Hunt, Azor R., and W. Ahlen, Duquesne, Pa. Heating-furnace for coiled bundles	699,523	May 6	749	1847		
Hunt, Bertram, San Francisco, Cal. Extraction of metals from ore or the like	699,108	Apr. 29	5128	176	99	1330
Hunt, Charles, Belfast, Ireland. Life-preserver	710,375	Sept. 30	4416	995	100	2953
Hunt, Charles J., et al., (See Johnston, George W., assignor.)						
Hunt, Charles J., assignor of one-half to J. P. Cleal, Dayton, Ohio. Combined scrubber	702,875	June 17	2912	673	99	2746
Hunt, Charles J., and B. H. Lambers, Dayton, Ohio. Self-lubricating pulley	697,721	Apr. 15	2494	537	99	559
Hunt, Charles W., West New Brighton, N. Y. Boiler-feeder	699,957	Jan. 14	1108	250	98	248
Hunt, Charles W., West New Brighton, N. Y. Steering mechanism for motor-vehicles	694,884	Mar. 4	95	21	98	1732
Hunt, Charles W., West New Brighton, N. Y. Valve	698,594	Apr. 29	3940	870	99	897
Hunt, Charles W., West New Brighton, N. Y. Vehicle	708,231	Sept. 2	437	99	100	2070
Hunt, Charles W., West New Brighton, N. Y. Hoisting apparatus	708,713	Sept. 9	1293	294	100	2255
Hunt, Charles W., West New Brighton, N. Y. Transmitting mechanism	708,265	Sept. 16	2420	100	100	2510
Hunt, Charles W., West New Brighton, N. Y. Drive-chain	713,102	Nov. 11	1211	277	101	1163
Hunt, Charles W., West New Brighton, N. Y. Hoisting apparatus	714,700	Dec. 2	97	19	101	1857
Hunt, Charles W., West New Brighton, N. Y. Hoisting apparatus	714,701	Dec. 2	98	19	101	1857
Hunt, Charles W., West New Brighton, N. Y. Hoisting apparatus	714,702	Dec. 2	100	19	101	1858
Hunt, Charles W., West New Brighton, N. Y. Conveyor	716,423	Dec. 23	3453	753	101	2603
Hunt & Co., Robert W., (See Langenheim, William G., assignor.)	717,204	Dec. 30	5193	1106	101	2878
Hunt, Cyrus D., Fairhaven, Mass. Chain dish-cloth	717,004	Dec. 30	4969	1019	101	2801
Hunt, Elisha J., New York, N. Y. Folding step for cars or other conveyances	697,308	Apr. 8	1546	346	99	348
Hunt, Frank G., Buffalo, N. Y. Flexible ruler	694,061	Feb. 25	3537	779	98	1588
Hunt, Frank M., Roundoak, Ga. Horse-detacher	698,021	Apr. 22	3044	669	99	696
Hunt, George A., assignor of one-half to F. C. Alden, Reading, Mass. Automobile-frame	697,722	Apr. 15	2496	537	99	559
Hunt, George A., Everett, assignor of one-half to F. C. Alden, Reading, Mass. Exhaust-concealer	703,067	June 24	3297	759	99	2839
Hunt, George B., New York, N. Y. Penholder	713,005	Nov. 4	1010	237	101	1102
Hunt, George C., et al., (See Linscott, William D., assignor.)						
Hunt, Harry L., and W. E. Moon, Traverse City, Mich. Magazine fuse-box	706,062	Aug. 5	120	25	100	1142
Hunt, Helm, Ferris & Company, (See Ferris, Henry L., assignor.)						
Hunt, Henry, (See Hamilton, Frederick A. E., assignor.)						
Hunt, Henry M., Indianapolis, Ind. Clock-striking mechanism	699,387	May 6	493	114	99	1277
Hunt, James E., (See Parrott, Elijah D., assignor.)				116		
Hunt, Joseph H., (See Case, Wilmer S., assignor.)						
Hunt, Nathaniel F. T., Braintree, assignor of one-third to P. W. French, Weymouth, Mass. Socket for steels of corsets, &c.	702,559	June 17	2212	527	99	2621
Hunt, Thomas E., Blue Island, Ill. Time damper-regulator	716,548	Dec. 23	3718	809	101	2658
Hunt, Thomas E., Blue Island, assignor, by mesne assignments, to Quaker Manufacturing Company, Chicago Heights, Ill. Warm-air register	715,806	Dec. 16	2211	494	101	2325
Hunt, Tilman H., Albany, Mo. Dust-applier	705,089	July 22	3903	718	100	717
Hunt, Wilfred, Bothwell, Scotland. Type-writer	709,152	Sept. 16	2183	500	100	2461
Hunter, Andrew, San Francisco, Cal. Thermal truss	693,606	Feb. 18	2650	584	98	1390
Hunter Arms Company, (See Lewis, George S., assignor.)						
Hunter Arms Company, (See Snyder, Frank, assignor.)						
Hunter, Charles G., Lawrence, Ind. Finger-bar-adjusting device for mowing-machines	702,433	June 17	2084	475	99	2573
Hunter, Charles W., Gardiner, Me. Can-opener	695,055	Mar. 11	1383	308	98	2022
Hunter, Daniel J., (See McRorie and Hunter.)						
Hunter, David E., Cambridge, assignor to Library Bureau, Boston, Mass. File-cabinet	696,049	Mar. 25	3197	722	98	2427
Hunter, David E., Cambridge, assignor to Library Bureau, Boston, Mass. Roller copy-ing-press	705,352	July 22	3905	845	100	839
Hunter, David E., Cambridge, assignor to Library Bureau, Boston, Mass. Folio-holder	709,221	Sept. 16	2328	527	100	2490
Hunter, David E., Cambridge, assignor to Library Bureau, Boston, Mass. Movable chase printing-press	711,109	Oct. 14	1359	528	101	295
Hunter, David E., Cambridge, assignor to Library Bureau, Boston, Mass. Rod for card-indexes	711,110	Oct. 14	1362	296	101	296
Hunter, David E., Cambridge, assignor to Library Bureau, Boston, Mass. Locking device for card-index systems	715,807	Dec. 16	2216	494	101	2326
Hunter, Edgar P. and H. C. Pittsburg, Pa. Rail-joint	702,215	June 10	1684	379	99	2472
Hunter, Frank R., (See Herndon, Jesse F., assignor.)						
Hunter, George G., (See Batcheller, Walter B., assignor.)						
Hunter, Griffith, (See McLin, Thomas C., assignor.)						
Hunter, Hamilton, assignor of one-half to S. D. Rouse, Covington, Ky. Show-window construction	709,985	Sept. 30	3871	872	100	2837
Hunter, Harry C., (See Hunter, Edgar P. and H. C.)						
Hunter, Jacob M., assignor to W. T. Blaine, Chicago, Ill. Coin-controlled X-ray machine	695,154	Mar. 11	1574	349	98	2062
Hunter, James, Hartford, Conn. Tool-holder	713,004	Nov. 4	1009	236	101	1102
Hunter, John A., et al., (See Uebrock, John H. and J. B., assignors.)						
Hunter, John A., Philadelphia, Pa. Metallurgical furnace	699,759	May 13	1216	233	99	1437



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Hunter, Lytle J., Cincinnati, Ohio. Advertising-sign	699,178	May 6	93	23, 24	99	1194
Hunter, Mary A., <i>et al.</i> (See Ursbruck, John H. and J. B., assignors.)						
Hunter, Robert L., Cleveland, Ohio. Cross-index	708,479	Sept. 2	858	196	100	2155
Hunter, Robert L., Cleveland, Ohio. Cross-index	710,779	Oct. 7	741	157	101	152
Hunter, Rudolph M., Philadelphia, Pa. Electric welding	690,538	Jan. 14	1100	259	98	248
Hunter, Rudolph M., Philadelphia, Pa. Making electric accumulator-plates	703,420	July 1	98	21	100	22
Hunter, Rudolph M., Philadelphia, Pa. assignor to Tractor Truck and General Power Co. Motor-vehicle	696,143	Mar. 25	3416	768	98	2474
Hunting, Alfred A., Salem, Mass. Drying can or cylinder	700,776	May 27	3271	750	99	1901
Hunting, Alfred H., Iron Mountain, Mich. Chair attachment	696,680	Apr. 1	536	123	99	116
Huntington, Charles S., Los Angeles, Cal. Lock	703,927	July 1	1013	220	100	202
Huntington, Harlow M., Belvidere, Ill. Hand binder	695,558	Mar. 18	2293	518	98	2228
Huntington, Harry G., Ladoga, Ind. Cleaning implement	695,315	Mar. 11	1866	415	98	2120
Huntington, Thomas S., New York, N. Y. Fare-register	716,897	Dec. 30	4481	971	101	2846
Huntington, William S., New York, N. Y. assignor to Composite Board Company. Making artificial lumber	709,488	Sept. 23	2905	649	100	2625
Huntley, Elijah, Seattle, Wash. Wrench	698,706	Apr. 29	4307	970	99	996
Huntley Manufacturing Company. (See Carnochan, John W., assignor.)						
Huntley, Stephen A., Elkpoint, S. D. Magazine-firearm	695,882	Mar. 18	2877	652	98	2348
Hunton, Robert W. (See Mills and Hunton.)						
Huntoon, Charles F., assignor to Chicago Railway Equipment Company, Chicago, Ill. Roller side bearing	694,549	Mar. 4	414	90	98	1890
Huntoon, Charles F., assignor to Chicago Railway Equipment Company, Chicago, Ill. Reversible guard-finger clamp for brake-beams	699,842	May 13	1386	320	99	1474
Huntoon, Charles F., assignor to Chicago Railway Equipment Company, Chicago, Ill. Side bearing for railway-cars	704,044	July 8	1246	268	100	262
Huntoon, William D., Norwood, Mass. Pipe-wrench	696,339	Mar. 25	3809	849	98	2554
Hupfeld, Ludwig, Leipzig, Germany. Mechanism for effecting varying touch of key or musical instrument	706,946	Aug. 12	1817	406	100	1504
Hupfer, Charles F., Monona, Iowa. End-gate	696,340	Mar. 25	3809	849	98	2554
Huppert, Henry C. (See Barge, Walter, assignor.)						
Hüppi, Johann, Rümlang, near Zurich, Switzerland. Lifting-jack	704,683	July 15	2440	527	100	526
Hupton, Horace E., assignor of one-half to T. Mutton, Brighton, England. Moving stand or figure	713,221	Nov. 11	1432	325	101	1207
Hurd, Charles L., assignor of one-half to N. F. Smith, Chelsea, Mass. Coin-operated vending-machine	690,433	Jan. 7	91	20	98	22
Hurd, Charles L., assignor of one-half to N. F. Smith, Chelsea, Mass. Coin-operated vending-machine	692,786	Feb. 4	1003	227	98	1092
Hurd, Charles L., assignor of one-half to N. F. Smith, Chelsea, Mass. Coin-operated machine	694,282	Feb. 25	3938	877	98	1609
Hurd, David E., Butte, Mont. Instantaneous combined water-heater and steam-generator	714,183	Nov. 25	3371	742	101	1646
Hurd, Frederick A., assignor to C. C. Bailey, Cookshire, Canada. Manufacture of cheese	707,698	Aug. 26	3968		100	1840
Hurlbut, Daniel N. (See Shore, Albert F., assignor.)						
Hurlbut, Frank, Chicago, Ill. Dental engine	713,103	Nov. 11	1213	277	101	1163
Hurley, Arthur, Tondou, England. Bridge for violins or similar instruments	693,648	Feb. 18	2724	601	98	1406
Hurley, John, Little Falls, N. Y. Ice-cream cabinet	699,179	May 6	96	24	99	1195
Hurley, Michael J. (See Shallenberger, Charles S., assignor.)						
Hurley, William G., Krebs, Ind. Ter. Match-safe	701,720	June 3	813	179	99	2278
Hurr, Arthur T. (See Foreman, David H., assignor.)						
Hurrell, William, McKeesport, Pa. Automatic gage for hydraulic testing-machines	702,216	June 10	1685	379	99	2472
Hurst, Charles, Philadelphia, Pa. Self-winding clock	704,333	July 8	1795	392	100	377
Hurst, Charles B., Chillicothe, Ohio. Stock-rack for platform-scales	703,586	July 1	372	86	100	74
Hurst, David, Mansfield, Ohio. Motor	692,668	Feb. 4	801	182	98	963
Hurst, F. C., <i>et al.</i> (See Eichholtz, William B., assignor.)						
Hurst, Fred, <i>et al.</i> (See Carson, George C., assignor.)						
Hurst, George E., Omaha, Nebr. Safety envelop-filler	708,555	Sept. 9	996	225	100	2195
Hurt, John H., <i>et al.</i> (See Blanton, Jacob L., assignor.)						
Hurtig, John F., St. Louis, Mo. Steering apparatus for self-propelled vehicles	694,478	Mar. 4	261	59	98	1768
Husband, George L. (See Brooks, Alfred J., assignor.)						
Huse, Leon C. (See Huse, Warren D. and L. C.)						
Huse, Walter L. (See Huse, Warren D. and L. C., assignors.)						
Huse, Warren D. and L. C., assignors of one-third to W. L. Huse, Laconia, N. H. Tuck-ing and welting attachment for knitting-machine	693,397	Feb. 18	2236	490	98	1365
Huseby, Albert A., Chicago, Ill. Guard for pianos	698,505	Apr. 29	2941	871	99	898
Huske, Benjamin R., Fayetteville, N. C. Harvesting implement	716,045	Dec. 16	2691	594	101	2430
Huson, Paul J., Covington, Ga. Railway-frog	708,557	Sept. 9	999	226	100	2195
Hussey, Bryant K., Indianapolis, Ind. Steam-heater	711,709	Oct. 21	2644	582	101	582
Hussey, Francis F., Boston, Mass. Foot-plate	717,205	Dec. 30	5104	1106	101	2979
Hussey Mower and Implement Company. (See Hussey, Ray W., assignor.)						
Hussey, Ray W., Pendleton, Ind. Grass or grain cutting machine	708,556	Sept. 9	997	226	100	2195
Hussey, Ray W., assignor to Hussey Mower and Implement Company, Dublin, Ind. Harvester	712,802	Nov. 4	638	145	101	1028
Husson, Louis, Philadelphia, Pa. Picture	692,291	Feb. 4	133	31	98	826
Hussong, Joseph, Camden, N. J. Dyeing apparatus	695,737	Mar. 18	2593	587	98	2288
Huston, Alexander, <i>et al.</i> (See Chesterman, William, assignor.)						
Huston, Charles L., Coatesville, Pa. Cover-plate for boilers	703,268	June 24	3670	844	99	2014
Huston, Charles L., Coatesville, Pa. Plate-straightening machine	712,300	Oct. 28	3653	798	101	803
Huston, Charles R., Morgantown, W. Va. Machine for cutting slate	703,267	June 24	3668	843	99	2013
Huston, Raymond, <i>et al.</i> (See Chesterman, William, assignor.)						
Hutchens, Erasmus V., Evansville, Ind. Bucket or parcel carrier	710,780	Oct. 7	743	158	101	152
Hutcheson, James A., Richmond, Va., assignor to United States Tobacco Stemming Company. Tobacco-stripping machine	713,886	Nov. 18	2755	612	101	1498
Hutchings, Charles E. (See Robertson and Hutchings.)						
Hutchings, Charles E., assignor to Rochester Optical and Camera Company, Rochester, N. Y. Camera	704,384	July 8	1797	392	100	377
Hutchings, Charles E., assignor to Rochester Optical and Camera Company, Rochester, N. Y. Photographic camera	704,385	July 8	1800	393	100	378
Hutchings, Charles E., assignor to Rochester Optical and Camera Company, Rochester, N. Y. Swing-back photographic camera	712,301	Oct. 28	3656	798	101	805
Hutchings, Charles E., assignor to Rochester Optical and Camera Company, Rochester, N. Y. Running-bridge for extension-front photographic cameras	712,302	Oct. 28	3658	799	101	804

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Hutchings, Charles E., J. A. Robertson, and A. Mutschler, assignors to Rochester Optical and Camera Company, Rochester, N. Y. Magazine-camera	705,408	July 22	3996	865 886	100	888
Hutchings, Charles H., assignor of two-thirds to P. W. Stanhope, Toronto, Canada. Machine for molding concrete fence-posts	714,184	Nov. 25	3372	742	101	1646
Hutchings, Charles H., assignor of two-thirds to P. W. Stanhope, Toronto, Canada. Fence-post	716,998	Dec. 30	4487	972	101	2847
Hutchings, George B., Galveston, Tex. Device for enlarging negatives	693,713	Feb. 18	2844	627	98	1429
Hutchings, George B., Galveston, Tex. Paper-holder for enlarging cameras	693,714	Feb. 18	2846	627	98	1430
Hutchings, George J., London, England. Apparatus for cooking foods for poultry, game, &c., by steam	703,269	June 24	3671	844	99	2914
Hutchings, James, Camberwell, assignor to Moffats, Limited, London, England. Means for facilitating the starting of gas or similar engines	702,797	June 17	2772	633	99	2717
Hutchings, William E., Louisville, Ky. Hoist for unloading ships	700,051	May 13	1784	412	99	1555
Hutchins, George F., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Filling-replenishing mechanism for looms	702,876	June 17	2914	673	99	2747
Hutchins, George F., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Register	703,270	June 24	3672	844	99	2914
Hutchins, George F., and J. T. Cyr, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Swivel-loom	698,203	Apr. 22	3420	753	99	774
Hutchins, George F., and E. H. Ryan, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Loom	714,000	Dec. 2	543	116	101	1944
Hutchins, Henry H., Ganges, Mich. Lanterna-holder	711,501	Oct. 21	2122	461	101	471
Hutchins, Stainer, Manchester, England, assignor of one-half to C. A. Gould, New York, N. Y. Dynamo	699,388	May 6	499	116	99	1279
Hutchinson, Arthur H., assignor to Frick Company, Waynesboro, Pa. Automatic water-regulator	716,449	Dec. 23	3721	810	101	2658
Hutchinson, Elias S., assignor of one-half to S. Ross, Washington, D. C. Laying tiles	703,928	July 1	1018	221	100	203
Hutchinson, John A., Chicago, Ill., assignor of two-thirds to J. E. Hutchinson and C. A. Yates. Nut-cracker	699,529	May 6	751	176	99	1380
Hutchinson, John E., et al. (See Hutchinson, John A., assignor.)						
Hutchinson, Marien W., Valdosta, Ga. Dust and cinder guard for car-windows	716,234	Dec. 16	3082	673	101	2512
Hutchinson, Miller R., New York, N. Y., assignor, by mesne assignments, to Akouphone Manufacturing Company. Apparatus for charging batteries	691,144	Jan. 14	1444	328	98	316
Hutchinson, Miller R., New York, N. Y., assignor, by mesne assignments, to Akouphone Manufacturing Company. Telephone-transmitter	710,979	Oct. 14	1090	241	101	238
Hutchinson, Miller R., New York, N. Y., assignor, by mesne assignments, to Hutchison Acoustic Company. Charging-switch	707,699	Aug. 26	3269	730	100	1840
Hutchinson, Miller R., Upper Montclair, N. J., assignor, by mesne assignments, to Hutchison Acoustic Company. Electric time-switch	712,134	Oct. 28	3373	746	101	746
Hutchinson, Miller R., Upper Montclair, N. J., assignor, by mesne assignments, to Hutchison Acoustic Company. Ear-massage apparatus	717,407	Dec. 30	5458	1184	101	3053
Huth, Alfred H., County of Middlesex, England. Spring-vehicle	716,046	Dec. 16	2692	595	101	2480
Huth, Max. (See Frölich, Huth, and Edelmann.)						
Huthsteiner, Robert E., Schenectady, N. Y., assignor to General Electric Company. Synchronizing alternators	701,886	June 10	1079	244	99	2349
Hutton, William D., Toronto, Canada. Gas-range	702,434	June 17	2085	475	99	2573
Hutton, David, Quartette, New York, N. Y., assignor, by mesne assignments, to E. E. Crook, Columbus, Ohio. Mail-pouch	690,534	Jan. 7	415	86	98	90
Hutton, Francis H. (See Barrett, Miles, assignor.)						
Hutton, James R., et al. (See Hook, Alonzo L., assignor.)						
Hutton, Joseph H. and P. J., assignors of seven-tenths to E. E. Crook, Columbus, Ohio. Sash-lock	711,502	Oct. 21	2124	461	101	471
Hutton, Philip J. (See Hutton, Joseph H. and P. J.)	706,947	Aug. 12	1818	407	100	1505
Hutton, Walter E., Chicago, Ill. Brake-shoe	716,424	Dec. 23	3454	753	101	2603
Huxley, Charles I., Athens, Mich. Artificial-stone tank	695,687	Mar. 18	2529	573	98	2275
Hyatt, Frederick G., St. James, Minn. Washing-machine	708,558	Sept. 9	1000	227	100	2195
Hyatt, H. A. (See Willerdy, John B., assignor.)						
Hyatt, Harry, and J. McGeorge, assignors to Wellman Seaver Engineering Company, Cleveland, Ohio. Reversing-valve for regenerative gas-furnaces	698,283	Apr. 22	3555	783	99	802
Hyatt, John W., Newark, N. J. Fabric-sewing machine	708,480	Sept. 2	859	196	100	2156
Hyatt, John W., Newark, N. J. Sewed warp fabric	711,898	Oct. 21	2894	640	101	634
Hyatt Roller Bearing Company. (See Marbach, Charles J., assignor.)						
Hyde, Benjamin T. B. (See Paine, George H., assignor.)						
Hyde, Charles A., Philadelphia, Pa. Identification device	697,846	Apr. 15	2715	603	99	608
Hyde, Charles L., et al. (See Vard, Vendredy, Duitte, and Gauthier, assignors.)						
Hyde, Charles L., Tuxedo Park, N. Y., assignor, by mesne assignments, to Hutchison Acoustic Company. Sound-concentrator	711,974	Oct. 28	3071	673	101	688
Hyde, Elwin R., Bridgeport, Conn. Rotary engine	694,101	Feb. 25	3600	797	98	1602
Hyde, Elwin R., Bridgeport, Conn. Apparatus for wetting emery-wheels	707,420	Aug. 19	2709	614	100	1708
Hyde, Frank H., Toronto, Canada. Rubber vehicle-tire	697,626	Apr. 15	2322	519	99	524
Hyde, Hooper, Nashville, Tenn. Wire stretching machine	705,845	July 29	4864	1057	100	1044
Hyde, Thomas H., assignor of one-half to A. Richards, Youngstown, Ohio. Door-closer	703,345	June 24	3807	875	99	2944
Hyde, Thomas H., assignor of one-half to A. Richards, Youngstown, Ohio. Water-tower	698,284	Apr. 22	3557	784	99	802
Hyde Windlass Company. (See Andrews, Jacob R., assignor.)						
Hyden, Sven, and K. A. Simonsson, Stockholm, Sweden. Apparatus for cleaning the interior of hose or like pipes	704,045	July 8	1247	269	100	262
Hydraulic Car-Brake Company. (See Montague, John R., assignor.)						
Hydro-Carbon Smelting Co. (See Boss, Martin P., assignor.)						
Hart, John, et al. Kilda, assignor to P. G. Hughes, Melbourne, Victoria, Australia. Bandoler or cartridge-belt	710,324	Sept. 30	4501	1014	100	2971
Hylland, Martin N., Fedora, S. D. Explosive-engine	698,285	Apr. 22	3561	785	99	803



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Hymers, Christopher, St. Louis, Mo. Self-striking fishing-float	711,318	Oct. 14	1780	385	101	385
Hynding, Jesse J., Ferndale, Cal. Gate	709,153	Sept. 16	2188	501	100	2462
Hyre, Clinton D., Chicago, Ill. Fireproof sash and frame	710,637	Dec. 23	3893	850	101	2697
Hyson, Archibald F., and T. Mount, Chicago, Ill. Ironing-stand	699,922	May 13	1549	357	99	1509
Ibach, Gideon R., Brooklyn, N. Y. Machine for making wooden butter-dishes, &c.	696,445	Apr. 1	92	21, 23	99	24
Ibert, Frank, Brooklyn, N. Y. Beer-cooler	714,708	Dec. 2	101	20	101	1858
Iccubator Company. (See Duncan, Joseph S., assignor.)						
Ichthyol-Gesellschaft Cordes, Hermann & Co. (See Helmers, Ludwig O., assignor.)						
icke, Henry A., Pietermaritzburg, Natal Measuring-weigh	695,459	Mar. 18	2100	473	98	2189
Ickes, Carl, Chicago, Ill. Greenhouse	712,135	Oct. 28	3375	740	101	747
Ideal Cash Register Company. (See Smith and Giles, assignors.)						
Ideal Cash Register Company. (See Smith and Susstrong, assignors.)						
Ideal Manufacturing Company. (See Van Wie, Peter G., assignor.)						
Ideal Register Co. (See Smith, Luther D., assignor.)						
Ievers, Eyre F. (See Pearse and Ievers.)						
Ife, Walter W., Buffalo, N. Y. Bulkhead-door	702,651	June 17	2498	572	99	2660
Igelstrom, Hortense T., New York, N. Y. Pin-clasp	715,808	Dec. 16	2221	494	101	2328
Igleheart Brothers <i>et al.</i> (See Cameron, John S., assignor.)						
Ihler, John D., Yonkers, N. Y. Electric operation of elevators by single push-button system	710,914	Oct. 7	967	213	101	197
Ihler, John D., Yonkers, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Electromagnetic regulator for electric currents	699,023	Feb. 11	1474	322	98	1129
Ihler, John D., Yonkers, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Electric-elevator system	697,847	Apr. 15	2716	604	99	609
Ihler, John D., Yonkers, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Reversing-switch motor	704,386	July 8	1801	393	100	378
Ihler, John D., Yonkers, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Controlling system for electric elevators	704,337	July 8	1804	394	100	378
Ihler, John D., Yonkers, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Controlling system for electric elevators	704,338	July 8	1813	394	100	381
Ihler, John D., Yonkers, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Elevator	710,581	Oct. 7	349	75, 76	101	71
Ihler, John D., Yonkers, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Motor control	713,222	Nov. 11	1434	325	101	1208
Iles, Malvern W. (See Shedy and Iles.)						
Ill, Henry, Newark, N. J. Conduit-bushing	693,398	Feb. 18	2240	491	98	1306
Illingworth, Alfred H., Addingham, England. Mechanism for pressing wool or the like into bags	698,506	Apr. 23	3943	871	99	898
Illingworth, Harry I., Lynn, assignor to C. E. Riley, Newton, Mass. Clutch	694,550	Mar. 4	416	90, 91	98	1801
Illingworth, Rochester, J. T. Mazy, and G. Naylor, Coventry, England. Apparatus for dyeing	704,191	July 8	1552	1, 334	100	325
Illinois Malleable Iron Company. (See Robertson, Alexander Y., assignor.)						
Illinois Watch Company. (See Higginbotham, Charles T., assignor.)						
Imbler, John, Clay Township, Hamilton county, Ind. Stay-wire tie	706,948	Aug. 12	1820	407	100	1565
Imel, John, assignor of one-half to G. A. Shetterly, Emerson No. 2, Iowa. Wagon-brake	716,425	Dec. 23	3455	754	101	2604
Imhof, Joseph A., New York, N. Y., assignor to American Lithographic Company. Pictorial device	698,838	Apr. 29	4682	1031	99	1062
Imhof, Edward, Zurich, Switzerland. Clothes-line	702,952	June 24	3977	708	99	2795
Immen, Lucr, New York, N. Y. Bowling-bal	712,192	Oct. 28	3467	761	101	764
Imperial Bottle Cap & Machine Company. (See Abbott, Nathaniel B., assignor.)						
Imperial Camera & Mfg. Co. (See Odquist, Victor, assignor.)						
Imperial Electric Motor Company. (See Ledwinka, Joseph, assignor.)						
Implement Manufacturing Company. (See Tinsman, Samuel H., assignor.)						
Improved Sweeper and Lifter Company. (See Thorp, Winfield S., assignor.)						
Improvements Manufacturing Company. (See Allen, Frederick E., assignor.)						
Improvements Manufacturing Company. (See Allen and Danforth, assignors.)						
Indahl, Mauritz C. (See Bancroft and Indahl.)						
Indahl, Mauritz C., Philadelphia, Pa., assignor, by mesne assignments, to Lanston Monotype Machine Company, Washington, D. C. Machine for composing tabular matter	700,330	May 20	2390	546	99	1698
Inden, Francis W., St. Paul, Minn. Clock striking mechanism	708,760	Sept. 9	1398	320	100	2279
Independent Pattern Company. (See Broach and Goodrich, assignors.)						
India Rubber Company. (See Wheeler and Kremer, assignors.)						
Indiana Manufacturing Company. (See Bradford, Chester, assignor.)						
Indiana Manufacturing Company. (See Elward, John H., assignor.)						
Indiana Manufacturing Company. (See Leonard, Charles N., assignor.)						
Indiana Manufacturing Company. (See Sharpe, Joseph K., Jr., assignor.)						
Indiana Rubber and Insulated Wire Company. (See Blake, John C., assignor.)						
Indianapolis Drop Forging Company. (See Bates, Franklin P., assignor.)						
Industrial Machine Company. (See De Long, George E., assignor.)						
Ingalls, Emerson. (See Schmid, Sophie, assignor.)						
Ingalls, Walter R. (See Ferraris, Erminio, assignor.)						
Ingemanson, C. A., <i>et al.</i> (See Darwin, Frank L., assignor.)						
Ingersoll, Frederick, <i>et al.</i> (See Donne, Leon, assignor.)						
Ingersoll, John L., Mayville, Mich. Potato-digger	704,046	July 8	1248	269	100	262
Ingersoll, Luc B., <i>et al.</i> (See Donne, Leon, assignor.)						
Ingersoll Milling Machine Company. (See Smith and Lees, assignors.)						
Ingersoll-Sergeant Drill Company. (See Prellwitz, William, assignor.)						
Ingersoll-Sergeant Drill Company. (See Sergeant and Prellwitz, assignors.)						
Ingersoll, Stephen A., Sandoval, Ill. Colter	710,395	Sept. 30	4625	1043	100	2996
Ingham, Charles R., Suffern, assignor to American Turbine Engine Company, New York, N. Y. Turbine-engine	716,047	Dec. 16	2693	595	101	2430
Ingham, Luc B., Wilkesbarre, Pa. Corset attachment and stocking-supporter	708,887	Sept. 9	1654	380	100	2323
Ingham, Thomas, Liverpool, England. Manufacture of alkaline alginates	695,209	Mar. 11	1674	98	98	2082
Ingham, Thomas, Liverpool, England. Briquet manufacture	695,210	Mar. 11	1675	98	98	2082
Ingalls, Charles E., Cambridge, England. Explosive-engine	712,067	Oct. 28	3251	712	101	722
Inglis, Maxwell S., <i>et al.</i> (See Maloney, William, assignor.)						
Ingoldsby Automatic Car Company. (See Ingoldsby and Bowling, assignors.)						
Ingoldsby, Frank S., St. Louis, Mo. Dump-car	706,662	Aug. 12	1282	283	100	1392
Ingoldsby, Frank S., St. Louis, Mo. Dump-car	706,663	Aug. 12	1283	283	100	1393
Ingoldsby, Frank S., and J. R. Bowling, assignors to Ingoldsby Automatic Car Company, St. Louis, Mo. Bolster for railway-cars	694,385	Mar. 4	96	21	98	1732
Ingraham, Chester D., Penacook, N. H. Carding-machine attachment	699,467	May 6	649	150	99	1310
Ingraham, Edwin S., Watertown, assignor to Oakville Company, Waterbury, Conn. Safety-pin	702,933	June 24	3078	708	99	2795

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Ingraham, Mattie. (See Mitchell, Eugene E., assignor.)						
Ingraham, William S. (See Throop and Ingraham.)						
Ingram, John T., et al. (See Trueblood, Samuel L., assignor.)						
Ingram, Joseph D., Benvenue, Tex. Draft-equalizer.	696,681	Apr. 1	537	123	99	116
Ingram, Oscar L. (See Williams, Ingram, and Wilson.)						
Ingram, Oscar L., Walla Walla, Wash. Accounting attachment for type-writing machines.	705,409	July 22	4004	867	100	800
Inlander, Samuel. (See Anderson, Charles, assignor.)						
Inman, Charles T., Akron, Ohio. Wall-tie.	700,932	May 27	3561	819	99	1958
Inman, Charles T., Akron, Ohio. Deposit-credit book.	702,007	June 10	1290	297	99	2393
Inman, Clarence W., et al. (See Wahman and Rehberg, assignors.)						
Inman, Edward R., Tipton, Ind. Carbureter.	700,777	May 27	3273	751	99	1902
Inman, Horace, Amsterdam, N. Y. Machine for making paper boxes.	712,068	Oct. 28	3254	712 713	101	723
Inman, Orion D. W., et al. (See Wahman and Rehberg, assignors.)						
Innes, Ellsworth, deceased, (G. Innes, Jr., administrator,) Montclair, N. J., and I. P. Hazard, Peacedale, R. I. Speed-changing device.	716,550	Dec. 23	3723	810	101	2659
Innes, George, Jr., administrator. (See Innes and Hazard.)						
Inness, Thomas E. (See Martin-Cooke, John A., assignor.)						
Inshaw, William R., Brooklyn, N. Y., assignor to I. M. Martin, Cincinnati, Ohio. Pleasure device.	690,434	Jan. 7	94	20	98	23
Interlocking Steel Sheeting Company. (See Jackson, George W., assignor.)						
International Acheson Graphite Company. (See Acheson, Edward G., assignor.)						
International Air Brake Company. (See Shortt, Edward G., assignor.)						
International Battery Company. (See Sedgwick, Frederick, assignor.)						
International Bind Stitch Company. (See Donaldson, Edwin, assignor.)						
International Chemical Company. (See Blinn, Horace S., assignor.)						
International Electric Traction Company. (See Campbell, George L., assignor.)						
International Fuel Company. (See Koenen, William A., assignor.)						
International Harvester Company. (See Benjamin and Pridmore, assignors.)						
International Harvester Company. (See Curtiss, Charles E., assignor.)						
International Leather Company of South Dakota. (See Walter, Charles M., assignor.)						
International Machine Co. (See Smith, Myron, assignor.)						
International Manufacturing Company. (See Lydon, John F., assignor.)						
International Marine Governor Company. (See Storey, Bradford W., assignor.)						
International Motor Company. (See Henneghin, Herbert H., assignor.)						
International Oil Furnace Company. (See Ward, James, assignor.)						
International Phonograph and Indestructible Record Company. (See Petit, Ademor N., assignor.)						
International Pneumatic Railway Signal Company. (See Dodgson and Corrington, assignors.)						
International Power Vehicle Company. (See Underwood, Herbert G., assignor.)						
International Silver Co. (See Betteridge, Albert J., assignor.)						
International Silver Co. (See Decherd, Constant K., assignor.)						
International Steam Pump Company. (See De Laval and Chisholm, assignors.)						
International Telephone Manufacturing Company. (See McCormick, William E., assignor.)						
International Text Book Company. (See Durand, Nelson C., assignor.)						
International Time Recording Company. (See Deubner, John W., assignor.)						
International Time Recording Company. (See Jaynes, Alfonso L., assignor.)						
International Time Recording Company. (See Jaynes and Deubner, assignors.)						
International Tin Plate Corporation. (See Allis, Thomas V., assignor.)						
International Typal Telegraph Company. (See Himrod, Tucker, and Hinckley, assignors.)						
Into, John M., Newport, R. I., assignor of two-thirds to C. Barr, New York, and L. Miller, Brooklyn, N. Y. Sail-hank.	712,303	Oct. 23	3660	799	101	804
Introstile & Novelty Co. (See Steger, William, assignor.)						
Invention Developing Company. (See Gill, Edwin R., assignor.)						
Iowa Iron Works. (See Hopkins, William, assignor.)						
Iowa Iron Works Co. (See Hopkins, William, assignor.)						
Iowa Mantle Manufacturing Company. (See Bredow, John F., assignor.)						
Iredale, John C., Toronto, Canada. Last.	692,447	Feb. 4	397	96	98	880
Ireland, Olivia D. (See Ketteringham, John P., assignor.)						
Irish, Frank M. (See Smith, John G., assignor.)						
Irish, Fremont L., Auburn, assignor of one-half to A. D. Hall, L. B. and E. R. Jones, Winthrop, Me. Acetylene gas generator.	713,223	Nov. 11	1438	326 327	101	1209
Irish, Hiram E., Melle, Iowa. Animal-poke.	706,063	Aug. 5	122	25	100	1142
Iron Clad Manufacturing Company. (See Gilman, Edward R., assignor.)						
Iron Clad Manufacturing Company. (See Seaman, Elizabeth C., assignor.)						
Irons, Fred A., assignor of one-half to E. H. Guillott, Chicago, Ill. Metallic packing device.	701,730	June 3	815	180	99	2278
Irvine, Harry B., Allegheny, assignor to Pressed Steel Car Company, Pittsburg, Pa. Metal-crimping machine.	711,631	Oct. 21	2370	520	101	523
Irvine, Fred G. (See Braden, John B., assignor.)						
Irvine, John S., et al. (See Blackwell, Edwin O., assignor.)						
Irvine, Thomas A., Hornsey, assignor to D. McVean, Chiswick, London, England. Extraction of copper by the wet method.	699,326	May 6	371		99	1249
Irving, David H., assignor of one-half to J. Chase, Boston, Mass. Bottle-cleaner.	700,499	May 20	2722	623	99	1767
Irving, James A., Philadelphia, Pa. Toy top.	698,286	Apr. 22	3562	785	99	803
Irving, John. (See Robinson, Ralph C., assignor.)						
Irving, Julius B., assignor of one-half to J. D. Havens, Kansas City, Mo. Loose-sheet binder.	706,949	Aug. 12	1820	407	100	1505
Irving, Robert J., Port Carlisle, England. Hinge device.	693,971	Feb. 25	3345	735	98	1549
Irwin, Elijah D., Furches, N. C. Horse-detacher.	703,587	July 1	374	86	100	74
Irwin, Herbert E., Galesburg, Ill. Doffer for cutter-guards.	700,933	May 27	3562	820	99	1959
Irwin, Herbert E., Galesburg, Ill. Alarm device for binders.	704,684	July 15	2441	527 528	100	526
Irwin, Samuel, Lindsay, Canada. Propeller.	713,441	Nov. 11	1879	426	101	1299
Irwin, Thomas H., Jersey City, N. J., and H. J. Miller, Brooklyn, N. Y. Carbonating-machine.	697,723	Apr. 15	2497	558	99	560
Irwin, Wilson. (See Dobson, Alexander, assignor.)						
Isaacs, Marcus C., Chicago, Ill. Fish-brush.	702,136	June 10	1537	347	99	2443
Isbell, Charles W., New York, N. Y. Apparatus for the manufacture of illuminating-gas.	693,137	Feb. 11	1713	375	98	1177
Isbell, Charles W., New York, N. Y. Gas-retort.	699,870	May 13	1442	333	99	1435
Isbell, Charles W., New York, N. Y. Gas-retort.	706,238	Aug. 5	455	97	100	1209
Isbell, Charles W., New York, N. Y. Manufacturing illuminating-gas.	707,783	Aug. 26	3472	782	100	1881



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Isbill, Isaac. (See Rose and Isbill.)						
Iseberg, Harry. (See Iseberg, Wagner, and Iseberg.)						
Ishoy, Frederik, Copenhagen, Denmark. Separable and reversible cycle	693,521	Feb. 18	2473	542	98	1355
Isler, Herman R., assignor to C. F. Hilker, Hamilton, Ohio. Differential-speed mechanism	704,645	July 15	2380	515 516	100	513
Isler, Max H., Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Anthracene dyed and making same	715,962	Dec. 9	1912		101	2244
Isnard, Edouard. (See Granjon and Isnard.)						
Israel, Alexander C., Laporte, Tex. Washing-machine	706,418	Aug. 5	841	184	100	1283
Israel, Elijah F., assignor of one-half to R. C. and G. W. Israel, Wichita, Kans. Seed-planter	701,569	June 3	520	114	99	2216
Israel, George W., et al. (See Israel, Elijah F., assignor.)						
Israel, R. C., et al. (See Israel, Elijah F., assignor.)						
Israelson, Iver C., Sisseton, S. D. Jaw attachment for vices	712,136	Oct. 28	3377	741	101	747
Isserlis, Issai, Kiev, Russia. Lime, cement, or like kiln	691,145	Jan. 14	1146	359	98	816
Itter, Herbert C., Bay City, Mich. Car-fender	714,910	Dec. 2	552	117 118	101	1946
Ivens, Edmund M., deceased, New Orleans, La.; H. K. Ivens, administrator. Pump mechanism	705,844	July 29	4865	1057	100	1045
Ivens, Harry K., administrator. (See Ivens, Edmund M.)						
Iversen, Michael. (See Omsted and Iversen.)						
Iversen, Ole, East Berkeley, Cal. Hose-coupling clamp	693,024	Feb. 11	1475	332	98	1130
Iverson, John G., assignor to E. Cottrell, Minneapolis, Minn. Wire-straightener	710,151	Sept. 30	4195	945	100	2301
Ives, Frederic E., Philadelphia, Pa. Photochromic apparatus	703,923	July 1	1019	221	100	203
Ives, Frederic E., Philadelphia, Pa. Producing trichromatic half-tone-process negatives	707,421	Aug. 19	2710	614	100	1798
Ives, Frederic E., Philadelphia, Pa. Photographic attachment for optical instruments	707,422	Aug. 19	2712	614 615	100	1798
Ives, Harry C., assignor to Ives Manufacturing Corporation, Bridgeport, Conn. Joint for toy railway-tracks	708,888	Sept. 9	1655	380	100	2332
Ives Manufacturing Corporation. (See Ives, Harry C., assignor.)						
Ives, Martin V. B., Potsdam, N. Y. Cover for sap-buckets	717,005	Dec. 30	4700	1019	101	2891
Iveson, Albert E., Gainsborough, and A. B. Wilson, Brighton, England; said Wilson assignor to said Iveson. Preparing fat in granular form	716,235	Dec. 16	3083	673	101	2512
Ivey, Curtis. (See Ivey, Joel C., Sr., assignor.)						
Ivey, Joel C., Sr., assignor of one-third to C. Ivey, Augusta, Ga. Vegetable-cutter	703,588	July 1	375	86	100	74
Ivins, Dietz & Metzger Company. (See Hardwick, Harry, assignor.)						
Ivor, Barry, assignor to C. M. Rogers and L. C. Rollo, Chicago, Ill. Mechanical movement	702,652	June 17	2501	573	99	2661
Ivor, Barry, assignor to G. M. Rogers and L. C. Rollo, Chicago, Ill. Apparatus for operating lubricating-pumps	709,986	Sept. 30	3874	873	100	2837
Ivor, Barry, and J. S. Ward, Chicago, Ill. Pump	706,564	Aug. 12	1097	243	100	1353
Ivor, Barry, and J. S. Ward, Chicago, Ill. Valve	708,145	Sept. 2	272	65	100	2037
Iwan, William L., Streator, Ill. Knife for cutting hay, cane, &c.	696,050	Mar. 25	3198	722	98	2427
J. Ellwood Lee Company. (See Garson, William H., assignor.)						
J. Ellwood Lee Company. (See Jones, Louis E., assignor.)						
J. Stevens Arms & Tool Company. (See Fay, Charles E., assignor.)						
J. Stevens Arms & Tool Company. (See Fay and Ferguson, assignors.)						
J. A. Fay & Egan Company. (See Thomas, John R., assignor.)						
J. B. Coit Company. (See Long, David N., assignor.)						
J. B. Knott and Cumberland Foundry & Manufacturing Company. (See Davidson, Otis E., assignor.)						
J. C. Bartlett Company. (See Anshutz, Frank, assignor.)						
J. C. Blair Company. (See Sleeman and Africa, assignors.)						
J. C. Rhodes & Co. (See Rhodes, John C., assignor.) (Reissue.)						
J. E. Mergott Company. (See Fuller, Albert F., assignor.)						
J. E. Mergott Company. (See Witte, Ernst E., assignor.)						
J. F. Pease and Company. (See Dutton, Samuel T., assignor.)						
J. G. and F. Clothes Pin Co. (See Carr, Charles, assignor.)						
J. H. Horne & Sons Company. (See Barrett and Horne, assignors.)						
J. H. Horne & Sons Company. (See Bradbury, Charles J., assignor.)						
J. H. Sears Company. (See Lombard, Walter E., assignor.)						
J. H. Williams and Company. (See Amborn, George, Jr., assignor.)						
J. H. Williams and Company. (See Bufford, George W., assignor.)						
J. I. Case Threshing Machine Company. (See MacGregor, Wallace F., assignor.)						
J. K. Osborn Manufacturing Company. (See Grimm, Theodore E., assignor.)						
J. K. Osborn Manufacturing Company. (See Weber, Adam, assignor.)						
J. L. Mott Iron Works. (See Falt, Carl A., assignor.)						
J. L. Mott Iron Works. (See Hooper, Louis M., assignor.)						
J. L. Mott Iron Works. (See Mott, Jordan L., Jr., assignor.)						
J. L. Mott Iron Works. (See Reid and Hooper, assignors.)						
J. L. Thomson Manufacturing Company. (See Thomson, Judson L., assignor.)						
J. L. White Furnace Company. (See White, James L., assignor.)						
J. M. Atkinson Company. (See Platt, William E., assignor.)						
J. S. Thorne Company. (See Rupp, Charles, assignor.)						
J. T. Robertson Company. (See Kendrick, Dyer T., assignor.)						
J. T. Slocumb Company. (See Slocumb, John T., assignor.)						
J. W. Paxson Company. (See Warren, Ambrose G., assignor.)						
J. W. Ruger Manufacturing Company. (See Fenner, Jess B., assignor.)						
J. W. Sefton Manufacturing Company. (See Ferres, Jeffrey T., assignor.)						
J. W. Sefton Manufacturing Company. (See Goodnow, Charles H., assignor.)						
J. W. Sefton Manufacturing Company. (See Keller, Charles F., assignor.)						
Jablonowsky, Paul, Hamburg, Germany. Hoisting device	709,222	Sept. 16	2329	528	100	2490
Jack, Robert E., Oshkosh, assignor of one-half to H. Diestler, Hortonville, Wis. Cigar-clipper and match-lighter	700,331	May 20	2303	547	99	1699
Jackling, Daniel C., Republic, Wash. Rabble-carriage	706,755	Aug. 12	1468	323 324 325	100	1433
Jackling, Daniel C., Republic, Wash. Ore-roasting furnace	706,756	Aug. 12	1471	325 326 327	100	1433
Jackling, Daniel C., Republic, Wash. Sprocket-wheel	708,232	Sept. 2	438	100	100	2071
Jackman, Wilbert J., Lima, Ohio. Self-cleaning needle-valve	692,856	Feb. 11	1132	253	98	1056
Jackman, William J., Cleveland, Ohio. Cable mechanism for hauling loads up inclined surfaces	704,830	July 15	2730	591	100	584
Jackmond, William, Shuqualak, Miss. Reamer	695,559	Mar. 18	2294	518	98	2228
Jacks, Fred S. and W. D., San Francisco, Cal.; said W. D. Jacks assignor to said Fred S. Jacks. Carbureter	692,518	Feb. 4	535	126	98	907

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Jacks, William D. (See Jacks, Fred S. and W. D.)						
Jackson, Alfred G., Brisbane, Queensland. Bicycle luggage-carrier	601,864	Jan. 28	2843	640	98	644
Jackson, Benjamin A. (See Dunn, Hugh T., assignor.)						
Jackson, Benjamin F., North Cambridge, assignor of three-fourths to J. W. Lovett, Wollaston, W. R. Reeve, Dorchester, and M. P. Flattery, Boston, Mass. Steam-boiler	690,730	Jan. 7	716	158	98	151
Jackson, Carey P., Lawrenceville, Ga. Well-bucket	713,442	Nov. 11	1880	426	101	1300
Jackson, Carl, Denver, Colo. Hoisting and dumping device	711,049	Oct. 14	1232	273	101	273
Jackson, Charles E., Rockford, Ill. Switch-operating apparatus	690,327	May 6	372	87, 88	99	1249
Jackson, Charles J., Erie, Pa., assignor, by mesne assignments, to R. G. Wright, Westfield, N. Y. Screw-cutting die	707,233	Aug. 19	2356	528	100	1635
Jackson, D. V., et al. (See Boos, Joseph B., assignor.)						
Jackson, David, Tickhill, England. Potato-plow	707,114	Aug. 19	2133	475 476	100	1587
Jackson, E. Hilton, et al., trustees. (See Cahill, Thaddeus, assignor.)						
Jackson, Edward E., London, England. Bridge for musical instruments	698,955	Apr. 29	4878	1076 1077	99	1102
Jackson, Edwin E. (See Murray and Jackson.)						
Jackson, Erskine H., Chicago, Ill. Detachable fastener for hinges	690,530	May 6	733	176	99	1830
Jackson, Frederick H., and G. M. Pierce, Cleveland, Ohio. Catch-basin cover and sewer-inlet	714,185	Nov. 25	3374	743	101	1646
Jackson, Frederick W., Chicora, Pa. Sand pump and bailer	702,653	June 17	2553	739	99	2861
Jackson, George A., et al. (See Ridlon, Charles A., assignor.)						
Jackson, George M., Catharine, N. Y. Separator	707,701	Aug. 26	3273	731	100	1841
Jackson, George W., assignor to Interlocking Steel Sheet Company, Chicago, Ill. Metal sheet-piling	697,943	Apr. 15	2393	638	99	645
Jackson, George W., and E. O. Fearnley, Manchester, England. Multicolor-printing machine	697,487	Apr. 15	2066	456 457	99	474
Jackson, Inda R., Santa Clara County, Cal. Portfolio	712,137	Oct. 28	3377	741	101	747
Jackson, James. (See Long and Jackson.)						
Jackson, James B., assignor of one-half to J. A. McClurg, Denver, Colo. Metallic-clothes-line supporter	714,704	Dec. 2	102	20	101	1858
Jackson, James E. (See Müller and Jackson.)						
Jackson, James E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Pulling-over machine	700,332	May 20	2396	547	99	1700
Jackson, James E., Jackson, Tenn., and W. R. Jackson, Franklin, Ky. Pivot-grinding attachment for jewelers' lathes	715,603	Dec. 9	1914	427	101	2344
Jackson, James H., Denver, Colo., assignor of one-fourth to F. Schoff, Philadelphia, Pa. Power-hammer	709,820	Sept. 23	3523	794	100	2752
Jackson, James L., Williamsport, Pa. Camera attachment	703,431	July 1	101	22	100	23
Jackson, John Alwick, England. Toy	703,422	July 1	102	22	100	23
Jackson, John, Grandcaue, La. Cattle-guard gate	711,864	Oct. 21	2828	626	101	621
Jackson, John P., Liverpool, England. Apparatus for serving aerated waters on draft	708,714	Sept. 9	1205	205	100	2355
Jackson, John W., Amsterdam, N. Y. Smoke-consumer	695,155	Mar. 11	1576	350	98	2063
Jackson, Joseph H., Allegheny, Pa. Spirit-level	691,631	Jan. 21	2392	537	98	532
Jackson, Joseph H., Chicago, Ill. Heel for boots or shoes	702,137	June 10	1538	347	99	2443
Jackson, Joseph P., Southampton, Cal. Scissors or shears	711,503	Oct. 21	3125	461	101	471
Jackson, Margaret. (See Artos and Jackson.)						
Jackson, Oswald, Carrollton, Ill. Valve-gear for engines	691,384	Jan. 21	1943	437	98	439
Jackson, Oswald, Carrollton, Ill. Mirror	713,643	Nov. 18	2295	511	101	1399
Jackson, Pearson J., Newcastle-upon-Tyne, England. Apparatus for displaying pictures	713,988	Nov. 18	2957	656	101	1540
Jackson, Peter H., San Francisco, Cal. Sidewalk trap-door	690,468	May 6	650	150	99	1310
Jackson, Peter H., San Francisco, Cal. Automatic locking mechanism for sidewalk or other elevator doors	704,746	July 15	2567	553	100	551
Jackson, Robert D., Reno, Nev. Settling-tank	710,462	Oct. 7	116	26, 27	101	25
Jackson, Samuel, Fayetteville, N. Y. Hoisting and conveying machine	701,887	June 10	1080	245 246	99	2350
Jackson, Samuel, Fayetteville, N. Y. Differential-speed power-transmitting mechanism	706,664	Aug. 12	1286	283 284	100	1393
Jackson, Samuel, Jr., Philadelphia, Pa., assignor to S. Jackson's Sons. Fuse	712,932	Nov. 4	878	205	101	1077
Jackson, Simeon. (See Smith and Jackson.)						
Jackson, Sydney A., Heaton Chapel, and L. Lang, Old Trafford, Manchester, England. Apparatus for supplying aerated liquids on draft	692,292	Feb. 4	134	31	98	826
Jackson, Thomas B., Belmont, Ohio. Fireplace-heater	694,155	Feb. 25	3700	817	98	1621
Jackson, Walter C., Medford, Wis. Domestic vessel	712,540	Nov. 4	153	37	101	929
Jackson, William A. (See Müller and Jackson.)						
Jackson, William B., Denver, assignor to Smoke Exterminator and Fume Condenser Company, Pueblo, Colo. Apparatus for condensing smoke, fumes, and gases	700,934	May 27	3564	820	99	1950
Jackson, William R. (See Jackson, James E. and W. R.)						
Jackson, Willis K., et al. (See Ridlon, Charles A., assignor.)						
Jackson, Zeremba E., Atchison, Kans. Telephone-call annunciator	709,327	Sept. 16	2540	571	100	2535
Jackson's Sons, Samuel. (See Jackson, Samuel, Jr., assignor.)						
Jacob, Frederick, Jr., Newark, N. J. Attachment-holder for sewing-machines	705,354	July 22	3013	848	100	840
Jacob, Henry W. (See Vessel and Jacob.)						
Jacob, Winn G., et al. (See Davis, Lot, assignor.)						
Jacobi, Alwin. (See Rudolphs and Ladin, assignors.)						
Jacobs, Albert C., Birmingham, Ala. Swing	704,192	July 8	1553	335	100	326
Jacobs, Arthur I., Hartford, Conn. Drill-chuck	709,014	Sept. 16	1919	440	100	2404
Jacobs, Arthur I., assignor to Smyth Manufacturing Company, Hartford, Conn. Machine for casing in books	690,959	Jan. 14	1113	251 252	98	248
Jacobs, Arthur I., assignor to Smyth Manufacturing Company, Hartford, Conn. Combined spool-holder and tension device for sewing-machines. (Reissue)	11,906	May 27	4194	962	99	2089
Jacobs, Charles B. (See Bradley, Read, and Jacobs.)						
Jacobs, Charles B., East Orange, assignor to Ampere Electro-Chemical Company, Jersey City, N. J. Manufacturing sulfuric acid from sulfur dioxide in aqueous solution by electrolysis	704,831	July 15	2733	591	100	585
Jacobs, Charles E., East Orange, N. J., assignor, by mesne assignments, to G. S. Ettla, Niagara Falls, N. Y. Object of refractory material and manufacturing same	711,319	Oct. 14	1782	355	101	386
Jacobs, Charles M., New York, N. Y. Tunnel	690,960	Jan. 14	1119	251	98	250
Jacobs, Frederic B., and H. D. Waterhouse, Quincy, Mass. Test-indicator	715,582	Dec. 9	1775	393 394	101	2215
Jacobs, Harry R., Castlegate, Utah. Drill	702,217	June 10	1688	380	99	2472
Jacobs, Henry J., Burlington, Iowa. Machine for sharpening band-cutter knives	711,805	Oct. 21	2829	636	101	632
Jacobs, Henry J., Buffalo, N. Y. Clip for upholstering purposes	704,542	July 15	3217	480	100	479
Jacobs, Jehu, Henley, Cal. Apple-parer	700,700	Aug. 26	3270	731	100	1841
Jacobs, John, Chicago, Ill. Window-sash ventilator	700,935	May 27	3565	820	99	1959



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Jacobs, Maurice, New York, and A. P. Black, Brooklyn, N. Y.; said Jacobs assignor to said Black. Respirator	712,304	Oct. 28	3661	799	101	804
Jacobs, Olaus B., Roland, Iowa. Gate	703,130	June 24	3430	785	99	2865
Jacobs, Olaus B., Roland, Iowa. Gate	703,123	July 1	103	22	100	23
Jacobs, Samuel, Lawrence, Kans. Elevated hay-carrier	714,306	Nov. 25	3606	794	101	1693
Jacobs, William A., et al. (See Zangel, Joseph, assignor.)						
Jacobs, William S., et al. (See McCombie, Joseph C., assignor.)						
Jacobs, William S., Malden, Mass. Tag-holder	705,762	July 29	4729	1023	100	1915
Jacobsen, John, Lethbridge, Canada. Fish cleaner and scaler	717,408	Dec. 30	5459	1154	101	3053
Jacobsen, John A., et al. (See Wright, Harry L., assignor.)						
Jacobsen, Peter, Neenah, Wis. Expansion-pulley	693,545	Feb. 18	2518	555	98	1364
Jacobson, Axel E., Minneapolis, Minn. Bed-rail fastener	696,374	Mar. 25	2896	864	98	2569
Jacobson, Cornelius. (See Johnson and Jacobson.)						
Jacobson, Edward B. (See Folger, Moriarty, and Jacobson.)						
Jacobson, Edward B., assignor, by mesne assignments, to T. H. Neilsen, Boston, Mass. Electric massage-machine	698,092	Apr. 22	3045	669	99	696
Jacobson, Edward B., Pittsfield, assignor to T. H. Neilsen, Boston, Mass. Electrical measuring instrument	704,543	July 15	2218	480	100	479
Jacobson, Fritz, Brooklyn, N. Y. Vaporizer	691,772	Jan. 28	2677	600	98	610
Jacobson, John A., Evanston, Ill. Hot-water heater	711,571	Oct. 21	2259	490	101	500
Jacobson, Louis. (See Weinberg, Bernhard, assignor.)						
Jacobson Machine Manufacturing Company. See Long, John R., assignor.)						
Jacobson, Samuel H., assignor to National Ventilating Company, New York, N. Y. Ventilator	716,714	Dec. 23	4022	882	101	2732
Jacoby, Charles A., Waterloo, Iowa. Valve	692,293	Feb. 4	135	32	98	826
Jacoby, Charles B., West Nanticoke, Pa. Combined curtain-fixture and curtain-support	709,578	Sept. 23	2077	684	100	2660
Jacoby, Josiah, assignor of one-half to L. Hartel, Lodi, Ohio. Eaves-trough hanger	716,841	Dec. 23	4369	947	101	2806
Jacoby, Julius, Lodi, Ohio. Eaves-trough hanger	693,715	Feb. 18	2477	627	98	1490
Jacoby, William, assignor of seventeen-twentieths to J. E. and P. Snyder, J. A. Wilson, Fulda, Minn., and M. Redinger, Freeport, Ill. Magazine-hammer	701,731	June 3	816	180	99	2278
Jacoby, William H., Minneapolis, Minn. Fish-hook	713,306	Nov. 11	1654	372	101	1251
Jacoby, William H., Minneapolis, Minn. Fish-cleaning device	717,216	Dec. 30	5105	1106	101	2979
Jacques, Warren W., Little Genesee, N. Y. Steak-tenderer	700,500	May 20	2723	623	99	1767
Jaeger, Alexander, Philadelphia, Pa. Show-case	701,888	June 10	1084	246	99	2351
Jaeger, August, Philadelphia, Pa. Saw-clamp	705,930	July 29	5025	1093	100	1077
Jaeger, Carl H., Leipzig, Germany. Plastic homogeneous packing	711,866	Oct. 21	2831	636	101	622
Jaeger, Frederick W., New York, N. Y. Mechanical movement	700,902	May 20	2119	485	99	1645
Jaeger, Herman J., New York, N. Y. Dental lamp	692,294	Feb. 4	136	32	98	827
Jaeger, Herman J., New York, N. Y. Incandescent lamp	703,791	July 1	773	169	100	155
Jaekel, Georg P., Frankfurt-on-the-Main, Germany. Box or chest	716,551	Dec. 23	3725	811	101	2659
Jahnel, Edmund, Döbern, Niederlausitz, Germany. Urine-receptacle	703,131	June 24	3422	785	99	2865
Jaffray, Edward S., trustee. (See Smith, Amour C., assignor.)						
Jagenberg, Ferd E., Dusseldorf, Germany. Machine for making boxes	713,706	Nov. 18	2528	566	101	1450
Jagenberg, Ferd E., and R. Högfeldt, Dusseldorf, Germany. Machine for coating labels with adhesives	706,757	Aug. 12	1476	327	100	1434
Jagger, Joseph. (See Dimick and Jagger.)						
Jagodnig, Jacob T., Dale, Wis. Pocket-book	715,809	Dec. 16	2922	495	101	2928
Jähning, Robert E., New York, N. Y. Gas-lighter	695,728	Mar. 18	2395	587	98	2380
Jahnz, Erwin H., Westend, assignor to P. Meyer Actiengesellschaft, Berlin, Germany. Cash-register	700,778	May 27	3275	751	99	1902
Jahnz, Erwin H., Westend, assignor to Dr. Paul Meyer Actiengesellschaft, Berlin, Germany. Device for cutting off pieces of belts, &c	709,408	Sept. 16	2714	609	100	2572
Jahrmarkt, Friedrich M. (See Julius and Jahrmarkt.)						
James, Albert E., assignor of one-half to A. B. Learned, Natchez, Miss. Switch	711,320	Oct. 14	1783	385	101	386
James, Alfred, London, England. Apparatus for precipitating gold and silver from their solutions	705,589	July 29	4410	956	100	953
James, Charles C., Memphis, Tenn. Switch-throwing device	701,889	June 10	1085	246	99	2351
James, Charles W., Philadelphia, Pa. Weaving wire	704,330	July 8	1819	394	100	388
James, Charles W., Philadelphia, Pa. Reversing mechanism	706,827	Aug. 12	1604	360	100	1462
James, Charles W., Philadelphia, Pa. Machine for facing nuts, &c	711,504	Oct. 21	2126	462	101	471
James, Charles W., Philadelphia, Pa. Wire-weaving machine	717,297	Dec. 30	5106	1107	101	2979
James, Charles W., Philadelphia, Pa. assignor to Russell, Burdick & Ward Bolt and Nut Company, Port Chester, N. Y. Thread-cutting machine	701,732	June 3	820	181	99	2279
James, Daniel P., Eureka, Ill. Alloy	709,268	Sept. 16	2429	609	100	2571
James, David and J. A., Coffeyville, Kans. Grain-door for cars	714,705	Dec. 2	103	20	101	1858
James Dunlap Carpet Company. (See Hamilton, Joseph, assignor.)						
James, Frederick H. L., Pawtucket, R. I., assignor to Saco and Pettee Machine Shops, Newton, Mass. Cleansing-trunk	690,652	Jan. 7	550	119	98	117
James, Frederick H. L., Pawtucket, R. I., assignor to Saco and Pettee Machine Shops, Newton, Mass. Cleansing-trunk for cotton or other pickers	690,653	Jan. 7	551	119	98	118
James, Frederick H. L., Pawtucket, R. I., assignor to Saco and Pettee Machine Shops, Newton, Mass. Cleansing-trunk for cotton or other pickers	690,654	Jan. 7	553	120	98	118
James H. Baker Manufacturing Company. (See Baker, James H., assignor.)						
James, John A. (See James, David and J. A.)						
James, John F., and R. M. Kippen, Melbourne, Canada. Catamenial bandage	709,223	Sept. 16	2330	528	100	2401
James, John T., Altus, Okla. Ter. Cotton-chopper	694,470	Mar. 4	863	59	98	1768
James McCrear & Co. (See Baldwin, Judson A., assignor.)						
James, Otto H., Mogollon, N. Mex. Ter. Toy	696,051	Mar. 25	3200	723	98	2428
James Rees Sons' Company. (See McCall, Harry M., assignor.)						
James Smith and Company. (See Moffat, George, assignor.)						
James, Thomas S., Shenandoah, Pa. Lubricator	691,632	Jan. 21	2393	538	98	532
James, Tudor C., Manistee, Mich. Electric coupling	699,469	May 6	651	151	99	1310
James, Ulysses S., assignor of two-thirds to C. M. Smith and M. S. Dean, Anaconda, Mont. Automatic weighing-machine	706,565	Aug. 12	1099	243	100	1353
James, Will S., Fort Worth, Tex. Combined baking-stove and steam-cooker	701,733	June 3	822	181	99	2280
James, Willard C., Cucamonga, Cal. Apartment-house	700,501	May 20	2724	623	99	1767
Jameson, William L., Denver, Colo. Steam-separator	696,446	Apr. 1	97	22	99	26
Jamieson, James A., Montreal, Canada. Elevator-bin	704,805	July 15	2682	579	100	573
Jamieson, James A., Montreal, Canada. Bin	704,806	July 15	2685	580	100	574
Jamieson, John. (See Jamieson, Walter, assignor.)						
Jamieson, Walter, assignor to J. Jamieson, Brooklyn, N. Y. Rotary engine	709,908	Sept. 30	3711	837	100	2803

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Jamieson, William, and F. J. Odling, Melbourne, Victoria. Apparatus for sifting pulverized ores or the like.	690,731	Jan. 7	718	158	98	151
Jamison, Alcino B., New York, N. Y. Syringe.	710,426	Dec. 23	3456	754	101	2604
Jamison, Benton K., Philadelphia, Pa., assignor, by mesne assignments, to National Steel Refining Company, Wilmington, Del. Manufacture or treatment of armor-plates.	690,961	Jan. 14	1121	255	98	250
Jamison, Benton K., Philadelphia, Pa., assignor, by mesne assignments, to National Steel Refining Company, Wilmington, Del. Treatment of armor-plates.	690,962	Jan. 14	1124	-----	98	251
Jamison, Benton K., Philadelphia, Pa., assignor, by mesne assignments, to National Steel Refining Company, Wilmington, Del. Preparing solutions for the treatment of steel.	690,963	Jan. 14	1125	-----	98	251
Jamison, Frank C. (See Henis and Jamison.)	-----	-----	-----	-----	-----	-----
Jamison, Thomas M., Memphis, Tenn. Incandescent burner.	711,321	Oct. 14	1784	385	101	386
Jandorf, H. H., et al. (See Chincock, George H., assignor.)	-----	-----	-----	-----	-----	-----
Jandus Electric Company. (See Stowe, Bernard A., assignor.)	-----	-----	-----	-----	-----	-----
Janes, George E., Cleveland, Ohio. Automatic railway-switch.	709,015	Sept. 16	1920	440	100	2404
Janes, Heman D., Saginaw, Mich. Urinal.	706,566	Aug. 12	1102	244	100	1354
Janes, John M. (See Laue and Janes.)	-----	-----	-----	-----	-----	-----
Janes, Orlando F. (See Weeks, Samuel V., assignor.)	-----	-----	-----	-----	-----	-----
Janes, William D., Saginaw, Mich. Cap for shingle rollers.	713,644	Nov. 18	2297	512	101	1400
Janesville Machine Company. (See Cobb, Samuel C., assignor.)	-----	-----	-----	-----	-----	-----
Janetschek, Hermann, Vienna, Austria-Hungary. Water-pipe boiler.	702,954	June 24	3079	708	99	2796
Janin, John V., assignor of one-half to C. Claeys, Seattle, Wash. Level and plumb.	691,146	Jan. 14	1448	329	98	816
Janisch, Joseph C., de Paris, France. Vending-machine.	702,218	June 10	1689	380	99	2473
Janisch, Maximilian P., Muskegon, Mich. Alarm.	699,531	May 6	754	176	99	1330
Janisch, Maximilian P., Muskegon, Mich. Clothes-wringer.	715,077	Dec. 2	832	174	101	2006
Janke, Gustav, Algoma, Wis. Burglar-alarm.	700,652	May 20	2981	681	99	1832
Jankowsky, William, St. Louis, Mo. Enameling metal ware.	691,268	Jan. 14	1674	381	98	365
Janney, William S. (See Scott, Gordon J., assignor.)	-----	-----	-----	-----	-----	-----
Jannson, Louis, Brooklyn, N. Y. Car-seat.	701,047	May 27	3773	865	99	2004
Jannus, Stephen D., San Carlos, Ariz. Tar. Device for altering the shape of horseshoes.	691,385	Jan. 28	1948	487	98	440
Jannuzzi, Raphael, Allegheny, Pa. Box.	704,701	July 15	2475	534	100	533
Jansen, Bruno, Meiningen, Germany. Manufacturing rotary cutters.	703,930	July 1	1021	-----	100	203
Jansen, Emily J., executrix. (See Jansen, Sylvester H.)	-----	-----	-----	-----	-----	-----
Jansen, Gerhard, and H. Messmann, Chicago, Ill. Strength-tester.	702,435	June 17	2086	475	99	2573
Jansen, Sylvester H., deceased, Buffalo, N. Y.; E. J. Jansen, executrix. Car-rigging or draft appliances for railway-cars.	708,481	Sept. 2	865	197	100	2157
Jansen, Thomas. (See Khotinsky, Achilles de, assignor.)	-----	-----	-----	-----	-----	-----
Janson, Frederick H., Brooklyn, N. Y. Seat.	692,141	Jan. 28	3345	757	98	744
Janson, Louis, Brooklyn, N. Y. Seat.	694,283	Feb. 25	3940	877	98	1669
Janson, Louis, Brooklyn, N. Y. Foot-rest for car-seats.	710,715	Dec. 23	4023	882	101	2723
Janson, Louis, Brooklyn, N. Y. Car-seat.	717,208	Dec. 30	5109	1108	101	2980
Jansen, Carsten D., assignor of one-half to J. H. Rosenbeck, Torrington, Conn. Rotary engine.	712,450	Oct. 28	3950	864	101	867
Janssen, Henry, assignor to Textile Machine Works, Incorporated, Reading, Pa. Knitting-machine.	709,154	Sept. 16	2189	501	100	2462
Janssen, Henry, Wyomissing, near Reading, assignor to Textile Machine Works, Reading, Pa. Adjustable crank.	711,724	Oct. 21	2553	561	101	562
Jagues, Warren W., Little Genesee, N. Y. Trace-hook.	695,056	Mar. 11	1384	304	98	2422
Jagues, William E., assignor to A. O. Crozier, Grand Rapids, Mich. Rail-support.	710,152	Sept. 30	4197	945	100	2905
Jagues, William E., assignor to A. O. Crozier, Grand Rapids, Mich. Rail-support.	710,153	Sept. 30	4198	945	100	2905
Jagues, William E., assignor to A. O. Crozier, Grand Rapids, Mich. Rail-support.	710,154	Sept. 30	4200	946	100	2905
Jagues, William E., assignor to A. O. Crozier, Grand Rapids, Mich. Roadway.	712,541	Nov. 4	154	37	101	929
Jarboe, Walter S., Pittsburg, Pa. Packing for piston-rods.	715,664	Dec. 9	1915	427	101	3244
Jardine, John S., assignor to P. L. H. Jardine, Philadelphia, Pa. Stair-carpet fastener.	697,488	Apr. 15	2068	457	99	474
Jardine, Phoebe L. H. (See Jardine, John S., assignor.)	-----	-----	-----	-----	-----	-----
Jarmin, George W., Decatur, Ill. Planting-machine.	710,980	Oct. 14	1091	241	101	238
Jarrett, George Q. (See Highers, Charlie, assignor.)	-----	-----	-----	-----	-----	-----
Jarry, Henry J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop-motion for looms.	697,253	Apr. 8	1627	365	99	366
Jarry, Henry J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop-motion for looms.	702,654	June 17	2504	573	99	2661
Jarvis, Denzil J., J. W. Wadkin, Leicester, and T. S. King, Colchester, England. Glassing-bar.	690,732	Jan. 7	720	159	98	151
Jarvis, Denzil J., J. W. Wadkin, Leicester, and T. S. King, Colchester, England. Apparatus for providing bars or the like with a covering of extruded material.	692,295	Feb. 4	137	32, 33	98	827
Jarvis, Edgar B., Toronto, Canada. Drawing-board.	697,848	Apr. 15	2723	604	99	610
Jarvis, Harold, assignor of one-half to R. H. Thompson, Buffalo, N. Y. Bicycle.	690,733	Jan. 7	721	159	98	151
Jarvis, Harold, assignor of one-half to R. H. Thompson, Buffalo, N. Y. Bicycle-seat.	690,734	Jan. 7	724	160	98	152
Jarvis, Harold, assignor to Jarvis Typewriter & Tabulator Company, Buffalo, N. Y. Type-writing machine.	699,389	May 6	502	116	99	1279
Jarvis, Harold, assignor to Jarvis Typewriter & Tabulator Company, Buffalo, N. Y. Type-writing machine.	714,186	Nov. 25	3875	743	101	1646
Jarvis, Harold, and M. H. Blakeslee, assignors, by mesne assignments, to Jarvis Typewriter and Tabulator Company, Buffalo, N. Y. Type-writing machine.	712,933	Nov. 4	879	205	101	1077
Jarvis Typewriter & Tabulator Company. (See Jarvis, Harold, assignor.)	-----	-----	-----	-----	-----	-----
Jarvis Type Writer and Tabulator Company. (See Jarvis and Blakeslee, assignors.)	-----	-----	-----	-----	-----	-----
Jarvis, William G., Defiance, Ohio. Garment-turning apparatus.	698,956	Apr. 20	4879	1077	99	1103
Jas. H. Baker Manufacturing Company. (See Baker, James H., assignor.)	-----	-----	-----	-----	-----	-----
Jaubert, George F., Paris, France. Pastil for making oxygen gas and producing same.	691,058	Jan. 14	1308	-----	98	238
Jaubert, George F., Paris, France. Manufacture of alloys of the alkali metals.	709,489	Sept. 23	2907	-----	100	2695
Jaubert, George F., Paris, France. Compressing peroxid of sodium.	709,490	Sept. 23	2908	-----	100	2696
Jay, Christian R., Leipsic, Germany. Spindle-bearing for engraving-machines.	705,674	July 29	4560	990	100	983
Jay, Rudolf, Leipsic, Germany. Engraving-machine.	704,193	July 8	1555	335	100	326
Jayne, Benaiah G., New York, assignor to H. Craighead, Flushing, N. Y. Hoop for barrels, &c.	695,460	Mar. 18	2103	474	98	2189
Jayne, Benaiah G., New York, assignor to H. Craighead, Flushing, N. Y. Croze-cutting machine.	706,419	Aug. 5	843	184	100	1283



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Jaynes, Alfonso L., Buffalo, N. Y., assignor, by mesne assignments, to International Time Recording Company. Workman's time-recorder.	704,194	July 8	1556	335	100	326
Jaynes, George M., Detroit, Mich., and J. W. Deibner, Chicago, Ill., assignors, by mesne assignments, to International Time Recording Company. Workman's time-recorder.	704,544	July 15	2219	336	100	480
Jeanin, Frank H., Schenectady, N. Y., assignor to General Electric Company. Operating dynamo-electric machines.	713,307	Nov. 11	1655	480	101	1251
Jeavons, William R., Cleveland, Ohio. Oil-burner.	702,560	June 17	2312	527	99	2621
Jeavons, William R., Cleveland, Ohio. Hydrocarbon-burner.	706,064	Aug. 5	124	25	100	1142
Jeavons, William R., Cleveland, Ohio. Liquid-level indicator for lamps.	714,377	Nov. 25	3730	822	101	1718
Jecklin, John E., Newburgh, N. Y. Combined curb and gutter block.	707,115	Aug. 19	2133	476	100	1587
Jeffers, William A., Mulberry, Ark. Combination-plow attachment.	702,561	June 17	2315	528	99	2621
Jefferson, Eugene D., Lowell, Mass. Sprinkler system for automatic fire-extinguishers.	712,682	Nov. 4	403	95	101	981
Jefferson, John W., Louisville, Ky. Machine for harvesting onion sets or similar crops.	694,284	Feb. 25	3942	878	98	1669
Jeffery, Thomas B., Kenosha, Wis. Pneumatic tire.	708,482	Sept. 2	867	197	100	2157
Jeffery, Thomas B., Chicago, Ill. Carburetor for explosive-engines.	712,542	Nov. 4	155	37	101	930
Jeffrey, J. A. (See Howard, Lyman D., assignor.)						
Jeffrey, Joseph A. (See Dierdorff, Henry B., assignor.)						
Jeffrey, Joseph A. (See Hahn, John H., assignor.)						
Jeffrey, Joseph A. (See Steckel, Archibald W. F., assignor.)						
Jeffrey, Joseph A. (See Vezin, Henry A., assignor.)						
Jeffrey, Joseph A. (See Webster, Alfred J., assignor.)						
Jeffrey, Joseph A. (See Willson, Freeman R., Jr., assignor.)						
Jeffrey Manufacturing Company. (See Palmros, Alexander, assignor.)						
Jeffreys, Edward A., Moseley, England. Coin-freed apparatus for delivering sweets or other articles.	697,148	Apr. 8	1440	922	99	936
Jeffreys, Edward A., Moseley, near Birmingham, England. Walking toy.	709,987	Sept. 30	3875	873	100	2837
Jeffreys, Robert D. (See Potter and Jeffreys.)						
Jeffs, Henry F., Brooklyn, N. Y. Changeable-speed gear.	715,078	Dec. 2	833	177	101	2006
Jeffs, Henry F., Brooklyn, N. Y. Changeable-speed gear.	717,409	Dec. 30	5460	1185	101	3053
Jeha, Spiridon J., Pittsburg, Pa. Gas-saving appliance.	698,507	Apr. 29	3943	872	99	808
Jeisi, Adolf, assignor of one-half to J. Kolbeck, New York, N. Y. Bowling game.	714,911	Dec. 2	553	118	101	1946
Jelf, William E., assignor to Chattanooga Medicine Company, Chattanooga, Tenn. Paper-jogger.	703,271	June 24	3673	845	99	2914
Jenkins, Charles F., Washington, D. C. Hydrocarbon-burner.	711,925	Oct. 21	2962	652	101	647
Jenkins, Charles H., Lebanon, N. H., assignor of one-half to Kendrick and Davis. Tool-holder.	693,809	Feb. 18	2244	491	98	1907
Jenkins, Charles K., and H. J. McDonald, South Butte, Mont. Fuse-igniter.	701,203	May 27	4047	930	99	2062
Jenkins, Charles M. (See Cobb and Jenkins.)						
Jenkins, Harry L., and O. F. F. Rohlmann, assignors of one-third to M. Davids, Indianapolis, Ind. Electric brander.	709,602	Sept. 23	3115	694	100	2669
Jenkins, Harry W., Brazil, Ind. Automatic safety-stop for cars.	712,543	Nov. 4	161	38	101	931
Jenkins, James, Cardiff, England. Apparatus for coupling or uncoupling railway rolling-stock.	698,957	Apr. 29	4882	1077	99	1103
Jenkins, Joel, Montclair, N. J. Garment fastener or supporter.	709,909	Sept. 30	3714	838	100	2804
Jenkins, John. (See Tunney, John J., assignor.)						
Jenkins, Joseph H., Schenectady, N. Y., assignor to General Electric Company. Electric heater.	716,048	Dec. 16	2696	596	101	2431
Jenkins, Mary C., Kansas City, Mo. Colander.	692,236	Feb. 4	138	33	98	827
Jenkins, William S., assignor of one-half to C. G. Filley, St. Louis, Mo. Felling and hemming attachment for sewing-machines.	716,049	Dec. 16	2698	597	101	2432
Jenks, Charles C., Holyoke, Mass. Paper of variable thickness.	696,682	Apr. 1	538	124	99	117
Jenks, Oren J., Wausau, Wis. Window brace and fastener.	701,734	June 8	823	181	99	2280
Jenner, John H., Leavenworth, Ind. Wagon-brake.	706,065	Aug. 5	125	26	100	1143
Jenney, Charles D., Indianapolis, Ind. Trolley-pole.	691,547	Jan. 21	2232	500	98	498
Jenney, James A., Providence, R. I. Steam-engine.	708,559	Sept. 9	1902	227	100	2196
Jenney, James A., Fairhaven, Conn. Gas-generator.	706,320	Aug. 5	639	130	100	1214
Jennings, Aaron E. (See Jennings, Gregory and A. E.)	716,716	Dec. 23	4024	882	101	2723
Jennings, Curtis M., St. Louis, Mo. Car-roof.	696,976	Apr. 8	1144	254	99	263
Jennings, Ebenezer S., assignor to Athens Foundry & Machine Co., Athens, Ohio. Car-wheel.	708,047	Sept. 2	96	22	100	2001
Jennings, Gregory, West Cairo, Ohio, and A. E. Jennings, Central City, Ky. Braking mechanism for vehicles.	604,863	Mar. 4	1009	223	98	1926
Jennings, James H. (See Hayden, Henry F., assignor.)						
Jennings, John W., et al. (See Edgerton, Arthur D., assignor.)						
Jensen, Ernst, Munich, Germany. Printing-machine.	697,089	Apr. 8	1350	299	99	306
Jensen, Frederik, Copenhagen, Denmark. Means for repairing wooden stairs.	716,809	Dec. 30	4488	973	101	2847
Jensen, Hans H., assignor of one-half to A. Kaad, Milwaukee, Wis. Garden implement.	711,050	Oct. 14	1254	273	101	274
Jensen, Hans P. (See Todd, George W., assignor.)						
Jensen, Jens H., Minden, Neb. Threshing-machine.	707,067	Aug. 12	2040	455	100	1551
Jensen, Jorgen, Black Diamond, Wash. Rail-brace.	695,610	Mar. 18	2402	544	98	2250
Jensen, Thomas, Arendal, Norway. Sailing-boat.	704,685	July 15	2445	528	100	327
Jensenius, Herman A., assignor to Camden Iron Works, Camden, N. J. Valve mechanism for duplex engines.	692,660	Feb. 4	808	182	98	965
Jenson, Hattie, Sturgeon Bay, Wis. Toy.	703,931	July 1	1052	221	100	204
Jepsen, Christen J., Centerville, Ohio. Liquid-separator.	691,469	Jan. 21	2094	469	98	471
Jerauld, William E., Waltham, assignor to American Steam Gage Company, Boston, Mass. Safety-valve.	699,532	May 6	756	177	99	1331
Jernigan, George F., assignor of one-half to N. T. Shields, New York, N. Y. Amalgamating apparatus.	701,346	June 8	126	26	99	2135
Jerome, George C. (See Elliott, Adonijah B., assignor.)						
Jervis, Cecil L., Newark, England. Apparatus for planting potatoes or seeds.	693,716	Feb. 18	2848	627	98	1480
Jervis, Frederick W., Baltimore, Md., assignor to W. H. Jervis, Clinton, Canada. Carburetor.	693,273	Feb. 11	1997	435	98	1234
Jervis, William H. (See Jervis, Frederick W., assignor.)						
Jessop, Earl P., U. S. Navy. System of electric railway-signals.	712,138	Oct. 28	3378	741	101	747
Jessop, Earl P., assignor of one-third to D. W. Knox, U. S. Navy. Electric-signal system for railways.	712,457	Oct. 28	3952	864	101	867
Jessop, George E. (See Kayser, Henry J., assignor.)						
Jessup, Harry E. (See Carlen, John, assignor.)						
Jessup, Robert W., assignor to Spiral Belt Separator Co., San Francisco, Cal. Separator.	693,025	Feb. 11	1476	323	98	1180
Jessup, Robert W., assignor to Spiral Belt Separator Co., San Francisco, Cal. Separator.	693,026	Feb. 11	1478	323	98	1130

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Jessup, Robert W., assignor to Spiral Belt Separator Co., San Francisco, Cal. Separator.	710,981	Oct. 14	1095	242	101	239
Jessup, Robert W., assignor to Spiral Belt Separator Co., San Francisco, Cal. Separator.	710,982	Oct. 14	1098	243	101	240
Jessup, Robert W., assignor to Spiral Belt Separator Co., San Francisco, Cal. Separator.	710,983	Oct. 14	1100	243	101	241
Jessup, William S. (See Hancock, Henry J., assignor.)						
Jester, Emma, Pueblo, Colo. Distilling apparatus.	698,958	Apr. 29	4883	1078	99	1103
Jester, John W., South English, assignor to H. C. Miller and J. N. Lewis, Oskaloosa, Iowa.	717,098	Dec. 30	4865	1054	101	2927
Jeter, Edmund W., Atlanta, Ga. Car-fender.	691,315	Jan. 14	1781	405	98	386
Jeter, Julius, Winchester, Mass. Universal joint.	699,180	May 6	97	24	99	1195
Jeude, August, Okriftel, assignor to A. V. Rowley, Frankfort-on-the-Main, Germany.	715,810	Dec. 16	2223	495	101	2328
Buttonhole-cutter.						
Jewell, Danford W., assignor of two-thirds to W. H. Ralston and M. O. Bassitt, Kalamazoo, Mich. Automatic air-brake order system.	706,828	Aug. 12	1606	361	100	1463
Jewell, Fletcher W. (See Lombard, Levi W., assignor.)						
Jewell, Frank C., Seattle, Wash. Rotary engine.	713,443	Nov. 11	1881	426	101	1300
Jewell, Ira H., Chicago, Ill. Distilling apparatus.	692,788	Feb. 4	1007	228	98	1003
Jewell, Martin, Clinton, Me. Attachment for horse-rakes.	695,935	Mar. 25	2981	374	98	2388
Jewell, Omar H. and W. M., Chicago, Ill., assignors to New York Continental Jewell Filtration Company, Jersey City, N. J., and New York, N. Y. Connecting apparatus for water receptacles.	715,665	Dec. 9	1916	428	101	2244
Jewell Storage Battery Company. (See Lombard, Levi W., assignor.)						
Jewell, William M. (See Jewell, Omar H. and W. M.)						
Jewett, Alonzo. (See Cowan, Jewett, and Wardell.)						
Jewett, Clarence F., trustee. (See Porter, Major D., assignor.)						
Jewett, William G., et al. (See Roberts, Henry P., assignor.)						
Jinks, Melvin, and C. W. Stanton, Cohocton, N. Y. Sawbuck.	691,693	Jan. 21	2908	538	98	539
Jinkins, William, London, England. Optical toy.	694,967	Mar. 11	1232	267	98	1988
Jobson, Frank L., Richmond, Va. Cover for tumblers or other vessels.	700,653	May 20	2082	684	99	1822
Jochimsen, William, New York, N. Y. Extension footwear.	693,400	Feb. 18	2245	492	98	1307
Joder, Levi J., Meyersdale, Pa. Check-lock for mine-cars.	704,832	July 15	2735	591	100	585
Joecken, Peter J., assignor to American Washboard Company, Cleveland, Ohio. Washboard.	694,864	Mar. 4	1014	223	98	1927
Johannes, Richard L. (See Amerman and Johannes.)						
Johannessen, Svend E., Edgewood Park, Pa., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Transformer.	717,006	Dec. 30	4701	1019	101	2891
Johansen, Clement W., Everett, Pa. Mattress-stuffing machine.	703,658	July 1	516	116	100	101
Johanson, Adolf M. (See Hultman, Ivar, assignor.)						
Johanson, Adolf M. (See Hultman and Johanson.)						
Johansson, Frans J. E., Stockholm, Sweden. Steam-engine or the like.	693,522	Feb. 18	2474	543	98	1855
Johansson, Karl A., Södertelje, assignor of one-half to J. O. N. Lindholm, Stockholm, Sweden. Album for clothing-patterns, drawings, &c.	699,871	May 13	1443	333	99	1486
John Brown & Company. (See Wallace, William C., assignor.)						
John F. McCanna Company. (See McCanna, John F., assignor.)						
John, Hugo, Erfurt, Germany. Rack mechanism.	715,079	Dec. 2	885	177	101	2006
John, James, Chicago, Ill. Lath for plastering foundations.	690,435	Jan. 7	94	21	98	23
John Kroder & Henry Reubel Co. (See Hochen, August, assignor.)						
John R. Williams Company. (See Williams, John R., assignor.)						
John Stephenson Company. (See Kling, Peter M., assignor.)						
John Thomson Press Company. (See Mellen, Charles B., assignor.)						
John Thomson Press Company. (See Thomson, John, assignor.)						
John Van Range Company. (See Gibson, John, assignor.)						
Johns, Henry W., Brooklyn, N. Y. Easel-back.	692,857	Feb. 11	1133	253	98	1056
Johns, Max W., and W. I. Kaufman, Louisville, Ky.; said Johns assignor to said Kaufman. Jacketed kettle.	697,637	Apr. 15	2323	519	99	524
Johns, Ralph, Allegheny, Pa. Wrench.	709,711	Sept. 23	3299	741	100	2706
Johns, Richard H. (See Heinritz and McCuen, assignors.)						
Johns, William M., Dayton, Ohio. Car-truck.	696,641	Apr. 1	447	104	99	96
Johnsen, Lewis, Seattle, Wash. Ax-handle clamp.	695,641	Mar. 18	2104	474	98	2189
Johnson, Aaron H., Matoon, Ill. Plow-colt.	714,912	Dec. 2	554	118	101	1946
Johnson, Abraham C., Winona, Minn. Semaphore.	703,932	July 1	1023	221	100	204
Johnson, Abraham N., assignor of one-half to C. S. Young, Seattle, Wash. Combined shoulder-brace and suspenders.	714,307	Nov. 25	3611	794	101	1693
Johnson, Albert C., Baltimore, Md. Ore-roasting furnace.	715,080	Dec. 2	837	178	101	2007
Johnson, Alfred, Quincy, Ill. Trolley-harp.	692,519	Feb. 4	538	126	98	907
Johnson, Alfred, Puritan, Pa. Switch-throwing device.	712,305	Oct. 28	3662	739	101	805
Johnson, Alfred, assignor of three-fifths to A. Swanson and J. Nelson, Minneapolis, Minn. Filter.	696,241	Mar. 25	3596	805	98	2508
Johnson, Alfred E., Victor, Colo. Pump.	700,936	May 27	3567	820	99	1960
Johnson, Alfred E., Colorado Springs, Colo. Filter-bed for chlorination-barrels.	706,472	Aug. 5	946	206	100	1307
Johnson, Alfred E., Colorado Springs, Colo. Direct-acting engine.	716,842	Dec. 23	4371	947	101	2807
Johnson, Allen K., Norfolk, and C. A. Rond, Jr., Portsmouth, Va. Awning.	714,187	Nov. 25	3376	743	101	1647
Johnson, Andrew, Chicago, Ill. Weeder.	693,717	Feb. 18	2849	628	98	1430
Johnson, Andrew W. (See Vanderburg, Robert B., assignor.)						
Johnson, Arley M., Belle Center, Ohio. Robe-lock for vehicles.	698,287	Apr. 22	3564	786	99	804
Johnson, Aron, Escanaba, Mich. Sinkers for fishing-nets.	702,955	June 24	3079	799	99	2796
Johnson, Arthur D., Clare, Mich. Bag-holder.	704,833	July 15	2736	591	100	585
Johnson, Arthur W., assignor to L. A. Johnson, Chicago, Ill. Power-hammer.	692,324	Feb. 11	3085	456	98	1253
Johnson, Ashba L., San Luis Obispo, Cal. Display-cabinet.	696,341	Mar. 25	3810	849	98	2554
Johnson, August, San Francisco, Cal. Oil-burner.	702,008	June 10	1301	298	99	2393
Johnson, Augustus, Falun, Kans. Band-cutter and feeder for threshing-machines.	703,132	June 24	3422	786	99	2865
Johnson, Augustus R., Spread, Ga. Cotton-chopper.	713,224	Nov. 11	1442	327	101	1309
Johnson, Axel. (See Black, Henry C., assignor.)						
Johnson, Axel, San Jose, Cal. Temporary cap or cover holder for jars.	697,724	Apr. 15	2499	558	99	560
Johnson, Axel W., Aspen, Colo. Device for operating concentrating-tables.	712,334	Nov. 4	885	207	101	1073
Johnson, Belle L., Cincinnati, Ohio. Soap and making same.	712,069	Oct. 28	3256		101	723
Johnson, Benjamin F. (See Cowles, Arthur B., assignor.)						
Johnson, Benjamin F. (See Sallade, Jacob, assignor.)						
Johnson, Benjamin F., Richmond, Va. Compartment-envelop.	693,649	Feb. 18	2725	601	98	1406



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Johnson, Carl F., Milwaukee, Wis. Time-stamp .....	708,889	Sept. 9	1657	380	100	2333
Johnson, Carroll H., and L. H. Clements, Lake City, Mo. Harness-buckle .....	708,350	Sept. 2	656	148	100	2114
Johnson, Charles, assignor of one-half to A. R. Rogers, Minneapolis, Minn. Gang-edger .....	700,303	May 20	2122	486	99	1045
Johnson, Charles, assignor of one-half to A. R. Rogers, Minneapolis, Minn. Machine for securing together boards by means of cleats .....	707,116	Aug. 19	2134	477	100	1587
Johnson, Charles, assignor of one-half to A. R. Rogers, Minneapolis, Minn. Machine for forming blanks from matched boards .....	709,710	Sept. 23	3296	739	100	2705
Johnson, Charles, and O. C. Rawley, Newark Valley, N. Y. Fertilizer-distributor .....	704,747	July 15	2569	554	100	551
Johnson, Charles A., assignor to Upson Nut Company, Unionville, Conn. Machine for pointing and threading bolts .....	691,316	Jan. 14	1783	406	98	387
Johnson, Charles B., Columbus, Ohio. Hook .....	695,560	Mar. 18	2245	519	98	2328
Johnson, Charles B., Grapevine, Tex. Gate .....	702,366	June 10	1943	442	99	2523
Johnson, Charles B., Columbus, Ohio. Device for hitching horses to shafts .....	708,569	Sept. 9	1062	237	100	2196
Johnson, Charles E., Malden, Mass. Advertising device .....	705,090	July 22	3305	719	100	718
Johnson, Charles F. (See Johnson, Woodley M., assignor.) .....						
Johnson, Charles H., Chicago Heights, Ill. Pneumatic hammer .....	695,396	Mar. 11	1996	446	98	2149
Johnson, Charles H., Chicago, Ill. Fluid-pressure-operated tool .....	711,325	Oct. 14	1963	457	101	423
Johnson, Charles J., St. Louis, Mo. Hydrocarbon-burner .....	701,347	June 3	127	26	99	2135
Johnson, Charles J., assignor to Climax Nut Lock & Manufacturing Company, St. Louis, Mo. Gasolene-regulator .....	700,638	Sept. 23	3172	707	100	2979
Johnson, Charles J., assignor to Climax Nut Lock & Manufacturing Company, St. Louis, Mo. Carburetor .....	712,803	Nov. 4	640	145	101	1029
Johnson, Charles J., and C. W. Benedict, St. Louis, Mo. Trolley for electric cars .....	703,589	July 1	376	87	100	74
Johnson, Charles K., near Warrenton, Va. Plow .....	696,242	Mar. 25	3598	805	98	2509
Johnson, Charles L., Woodburn, Oreg. Sweat-band for hats .....	707,784	Aug. 20	3473	782	100	1881
Johnson, Charles L., Bennett, Pa. Flue for conducting fumes .....	691,773	Jan. 28	2678	600	98	611
Johnson, Charles M., assignor of one-half to C. H. and W. F. Coakley, and S. S. Cramer, Milwaukee, Wis. Hinge .....	693,546	Feb. 18	2521	555	98	1364
Johnson, Charles M., assignor of one-half to C. H. and W. F. Coakley and S. S. Cramer, Milwaukee, Wis. Box-fastener .....	693,607	Feb. 18	2651	585	98	1390
Johnson, Charles M., assignor of one-half to C. H. and W. F. Coakley and S. S. Cramer, Milwaukee, Wis. Box-fastener .....	694,480	Mar. 4	265	59	98	1768
Johnson, Charles N., Vincennes, assignor of one-half to P. M. and C. C. Welton, Winslow, Ind. Casket .....	700,692	May 20	3075	698	99	1845
Johnson, Charles O., Buffalo, N. Y. Hopper-gate and operating mechanism therefor .....	711,632	Oct. 21	2372	521	101	523
Johnson, Christian Elgin, Ill. Clutch .....	691,548	Jan. 21	2223	500	98	498
Johnson, Clarence B., assignor of one-half to D. R. Creecy, Jr., Norfolk, Va. Beer-pipe cleaner .....	705,247	July 22	3653	791	100	790
Johnson, Clark, and D. M. Cameron, Detroit, Mich. Indicator for tanks .....	712,070	Oct. 28	3236	714	101	723
Johnson, Cyrus C. (See Upton, Alva T., assignor.) .....						
Johnson, David B., Ambler, Pa. Circular glass-cutter .....	702,732	June 17	2647	600	99	2691
Johnson, Edward A., and G. M. Roberts, Columbus, Ohio. Non-refillable bottle .....	692,520	Feb. 4	539	127	98	908
Johnson, Edward F., Jersey City, N. J. Means for operating and locking scuttle-covers .....	706,829	Aug. 12	1611	362	100	1464
Johnson, Edwin L., Memphis, Tenn. Extracting cotton-seed oil .....	691,312	Jan. 14	1864	821	98	1060
Johnson, Eldridge R., Philadelphia, Pa. Gramophone-brake .....	701,037	May 27	3598	821	99	1060
Johnson, Eldridge R., Philadelphia, Pa. Sound-recording and reproducing device .....	704,047	July 8	1250	270	100	263
Johnson Electric Service Company. (See Johnson, Warren S., assignor.) .....						
Johnson, Elsie J., New York, N. Y. Life-saving apparatus .....	703,133	June 24	3424	786	99	2866
Johnson Elevator and Safety Company. (See Johnson, James H., assignor.) .....						
Johnson, Enos H., Lagrange, Ill. Means for transmitting power from car-axes .....	702,655	June 17	2507	574	99	2662
Johnson, Ernest V., Chicago, Ill. Fireproof grain-bin .....	713,104	Nov. 11	1215	278	101	1164
Johnson, Eugene M. (See Samuelson and Johnson.) .....						
Johnson, Everett W. (See Ross, Hall, and Johnson.) .....						
Johnson, Frank A., New Bedford, Mass., assignor, by mesne assignments, to Connecticut Trust and Safe Deposit Company, trustee, Hartford, Conn. Type setting and justifying machine .....	716,236	Dec. 16	3085	674 675 676 677	101	2512
Johnson, Frank A., and W. I. Borell, Reading, Pa.; said Borell assignor to said Johnson. Culinary vessel .....	714,488	Nov. 25	3919	867	101	1754
Johnson, Frank V., Sterling, Ill. Carpet-cleaning rack .....	698,508	Apr. 23	3344	872	99	898
Johnson, Frederic I., Fitchburg, Mass. Crank-shaft bearing of bicycles .....	697,941	Apr. 15	2896	638	99	645
Johnson, Frederick M., assignor to Rose Gold Reclamation Company, San Francisco, Cal. Sluice-box .....	702,956	June 24	3480	709	99	2796
Johnson, Frederick M., assignor to Rose Gold Reclamation Company, San Francisco, Cal. Gold-separator .....	713,105	Nov. 11	1217	279	101	1164
Johnson, Frederick W., Waltham, Mass. Device for preventing refilling of bottles .....	701,048	May 27	3776	865	99	2004
Johnson, George. (See Clarke, Arthur R., assignor.) .....						
Johnson, George L. (See How, William S., assignor.) .....						
Johnson, George L. W., Malden, Mass. Venting-machine .....	694,568	Mar. 11	1222	267	98	1988
Johnson, George N., Leraysville, Pa. Game-board .....	701,184	Jan. 3	374	83	99	2185
Johnson, George W., et al. (See Bumbarger, Clarence R., assignor.) .....						
Johnson, Greenleaf, Jr., Baltimore, Md. Cutter-head .....	691,269	Jan. 14	1677	382	98	365
Johnson, Greenleaf, Jr., Baltimore, Md. Cutter-head .....	703,732	June 24	3674	845	99	2015
Johnson, Greenleaf, Jr., Baltimore, Md. Cutter-head .....	704,260	June 8	1671	364	100	350
Johnson, Gustaf, Marquette, Mich. Sled-runner .....	694,753	Mar. 4	799	177	98	1881
Johnson, Gustaf, Chicago, Ill. Music-leaf turner .....	716,638	Dec. 23	3895	851	101	2697
Johnson, Gustaf A., St. Charles, Ill. Core-setter .....	716,237	Dec. 16	3905	677	101	2514
Johnson, Hannah R., Braddock, N. D. Clothes-line and detachable support .....	693,401	Feb. 18	2248	492	98	1308
Johnson, Hans G., assignor of one-half to T. Shulte, Waukon, Iowa. Grinding-mill .....	704,195	July 8	1561	337	100	328
Johnson, Henry, Detroit, Mich., assignor of one-half to Wolverine Manufacturing Company. Collapsible leaf for extension-tables .....	716,238	Dec. 16	3907	677	101	2514
Johnson, Isaac, Chicago, Ill. Tumbler-washer .....	710,463	Oct. 7	1119	27	101	26
Johnson, Jacob T., Knoxville, Tenn. Combined or laminated material .....	696,557	Apr. 1	314	73	99	71
Johnson, James, Antwerp, N. Y. Clothes-line attachment .....	695,397	Mar. 11	1997	447	98	2149
Johnson, James H., Newark, N. J., assignor to Johnson Elevator and Safety Company. Safety-doorway for elevator-hatchways .....	713,225	Nov. 11	1444	328	101	1210
Johnson, James R., Darlington, England. Brake for wagons .....	711,505	Oct. 2	2128	462	101	472
Johnson, James W., Northview, Va. Dumping-wagon .....	710,868	Oct. 7	895	195	101	181
Johnson, James Y. (See Topham, Charles F., assignor.) .....						
Johnson, Jeremiah P., Detroit, Mich. Folding rod .....	708,976	Sept. 9	1826	430	100	2367
Johnson, Johan H. S., Stockholm, Sweden. Box-fastener .....	702,798	June 17	2775	638	99	2717

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Johnson, John. (See Johnson, Ole and J.)						
Johnson, John, New York, N. Y. Garment-hanger	699,956	May 13	1621	371	99	1523
Johnson, John A., Chicago, Ill. Sash-fastener	712,306	Oct. 28	3663	800	101	805
Johnson, John C., Philadelphia, Pa. Soda-fountain apparatus and syrup-drawing can therefor	690,436	Jan. 7	96	21	98	23
Johnson, John C., Philadelphia, Pa. Bar-fixture with soda-water-dispensing apparatus provided with syrup-cans	691,386	Jan. 21	1950	438	98	440
Johnson, John D. A., Omaha, Nebr., assignor to Richmond Cedar Works, Henrico County, Va. Mechanical movement	702,099	June 10	1481	334	99	2470
Johnson, John E. (See Larson and Johnson.)						
Johnson, John E., Brooklyn, N. Y. Automatic signal apparatus for liquid-holding tanks	693,650	Feb. 18	2726	601 602	98	1406
Johnson, John F. (See Boothroyd and Johnson.)						
Johnson, John G., Gordon, Pa. Plow or cultivator handle	711,975	Oct. 28	3073	674	101	688
Johnson, John W., Trenton, Mo. Smoke-consumer	708,644	Sept. 9	1162	264	100	2228
Johnson, John W., and W. W. Scarborough, Upper Sandusky, Ohio. Hoisting apparatus	717,410	Dec. 30	5461	1165	101	3353
Johnson, Joseph B. (See Johnson, Otis L., assignor.)						
Johnson, Joseph E., Meriden, Conn. Take-up device for crank-pin connections	693,402	Feb. 18	2248	492	98	1308
Johnson, Joseph E., Meriden, Conn. Speed-regulator	706,321	Aug. 5	641	140	100	1245
Johnson, Joseph S., New York, N. Y. Automatic train-robber-intercepting apparatus	693,651	Feb. 18	2227	602	98	1406
Johnson, Joseph S., New York, N. Y. Automatic door opening or closing apparatus	705,355	July 22	3915	848	100	841
Johnson, Kora M., New York, N. Y. Hose-supporter	711,770	Oct. 21	2647	583	101	582
Johnson, Lafayette W., assignor to D. Connor and C. E. Nathorst, Jerome, Ariz. Ter. Wrench	698,288	Apr. 22	3565	786	99	804
Johnson, Lawrence J., Kansas City, Mo. Show-case	692,670	Feb. 4	810	183	98	965
Johnson, Lenon, Chicago, Ill. Knife and pencil sharpener	707,118	Aug. 19	2137	478	100	1588
Johnson, Leola A. (See Johnson, Arthur W., assignor.)						
Johnson, Leonard T., Brooklyn, N. Y. Price-scale	698,590	Apr. 29	3946	872	99	899
Johnson, Leonard T., Brooklyn, N. Y. Price-scale	706,239	Aug. 5	456	97	100	1209
Johnson, Louis. (See Jones and Johnson.)						
Johnson, Louis C. and W. S. Detroit, Mich. Car-brake	711,899	Oct. 21	2896	640	101	635
Johnson, Louis E. (See Fryk and Johnson.)						
Johnson, Louis K., Brooklyn, assignor to Alden Type Machine Company, New York, N. Y. Composer's type-stick	708,646	Sept. 9	1165	265	100	2229
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-containing channel	694,481	Mar. 4	266	60	98	1769
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-containing channel	699,390	May 6	505	117	99	1279
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-containing channel	708,645	Sept. 9	1164	264 265	100	2228
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-line-detaching mechanism	710,057	Sept. 30	3995	901	100	2863
Johnson, Louis V., Brooklyn, N. Y. Counter for pinochle or similar games	713,444	Nov. 11	1883	427	101	1300
Johnson, M. E. (See Donaghy, Joseph F., assignor.)						
Johnson, M. H. (See Butcher, James M., assignor.)						
Johnson, Major, Coleman, Tex. Attachment for planters	707,928	Aug. 26	3759	844	100	1938
Johnson, Manander M., Clay Center, Nebr. Heating apparatus	702,219	June 10	1691	381	99	2473
Johnson, Manander M., Clay Center, Nebr. Lamp	712,071	Oct. 28	3257	714	101	723
Johnson, Mary E., executrix. (See Berglund, Nils, assignor.)						
Johnson, Mary E., executrix. (See Mossberg, Oscar, assignor.)						
Johnson, Millard F., Plum River, Ill. Loading or unloading device	708,360	Sept. 2	657	148	100	2114
Johnson, Montgomery H., Utica, N. Y. Junction or fuse box	699,181	May 6	98	24.25	99	1196
Johnson, Morris E., Laurel, Nebr. Harrow	706,951	Aug. 12	1823	408 409	100	1506
Johnson, Moses C., Hartford, Conn. Speed-controlling and reversing mechanism	699,872	May 13	1444	334	99	1486
Johnson, Moses C., Hartford, Conn. Speed-controlling and reversing mechanism	699,873	May 13	1451	335	99	1488
Johnson, Moses C., Hartford, Conn. Clutch	699,874	May 13	1462	336	99	1491
Johnson, Nels, Louisville, Ill. Counter	712,935	Nov. 4	887	208	101	1078
Johnson, Nels A. (See Ekelund, John A., assignor.)						
Johnson, Nicholas F. (See Peabody and Johnson.)						
Johnson, Noah, Sheffield, Pa. Cutter	710,583	Oct. 7	364	76	101	73
Johnson, Ole and J., Milwaukee, Wis. Hoisting-bucket	716,239	Dec. 16	3098	677 678	101	2514
Johnson, Olie, Belview, Minn. Time-sheet	714,188	Nov. 25	3379	744	101	1647
Johnson, Oliver W., Oak Harbor, Ohio. Car-replacer	710,584	Oct. 7	365	77	101	74
Johnson, Olof R., Escanaba, Mich. Saw-set	711,401	Oct. 14	1926	419	101	416
Johnson, Oscar L., and L. P. Matthews, assignors of three-fourths to A. T. Bond and A. S. Baldwin, Cleveland, Ohio. Butter-cutter	713,645	Nov. 18	2298	512	101	1400
Johnson, Osro F. (See Crockett and Johnson.)						
Johnson, Osro F., and E. F. Crockett, assignors to Star Brass Works, Kalamazoo, Mich. Trolley harp or fork	708,048	Sept. 2	98	23	100	2001
Johnson, Otis L., assignor to J. B. Johnson, Mills, Pa. Washing-machine	690,907	Jan. 7	1019	229	98	213
Johnson, Otto, Brooklyn, N. Y. Extensible piston-ring	708,590	July 1	377	80	100	75
Johnson, Peter C., Seaforth, near Liverpool, England. Ship's davit or boat-lowering device	701,049	May 27	3777	865	99	2004
Johnson, Phelps, Montreal, Canada. Railway turn-table	692,521	Feb. 4	540	127	98	908
Johnson, Ralph C., Edgewater, Colo. Corn-husking machine	695,561	Mar. 18	2296	520 521	98	2228
Johnson, Richard L., Rolla, Mo. Pushing device for plows	710,464	Oct. 7	120	27	101	26
Johnson, Robert C., Chicago, Ill. Grain-car door	712,139	Oct. 28	3381	741 742	101	747
Johnson, Robert N., Bremerton, Wash. Heat-regulator for fireplaces	706,182	Aug. 5	252	76	100	1188
Johnson, Robert W., New Brunswick, N. J. Preparing and inclosing surgical ligatures	693,138	Feb. 11	1716	375	98	1177
Johnson, Robert W., New Brunswick, N. J. Bandage	700,988	May 27	3370	821	99	1961
Johnson, Robert W., New Brunswick, N. J. Surgical absorbent dressing	700,939	May 27	3371	821	99	1961
Johnson, Robert W., New Brunswick, N. J. Bandage	700,940	May 27	3372	822	99	1961
Johnson, Russell C., Cincinnati, Ohio. Tucking-guide for sewing-machines	690,735	Jan. 7	726	160	98	153
Johnson, Samuel A., et al. (See McGill, John J., assignor.)						
Johnson, Samuel H., Stratford, England. Electric-arc lamp	691,549	Jan. 21	2224	500 501	98	498
Johnson, Sinclair J., Nutley, N. J. Car-door	709,269	Sept. 16	2429	550 551	100	2511



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Johnson, Sinclair J., Nutley, N. J. Rotary engine.....	714,582	Nov. 25	4068	996 907	101	1791
Johnson, Sinclair J., Nutley, N. J. Rotary engine.....	714,583	Nov. 25	4104	907 908	101	1793
Johnson, Sinclair J., Montclair, N. J. Car-door.....	709,270	Sept. 16	2438	551	100	2512
Johnson, Stephen S., South Orange, N. J. Photographic-printing frame.....	708,770	Sept. 9	1400	321	100	2279
Johnson, Sylvanus, Canal Dover, Ohio. Window-shade hanger.....	714,800	Dec. 2	298	65	101	1898
Johnson, Theodore, and C. Jacobson, assignors of one-third to O. J. Sund, Chinook, Wash. Apparatus for use in raising wrecks.....	710,869	Oct. 7	896	195	101	182
Johnson, Thomas C. (See Bennett and Johnson.)						
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Take-down screw.....	694,156	Feb. 25	3702	817	98	1621
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Automatic firearm.....	694,157	Feb. 25	3703	818	98	1622
Johnson, Van Wert B., Washington, D. C. Chute.....	696,683	Apr. 8	540	124	99	117
Johnson, Victor, St. Louis, Mo. Ammonia-separator.....	705,845	Dec. 29	4868	1057	100	1045
Johnson, Victor D., Aurora, assignor to F. C. Austin, Chicago, Ill. Wheeled dumping-scraper.....	714,706	Dec. 2	106	20, 21	101	1859
Johnson, Warren S., assignor to Johnson Electric Service Company, Milwaukee, Wis. Apparatus for applying fluid-pressure.....	696,905	Apr. 1	985	1219 1220	99	208
Johnson, Welcome B., Cambridge, Mass. Counter-stiffener for boots or shoes.....	715,511	Dec. 16	2324	495	101	2329
Johnson, William, Brooklyn, N. Y. Carousel.....	697,254	Apr. 8	1621	395	98	367
Johnson, William A., Harold, W. Va. Steam-engine.....	698,510	Apr. 29	3918	872	99	899
Johnson, William H., Haverhill, Mass. Golf-club holder.....	698,391	May 6	506	117	99	1280
Johnson, William R., Vanwert, Ohio. Fence-post.....	709,224	Sept. 16	2331	528	100	2491
Johnson, William S. (See Johnson, Louis C. and W. S.)						
Johnson, William T., Brooklyn, N. Y. Bicycle propulsion.....	691,906	Jan. 28	2914	657	98	658
Johnson, William T., Sylvan, Tex. Balletie.....	704,048	July 8	1252	270	100	263
Johnson, William T., Cincinnati, Ohio. Engine-lathe.....	706,665	Aug. 12	1289	284	100	1394
Johnson, William W. (See Katzenberger, Oscar, assignor.)						
Johnson, Woolsey M., Cambridge, Mass., assignor of one-fourth to C. F. Johnson, Hartford, Conn. Voltaic cell.....	693,274	Feb. 11	1999	435	98	1235
Johnston, Abner, assignor of one-half to C. L. Collins, New York, N. Y. Adjustable seat for two-wheeled vehicles.....	710,582	Oct. 7	363	76	101	73
Johnston, Allen, Ottumwa, Iowa. Machine for cutting irregular surfaces.....	694,386	Mar. 4	99	22	98	1731
Johnston, Allen, Ottumwa, Iowa. Cutlery-grinding machine.....	694,387	Mar. 4	101	23	98	1732
Johnston, Allen, Ottumwa, Iowa. Sash-pulley.....	694,482	Mar. 4	267	60	98	1730
Johnston, Allen, Ottumwa, Iowa. Making hollow balls.....	698,707	Apr. 29	4399	970	99	997
Johnston, Allen, Ottumwa, Iowa. Machine for reducing and finishing hollow balls.....	709,409	Sept. 16	2715	609	100	2572
Johnston, Andrew J., Liverpool, England. Envelop and blank therefor.....	699,875	May 13	1465	386	99	1492
Johnston, Charles, Memphis, Tenn. Railway-switch.....	706,950	Aug. 12	1822	408	100	1505
Johnston, Chauncey C., Scranton, Pa. Insulator and attachment for electric wires.....	697,628	Apr. 15	2324	519	99	524
Johnston, David, Watseka, Ill. Hearse.....	704,340	July 8	1820	394	100	383
Johnston, David J., et al. (See McIntosh, John A. and W., assignors.)						
Johnston, David S. (See Parker, Major M., assignor.)						
Johnston, Edward A., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Self-binder.....	690,964	Jan. 14	1126	255	98	251
Johnston, Edward A., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Cutting apparatus for mowers, reapers, or the like.....	708,146	Sept. 2	274	65	100	2038
Johnston, Edward A., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Cutting apparatus for mowers, reapers, or the like.....	708,147	Sept. 2	275	65	100	2038
Johnston, Edward A., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Grain-binder.....	710,781	Oct. 7	744	158	101	152
Johnston, Edward A., assignor to McCormick Harvesting Machine Co., Chicago, Ill. Shock-carrier.....	715,383	Dec. 9	1392	300	101	2139
Johnston, Edward D., New York, N. Y. Oyster-trimming machine.....	699,182	May 6	99	25	99	1195
Johnston, Frederick C., and G. N. Merrill, Brooklyn, N. Y., assignors to National Biscuit Company, Chicago, Ill. Collapsible display rack or stand.....	699,243	Mar. 25	3599	805	98	2569
Johnston, George W., assignor of twenty-seven one-hundred-and-fortieths to H. F. Whiteford, St. Joseph, Mo., and C. J. Hunt, Deloit, Iowa. Water-wheel.....	704,341	July 8	1821	395	100	384
Johnston, H. G., et al. (See Sloan, James W., assignor.)	708,715	Sept. 9	1297	295	100	2255
Johnston, Howard A., Ingersoll, Canada. Freight-car.....	715,384	Dec. 9	1394	300 301	101	2140
Johnston, Jacob E., et al. (See Birtels, John M., assignor.)						
Johnston, James W., Chicago, Ill. Adjustable seat and desk.....	708,792	July 1	774	169	100	155
Johnston, John. (See Potter and Johnston.)						
Johnston, John. (See Potter and Johnston.) (Reissue.)						
Johnston, John, assignor to A. E. Dobbs, London, England. Hydrocarbon-vapor burner.....	703,591	July 1	379	87, 88	100	75
Johnston, John, assignor to A. E. Dobbs, London, England. Feed-water, burner, or like regulator.....	704,342	July 8	1824	395	100	384
Johnston, John E., Trimble, Ohio. Game-board.....	709,155	Sept. 16	2191	501	100	2463
Johnston, John R. (See Anderson and Hollingsworth, assignors.)						
Johnston, Joseph B. (See Eddy and Johnston.)						
Johnston, Mary J., Milwaukee, Wis. Portable fire-escape.....	706,666	Aug. 12	1291	284	100	1394
Johnston, Moses F., assignor of one-half to R. E. Giesler, Dunbar, Wis. Sawmill set-works.....	692,297	Feb. 4	139	39	98	827
Johnston, Olin A., Philadelphia, Pa. Vaporizer.....	717,411	Dec. 30	5462	1185	101	9033
Johnston, Oman E., Kansas City, Mo. Harrow-disk journal.....	698,867	Feb. 25	3133	694	98	1508
Johnston, Oman E., Kansas City, Mo. Trash-cleaner for seed-drills.....	715,512	Dec. 16	2236	495 496	101	2329
Johnston, Thomas J., New York, N. Y., assignor to General Electric Company. Starting alternating-current motors.....	713,445	Nov. 11	1885	1427 1428	101	1301
Johnston, Thomas J., New York, N. Y., assignor to General Electric Company. Starting alternating-current motors.....	713,567	Nov. 11	2149	1481 1482	101	1353
Johnston, Thomas J., Schenectady, N. Y., assignor to General Electric Company. Circuit-breaker.....	713,887	Nov. 18	2759	613	101	1490
Johnston, Thomas W., Leroy, Ill. Engine.....	716,900	Dec. 30	4489	973	101	2848
Johnston, William A. (See Landis, Johnston, and Bosley.)						
Johnston, William E., Conocoquessing, Pa. Sand pump and bailer.....	702,486	June 17	2988	470	99	2574
Johnston, William E., Conocoquessing, Pa. Drill for oil or other wells.....	713,560	Oct. 21	2130	464	101	472
Johnston, William G., Woodbury, N. J., assignor to Steel Machine Company. Envelop-printing press.....	699,686	May 13	1077	252	99	1410
Johnston, William G., Woodbury, N. J., assignor to Steel Machine Company. Device for delivering paper to platens of printing-presses.....	714,489	Nov. 25	3919	867	101	1754

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Johnston, William G., Woodbury, N. J., assignor to Steel Machine Company. Automatic feed for printing and ruling machines	715,081	Dec. 2	839	178 179	101	2007
Johnston, William P., et al. (See McKone, William, assignor.)						
Johnstone, Antoine P., assignor of one-half to G. A. McAllister, Gibbsboro, N. J. Weighing and measuring machine	699,348 694,551	May 6 Mar. 4	374 423	88 91	99 98	1250 1802
Johnstone, Thomas K., et al. (See Pitney, Arthur H., assignor.)						
Jolles, Adolf, Vienna, Austria-Hungary. Obtaining albuminous substances	707,423	Aug. 19	2717	-----	100	1710
Jolley, Edgar O., Almena, Kans. Tool	693,868	Feb. 25	3136	694	98	1508
Jolliffe, Edward, assignor to Safety Stage Support Company, Chicago, Ill. Scaffold-support	713,308	Nov. 11	1637	372	101	1252
Jolliffe, Morgan, assignor of one-half to T. B. Brown, New Salem, Pa. Curtain-fixture	690,437	Jan. 7	97	21	98	23
Jolly, Angeline, Columbus, Ind. Cooking-stove attachment	703,273	June 24	3675	845	99	2915
Jolly, David D., and A. E. Firman, Cape Town, Cape Colony. Harvesting corn	716,552	Dec. 23	3726	811 812	101	2960
Jonah, William W. (See Kinnear and Jonah.)						
Jones, Albert, Red Wing, Minn. Adjustable pitch-board	710,058	Sept. 30	3996	902	100	2863
Jones, Albert, assignor to L. Kalling, Baltimore, Md. Machine for producing bottle-sealing caps	697,489	Apr. 15	2069	458 459	99	474
Jones, Albert E. (See Markwort and Jones.)						
Jones, Albert E. (See Robbins, Bye, and Jones.)						
Jones, Albert F., Salem, Mass. Operating-roll for leather-working machines	710,102	Sept. 30	4090	923	100	2882
Jones, Albert F., Salem, assignor, by mesne assignments, to Vaughn Machine Company, Boston, Mass. Leather-working machine	695,729	Mar. 18	2506	588	98	2289
Jones, Alfred H., Brooklyn, N. Y. Clothes-line holder	707,847	Aug. 26	3609	814 815	100	1907
Jones, Almon O., Battlecreek, Mich., assignor to United States Register Company, Limited. Hot-air register	699,183	May 6	101	25	99	1196
Jones, Alva D., assignor of forty-seven one-hundredths to J. C. Strother and O. Fenley, Louisville, Ky. Traveling contact for railway telephones, telegraphs, or the like	714,189	Nov. 25	3380	744	101	1648
Jones, Amos S., Clifton, Kans. Drilling-machine	690,965	Jan. 14	1128	255 256	98	251
Jones, Amos S., Clifton, Kans. Drill-bit	715,385	Dec. 9	1397	256 301	101	2141
Jones, Annie M., Boston, Mass. Wrist-supporting attachment for pianofortes	704,343	July 8	1825	396	100	385
Jones, Benjamin. (See Jones, John E. and B.)						
Jones, Benjamin H., assignor of one-half to Smith & Davis Manufacturing Company, St. Louis, Mo. Bedstead-fastening	704,702	July 15	2475	535	100	533
Jones, Benjamin N., East Orange, N. J. Automatic control system for elevators	694,158	Feb. 25	3706	818	98	1622
Jones, Benjamin T., et al. (See Whitaker, Simon S., assignor.)						
Jones, Butler A., Indianola, Nebr. Book-holder	712,936	Nov. 4	888	208	101	1079
Jones, Charles A. (See De Ford, Isaac, assignor.)						
Jones, Charles D., St. Albans, W. Va. Rail-joint	702,502	June 17	2316	528	99	2622
Jones, Charles H., et al. (See Thurmond, William, assignor.)						
Jones, Charles H., Tempe, Ariz. Ter. Water-bandage	691,270	Jan. 14	1678	382	98	365
Jones, Charles H., Wood Green, England. Construction of courses or tracks for cycling	701,348	June 3	128	26	99	2135
Jones & Co., Evan J. (See Adair, Charles E., assignor.)						
Jones, Cornelius. (See Steine and Jones.)						
Jones, David J., Olathe, Kans. Attachment for vehicle-shafts	691,774	Jan. 28	3679	600	98	611
Jones, Davis B., assignor of one-half to H. H. Carr, Rockymount, N. C. Collapsible barrel	700,654	May 20	2983	685	99	1823
Jones Direct Process Steel Company. (See Jones, Henry A., assignor.)						
Jones, Dora, Chicago, Ill. Advertising display device	710,195	Sept. 30	4268	963	100	2920
Jones, Edward. (See Smith and Jones.)						
Jones, Edward A., Pittsfield, Mass. Beating-engine	696,822	Apr. 1	802	183	99	170
Jones, Edward A., Pittsfield, Mass. Beating-engine	717,209	Dec. 30	5111	1108 1109	101	2980
Jones, Edward E., Malvern, Ill. Snapping-rolls for shredders	709,592	July 1	380	88	100	75
Jones, Edward R., et al. (See Irish, Fremont L., assignor.)						
Jones, Edwin T. (See Finch, Robert B., assignor.) (Reissue.)						
Jones, Erasmus, et al. (See Cruise, Daniel, assignor.)						
Jones, Erastus H., and E. C. Espey, Pleasanton, Kans. Sewing-awl	706,183	Aug. 5	353	76	100	1188
Jones, Everly A. (See Heller and Jones.)						
Jones, Everly A. (See Pinney and Jones.)						
Jones, Francis W., assignor to Transfer Tube Company, New York, N. Y. Pneumatic-transfer-tube system	702,367	June 10	1944	442	99	2524
Jones, Frank, Liverpool, England. Conduit for underground conductors	696,737	Apr. 1	647	146	99	139
Jones, Frank, and C. L. Penell, Massillon, Ohio. Composition of matter	695,730	Mar. 15	2539	-----	98	2289
Jones, Frank A., assignor of one-half to E. M. Wilcox, Omaha, Nebr. Envelop-moistener and sealer	705,531	July 22	4274	924	100	913
Jones, Frank H., Keokuk, Iowa. Mileage or percentage sheet or chart for public carriers	712,544	Nov. 2	162	38, 39	101	931
Jones, Frank H., assignor of two-thirds to E. K. Proctor and W. J. Farrar, Minneapolis, Minn. Grain-door for freight-cars	692,523	Feb. 4	544	128	98	909
Jones, Frank I., Norwalk, Conn. Hot-air furnace	717,502	Dec. 30	5620	1220 1221	101	3085
Jones, Frank I., Norwalk, Conn. Sectional grate for furnaces	717,503	Dec. 30	5624	1221	101	3086
Jones, Frank S., Export, Pa. Switch-operating device	707,929	Aug. 26	3761	844	100	1938
Jones, Frederick H., Wakefield, Mass. Syringe	698,511	Apr. 29	3949	873	99	899
Jones, Frederick W., Barwick, near Ware, England. Treating gunpowder	692,142	Jan. 28	3346	-----	98	744
Jones, Frederick W., Barwick, near Ware, England. Gunpowder	692,143	Jan. 28	3348	758	98	745
Jones, Frederick W., Barwick, near Ware, England. Gunpowder	693,547	Feb. 18	2532	555	98	1364
Jones, Frederick W., Barwick, near Ware, England. Treating gunpowder	692,548	Feb. 18	2529	-----	98	1364
Jones, Frederick W., London, England. Clutch	707,593	Aug. 26	3049	686	100	1795
Jones, George G., Montgomery, Mo. Cultivator	697,490	Apr. 15	2073	459	99	475
Jones, George K. (See Tolman and Jones.)						
Jones, George L. (See Glosser, William H., assignor.)						
Jones, George L. (See Glosser and Jones.)						
Jones, George W. and J. C., Scotland, Ark. Fire-escape	704,834	July 15	2737	592	100	586
Jones, Goodhue. (See Copeland, Jones, and Ballard.)						
Jones, Harry S. (See Jones, William G., assignor.)						
Jones, Harvey P., Chicago, Ill. Holder	707,234	Aug. 19	2356	528	100	1635
Jones, Henry, Watertown, N. Y. Engine-stop	706,952	Aug. 12	1825	409	100	1506
Jones, Henry A., New York, N. Y., assignor to Jones Direct Process Steel Company, Jersey City, N. J. Furnace for smelting iron	715,269	Dec. 9	1181	252	101	2096
Jones, Henry T., Long Island, Queens county, N. Y. Seal-lock	700,502	May 20	2731	624	99	1799
Jones, Herbert C., Chicago, Ill. Sofa-bed	702,937	June 24	3082	709	99	2796



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Jones, Herbert C., Chicago, Ill. Sofa-bed	702,958	June 24	3083	709	99	2797
Jones, Herbert C., Chicago, Ill. Sofa-bed	702,959	June 24	3084	710	99	2797
Jones, Herbert C., Chicago, Ill. Upholstering-machine	702,960	June 24	3085	711	99	2797
Jones, Herbert C., Chicago, Ill. Upholstering-machine	702,961	June 24	3091	711 712 713	99	2799
Jones, Herbert C., Chicago, Ill. Upholstering-machine	702,962	June 24	3098	712 713	99	2801
Jones, Hilles C., Allentown, N. J. Traction-engine	715,588	Dec. 9	1777	394	101	2216
Jones, Horace K. (See Voight and Jones.)						
Jones, Horace K., Hartford, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Liquid door-check	706,240	Aug. 5	459	98	100	1209
Jones, Isaac V., Kolls, Tex. Baling-press	691,387	Jan. 21	1932	488	98	441
Jones, Isabella H., Salisbury, Md. Baking-pan	692,448	Feb. 4	399	96	98	881
Jones, Jacob J., New York, N. Y. Heel-lift for shoes	698,240	Apr. 22	2546	746	99	804
Jones, Jacob J., New York, N. Y. Heel-lift for boots or shoes	698,939	Apr. 29	4884	1078	99	1104
Jones, James, <i>et al.</i> (See Sorensen, Peter, assignor.)						
Jones, James, Atlantic, Iowa. Draft-equalizer	699,184	May 6	103	25	99	1196
Jones, James and James, Jr., Brooklyn, N. Y. Electric switch	693,275	Feb. 11	2000	435	98	1235
Jones, James A., Logansport, Ind. Machine for cleaning blackboard-erasers	699,957	May 13	1622	371 372	99	1523
Jones, James B., <i>et al.</i> (See Denney, Thomas H., assignor.)						
Jones, James C. (See Jones, George W. and J. C.)						
Jones, James C., Buffalo, Ky. Vial-carrying frame	697,725	Apr. 15	2500	558	99	560
Jones, James H. (See Knox and Jones.)						
Jones, James T. (See Spike and Jones.)						
Jones, James V. H., Jamestown, N. Y. Veneer-brick binder	717,210	Dec. 30	5112	1106	101	2381
Jones, James W., <i>et al.</i> (See Furnan, John C., assignor.)						
Jones, Jesse R., Jackson, Miss. Planter and cultivator	696,823	Apr. 1	803	184	99	170
Jones, Jesse R., Jackson, Miss. Pulverizer	698,960	Apr. 29	4885	1079	99	1104
Jones, Jesse R., Jackson, Miss. Planter and cultivator	700,503	May 20	2733	624	99	1769
Jones, Joe, Summit, Miss. Smoothing-iron	705,248	July 22	3657	791	100	790
Jones, John A., <i>et al.</i> (See Cruise, Daniel, assignor.)						
Jones, John A., New York, N. Y. Stopper-fastener	705,675	July 29	4561	991	100	983
Jones, John E., Hazleton, Pa. Rail-bond	703,274	June 24	3676	177	99	2915
Jones, John E. and B. Elwood, Ind. Sheet-metal-heating-furnace	699,533	May 6	757	178 179	99	1331
Jones, John H. (See Seeberger, John, assignor.)						
Jones, John L., Jr., Dallas, Tex. Burner	710,276	Sept. 30	4417	996	100	2954
Jones, Joseph W., New York, N. Y. Duplicating apparatus	714,707	Dec. 2	109	22	101	1860
Jones, Josiah T. (See Clark and Jones.)						
Jones, Lemuel L., Akron, Ohio. Bicycle-support	715,082	Dec. 2	842	179	101	2008
Jones, Lewis, Jr., Philadelphia, Pa. Gearing	691,434	Jan. 21	2335	538	98	533
Jones, Lewis, Jr., Philadelphia, Pa. Gearing	703,593	July 1	381	88	100	76
Jones, Linwood B., <i>et al.</i> (See Irish, Fremont L., assignor.)						
Jones, Louis E., assignor to J. Ellwood Lee Company, Conshohocken, Pa. Disinfecting device	701,485	June 3	874	84	99	2185
Jones, Lucy M., Cincinnati, Ohio. Garment-supporter	713,106	Nov. 11	1218	279	101	1164
Jones, Lyman R., Coscob, assignor to C. A. Freeman, South Norwalk, Conn. Reversing-gear	706,667	Aug. 12	1292	285	100	1395
Jones, Oliver, Kansas City, Kans. Bolt-lock	700,204	May 20	2124	487	99	1645
Jones, Oliver C., Philadelphia, Pa. Rotary engine	709,773	Sept. 23	3432	772 773 774	100	2732
Jones, Oliver C., Philadelphia, Pa. Rotary pump	712,937	Nov. 4	889	299	101	1079
Jones, Owen H., Hartford, Conn. Float-rod for flush-tanks	715,386	Dec. 9	1398	301	101	2141
Jones, Parks D., Loveland, Iowa. Pitman	691,059	Jan. 14	1309	296	98	288
Jones, Parks D., Loveland, Iowa. Weather-strip	692,014	Jan. 28	3107	698	98	695
Jones, Richard, <i>et al.</i> (See Whitaker, Simon S., assignor.)						
Jones, Richard T., Baltimore, Md. Automatic stop for children's carriages	716,717	Dec. 23	4026	882	101	2723
Jones, Samuel A., Deshler, Ohio. Mail-box	702,220	June 10	1692	381	99	2473
Jones, Theodore N., assignor of one-half to P. C. Loveland, Crisman, Colo. Automatic bucket-dumping apparatus	701,812	June 3	941	209	99	2395
Jones, Thomas D., Syracuse, N. Y. Spike-tooth harrow	691,388	Jan. 21	1956	439	98	442
Jones, Thomas D., Syracuse, N. Y. Spike-tooth harrow	701,735	June 3	824	182	99	2280
Jones, Thomas J. (See White and Jones.)						
Jones, Thomas K. (See Shoemaker, Franklin T., assignor.)						
Jones, Thomas L., Kansas City, Mo. Synchronizer	716,240	Dec. 16	3102	678	101	2515
Jones, Thomas P., Olyphant, Pa. Telephone-cable connection	706,567	Aug. 12	1103	244	100	1354
Jones, Thomas W., Brooklyn, N. Y. Register	700,504	May 20	2734	625	99	1769
Jones, Thomas X., assignor of one-half to W. T. Lewis, Columbus, Ohio. Endless carrier	713,446	Nov. 11	1888	428	101	1301
Jones, Walter J. H., assignor to M. Rolle, Philadelphia, Pa. Electric fan	696,052	Mar. 25	391	723	98	2428
Jones, Walter P., Glencarlyn, Va. Brooder	706,953	Aug. 12	1826	409 410	100	1596
Jones, Walter S. (See Shuttleworth, Charles H., assignor.)						
Jones, Wiley W., Downs, Kans. Tooth-fastener for threshers	714,708	Dec. 2	111	22	101	1860
Jones, Wilfrid P., <i>et al.</i> (See Doering, August, assignor.)						
Jones, Willard, Lisbon, Me. Strainer	698,961	Apr. 29	4887	1079	99	1104
Jones, William, Denver, Colo. Automatic cut-off for biscuit-cutting machines	715,395	Dec. 2	1096	292	101	2055
Jones, William and L. Johnson, Kearny, N. J. Sad-iron	712,307	Oct. 28	3665	890	101	816
Jones, William C., Blackrun, Ohio. Wire-grip	690,438	Jan. 7	99	21, 22	98	24
Jones, William G., assignor of one-half to H. S. Jones, Chicago, Ill. Ledger-leaf	711,900	Oct. 21	2808	640	101	635
Jones, William G., assignor of one-half to H. S. Jones, Chicago, Ill. Binder-frame	711,901	Oct. 21	2809	641	101	635
Jones, William L., Parkview, N. J. Machine for rolling gears	716,241	Dec. 16	3104	678 679 680 681	101	2516
Jones, William R. S., London, England. Railway coupling apparatus	702,563	June 17	2317	530 531 532	99	2622
Jones, William S., Marshall, Mo. Swinging gate	702,964	June 24	3107	715	99	2803

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Jones, William T., New Westminster, Canada. Float-stringer.....	692,671	Feb. 4	811	183	98	965
Jones, William T., Roswell, N. Mex. Ter. Apron.....	711,976	Oct. 28	3074	674	101	688
Jones, William T., New Westminster, Canada, assignor of one-half to H. Doyle, San Francisco, Cal. Wood-turning machine.....	696,824	Apr. 1	805	184 185 186	99	171
Jones, Willis S., assignor to D. S. Wegg, Chicago, Ill. Clamp for rail-joints.....	690,966	Jan. 14	1131	256	98	252
Jones, Willis S., assignor to D. S. Wegg, Chicago, Ill. Railway-tie plate.....	691,317	Jan. 14	1700	407	98	388
Jones, Willis S., and E. W. Webb, Chicago, Ill. Car-coupling.....	702,963	June 24	3104	714	99	2803
Jones, Willis W., Clayton, Iowa. Cane.....	712,804	Nov. 4	641	146	101	1029
Jontz, George L., and E. A. Gault, Akron, Ohio. Roller-coaster.....	716,427	Dec. 23	3458	754 755	101	2604
Joost, Rudolph, and E. T. George, Gates, Oreg. Insect-destroying apparatus.....	692,672	Feb. 4	812	184	98	966
Jordan, Alberto T., Portland, assignor of one-half to G. W. Brown, Cape Elizabeth, Me. Shoe-fastener.....	705,356	July 22	3916	848	100	841
Jordan, Arthur C., Amelia, Va. Paper box.....	698,117	Apr. 22	3252	712	99	738
Jordan, David C., David City, Nebr. Table-spread support.....	708,049	Sept. 2	99	23	100	2002
Jordan, Frank W., Norwood, Mass. Circuit-maker for electric fire-alarms.....	695,398	Mar. 11	1398	447	98	2149
Jordan, Frederick G., Spokane, Wash. Making cement.....	702,009	June 10	1903	—	99	2393
Jordan, Harry W., Syracuse, N. Y., assignor to Pittsburgh Reduction Company, Pittsburg, Pa. Making aluminium hydrate.....	691,470	Jan. 21	2096	—	98	471
Jordan, James, Jr., and P. J. Egan, Hartford, Conn. Curtain-fixture.....	701,570	June 8	521	115	99	2216
Jordan, John F. (See Jordan, William H. and J. F.)						
Jordan, Julia G., trustee. (See Giller, Martin, assignor.)						
Jordan, Mary J. (See Duer, Lenna G., assignor.)						
Jordan, William, Winona, Minn. Box-fastener.....	707,424	Aug. 19	2718	615	100	1710
Jordan, William H., Brooklyn, N. Y. Paper-ruling machine.....	709,225	Sept. 16	2333	1329	100	2491
Jordan, William H. and J. F., Brooklyn, N. Y. Ventilating apparatus.....	694,648	Mar. 4	593	131	99	1838
Jordan, Willis H., assignor to Colonial scale Company, Boston, Mass. Lifting-machine.....	712,072	Oct. 25	3258	714	101	723
Jorgensen, Charles J., Milwaukee, Wis. Color-scale.....	709,328	Sept. 16	2541	572	100	2535
Jorgensen, Jorgen, Omaha, Nebr. Bur for mills.....	705,410	July 22	4008	867	100	861
Jorgensen, Konradus, Bergen, Norway. Window-frame.....	711,633	Oct. 21	2374	521	101	524
Jorres, Ralph W., St. Louis, Mo. Counting apparatus.....	708,215	Feb. 24	3677	846	99	2315
Joslin, John P. M., New York, N. Y. Printer.....	692,673	Feb. 4	813	184	98	966
Joseph McWilliams and Company. (See Platt, Richard F., assignor.)						
Joseph, Sheldon, Wheeling, W. Va. Cluster incandescent gas-lamp.....	692,449	Feb. 4	400	96	98	881
Joseph, Waitman, et al. (See Stearns, Edmond B., assignor.)						
Josephs, Isaac E., et al. (See Daly, Michael J., assignor.)						
Josephy's Erben, Firm of G. (See Dudek and Dembowski, assignors.)						
Joslin, Bert E. (See Joslin, Robert W., R. R., and B. E.)						
Joslin, Herbert A. (See Paul and Joslin.)						
Joslin, Omar T. (See Schmidt and Joslin.)						
Joslin, Robert R. (See Joslin, Robert W., R. R., and B. E.)						
Joslin, Robert W., R. R., and B. E., Manchester, Iowa. Device for compressing corn-shocks.....	716,050	Dec. 16	2699	597	101	2432
Joss, Christian, Berne, Switzerland. Ratchet mechanism.....	705,931	July 29	5026	1045	100	1077
Josse, Emil, Wilmersdorf, Germany. Condenser.....	708,793	July 1	775	170	100	155
Josse, Emil, Wilmersdorf, Germany. Vaporizer for cold vapors or the like.....	708,647	Sept. 9	1166	265	100	2229
Jost, John F. W., Philadelphia, Pa., assignor to Welsbach Light Company, Gloucester City, N. J. Mantle-support.....	696,178	Mar. 25	3481	779	98	2486
Joule, Benjamin A., Northenden, near Manchester, England. Golf-club.....	712,383	Oct. 28	3809	832	101	838
Joule, Joseph, assignor to Eastwood Wire Manufacturing Company, Belleville, N. J. Valve for wood-pulp digesters.....	705,091	July 22	3967	719	100	718
Joy, Byron H., Chicago, Ill. Ruling device.....	706,066	Aug. 5	126	26	100	1143
Joy, George A., Bar Harbor, Me. Blacking-box holder.....	709,237	Sept. 23	530	100	100	2492
Joy, James, and J. M. Dorton, Orrick, Mo. Stovepipe attachment.....	696,977	Apr. 8	1145	255	99	263
Joy, Obed H. (See Lambert and Joy.)						
Joy, William, et al. (See Hills, Howard L., assignor.)						
Joyce, George F., Brookline, Mass. Safety attachment for elevators.....	698,027	Feb. 11	1481	324	98	1131
Joyce, James A. (See Larned, Parker, and Joyce.)						
Joyce, James A., Cleveland, Ohio. Electric-railway switch.....	709,156	Sept. 16	2192	502	100	2463
Joyce, James A., Cleveland, Ohio. Press for making building or paving blocks from plastic materials.....	712,073	Oct. 28	3259	714	101	724
Joyce, James C., Florida, N. Y. Holdback.....	692,674	Feb. 4	815	184	98	966
Joyce, Maurice. (See Oliver, Charles M., assignor.)						
Joyce, Thomas G., Scranton, Pa. Fire-escape.....	691,775	Jan. 28	2680	600 601	98	611
Joyce, William, administrator. (See Joyce, William G., Jr.)						
Joyce, William G., Jr., deceased, New York, N. Y.; W. Joyce, administrator. Bookbinding-machine.....	703,933	July 1	1024	222	100	204
Joyner, Milton, and J. D. Springer, Clarksburg, Tenn. Cotton-planting attachment for corn-planters.....	694,285	Feb. 25	3944	878 879	98	1670
Judd, Edward A., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Key-less lock.....	693,028	Feb. 11	1483	324	98	1131
Judd, Wallace S., assignor to Avery Stamping Company, Cleveland, Ohio. Pressed-steel seat.....	717,211	Dec. 30	5112	1109	101	2981
Judd, William J., New York, N. Y., assignor to F. C. Austin, Chicago, Ill. Rotary mixer for concrete, &c.....	708,424	July 1	104	23 23 24 91	100	23
Judd, William J., New York, N. Y., assignor to F. C. Austin, Chicago, Ill. Machine for mixing concrete or the like.....	705,676	July 29	4564	992 993	100	984
Judevine, Henry W., Edgar Springs, Mo. Broom-head.....	690,736	Jan. 7	727	160	98	153
Judge, Thomas A., Sheffield, England. Coiling-chamber for coiling metal strips into tubes.....	713,767	Nov. 18	2529	562	101	1451
Judge, Thomas F., assignor of one-half to W. Hogan, Cleveland, Ohio. Horseshoe.....	716,901	Dec. 30	4490	973	101	2948
Judkins, Brainerd T., et al., trustees. (See Stone, John S., assignor.)						
Judsen, Carl A., Chicago, Ill. Horseshoe.....	707,594	Aug. 26	3050	687	100	1795
Judson L. Thomson Manufacturing Company. (See Bartel, William F., assignor.)						
Judson L. Thomson Manufacturing Company. (See Draper, Egbert, assignor.)						
Judson, Whitcomb L., Chicago, Ill. Power-transmission device.....	690,585	Jan. 7	416	86 87 88	98	91
Judson, Whitcomb L., Chicago, Ill. Variable-speed power-transmission mechanism.....	690,586	Jan. 7	418	88, 89	98	64



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Judson, Whitcomb L., Chicago, Ill. Explosive-engine .....	695,731	Mar. 18	2600	588 589 590 283 284 548 285 547 147 148 149	98	2289
Judson, Whitcomb L., Chicago, Ill. Chain-making machine .....	699,760	May 13	1218	284	99	1438
Judson, Whitcomb L., Chicago, Ill. Tread for wheels .....	700,333	May 20	2308	547 548 147	99	1700
Judson, Whitcomb L., Chicago, Ill. Explosive-engine .....	712,805	Nov. 4	643	148 149	101	1030
Judy, John S., Middletown, Pa. Cane	709,095	Sept. 16	3090	479	100	2441
Juge, Paul M. J., and A. E. Grisel, Paris, France; said Juge assignor to J. P. Persch, New York, N. Y. Incandescent lamp	696,100	Mar. 25	3308	745	98	2452
Julian, Gideon, assignor, by mesne assignments, to Julian Manufacturing Company, Boston, Mass. Cementing-machine	698,962	Apr. 29	2888	1080	99	1105
Julian Manufacturing Company. (See Julian, Gideon, assignor.)	693,718	Feb. 18	2849	628	98	1430
Julig, Leopold, San Francisco, Cal. Projectile and fuse	710,059	Sept. 30	3098	.....	100	2864
Julius, Paul, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Brown-violet azo dye	716,242	Dec. 16	3107	.....	101	2516
Julius, Paul, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Disazo dye and making same	692,675	Feb. 4	816	.....	98	967
Julius, Paul, and F. Günther, assignors to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Disazo dye and making same	692,676	Feb. 4	817	.....	98	967
Julius, Paul, and F. Günther, assignors to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Red azo dye	695,811	Mar. 18	2749	.....	98	2321
Julius, Paul, and F. Günther, assignors to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Compound suitable for producing coloring-matter	713,447	Nov. 11	1890	.....	101	1301
Julius, Paul, Ludwigshafen, and F. M. Jahrmarkt, Mannheim, assignors to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Chloranisidin	695,812	Mar. 18	2750	.....	98	2321
Jung, Peter, New Orleans, La. Mosquito-bar or canopy support	701,349	June 3	129	27	99	2135
Jungerman, E., et al. (See Choep, Thomas, assignor.)	692,298	Feb. 4	141	.....	98	827
Jungner, Ernst W., Stockholm, Sweden. Positive electrode for accumulators with constant electrolyte	692,298	Feb. 4	141	.....	98	827
Junius, Gustav E. (See Gouthiere, Henri, assignor.)	694,552	Mar. 4	426	92	98	1802
Junkers, Hugo, Aix-la-Chapelle, Germany. Gas-engine	692,299	Feb. 4	142	34	98	828
Junkins, Leander D., Somerville, Mass. Skid	711,507	Oct. 21	2131	464	101	473
Junod, Paul, assignor of one-half to W. H. Bretz, Celina, Ohio. Gun-sight	714,978	Nov. 25	3731	822	101	1718
Jurs, Henry F., Benicia, assignor to Baker & Hamilton, San Francisco, Cal. Rotary harrow	703,293	Sept. 2	439	100	100	2971
Jurs, Peter C., Jr., San Francisco, Cal. Hoop-lug	705,411	July 22	4008	868	100	861
Jury, Edward D., Clearfield, Pa. Neck-yoke	704,646	July 15	2382	516	100	513
Jury, Frederick H., New York, N. Y. Cane-gun	712,545	Nov. 4	164	39	101	932
Just, John A. (See Zahn and Just.)	713,309	Nov. 11	1658	.....	101	1252
Just, John A., Syracuse, N. Y. Preserving milk in dry form	692,450	Feb. 4	401	.....	98	881
Just, John A., Syracuse, assignor of one-half to D. H. Burrell & Company, Littlefalls, N. Y. Adhesive casein and making same	692,451	Feb. 4	402	.....	98	881
Just, John A., Syracuse, assignor of one-half to D. H. Burrell & Company, Littlefalls, N. Y. Baking-powder	692,452	Feb. 4	403	.....	98	881
Just, John A., Syracuse, assignor of one-half to D. H. Burrell & Company, Littlefalls, N. Y. Baking-powder	692,453	Feb. 4	404	.....	98	881
Just, John A., Syracuse, assignor of one-half to D. H. Burrell & Company, Littlefalls, N. Y. Baking-powder	692,454	Feb. 4	405	.....	98	881
Just, John A., Syracuse, assignor of one-half to D. H. Burrell & Company, Littlefalls, N. Y. Making casein phosphate	11,981	Apr. 29	5165	.....	99	1161
Just, John A., Syracuse, assignor of one-half to D. H. Burrell & Company, Littlefalls, N. Y. Baking-powder. (Reissue)	708,890	Sept. 9	1662	381 382	100	2333
Justeu, Joseph M., assignor of two-fifths to G. W. Birchall and C. R. Clapp, Toledo, Ohio. Closet-flushing device	705,532	July 22	4277	924	100	914
Justi, Henry D., Philadelphia, Pa. Mount for artificial teeth	691,550	Jan. 21	2229	501	98	499
Justi, Henry M., assignor to H. D. Justi & Son, Philadelphia, Pa. Mount for diatoric teeth	714,308	Nov. 25	3612	794 795	101	1694
Justi & Son, H. D. (See Justi, Henry M., assignor.)	717,099	Dec. 30	4863	1054	101	2927
Justice, Harry B. (See Crawford, Otto, assignor.)	715,481	Dec. 9	1578	342	101	2176
Kaad, Andrew. (See Jensen, Hans H., assignor.)	694,865	Mar. 4	1015	223	98	1927
Kaar, Ira J., Havelock, Nebr. Lister attachment for planters	697,255	Apr. 8	1631	366	99	867
Kabisch, Robert E., Lebanon, Pa. Non-refillable bottle	715,387	Dec. 9	1399	301	101	2141
Kachel, William C., Minneapolis, Minn. Automatic stop for governors	692,858	Feb. 11	1135	253	98	1056
Kachold, Charles, Portland, Oreg. Tree stand or support	712,806	Nov. 4	646	149	101	1030
Kaczorowski, Albin, Kalisch, Russia. Centrifugal machine	709,774	Sept. 23	3438	773	100	2738
Kaczynski, Franciszek, Warsaw, Russia. Horseshoe	711,572	Oct. 21	2260	.....	101	500
Kade, Charles F., assignor to I. F. Kade, Sheboygan, Wis. Shelf-bracket	704,835	July 15	2737	592	100	586
Kade, Isabella F. (See Kade, Charles F., assignor.)	699,329	May 6	377	88, 89	99	1251
Kaefer, John. (See Rentschler and Kaefor.)	699,329	May 6	377	88, 89	99	1251
Kaesser, Fritz, Highland, Ill. Can-polishing machine	699,185	May 6	104	26	99	1196
Kaffeman, Frederick, New York, N. Y. Display-holder for jewelry	702,221	June 10	1693	381	99	2473
Kagey, Henry H., Ashland, Ohio. Milking-shield	715,083	Dec. 2	843	180	101	2008
Kahl, Leopold, Schwientochowitz, assignor to R. Rueters, Charlottenburg, Germany. Oxalic-acid ester of paracresol and making same	696,508	Apr. 1	315	74	99	71
Kahle, James C. (See Hammond and Kahle.)	710,465	Oct. 7	121	27, 28	101	26
Kahler, George, assignor of one-half to F. J. Uplinger, Wymore, Nebr. Ironing-board	699,185	May 6	104	26	99	1196
Kahn, Julius, et al. (See Lotz, Augustus, assignor.)	702,221	June 10	1693	381	99	2473
Kail, Jackson L., assignor to Winslow Bros. Co., Chicago, Ill. Door-operating mechanism for elevators	715,083	Dec. 2	843	180	101	2008
Kain, Charles B. (See Parsons and Kain.)	696,508	Apr. 1	315	74	99	71
Kainer, Frederick C., Chicago, Ill. Gearing for washing-machines	710,465	Oct. 7	121	27, 28	101	26
Kainer, Frederick C., Chicago, Ill. Wash-tub	699,185	May 6	104	26	99	1196
Kaiser, Charles A., Long Island City, N. Y. Soldering-iron	702,221	June 10	1693	381	99	2473
Kaiser, Emil F., Fresno, Cal. Shade-roller bracket	715,083	Dec. 2	843	180	101	2008
Kaiser, Frank E. (See Waldmann and Kaiser.)	696,508	Apr. 1	315	74	99	71
Kaiser, Gabriel, Paris, France. Mechanical fan	710,465	Oct. 7	121	27, 28	101	26

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Kaiser, Joseph, Columbus, Ohio. Wind-turbine.....	710,277	Sept. 30	4418	996	100	2954
Kaiser, Peter. (See Nierhaus and Kaiser.)						
Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Supervisory relay.....	705,092	July 22	3308	719	100	718
Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Protective apparatus.....	717,212	Dec. 30	5113	1109	101	2981
Kalamazoo Railway Supply Company. (See Bushnell, William E., assignor.)						
Kalamazoo Spring & Axle Company. (See Good, Edgar, assignor.)						
Kalbach, Adam M., et al. (See Livingood, Thomas, assignor.)						
Kalbach, Morgan D., Lebanon, Pa. Rotary engine.....	713,448	Nov. 11	1891	428	101	1302
Kalinowski, Hermann von, Posen, Germany. Nailing device.....	694,649	Mar. 4	595	131	98	1838
Kalkhoff, Gustav F. (See Droitcourt and Kalkhoff.)						
Kalkow, Fritz. (See Abel and Kalkow.)						
Kall, Nicolaus, Denver, Colo. Saw-sharpener.....	692,201	Jan. 28	3444	779	98	765
Kallajian, Lazarus S., Boston, Mass. Handle-bar support.....	707,514	Aug. 19	2866	650	100	1741
Kalle and Company. (See Bonard, Anton, assignor.)						
Kalle & Company. (See Fuchs, Gotthold, assignor.)						
Kalle and Company. (See Paul, Carl, assignor.)						
Kallgren, John, New Haven, Conn. Heating and ventilating apparatus.....	706,954	Aug. 12	1832	410	100	1508
Kalling, Lewis. (See Jones, Albert, assignor.)						
Kalling, Lewis, Baltimore, Md. Bottle-sealing device.....	697,491	Apr. 15	2075	460	99	475
Kallmann, Auguste, Rabenstein, Austria-Hungary. Manufacture of peat-fiber pulp.....	698,118	Apr. 22	3254	429	99	738
Kaltenbach, Augustus. (See Clawson and Benjamin, assignors.)	711,977	Oct. 28	3075	674	101	688
Kamber, Frank J., Colorado Springs, Colo. Pencil-holder.....	701,486	June 3	375	84	99	2185
Kamunsky, Julius M., et al. (See Howe, John C., assignor.)						
Kamm, Leonard U., London, England. Apparatus for photographing and exhibiting cinematographic pictures.....	708,148	Sept. 2	276	66	100	2038
Kammerer, Frank G. (See Sweeney, Henry G., assignor.)						
Kammerer, Frank G., Chicago, Ill. Water supply and cooling apparatus.....	692,523	Feb. 4	546	128	98	909
Kammerer, Otto, Charlottenburg, Germany. Electrical press.....	696,053	Mar. 25	3308	724	98	2428
Kammeyer, William. (See Thourot, Frederick, assignor.)						
Kamper, Paul J., Sioux City, Iowa. Hand-motor.....	703,594	July 1	383	89	100	76
Kampfe, Frederick R., and O., Brooklyn, N. Y. Safety-razor.....	694,650	Mar. 4	597	131	98	1889
Kampfe, Frederick R., and O., Brooklyn, N. Y. Machine for stropping razor-blades.....	712,384	Oct. 28	3809	832	101	838
Kampfe, Frederick R., and O., Brooklyn, N. Y. Razor-blade stropping device.....	712,385	Oct. 28	3811	832	101	838
Kampfe, Otto. (See Kampfe, Frederick R., and O.)						
Kampfe, Richard. (See Kampfe, Frederick R., and O.)						
Kamphues, Joseph. (See Manson and Kamphues.)						
Kanage, Albert F. (See Smedley, Daniel W., assignor.)						
Kanally, Morris E., Somerville, Mass., assignor to M. E. Kanally Co., Portland, Me., and Cambridge, Mass. Door-hanger.....	695,087	Mar. 11	1385	304	98	2022
Kandó, Coloman de, Budapest, Austria-Hungary. Electric motor-car or locomotive.....	700,052	May 13	1785	413	99	1555
Kane, Frederick L., New York, N. Y. Roof.....	713,193	Oct. 28	3468	761	101	764
Kane, Frederick L., New York, N. Y. Laying roofs.....	712,308	Oct. 28	3666	800	101	805
Kane, John, St. Paul, Minn. Perforator for printing-presses.....	713,107	Nov. 11	1220	279	101	1165
Kane, Maurice, Austin, Ill. Grain-binding machine.....	690,439	Jan. 7	100	22	98	24
Kane, Michael J., St. Paul, Minn. Folding paper box.....	692,301	Feb. 4	145	34	98	828
Kane, Olive B. (See Cain and Kane.)						
Kanel, John von, Akron, Ohio. Mop-wringer.....	707,235	Aug. 19	2358	550	100	1635
Kann, Desiderius S., Weinberge, assignor to A. Freund, Prague, Austria-Hungary. Capsule for medicines.....	710,060	Sept. 30	3999	902	100	2864
Kanouse, John G., Madison, Wis. Coupling device.....	704,545	July 15	2223	481	100	480
Kansas City Hay Press Company. (See Korsmeyer, Ernest H., assignor.)						
Kantner, Ralph, assignor of one-half to O. Ginther, Pottsville, Pa. Nut-lock.....	706,955	Aug. 12	1836	411	100	1508
Kap, Axel, Eagle Bend, Minn. Plov.....	698,023	Apr. 22	3047	670	99	696
Kapferer, C. A., et al. (See Fritz, Otto, assignor.)						
Kaplan, Bernard, Newark, N. J. Matrix for making gramophone, zophonophone, or similar records.....	697,256	Apr. 8	1632	366	99	367
Kaplan, Samuel W., Hartford, Conn. Combined combing and shearing machine.....	699,470	May 6	653	151	99	1311
Kappel, Wilhelm, Berlin, Germany. Bunsen burner.....	706,830	Aug. 12	1612	362	100	1464
Kappeler, Ernest R., Allegheny, Pa. Capo tasto.....	713,310	Nov. 11	1659	372	101	1252
Kappeler, Charles J., et al. (See Werner and Ellis, assignors.)						
Karavodine, Victor, Paris, France. Treating mineral substances by heat and pressure.....	712,807	Nov. 4	647	149	101	1030
Karg, Anton, Paterson, N. J. Acetylene-gas generator.....	706,067	Aug. 5	128	26	100	1143
Karl, Joseph, et al. (See Neubauer, Carl E., assignor.)						
Karlík, Jaroslav, Gottesberg, and M. Witte, Waldenburg, Germany. Safety appliance for engines.....	710,155	Sept. 30	4201	946	100	2906
Karlík, Jaroslav, Gottesberg, and M. Witte, Waldenburg, Germany. Safety apparatus for hoisting-cables.....	716,243	Dec. 16	3109	680	101	2517
Karlsbader Kaolin-Industrie-Gesellschaft. (See Gaertner, Rudolf, assignor.)						
Karlson, Albert, Kansas City, Kans. Combined fastener and corner-stay for beer-cases.....	700,334	May 20	2400	548	99	1701
Karnaghan, John D., Marshalltown, Iowa. Sheet-metal radiator.....	692,300	Feb. 4	144	34	98	828
Karns, William E., Parkers Landing, Pa. Nut-lock.....	715,270	Dec. 9	1183	252	101	2097
Karns, William E., Parkers Landing, Pa. Insulated rail-joint.....	715,813	Dec. 16	2228	496	101	2329
Karp, Axel, Eagle Bend, Minn. Plov.....	691,271	Jan. 14	1680	382	98	366
Karpen, Solomon, assignor to A. Freschi, Chicago, Ill. Tufting apparatus.....	696,342	Mar. 25	811	850	99	2554
Karpenstein, Henry C., Brooklyn, N. Y. Combined face-steamer and inhaler.....	699,392	May 6	509	118	99	1280
Karr, Francis, Holland, Mich. Hanger for supporting bed-bottoms.....						
Karrmann, Julius, assignor of one-half to C. C. Caldwell, Indianapolis, Ind. Jar-cover and fastening therefor.....	708,648	Sept. 9	1167	266	100	2229
Kaschenbach, John. (See Spoerl, Christian S. E., assignor.)						
Kaschewski, Friedrich, and P. Barthel, Gotha, Germany. Fire-escape.....	694,866	Mar. 4	1016	224	98	1927
Kaserer, Hermann, Vienna, Austria-Hungary. Clearing fluids containing free acids or acid salts.....	713,646	Nov. 18	2301		101	1400
Kasmeier, John, Florence, Ala. Delinting-machine.....	691,272	Jan. 14	1682	382	98	366
Kasnicka, Joseph F., Chicago, Ill. Fountain-crayon.....	692,524	Feb. 4	548	128	98	910
Kasselman, Edwin E., Detroit, Mich. Garment-fastener.....	706,956	Aug. 12	1838	411	100	1509
Kastenhuber, Edwin G., Bloomfield, N. J., assignor to General Electric Company. Electrical switch.....	696,447	Apr. 1	99	23	99	26
Kastler, Adam P., et al. (See Wilcox, Elmer A., assignor.)						
Kastner, Emil, Berlin, Germany. Electric heating device.....	694,018	Feb. 25	3451	762	98	1570



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Katz, Frank. (See Biren, Simon, assignor.)						
Katz, Samuel, Des Moines, Iowa. Garment-clasp	704,973	July 15	3066	650	100	655
Katzenberger, Oscar, assignor of one-half to W. W. Johnson, San Antonio, Tex. Lock	693,719	Feb. 18	2850	628	98	1431
Katzke, Albert, assignor of one-half to J. Hammer, Erie, Pa. Collapsible baby-carriage	690,186	May 6	105	26	99	1196
Kaucher, Robert, Rochester, N. Y. Bicycle attachment	694,388	Mar. 4	103	24	98	1734
Kaucher, Robert, Rochester, N. Y. Floatable caisson for cleaning ships' sides and bottoms	702,965	June 24	3108	715 716	99	2804
Kauffman, Jacob S., Lancaster, Pa. Pivot-joint for tobacco-stalk cutters, pruning-shears, or the like	715,482	Dec. 9	1580	342	101	2176
Kauffman, Theodore, Osborn, Ohio. Lifting-crane	704,836	July 15	2739	592	100	586
Kauffman Typewriter Company. (See Kauffman, William J., assignor.)						
Kauffman, William H., Erie, Kans. Adjustable glue-cutter	713,108	Nov. 11	1292	279	101	1165
Kauffman, William J., Canton, Ohio, assignor to Kauffman Typewriter Company. Type-writing machine	691,776	Jan. 28	2683	601	98	611
Kauffman, William J., Canton, Ohio, assignor to Kauffman Typewriter Company. Type-writing machine	601,777	Jan. 28	2687	602	98	612
Kauffman, William J., Canton, Ohio, assignor to Kauffman Typewriter Company. Rib- bon-feed mechanism for type-writers	691,778	Jan. 28	2689	604	98	613
Kauffman, William K., et al. (See Leightman, Joseph, assignor.)						
Kaufman, Adolph G., San Francisco, Cal. Soldering-iron	712,938	Nov. 4	891	209	101	1079
Kaufman, D. L. (See Lesh, Daniel, assignor.)						
Kaufman, Jonas, Newcastle, Pa. Folding screen	711,322	Oct. 14	1786	386	101	387
Kaufman, Samuel, et al. (See Dela Mar, Joseph, assignor.)						
Kaufman, Washington I. (See Johns and Kaufman.)						
Kaufmann, Otto, Elmhurst, assignor of one-half to D. Ottensosser, New York, N. Y. Mantle for incandescent gas-lamps	708,812	Sept. 9	1495	342	100	2300
Kay, Allan B., New York, N. Y. Piston-rod packing	713,109	Nov. 11	1223	280	101	1166
Kayser, Adolf, Buffalo, N. Y. Separating alumina from silica	708,561	Sept. 9	1003		100	2196
Kayser, Henry J., assignor of one-half to G. E. Jessop, Duquesne, Pa. Device for pinch- ing and moving cars	716,428	Dec. 23	3461	755	101	2605
Kayser, Joseph, Philadelphia, Pa. Bottle-washing machine	702,010	June 10	1305	298	99	2393
Kayser, Joseph, Philadelphia, Pa. Bottle-washing machine	702,063	June 10	1428	321	99	2420
Kean, William F. (See Croom, Wiley G., assignor.)						
Keane, James P., assignor of one-half to E. N. Roth, Cincinnati, Ohio. Filtration appar- atus for municipal or commercial uses	714,709	Dec. 2	112	22, 23	101	1860
Kenne, Maxwell, New York, N. Y., assignor to E. E. Mendels, Newark, N. J. Check- -performer	709,775	Sept. 23	3439	774	100	2734
Kearns, Patrick. (See Faust and Kearns.)						
Kearns, Thomas, and I. C. Coin, Salt Lake City, Utah. Army-canteen	704,686	July 15	2446	528	100	527
Kearns, Thomas E., New Kensington, Pa., assignor of one-half to H. M. Gabel, Cincin- nati, Ohio. White-lead drier	693,869	Feb. 25	3137	694	98	1508
Keating, Robert M., Springfield, Mass., assignor to R. M. Keating Motor Company, Port- land, Me. Back-pedaling brake	691,147	Jan. 14	1449	930	98	317
Keating, Robert M., Middletown, Conn., assignor to R. M. Keating Motor Company, Portland, Me. Bicycle motor	695,562	Mar. 18	2306	521 522	98	2231
Keating, Robert M., assignor to R. M. Keating Motor Company, Middletown, Conn. Com- bined muffler and mud-guard for motor-vehicles	705,357	July 22	3917	848	100	841
Keck, Adam G., Belleville, Ill. Corn-shock mover	713,989	Nov. 18	2959	657	101	1540
Keck, Albert J., St. Paul, Minn. Mechanical toy	695,058	Mar. 11	1387	304	98	2022
Keeble, Arthur J., Peterborough, England. Manufacture of bricks, tiles, or the like	690,534	May 6	761		99	1332
Keef, Edson O., Lawrence, Mass. Threshold-gage	697,090	Apr. 8	1351	299	99	306
Keefe, John, San Francisco, Cal. Wool-washing machine	699,227	Sept. 16	2340	530	100	2493
Keefe, Patrick H., Sharpsburg, Pa. Beer-patting apparatus	703,206	June 24	3566	820	99	2893
Kefer, Joseph W., Voorheesville, N. Y. Tramway-switch	716,244	Dec. 16	3111	680	101	2517
Keegan, Austin, San Francisco, Cal. Shifting topsail	701,571	June 3	523	115	99	2216
Keeler, Burrell A., and R. D. Fildes, Chicago, Ill. Steam-boiler	691,907	Jan. 28	2915	657	98	658
Keeler, Charles P., assignor to McRae and Keeler, Attleboro, Mass. Safety attachment for watch-fobs	714,379	Nov. 25	3732	822	101	1718
Keeler, Herbert E., New York, N. Y. Curtain-fixture	714,110	Nov. 18	3189	705	101	1590
Keeley, James W., Philadelphia, Pa. Rule-holder	712,140	Oct. 28	3384	742	101	748
Keen, Elias, Mulberry, Fla. Vehicle-hub	706,957	Aug. 12	1839	411	100	1509
Keen, Frederick W., and C. H. Williams, Boston, Mass. Tilting barrel, &c.	711,705	Oct. 21	2515	553	101	554
Keen, Orlando, Allentown, Pa. Track-brake for electric cars	714,913	Dec. 2	555	118	101	1946
Keenan, Thomas P., assignor of one-half to F. W. Sparks, Brooklyn, N. Y. Heater, ra- diator, or stove	707,970	Aug. 26	3833	861	100	1951
Keeney, Charles H., Hartford, Conn. Journal-bearing	710,466	Oct. 7	122	28	101	26
Keeney, John W., Coalburg, W. Va. Pneumatic switch and signal	692,015	Jan. 28	3108	698	98	696
Keep, William J., assignor to Michigan Stove Company, Detroit, Mich. Fire-pot for stoves	698,708	Apr. 29	4401	971	99	998
Keep, William J., assignor to Michigan Stove Co., Detroit, Mich. Hot-water reservoir for stoves	715,666	Dec. 9	1918	428	101	2245
Keeper, Thomas, Philadelphia, Pa. Rein-holder	702,368	June 10	1915	442	99	2524
Keeran, Manalucus G., Bloomington, Ill. Composite car-wheel	690,967	Jan. 14	1134	257	98	253
Keeran, William H., Fort Wayne, Ind. Kneeling-board	701,050	May 27	3779	866	99	2005
Keffer, Simon B., Des Moines, Iowa. Vapor-burning stove	693,403	Feb. 18	2250	493	98	1308
Kehr, Allen H., York, Pa. Cupidator attachment for railway-car seats	712,808	Nov. 4	649	150	101	1030
Keil, Henry F., New York, N. Y. Electric bell	701,572	June 3	525	115	99	2217
Keiley, John D. (See Van Cott and Keiley.)						
Keiley, John D., New York, N. Y. Means for ventilating cores for electrical appar- atus	700,335	May 20	2401	548	99	1701
Keilholtz, Pierre O., Baltimore, Md. Block-signal system	702,656	June 17	2509	575	99	2662
Keiner, Frederick W. (See Walter and Keiner.)						
Keiner, Henry A., Brooklyn, assignor to E. C. Seaman, New York, N. Y. Sheet-metal handle	714,584	Nov. 25	4107	908	101	1793
Keiper, Henry B., Lancaster, Pa. Combined gearing and casing therefor	697,629	Apr. 15	2325	519	99	525
Keis, Francis J., Watervliet, N. Y. Milk-dipper	708,050	Sept. 2	100	23	100	2002
Keiser, Henry B. A., Edgewood, Pa. Continuous billet-heating furnace	712,386	Oct. 28	3812	832 833	101	838
Keiser, Henry B. A., Edgewood Park, Pa. Continuous heating-furnace	714,710	Dec. 2	114	23, 24	101	1861
Keiser, Kathryn M., Walshville, Ill. Apparatus for preserving fruits or vegetables	695,732	Mar. 18	2904	591	98	2230
Keiser, William E., Columbus, Ohio. Gas-burner	713,449	Nov. 11	1894	429	101	1303
Keisker, Otto F. (See Oster, Valentine, assignor.)						
Keister, Newton H. (See Votaw, Clarence E., assignor.)						
Keith, Alexander E. (See Snell, Oscar, assignor.)						
Keith, Daniel W., Keithville, La. Laundry-machine	693,030	Feb. 11	1487	325	98	1132

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Keith, George. (See Keith, James and G.)						
Keith, James, London, England. Rotary fan	713,990	Nov. 18	2961	657	101	1540
Keith, James, and W. W. Wardle, London, England. Apparatus for carrying goods through drying-chambers	700,639	Sept. 23	3173	708	100	2680
Keith, James, and W. W. Wardle, London, England. Apparatus for drying and conditioning yarns, &c.	710,467	Oct. 7	123	38, 29	101	27
Keith, James and G., London, England. High-pressure burner for incandescent lamps.	713,768	Nov. 18	2530	563	101	1451
Keith, Lorin A., Mansfield, Ohio. Fastening device for account or sales books	705,412	July 23	4009	868	100	861
Keith, Nathaniel S., Arlington, N. J. Treating copper or other ores for obtaining their contents of metals	700,941	May 27	3573	822	99	1961
Keith, Thomas K., Boston, Mass., assignor to Tongue Lock Sewing Machine Company, Shoe-sewing machine	714,914	Dec. 2	357	119	101	1961
Keithley, Herbert R., Buffalo, N. Y. Car-truck	700,693	May 20	3075	699	99	1845
Keithley, Herbert R., Buffalo, N. Y. Car-truck	700,425	May 20	2576	590	99	1736
Keithley, Herbert R., Buffalo, N. Y. Railway-car-truck	702,564	June 17	2330	533	99	2625
Keithley, Herbert R., Buffalo, N. Y. Freight-car	702,565	June 17	2333	534	99	2625
Keithley, Herbert R., Buffalo, N. Y. Truck-bolster	703,659	July 1	520	118	100	102
Keithley, Herbert R., Buffalo, N. Y. Railway-car truck	705,358	July 22	3918	819	100	842
Keithley, Herbert R., Buffalo, N. Y. Under-frame for railway-cars	705,703	July 29	4730	1024	100	1016
Keithley, Herbert R., Buffalo, N. Y. Door-fastening for freight-cars	707,702	Aug. 26	3274	732	100	1842
Keithley, Herbert R., Buffalo, N. Y. Fire-proof building	712,309	Oct. 28	3669	801	101	866
Keithley, Irving W., Worcester, Mass. Gear for bicycles	712,683	Nov. 4	406	95, 96	101	982
Keithley, Irving W., Worcester, Mass. Bicycle	696,448	Apr. 1	100	23	99	27
Keithley, Irving W., Worcester, Mass. Bicycle	700,426	May 20	2577	590	99	1736
Keithly, Willie C., assignor of one-half to L. H. Brown, San Francisco, Cal. Car-brake lever	714,915	Dec. 2	538	119	101	1947
Kelbe, Werner, assignor to Farbwerke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Black sulfur dye and making same	701,051	May 27	3781	80	99	2905
Kelch, Wallace M., assignor to W. I. Ohmer, Dayton, Ohio. Fare register and recorder	704,483	Mar. 4	368	90 61	98	1769
Kelcher, James, Lawrence, Mass. Braiding-carrier	716,718	Dec. 23	4027	883	101	2723
Kell, William H., assignor to Shea, Smith & Company, Chicago, Ill. Binder-bar for files	717,412	Dec. 30	5464	1185	101	3054
Keller, Benjamin F. (See Weber, Frederick W., assignor.)						
Keller, Charles F., Chicago, Ill. Keyless lock	691,273	Jan. 14	1684	383	98	366
Keller, Charles F., Chicago, Ill., assignor to J. W. Sefton Manufacturing Company, Chicago, Ill., and Anderson, Ind. Folding box	695,311	Mar. 11	1676	372	98	2082
Keller, Charles G., St. Louis, Mo. Device for supporting shoes while polishing same	701,350	June 3	130	27	99	2136
Keller, Charles W., et al. (See Leighton, Joseph, assignor.)						
Keller, David H., Louisville, Ky. Envelop	702,100	June 10	1485	334	99	2431
Keller, Edward, Baltimore, Md. Making alloys	696,244	Mar. 25	3600	883	98	2500
Keller, F. J. (See Gruner, John C. H., assignor.)						
Keller, Hugo, and F. J. Gallagher, Frankford, Pa. Umbrella	695,733	Mar. 18	2605	591	98	2290
Keller, John. (See Fish, Joseph F., assignor.)						
Keller, John, and E. Tittsworth, Fort Bliss, Tex. Aparejo	692,850	Feb. 11	1136	254	98	1056
Keller, John A., Hamilton, Ohio. Safety packing-box	693,652	Feb. 18	2730	602	98	1407
Keller, John A., Hamilton, Ohio. Equable safety packing-box	695,688	Mar. 18	2530	573	98	2275
Keller, John J., et al. (See Barrath, Edward, assignor.)						
Keller, Julius. (See Kline and Keller.)						
Keller, Julius, Philadelphia, Pa., assignor to Philadelphia Pneumatic Tool Company. Pneumatic tool	710,196	Sept. 30	4270	963	100	2921
Keller, Julius, Philadelphia, Pa., assignor to Philadelphia Pneumatic Tool Company. Pneumatic riveter	710,197	Sept. 30	4276	963	100	2923
Keller, Julius, Philadelphia, Pa., assignor to Philadelphia Pneumatic Tool Company. Portable pneumatic rotary drill	710,782	Oct. 7	746	158	101	153
Keller, Peter, assignor, by mesne assignments, of one-half to W. A. Beck, Chicago, Ill. Carbureter	701,890	June 10	1087	247	99	2352
Keller, Peter, and P. Seiler, assignors to said Keller and L. Entenman, Chicago, Ill. Gas-burner	700,205	May 20	2125	487	99	1646
Keller, Robert A., Richmond, Ind. Spring-padding for vehicle-tops	714,190	Nov. 25	3381	745	101	1648
Keller, Thomas H. (See Snavely and Keller.)						
Keller, Valentin, Milwaukee, Wis. Garment-supporter	701,351	June 3	131	27	99	2136
Keller, Volney P., Waynesville, N. C. Wheel-making machine	705,677	July 29	4572	993	100	985
Keller, William H., Philadelphia, Pa. Hose-coupling and automatic valve	711,771	Oct. 21	2648	583	101	553
Kellers, Frederick, Jersey City, N. J. Bung	693,608	Feb. 18	2652	585	98	1390
Kelley, Benjamin F., Brooklyn, N. Y. Feed-water heater	698,290	Apr. 23	3567	787	99	804
Kelley, Benjamin F., Fanwood, N. J. Drilling-machine	690,535	May 6	762	179	99	1332
Kelley, Edward W., Taunton, Mass. Reciprocating key-seating attachment for drills	698,709	Apr. 29	4402	971	99	998
Kelley, George J., New York, N. Y. Folding chair	715,453	Dec. 9	1582	343	101	3177
Kelley, James W. V., and P. A. Reid, Richmond, Ind., said Kelley and W. V. Reid as assignors to said P. A. Reid. Wire cutting and straightening machine	716,081	Dec. 16	2701	598	101	2432
Kelley, John W., and C. W. Adkins, Hastings, Iowa. Stock-waterer	708,361	Sept. 2	659	148	100	2114
Kelley, Mary C., Wilmington, Del. Drafting-rule	709,776	Sept. 23	3440	774	100	2784
Kelley, Michael F., Brockton, Mass. Lasting-machine	693,720	Feb. 18	2852	628	98	1431
Kelley, Michael F., Milford, Mass. Lasting-machine	701,052	May 27	3782	866	99	2005
Kelley, Michael F., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Lasting-machine. (Reissue)	12,012	July 15	3146	680	100	672
Kelley, Richard J., Syracuse, N. Y. Tucking-guide for sewing-machines	712,195	Oct. 28	3471	762	101	765
Kelley, Richard J., assignor of one-half to F. M. Grimes, Syracuse, N. Y. Tucker for sewing-machines	695,735	Mar. 18	2608	591	98	2291
Kelley, Thomas F., Ligonier, Ind. Set-screw protector	705,093	July 22	3311	719	100	720
Kellington, John, assignor of one-half to D. J. Munn and A. Ewen, New Westminster, Canada. Machine for salting fish or meat in cans	711,426	Oct. 14	1966	427	101	424
Kellington, John, assignor of one-half to D. J. Munn and A. Ewen, New Westminster, Canada. Machine for washing cans	711,427	Oct. 14	1969	427	101	424
Kellner, Charles, deceased, New York, N. Y.; T. E. Kellner, administratrix. Spring-clasp	713,888	Nov. 18	2760	613	101	1499
Kellner, Charles F., Philadelphia, Pa. Paper-bag-making machine	704,807	July 15	2689	581	100	575
Kellner, Otto. (See Adams and Kellner.)						
Kellner, Theresa E., administratrix. (See Kellner, Charles.)						
Kellogg, Albert A., assignor of one-half to G. C. Haysler, Clinton, Mo. End-gate fastener	700,143	May 13	1981	455	99	1593



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Kellogg, Albert A., assignor of one-third to G. C. Haysler, Clinton, Mo. Vehicle .....	706,958	Aug. 12	1841	412	100	1509
Kellogg, Clement A., East Carmel, Ohio. Separable ring .....	706,322	Aug. 5	644	100	100	1245
Kellogg, George W., Hartford, Conn. Air-pump .....	698,710	Apr. 29	4404	972	99	998
Kellogg, George W., Hartford, Conn. Sterilizing apparatus .....	698,711	Apr. 29	4406	972	99	999
Kellogg, Henry W. (See Worth and Donaldson, assignors.) .....						
Kellogg, Henry W. <i>et al.</i> (See Rice, John V., Jr., assignor.) .....						
Kellogg, Henry W. <i>et al.</i> (See Worth, William O., assignor.) .....						
Kellogg, Horace O., Boston, Mass. Shear-motion confectioner's molder or printer .....	699,687	May 13	1081	252	99	1411
Kellogg, James L., New York, N. Y. Advertising novelty .....	695,050	Mar. 11	1389	305	98	2023
Kellogg, James W., Schenectady, N. Y., assignor to General Electric Company. Auto- matic clutch .....	714,916	Dec. 2	559	119	101	1947
Kellogg, John J., Media, Pa. Portable washbasin .....	693,549	Feb. 18	2325	550	98	1305
Kellogg, Miles M., Boulder, Colo. Shingle-gage for hatchets .....	714,337	July 15	2710	593	100	587
Kellogg, Spencer, Buffalo, N. Y. Coal and grain car .....	703,276	June 24	3678	846	99	2916
Kellogg Switchboard and Supply Company. (See Dean, William W., assignor.) .....						
Kellogg Switchboard and Supply Company. (See Dunbar, Francis W., assignor.) (Re- issue.) .....						
Kellogg Switchboard and Supply Company. (See Kaisling, William, assignor.) .....						
Kellogg Switchboard and Supply Company. (See Miller, Kempster B., assignor.) .....						
Kellogg Switchboard and Supply Company. (See Taylor, William A., assignor.) .....						
Kellond, Robert A., assignor to C. C. Bartlett, Chicago, Ill. Manufactured peat fuel .....	713,110	Nov. 11	1224	-----	101	1166
Kellond, Robert A., assignor to C. C. Bartlett, Chicago, Ill. Manufacturing peat fuel .....	715,271	Dec. 9	1185	-----	101	2097
Kelly, Bert, Duquesne, Pa. Dumping apparatus .....	703,277	June 24	3679	847	99	2916
Kelly, Charles F. <i>et al.</i> (See Sullivan, Daniel, assignor.) .....						
Kelly, Charles R., Louisville, Ky. Type-writing machine attachment .....	716,710	Dec. 23	4030	883	101	2724
Kelly, Charles R., Louisville, Ky. Attachment for type-writing machines .....	716,720	Dec. 23	4032	883	101	2725
Kelly, Clarence E., assignor of one-half to W. H. Forse, Jr., Anderson, Ind. Speed-indi- cator-operating means .....	716,721	Dec. 23	4034	883	101	2725
Kelly, Clarence E., assignor of one-half to W. H. Forse, Jr., Anderson, Ind. Operating means for speed-indicators .....	716,722	Dec. 23	4037	884	101	2726
Kelly, Edward, Elkhart, Ind. Sewer catch-basin .....	712,194	Oct. 28	3470	703	101	764
Kelly, Eugene H., Buffalo, N. Y. Regenerative gas-burner .....	708,331	Aug. 12	1613	362	100	1464
Kelly, George, Mineralpoint, Wis. Composite material .....	696,243	Mar. 25	3812	850	98	2355
Kelly, George A., assignor to George A. Kelly Plow Company, Longview, Tex. Plow .....	694,553	Mar. 4	427	92	98	1818
Kelly, George A., assignor to George A. Kelly Plow Company, Longview, Tex. Plow .....	694,931	Mar. 4	1141	250	98	1954
Kelly, James M., Houghton, Mich. Miter-box .....	692,302	Feb. 4	147	34	98	828
Kelly, John D. (See Kelly, William D. and J. D.) .....						
Kelly, John E. <i>et al.</i> (See Bonhorst, Harry L. von, assignor.) .....						
Kelly, John F. (See Stanley and Kelly.) .....						
Kelly, John F., Pittsfield, Mass. System of distribution .....	707,334	Aug. 19	2552	575	100	1674
Kelly, John F., Pittsfield, Mass. Compensating system .....	716,429	Dec. 23	3463	755	101	2605
Kelly, John L., St. Paul, Minn. Dental bridgework .....	709,410	Sept. 16	2717	609	100	2572
Kelly, Joseph N. (See Ohmer and Kelly.) .....						
Kelly, Joseph P., St. Louis, Mo. Caster .....	699,958	May 13	1624	372	99	1523
Kelly, Joseph P., assignor of one-half to O. E. Overpeck, St. Louis, Mo. Smoke-con- sumer .....	708,362	Sept. 2	2660	1148	100	2115
Kelly, Lewis C. and C. E. Ampacher, Charlotte, Mich. Fence-jack .....	695,734	Mar. 18	660	591	98	2291
Kelly, Mary E., Jackson, Ohio. Washing-machine .....	709,016	Sept. 16	1921	441	100	2404
Kelly, Michael J., Troy, N. Y. Horseshoe-machine .....	704,049	July 8	1253	270	100	263
Kelly, Oliver W., Springfield, Ohio. Motor-vehicle .....	712,546	Nov. 4	167	39, 40	101	932
Kelly, Reuben J. <i>et al.</i> (See Borchert, William, assignor.) .....						
Kelly, Thomas, and F. C. Sarazin, West Superior, Wis. Artificial-stone facing for build- ings .....	705,846	July 29	4869	1058	100	1046
Kelly, Thomas F., Adair, Iowa. Indicating mechanism for post-office boxes .....	697,849	Apr. 15	2725	604	99	611
Kelly, Thomas F., Adair, Iowa. Indicating mechanism for post-office boxes .....	707,236	Aug. 19	2359	529	100	1635
Kelly, William A., Mount Hope, Kans. Lacing-hook for flat laces. (Reissue) .....	12,013	July 15	3149	680	100	672
Kelly, William D. and J. D., Chicago, Ill. Card-index file .....	692,525	Feb. 4	549	129	98	910
Kelly, William H., and A. Tschinkel, New York, N. Y. Electromagnetic water-meter .....	697,492	Apr. 15	2076	460	99	475
Kelly, William H., and A. Tschinkel, New York, N. Y. Electric water-recording device .....	702,784	June 17	2651	610	99	2691
Kelly, William M. F., Montreal, Canada. Double window and blind fastener .....	712,694	Nov. 4	167	39, 40	101	932
Kelly, William T., Bellaire, Ohio. Gas-producer .....	713,647	Nov. 18	2901	512	101	1400
Kelsey, Cadwallader W., Philadelphia, Pa. Internal-combustion engine .....	701,891	June 10	1088	247	99	2332
Kelsey Furnace Company. (See Rickard, Elziver O., assignor.) .....						
Kelsey, Lovell L., Guilford, Conn., assignor to Federal Glue Company, Jersey City, N. J. Carrier and drier .....	699,109	Apr. 29	5129	1134	99	1153
Kelsey, Wallace D., Minneapolis, Minn. Marsh-shoe .....	694,014	Feb. 25	3452	762	98	1570
Kelso, William, assignor to McConway & Torley Company, Pittsburg, Pa. Buffing mech- anism for cars .....	716,553	Dec. 23	3727	812	101	2650
Kemble, Elbridge G. (See Fratz, Philip H., assignor.) .....						
Kemmer, John, Jr., Brooklyn, N. Y. Time-indicator for phonographs .....	699,393	May 6	510	118	99	1280
Kemp, Arthur A., Loretta, Okla. Ter. Finger-guard for revolvers .....	694,969	Mar. 11	1226	268	98	1089
Kemp, Christian C. (See Burger and Kemp.) .....						
Kemp, Clarence M., Baltimore, Md. Carburetor .....	692,860	Feb. 11	1137	254	98	1059
Kemp, Clarence M., Baltimore, Md. Heating apparatus .....	717,214	Dec. 30	5119	1110	101	2983
Kemp, Harry, Newton, Mass. Feeding mechanism for carding-machines .....	701,487	June 3	377	84, 85	99	2185
Kemp, Henry S., assignor to Reversible Electric Car Sign Co., Richmond, Va. Portable electrically-illuminated sign .....	711,867	Oct. 21	2831	627	101	622
Kemp, Henry S., assignor to Reversible Electric Car Sign Co., Richmond, Va. Illumi- nated sign .....	711,868	Oct. 21	2835	627	101	623
Kemp, John A., Farmington Hill, Pa. Sash-fastener .....	699,440	Jan. 7	104	22	98	21
Kemp, John C., Otterbein, Ind. Carbide-fueled mechanism .....	699,304	May 6	512	118	99	1281
Kemp, Joseph S., Newark Valley, N. Y. Fertilizer-distributor .....	695,212	Mar. 11	1678	372	98	2083
Kemp, Joseph S., Newark Valley, N. Y. Draft-equalizer .....	713,773	Nov. 18	2533	564	101	1451
Kemp, Stephen, North Brixton, England. Bottle-stopper .....	711,869	Oct. 21	2837	627	101	623
Kemp, William, Jr., assignor to Lanston Monotype Machine Company, New York, N. Y. Type-composing machine for tabular matter .....	700,336	May 20	2406	549	99	1702
Kemper, Martin H., Cleveland, Ohio. Clothes-line reel .....	710,585	Oct. 7	367	77	101	74
Kemper, Richard. (See Hülzer and Kemper.) .....						
Kemper, William H., Danville, Ky. Gate .....	698,291	Apr. 22	3569	787	99	816
Kempf, Carl E. and C. Baur, Milwaukee, Wis. Shipping-crate .....	711,664	Oct. 21	2440	537	101	537
Kempshall, Eleazer, Boston, Mass. Manufacture of golf-balls .....	695,818	Mar. 18	2751	627	98	2321

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Kempshall, Eleazer, Boston, Mass. Golf-ball	605,866	Mar. 18	2845	646	98	2341
Kempshall, Eleazer, Boston, Mass. Manufacture of playing-balls	605,867	Mar. 18	2847	646	98	2342
Kempshall, Eleazer, Boston, Mass. Spinning-roll	700,125	May 13	1968	443	99	1570
Kempshall, Eleazer, Boston, Mass. Manufacture of golf-balls	701,462	July 8	2047	444	100	431
Kempshall, Eleazer, Boston, Mass. Making playing-balls	704,463	July 8	2048	444	100	431
Kempshall, Eleazer, Boston, Mass. Manufacturing playing-balls	704,461	July 8	2049	444	100	431
Kempshall, Eleazer, Boston, Mass. Playing-ball	704,748	July 15	2571	554	100	532
Kempshall, Eleazer, Boston, Mass. Golf-ball	704,838	July 15	2741	593	100	587
Kempshall, Eleazer, Boston, Mass. Playing-ball	704,882	July 15	2824	610	100	604
Kempshall, Eleazer, Boston, Mass. Playing-ball	705,249	July 22	3659	791	100	790
Kempshall, Eleazer, Boston, Mass. Playing-ball	705,350	July 22	3919	849	100	842
Kempshall, Eleazer, Boston, Mass. Playing-ball	705,764	July 29	4732	1024	100	1016
Kempshall, Eleazer, Boston, Mass. Playing-ball	705,765	July 29	4738	1024	100	1017
Kempshall, Eleazer, Boston, Mass. Golf-ball	706,738	Aug. 12	1477	328	100	1435
Kempshall, Eleazer, Boston, Mass. Manufacture of playing-balls	707,425	Aug. 19	2720	615	100	1710
Kempshall, Eleazer, Boston, Mass. Manufacture of playing-balls	707,595	Aug. 26	3051	687	100	1795
Kempshall, Eleazer, Boston, Mass. Playing-ball	708,483	Sept. 2	869	198	100	2157
Kempshall, Eleazer, Boston, Mass. Playing-ball	708,484	Sept. 2	871	198	100	2158
Kempshall, Eleazer, Boston, Mass. Playing-ball	709,411	Sept. 16	2718	610	100	2573
Kempshall, Eleazer, Boston, Mass. Playing-ball	709,412	Sept. 16	2720	610	100	2573
Kempshall, Eleazer, Boston, Mass. Manufacture of playing-balls	710,198	Sept. 30	4281	925	100	2925
Kempshall, Eleazer, Boston, Mass. Manufacture of playing-balls	711,215	Oct. 14	1790	341	101	345
Kempshall, Eleazer, Boston, Mass. Playing-ball	711,508	Oct. 21	2132	464	101	473
Kempshall, Eleazer, Boston, Mass. Playing-ball	712,387	Oct. 28	3814	893	101	830
Kempshall, Eleazer, Boston, Mass. Playing-ball	712,388	Oct. 28	3815	893	101	830
Kempshall, Eleazer, Boston, Mass. Golf-ball	713,769	Nov. 18	2330	568	101	1451
Kempshall, Eleazer, Boston, Mass. Making golf balls	713,770	Nov. 18	2331	563	101	1451
Kempshall, Eleazer, Boston, Mass. Playing-ball	713,772	Nov. 18	2332	563	101	1451
Kempshall, Eleazer, Boston, Mass. Playing-ball	713,772	Nov. 18	2333	564	101	1451
Kempshall, Eleazer, Boston, Mass. Playing-ball	714,917	Dec. 2	502	120	101	1948
Kempshall, Eleazer, Boston, Mass. Playing-ball	714,918	Dec. 2	504	120	101	1948
Kempshall, Eleazer, Boston, Mass. Playing-ball	715,206	Dec. 2	1067	220	101	2055
Kempshall, Eleazer, Boston, Mass. Golf-ball	716,245	Dec. 16	3112	881	101	2517
Kempshall, Eleazer, Boston, Mass. Playing-ball	717,413	Dec. 30	5466	1186	101	3054
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	696,365	Mar. 25	3876	861	98	2565
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	696,366	Mar. 25	3878	861	98	2565
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	696,367	Mar. 25	3880	862	98	2566
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	696,368	Mar. 25	3882	862	98	2566
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	696,369	Mar. 25	3884	862	98	2566
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	696,887	Apr. 1	943	214	99	199
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	696,887	Apr. 1	946	214	99	199
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	696,888	Apr. 1	948	214	99	200
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	696,889	Apr. 1	951	215	99	200
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	696,890	Apr. 1	953	215	99	201
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	696,891	Apr. 1	955	215	99	201
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	696,892	Apr. 1	958	215	99	202
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	696,893	Apr. 1	960	216	99	202
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	696,894	Apr. 1	963	216	99	203
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	696,895	Apr. 1	966	216	99	204
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	697,417	Apr. 8	1936	431	99	431
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	697,418	Apr. 8	1937	431	99	431
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	697,419	Apr. 8	1939	431	99	431
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	697,420	Apr. 8	1942	432	99	431
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	697,421	Apr. 8	1945	432	99	432
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	697,422	Apr. 8	1947	432	99	432
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	697,423	Apr. 8	1949	432	99	432
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	697,424	Apr. 8	1953	433	99	433
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	697,425	Apr. 8	1955	433	99	434
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	697,917	Apr. 15	2839	629	99	635
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	697,918	Apr. 15	2841	629	99	635
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	697,919	Apr. 15	2843	629	99	635
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	697,920	Apr. 15	2844	629	99	635
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	697,921	Apr. 15	2846	630	99	636
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	697,922	Apr. 15	2848	630	99	636
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	697,923	Apr. 15	2849	630	99	636



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Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	697,924	Apr. 15	2851	630	99	636
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	697,925	Apr. 15	2853	631	99	637
Billiard-ball.	698,024	Apr. 22	3048	670	99	696
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	698,401	Apr. 22	3750	828	99	843
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	698,402	Apr. 22	3751	828	99	843
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	698,512	Apr. 29	3950	873	99	890
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	698,513	Apr. 29	3951	873	99	900
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	698,514	Apr. 29	3952	874	99	900
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	698,515	Apr. 29	3954	874	99	900
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	698,516	Apr. 29	3955	874	99	901
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	698,517	Apr. 29	3956	874	99	901
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	699,087	Apr. 29	5090	1127	99	1116
Manufacturing golf-balls.	699,088	Apr. 29	5092	1127	99	1147
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	699,089	Apr. 29	5091	1127	99	1147
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	699,090	Apr. 29	5096	1127	99	1147
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	699,091	Apr. 29	5097	1128	99	1147
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	699,092	Apr. 29	5100	1128	99	1148
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	699,093	Apr. 29	5102	1128	99	1148
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	699,094	Apr. 29	5103	1128	99	1148
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	699,622	May 6	939	217	99	1369
Manufacture of golf-balls.	699,623	May 6	940	217	99	1369
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	699,624	May 6	942	218	99	1369
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	699,876	May 18	1466	336	99	1492
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	700,123	May 13	1905	443	99	1579
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	700,124	May 13	1906	443	99	1579
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	700,111	May 13	1952	455	99	1593
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	700,655	May 20	2985	685	99	1823
Manufacture of golf-balls.	700,656	May 20	2987	685	99	1823
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	700,657	May 20	2988	685	99	1824
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	700,658	May 20	2991	686	99	1825
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	700,659	May 20	2993	686	99	1825
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	700,660	May 20	2995	686	99	1825
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	700,942	May 27	3574	822	99	1961
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	700,943	May 27	3575	822	99	1961
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	700,944	May 27	3576	823	99	1962
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	700,945	May 27	3578	823	99	1962
Facing for golf-clubs.	700,946	May 27	3579	823	99	1962
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	701,736	June 3	826	182	99	2280
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	701,737	June 3	827	182	99	2281
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	701,738	June 3	828	182	99	2281
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	701,739	June 3	829	183	99	2281
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	701,740	June 3	830	183	99	2281
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	701,741	June 3	831	183	99	2282
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	702,799	June 17	3776	698	99	2717
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	704,881	July 15	2823	610	100	604
Kempshall, Eleazer, Boston, Mass., assignor to Kempshall Manufacturing Company.	705,766	July 29	4735	1025	100	1017
Land, Me., and Boston, Mass. Eyelet.	700,121	May 13	1900	442	99	1578
Kempshall, Eleazer, Boston, Mass., assignor to United Fast Color Eyelet Company, Portland, Me., and Boston, Mass. Eyelet.	714,191	Nov. 25	3383	745	101	1648

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Kempshall, Eleazer, Boston, assignor to S. W. Winslow, trustee, Beverly, Mass. Lacing-hook	700,122	May 13	1902	442	99	1578
Kempshall, Eleazer, Boston, assignor to S. W. Winslow, trustee, Beverly, Mass. Lacing-hook	714,648	Nov. 25	4216	932	101	1813
Kempshall Manufacturing Company. (See Cavanagh, Richard B., assignor.)						
Kempshall Manufacturing Company. (See Kempshall, Eleazer, assignor.)						
Kempshall Manufacturing Company. (See Richards, Francis H., assignor.)						
Kendall, Edward D., New York, N. Y. Recovering metals	698,292	Apr. 22	3570	787	99	805
Kendall, Edward D., Brooklyn, N. Y. Extracting precious metals from their ores	702,305	June 10	1823	-----	99	2500
Kendall, George S., Indianapolis, Ind. Railway-track	694,484	Mar. 4	271	61	98	1770
Kendall, Hubert A., Kansas City, Mo. Removable calk for horseshoes	710,788	Oct. 7	748	159	101	153
Kendall, Julia E., Boston, Mass. Wrinkle-removing device	692,363	Feb. 4	118	35	98	829
Kendall, Lemuel C., Boston, Mass. Railway construction	713,311	Nov. 11	1620	373	101	1253
Kendall, Thomas B., London, England. Machine for gumming and folding envelopes	692,016	Jan. 28	3111	690	98	696
Kendall, Thomas B., London, England. Knife for guillotine paper-cutting machines	700,053	May 13	1786	413	99	1556
Kendall, William H. (See Harris and Kendall.)						
Kendall, William H., Brooklyn, N. Y. Attachment for holding stock while pressing hats	715,084	Dec. 2	845	180	101	2009
Kendrick and Davis. (See Jenkins, Charles H., assignor.)						
Kendrick & Davis. (See Williams, Lester J., assignor.)						
Kendrick, Dyer T., Boston, Mass., assignor to J. T. Robertson Company, Manchester, Conn. Shaving-stick	700,947	May 27	3580	823	99	1963
Kendrick, Hiland H., Fulton, N. Y. Slop-drain hopper	698,972	Feb. 25	3346	736	98	1549
Kendrick, Hiland H., Fulton, N. Y. Sash-lock	695,736	Mar. 18	2610	592	98	2291
Kendrick, Thomas, Glenwood Springs, Colo. Car-step	711,051	Oct. 14	1255	273	101	374
Kendrick, William A., assignor of one-half to C. Madeira, Yalesville, Conn. Egg-opener	691,389	Jan. 31	1957	439	98	442
Kendrick, William A., Montgomery, Ala., and G. W. Dixon, deceased; W. T. Kendrick, administrator. Making disinfectants	701,352	June 2	132	-----	99	2136
Kenison, John B., M. F. Burk, and J. A. Perkins, Lynn, Mass. Chimney	692,294	Feb. 4	149	35	98	829
Kenna, Michael P., Dubuque, Iowa. Addressing-machine	696,054	Mar. 25	3205	724	98	2420
Kenneally, William, New York, N. Y. Pipe-joint	703,595	July 1	385	89	100	70
Kennedy, Anna, et al. (See Birtels, John M., assignor.)						
Kennedy, Arthur P. (See Norton and Kennedy.)						
Kennedy, Charles P., and G. M. Cushing, Chicago, Ill. Heating apparatus	714,192	Nov. 25	3383	745	101	1648
Kennedy, Charles J., et al. (See Morris, Margaret E., assignor.)						
Kennedy, Charles S. L., North Easton, Mass. Photographic-bath apparatus	711,978	Oct. 28	3077	674 675	101	689
Kennedy, Charles W. (See Pocock and Kennedy.)						
Kennedy, Charles W., Rutledge, Pa. Electrode for storage batteries	706,568	Aug. 12	1104	245	100	1354
Kennedy, Charles W., Rutledge, assignor to Electric Power Development Company, Philadelphia, Pa. Sheet-metal-bending machine	716,052	Dec. 16	2711	558 559	101	2485
Kennedy, Daniel, Brooklyn, N. Y. Straightway valve	700,491	Sept. 20	2909	649	100	2626
Kennedy, David J., Independence, assignor of one-third to N. P. Evans, Norborne, Mo. Gravity-lock	701,892	June 10	1090	248	99	2352
Kennedy, Edgar S., Washington, D. C. Compo cap for mantel-columns	691,635	Jan. 21	2398	539	98	534
Kennedy, Edgar S., Washington, D. C. Mold for compo caps for mantel-columns	691,636	Jan. 21	2399	539	98	534
Kennedy, Edgar S., Washington, D. C. Forming compo caps for columns	691,704	Jan. 21	2519	564	98	560
Kennedy, Erasmus L., Highpoint, assignor of one-half to J. E. Meridith, Davidson County, N. C. Combined vise, drill, and bolt-holder	705,932	July 29	5027	1096	100	1077
Kennedy, Everett J., Tyrone, Pa. Spike-extractor	710,468	Oct. 7	124	29	101	27
Kennedy, Forrest G., Philadelphia, Pa. Rotary steam-engine	696,245	Mar. 25	3601	806	98	2509
Kennedy, George A., Blissfield, Mich. Speed-registering attachment for vehicles	701,353	June 3	132	27	99	2136
Kennedy, Harry R., assignor of one-third to R. S. Woodmansee, Indianola, Iowa. Mail-pouch deliverer	712,141	Oct. 28	3384	742	101	748
Kennedy, Hugh, Sharpsburg, Pa. Coke-oven	713,648	Nov. 18	2303	513	101	1401
Kennedy, James J., Hanover, assignor to Deering Harvester Company, Chicago, Ill. Harvester. (Reissue.)	12,050	Oct. 28	3987	871 872	101	875
Kennedy, John W., Cecil, Ga. Furniture-caster	698,963	Apr. 29	4890	1080	99	1105
Kennedy, Joseph W., Duquesne, Pa. Rail-joint	694,754	Mar. 4	800	177	98	1881
Kennedy, Julian, Pittsburg, Pa. Shaft-coupling	691,273	Jan. 14	1687	384	98	367
Kennedy, Julian, Pittsburg, Pa. Rolling-mill	693,031	Feb. 11	1489	325	98	1132
Kennedy, Julian, Pittsburg, Pa. Blast-furnace-filling apparatus	698,839	Apr. 29	4684	1032	99	1062
Kennedy, Julian, Pittsburg, Pa. Operating blast-furnaces	698,840	Apr. 29	4686	1033	99	1062
Kennedy, Patrick, Brooklyn, N. Y. Electrical switch or cut-off	706,759	Aug. 12	1480	328	100	1435
Kennedy, Patrick, Brooklyn, N. Y. Jar for storage batteries	709,157	Sept. 16	2194	502	100	2463
Kennedy, Patrick, Brooklyn, N. Y., assignor to Consolidated Railway Electric Lighting and Equipment Company. Means for connecting dynamos with trucks of railway-car	699,187	May 6	106	26,27	99	1197
Kennedy, Samuel V., assignor to D. M. Osborne & Company, Auburn, N. Y. Mowing-machine	716,430	Dec. 23	3465	756	101	2605
Kennedy, Walter, Allegheny, Pa. Plant for coke-making	691,148	Jan. 14	1451	230 331	98	317
Kennedy, Walter, Pittsburg, Pa. Blowing-engine	708,716	Sept. 9	1299	296	100	2256
Kennedy, Walter J. (See Grill, Epoch, assignor.)						
Kenney, et al. (See Deer, James W., assignor.)						
Kenney, Alphonso E., Somerville, Mass. Interconvertible couch-bed	696,449	Apr. 1	102	23,24	99	37
Kenney, Edward T. (See Alexander, John L. and W. E., assignors.)						
Kenney, Francis W., Providence, R. I. Ship's anchor	697,149	Apr. 8	1442	323	99	326
Kenney, George E. (See Hodgkin and Kenney.)						
Kenney, George F., Boston, Mass. Mallet	715,814	Dec. 16	2230	496	101	2330
Kenney, James, Holyoke, Mass. Tap for ale-casks	694,286	Feb. 25	3945	879	98	1670
Kenney, John A., et al. (See Schultz, Charles W., assignor.)						
Kenney, John A., Jennings, La. Traction-wheel	700,661	May 20	2996	686	99	1825
Kenney, Owen E., assignor to Yost-Miller Company, Toledo, Ohio. Socket for incandescent lamps	712,685	Nov. 4	410	96	101	982
Kenney, Owen E., assignor to Yost-Miller Company, Toledo, Ohio. Socket for incandescent lamps	712,686	Nov. 4	411	96	101	983
Kenney, Thomas F., assignor of one-half to H. C. Scharpf and F. G. Roth, La Crosse, Wis. Horseshoe	691,390	Jan. 21	1958	439	98	442
Kenney, Thomas M., assignor of one-half to D. Farquhar, Cambridge, Mass. Rotary engine	713,649	Nov. 18	2305	514	101	1401
Kenney, William W., and J. W. Fogler, New London, Conn. Umbrella-runner	707,237	Aug. 19	2360	529	100	1636
Kennicott, Cass L., Chicago, Ill. Apparatus for purifying water	703,596	July 1	387	89 90 91	100	77
Kennicott, Cass L., Chicago, Ill. Hoisting apparatus	717,215	Dec. 30	5123	1110	101	2983



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Kennicott, Cass L., assignor to Kennicott Water Softener Company, Chicago, Ill. Water-purifying apparatus.....	708,717	Sept. 9	1302	297	100	2257
Kennicott Water Softener Company. (See Kennicott, Cass L., assignor.).....						
Kennington, Frederick, Leeds, England. Adjustable roof or cover for tram-cars.....	698,518	Apr. 29	3057	875	99	901
Kenyon, George A. (See White, David, assignor.).....						
Kenny, Hugh E., assignor to Chamberlain Metal Weather Strip Company, Detroit, Mich. Weather-strip and guide for windows.....	694,062	Feb. 25	3538	780	98	1588
Kenny, Hugh E., assignor to Chamberlain Metal Weather Strip Co., Detroit, Mich. Weather-strip.....	698,712	Apr. 23	4408	972	99	999
Kenny, John S., New York, N. Y. Reclining chair.....	715,382	Dec. 9	1399	302	101	2141
Kenny, John S., New York, N. Y. Footrest for chairs.....	715,667	Dec. 9	1920	429	101	2245
Kenny, William J., Mortonpark, Ill. Machine for flanging can-bodies.....	697,726	Apr. 15	2501	559	99	561
Kenny, William J., assignor of one-half to W. S. Cumming, Chicago, Ill. Machine for end-seaming sheet-metal bodies.....	699,843	May 13	1388	321	99	1474
Kent, Alexander W., Boston, Mass. Gas-burning heater.....	698,519	Apr. 29	3958	875	99	901
Kent, Alexander W., Boston, Mass. Steering apparatus for vehicles.....	700,779	May 27	3277	752	99	1902
Kent, Henry B., New Brunswick, N. J. Top for tooth-powder bottles or cans or other containers.....	701,893	June 10	1091	248	99	2352
Kent, Henry B., New Brunswick, N. J. Top for tooth-powder bottles or cans or other containers.....	711,052	Oct. 14	1256	274	101	275
Kent, Henry B., New Brunswick, N. J. Tooth-powder bottle, can, or other container.....	717,216	Dec. 30	5123	1111	101	2984
Kent, Henry B., assignor to Consolidated Fruit Jar Company, New Brunswick, N. J. Top for tooth-powder bottles.....	690,737	Jan. 7	729	161	98	154
Kent, Myron L. (See Pease, William C., assignor.).....						
Kent, Perry E., Utica, N. Y. Paper-jogger.....	702,966	June 24	3110	716	99	2804
Kent, Richard A. (See Osgood and Bradley, assignors.).....						
Kent, Thomas J., assignor of one-half to S. B. Charters and W. H. Daughenbaugh, Pittsburg, Pa. Switch-throwing device.....	706,668	Aug. 12	1294	285	100	1895
Kent, Walter G., London, England. Liquid-meter.....	693,092	Feb. 11	1490	826	98	1133
Kent, Walter G., County of Middlesex, England. Water meter and recorder.....	699,188	May 6	108	28	99	1197
Kent, Walter G., and J. W. Sutton, High Holborn, county of Middlesex, England. Knife-cleaning machine.....	714,711	Dec. 2	117	24	101	1862
Kent, William, Covington, Ky. Reverberatory puddling or boiling furnace.....	694,370	Mar. 11	1228	268	98	1989
Kent, William, Covington, Ky. Welded cast-metal process.....	715,584	Dec. 9	1779	395	101	2216
Kent, William J., Brooklyn, N. Y., assignor to Revere Rubber Company, Boston, Mass. Hoof-pad.....	692,305	Feb. 4	150	36	98	829
Kenton, Israel, <i>et al.</i> (See Fowler, Frank L., assignor.).....						
Kenvin, Thomas H., Homestead, Pa. Window shade and curtain bracket.....	692,144	Jan. 28	3349	758	98	745
Kenworthy, Charles A. (See Ferris and Kenworthy.).....						
Kenyon, Charles E., New York, N. Y. Hernial truss.....	713,450	Nov. 11	1895	429	101	1303
Kenyon, Elijah A. (See Hostford, Oscar F., assignor.).....						
Kenyon, Frank S. (See Thomas, Calvin F., assignor.).....						
Kenyon, Lowell H., Allegheny, Pa. Locomotive driving-wheel.....	697,850	Apr. 15	2726	605	99	611
Kenyon, Lowell H., Allegheny, Pa. Locomotive driving-wheel.....	707,335	Aug. 19	2553	575	100	1675
Kenyon, Richard W. (See Barnes and Kenyon.).....						
Kenyon, William H. (See Barnes and Kenyon.).....						
Kenyon, William J. C., and W. S. King, Omaha, Nebr. Machine for blocking and derailing cars.....	716,902	Dec. 30	4492	973	101	2848
Keogh, William T., New York, N. Y. Smoke-consumer.....	706,420	Aug. 5	844	185	100	1284
Kepler, Francis M., Hanna City, Ill. Screen.....	692,455	Feb. 4	406	97	98	882
Kepple, Edward M. (See Seanor and Kepple.).....						
Keppler, Michael. (See Stevers and Keppler.).....						
Kern, Albert, St. Louis, Mo. Antislipping foot for ladders or the like.....	707,236	Aug. 19	2361	529	100	1636
Kern, Charles A. (See Spreckels and Kern.).....						
Kern, Max, St. Gall, and A. Wiget, Zurich, Switzerland. Apparatus for transporting live aquatic animals.....	710,325	Sept. 30	4502	1015	100	2971
Kernbaum, Julius P., South Yarra, Victoria, Australia. Seal-lock.....	709,777	Sept. 23	3440	774	100	2794
Kernochan, William, New York, N. Y. Stair-carpet securer.....	707,848	Aug. 25	3214	815	100	1917
Kernodle, George W., Elon College, N. C. Vehicle-top.....	708,273	June 24	3680	847	99	2916
Kerns, Alonzo F., Chicago, Ill. Horseshoe.....	714,380	Nov. 25	3782	822	101	1618
Keromoter Development Company. (See Page and Wood, assignors.).....						
Kerper, Edward S., <i>et al.</i> (See Hobert, Clayton, assignor.).....						
Kerr, Abnus B., <i>et al.</i> (See Culpepper, Robert S., assignor.).....						
Kerr Dental Manufacturing Company. (See Kerr, Mathew M., assignor.).....						
Kerr, E. G., <i>et al.</i> (See Bowen, David A., assignor.).....						
Kerr, George S., Morton, Pa. Swing.....	699,189	May 6	110	29	99	1198
Kerr, George S., Morton, Pa. Swing.....	701,354	June 3	134	28	99	2136
Kerr, John B., Jr., Toronto, Ohio. Burial-case.....	709,988	Sept. 30	3877	874	100	2838
Kerr, John F. (See Dean, John, assignor.).....						
Kerr, John F. (See Reed, Poladore M., assignor.).....						
Kerr, John F., Paterson, N. J. Trolley.....	710,469	Oct. 7	125	29	101	27
Kerr, John F., and A. Laueter, Paterson, N. J. Suspension-hook.....	710,061	Sept. 30	3999	902	100	2864
Kerr, Mark M., Cincinnati, Ohio. Compress.....	707,426	Aug. 19	2721	616	100	1711
Kerr, Mathew M., Detroit, Mich. Blowpipe.....	713,451	Nov. 11	1896	429	101	1303
Kerr, Mathew M., Detroit, Mich., assignor to Kerr Dental Manufacturing Company. Dental articulator.....	698,964	Apr. 29	4891	1080	99	1105
Kerr, Robert A., St. Clairsville, Ohio. Time-controlled damper.....	699,830	May 6	379	89	99	1251
Kerr, Robert C. (See Brown and Kerr.).....						
Kerr, William F., Cleveland, Ohio. Fruit-can wrench.....	708,149	Sept. 2	279	66	100	2039
Kerr, William J., Ozark, Mo. Grain-separator.....	692,145	Jan. 28	3351	759	98	745
Kersey, Edward, Chicago, Ill. Non-refillable bottle.....	715,389	Dec. 9	1402	302	101	2142
Kersey William H., assignor to Clark & Roberts, Indianapolis, Ind. Tray-support for physicians' tables.....	693,861	Feb. 11	1144	255	98	1059
Kershner, Andrew J., Jr., Dryrun, Md. Corn-plaster.....	713,901	Nov. 18	2962	638	101	1541
Kershner, Nathan, Reading, Pa. Ventilator for locomotive-engines.....	697,493	Apr. 15	2076	400	99	475
Kerstetter, Charles W., Chicago, Ill. Valve for automatic fire-extinguishers.....	711,725	Oct. 21	2554	561	101	562
Kerstetter, James L., assignor of one-half to F. W. Winger and F. W. Wagner, Bradford, Pa. Inkstand.....	691,721	Jan. 21	2545	570	98	565
Kersul, Antonio, New York, N. Y. Apparatus for lowering life-boats.....	713,889	Nov. 18	2762	613	101	1499
Kertesz, Adolf, assignor to L. Cassella & Co., Frankfurt-on-the-Main, Germany. Dyeing sulfur colors.....	693,653	Feb. 18	2731	614	98	1407

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Kessel, Henry A., <i>et al.</i> (See La Burt, John, assignor.)						
Kesseling, George, Reading, Mich. Wheel-hub	710,984	Oct. 14	1104	248	101	242
Kesseling, Philip, Jr., Tripp, S. D. Fanning-mill	716,431	Dec. 23	3466	756	101	2606
Kessler, Edward J., assignor to Dow and Shell Company, Toledo, Ohio. Machine for cleaning and assorting raisins	696,870	Apr. 1	890	205	99	188
Kessler, Fernando, Rosario, Argentina. Continuous diffusion	703,669	Aug. 12	1296	285	100	1396
Kessler, John C., Milwaukee, Wis. Insect-repellent	708,649	Sept. 9	1168	100	2329	
Kessler, John H. (See Kessler, Philip A. and J. H.)						
Kessler, John H., Syracuse, N. Y. Thill-support	690,587	Jan. 7	421	90	98	92
Kessler, Philip A. and J. H., Chicago, Ill. Wagon-tongue support	696,978	Apr. 8	1146	255	99	263
Kessler, William F., Auburn, Ind. Electric cigar-lighter	702,437	June 17	2090	476	99	2374
Kessler, William F., Auburn, Ind. Cigar-lighter	702,438	June 17	2092	477	99	2375
Kester, Charles E., <i>et al.</i> (See Gibbons, Pierce F., assignor.)						
Kestler, Fred. (See Roberts and Kestler.)						
Ketcham, George W., Newark, N. J. Enameling metal ware	708,363	Sept. 2	661	100	2115	
Ketcham, Israel V., Brooklyn, N. Y. Rotary engine	696,825	Apr. 1	809	186	99	172
Ketchin, William M., Tariffville, Conn. Tobacco-hanger	704,196	July 8	1564	337	100	328
Ketchum, Edgar V. R., New York, N. Y. Electrically-operated switch	695,563	Mar. 18	2308	522	98	2231
Ketchum, Zebulun C., Ottawa, Canada. Paper-file	710,586	Oct. 7	368	77	101	74
Ketelsen, Andrew J., Seattle, Wash. Spout and faucet	714,585	Nov. 25	4108	900	101	1794
Ketler, William W., and E. Britton, North Lawrence, Ohio. Claw-bar	704,883	July 15	2825	611	100	605
Ketteringham, John P., assignor of one-half to O. D. Ireland, Pineridge, Miss. Check-rein-hook	709,778	Sept. 23	3443	774	100	2734
Kettler, Louis C. (See Cochrane, William B., assignor.)						
Keuffel & Esser Company. (See Keuffel, Wilhelm, assignor.)						
Keuffel & Esser Company. (See Paoli, John, assignor.)						
Keuffel, Wilhelm, Hoboken, N. J., assignor to Keuffel & Esser Company. Tape-reel	702,439	June 17	2094	477	99	2575
Keuffel, William, Hoboken, N. J. Combined cork and dropper	710,587	Oct. 7	369	78	101	74
Keville, William J., and J. P. Carey, Denver, Colo. Slack-adjuster	710,361	Sept. 30	4563	1029	100	2983
Kevorkian, Zareh H., Philadelphia, Pa. Electric alarm-clock	703,425	July 1	108	24	100	24
Kewin, William C., Rochester, N. Y. Cuff-holder	707,427	Aug. 19	2722	616	100	1711
Keyes, Erasmus L., Hopedale, Ill. Chute-wagon	701,894	June 10	1092	248	99	2352
Keyes, Ernest W., assignor of one-fourth to E. G. Connette, Syracuse, N. Y. Railway-switch-shifting mechanism	712,074	Oct. 28	3361	715	101	724
Keyes, Frank E., Holyoke, Mass. Hydraulic press	690,968	Jan. 14	1135	257	98	253
Keyes, Frank E., Holyoke, Mass. Machine for the manufacture of sheets, boards, or tubes from pulp	692,862	Feb. 11	1145	255 256	98	1059
Keyes, Harry E., Homestead, assignor to Keystone Valve and Manufacturing Company, Pittsburg, Pa. Valve	711,216	Oct. 14	1591	341	101	345
Keyes, Harry E., assignor, by mesne assignments, to Gravity Coaster Manufacturing Company, Homestead, Pa. Coasting-wagon	711,402	Oct. 14	1926	419	101	416
Keyes, Washington D., Kittanning, Pa. Apparatus for delivering glass	695,156	Mar. 11	1577	350	98	2063
Keyes, Washington D., Kittanning, Pa. Apparatus for refining and delivering glass	696,738	Apr. 1	651	146 147	99	139
Keyes, Washington D., Blairsville, Pa. Leer for annealing plate-glass	700,427	May 20	2579	591	99	1737
Keyes, Winfield S., San Francisco, Cal. Protecting dikes	700,428	May 20	2580	591	99	1737
Keyler, Charles W., and A. Matz, Cincinnati, Ohio; said Keyler assignor to said Matz. Step for street-cars or other vehicles	699,395	May 6	514	100	99	1281
Keyless Lock Company. (See Arner, Joseph and C. E., assignors.)						
Keys, Nathan A. (See Place and Keys.)						
Keyser, George, Philadelphia, Pa. Machine for sewing looped fabrics	692,017	Jan. 23	3114	700	98	697
Keyser, Lester C. (See Pearce, James W., assignor.)						
Keystone Driller Company. (See Downie, Robert M., assignor.)						
Keystone Driller Company. (See Downie and Messner, assignors.)						
Keystone Lantern Company. (See Casey, John T., assignor.)						
Keystone Seal & Press Company. (See Krah, Alexis, assignor.)						
Keystone Seal & Press Company. (See Schofield, Albert B., assignor.)						
Keystone Telephone Company. (See Wilson, Charles E., assignor.)						
Keyt, John E., assignor of one-half to J. R. Smith, San Francisco, Cal. Trap-flush	705,933	July 29	5028	1096	100	1077
Keyte, Richard, Whangarei, assignor to C. E. R. Mackesy, The Hill, Whangarei, Auckland, New Zealand. Means for automatically indicating changes in temperature	704,966	July 15	3055	656	100	652
Khan, Syed A. M., London, England. Cane	690,655	Jan. 7	554	120	98	119
Khebl, Josef. (See Korejs and Khebl.)						
Khoonri, Elias A. (See Rapson, Hobart D., assignor.)						
Khotinsky, Achilles de, Chicago, Ill. Assignor to Copenhagen Automatic Fire Alarm Company, Sheboygan, Wis. Circuit-tester	696,144	Mar. 25	3420	768	98	2475
Khotinsky, Achilles de, assignor to T. Jansen, Chicago, Ill. Automatic photographic recording apparatus	708,813	Sept. 9	1496	343 344 345	100	2300
Kibbe, William A., Leavenworth, Kans. Trestle	704,687	July 15	2449	529	100	528
Kick, Frank. (See Bloom, Louis, assignor.)						
Kick, J. G., <i>et al.</i> (See Brooks, Theodore L., assignor.)						
Kidd, Archie M., and W. A. Gibbons, Joplin, Mo.; said Kidd assignor to said Gibbons. Pipe-coupling	709,779	Sept. 23	3444	775	100	2735
Kidd, Frank L., assignor of one-half to P. T. Brown, Brooklyn, N. Y. Carpet-stretcher	702,222	June 10	1694	382	99	2474
Kidder, John F., Winoski, Vt. Combined punch and shears	704,344	July 8	1826	396	100	385
Kidder, Josiah H., Pueblo, Colo. Hydrant-cock	707,119	Aug. 19	2188	478	100	1588
Kidder Press Company. (See Meisel, Francis, assignor.)						
Kidder, Wellington P., Boston, Mass., assignor, by mesne assignments, of eleven-twentieths, to himself, and F. H. & C. W. Goodyear, Buffalo, N. Y. Apparatus for removing bark from trees	707,428	Aug. 19	2724	616	100	1711
Kidder, Wellington P., Boston, Mass., assignor, by mesne assignments, to F. H. Goodyear and G. E. Matthews, trustees, Buffalo, N. Y. Apparatus for felling trees	711,573	Oct. 21	2262	491	101	500
Kiddie, Adam, assignor of one-half to G. W. Kimball, Tilden, Ill. Pleasure device	715,668	Dec. 9	1921	489	101	2245
Kidwell, Edgar, Houghton, Mich. Brace for structures	715,390	Dec. 9	1403	303	101	2142
Kiefer, Adam S., Cleveland, Ohio. Valve mechanism for fluid-supply pipes	709,096	Sept. 16	2091	479	100	2441
Kiefer, Charles L., Indianapolis, Ind. Telephone-booth	698,025	Apr. 22	3049	670	99	697
Kiefer, Ludwig. (See Fischer and Kiefer.)						
Kieffer, Joseph L., Montreal, Canada. Take-up mechanism for sewing-machines	696,871	Apr. 1	892	206	99	189
Kieffer, Joseph L., Montreal, Canada. Tension mechanism for sewing-machines	696,872	Apr. 1	896	207	99	189
Kieffer, Joseph L., Montreal, Canada. Pull-off mechanism for sewing-machines	706,670	Aug. 12	1299	256	100	1396
Kiene, Ernest, Spokane, Wash. Necktie-fastener	692,146	Jan. 28	3352	759	98	745



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Kienholz, Benjamin, Hallock, Minn. Grain-spout .....	702,440	June 17	2005	477	99	2575
Kienzle, Jakob, Schwennigen, Germany. Repeating clock .....	708,364	Sept. 2	663	149	100	2115
Kieren, Conrad. (See Monahan and Kieren.) .....						
Kierolf, Salem E., Jackson, Tenn. Pea-harvester .....	692,456	Feb. 4	407	97 98	98	882
Kiesel, William F., Jr., Altoona, Pa. Release-igniting for car-couplings .....	716,554	Dec. 23	3728	812	101	2660
Kilbourne, Washington H., Greenfield, Mass. Trolley-pole-controlling device for cars or vehicles .....	691,275	Jan. 14	1688	384	98	397
Kilbourne, Washington H., Greenfield, assignor to Stanley Electric Manufacturing Company, Pittsfield, Mass. Trolley-stand .....	717,414	Dec. 30	5468	1186	101	3055
Kilbourne and Jacobs Manufacturing Company. (See Kilbourne, James R., assignor.) .....						
Kilbourne, James R., assignor to Kilbourne and Jacobs Manufacturing Company, Columbus, Ohio. Steel box-car .....	709,329	Sept. 16	2543	572	100	2536
Kilbourne, James R., assignor to Kilbourne and Jacobs Manufacturing Company, Columbus, Ohio. Box-car .....	709,330	Sept. 16	2544	572	100	2536
Kilburn, John, Belmont, Mass., assignor to Sawyer Spindle Company, of Maine. Spindle-bearing .....	705,847	July 29	4870	1058	100	1046
Kilburn, John, Belmont, Mass., assignor to Sawyer Spindle Company, of Maine. Spindle-bearing .....	709,821	Sept. 23	3525	794	100	2753
Kilby, Alfred, Dennyville, Me. Traction-truck .....	699,877	May 13	1467	337	99	1492
Kiler, Charles M., assignor of two-thirds to S. F. Earhart, Indianapolis, Ind. Motor .....	708,425	July 1	109	24	100	21
Kilgore, Frederick O., Minneapolis, Minn. Logging-stake .....	713,650	Nov. 18	2307	515	101	1401
Kilgore, Robert L., Section, Ala. Lap-ring .....	697,690	Apr. 15	2330	520	99	526
Killars, John, Stonington, Conn., assignor to C. A. Wimpheimer, New York, N. Y. Woven double-pile fabric .....	701,573	June 3	526	115	99	2217
Killebrew, William L., Cape Girardeau, Mo. Barge-loading device .....	701,053	May 27	3784	866	99	2006
Killian, George, Scranton, Pa. Car-wheel .....	707,120	Aug. 19	2199	478	100	1588
Killian, Jonas H., Buente, Cal. Device for generating gas for use in explosion-engines .....	696,569	Apr. 1	316	74	99	71
Killion, John H., Chicago, Ill. Ornamental stock for framing or other purposes .....	694,755	Mar. 4	801	178	98	1881
Killion, John H., Chicago, Ill. Basket .....	716,639	Dec. 23	3897	851	101	2698
Killon, Harry B., Manchester, England. Apparatus for use in the treatment of sewage .....	711,801	Dec. 2	300	65	101	1898
Kilmer, Melvin D., Cleveland, Ohio. Wire-clamp .....	716,723	Dec. 23	4088	884	101	2727
Kilmer, William A., Bangor, Mich., assignor to W. A. Scott, Chicago, Ill. Bale-tie .....	695,213	Mar. 11	1683	373	98	2084
Kilmer, William A., Bangor, Mich., assignor to W. A. Scott, Chicago, Ill. Bale-tie .....	695,214	Mar. 11	1683	373	98	2084
Kilshaw, John J., Brooklyn, N. Y. Steam-generator .....	701,895	June 10	1093	249	99	2353
Kimball, Charles F., Chicago, Ill. Folding vehicle-seat .....	698,554	Feb. 18	2732	603	98	1407
Kimball, Charles M., Port Huron, Mich. Ore-concentrator .....	698,293	Apr. 22	3572	798	99	805
Kimball, Edward H., Glencoe, Ill. Cutting-machine .....	693,404	Feb. 18	2252	493	98	1309
Kimball, Edward J. (See White, Clarence O., assignor.) .....						
Kimball, Frank J. (See Swan and Richardson, assignors.) .....						
Kimball, Fred H. (See Lang, James S., assignor.) .....						
Kimball, George H. (See Doyle and Kimball.) .....						
Kimball, George W. (See Kiddie, Adam, assignor.) .....						
Kimball, Hannah A., New York, N. Y. Pin .....	696,570	Apr. 1	318	74	99	71
Kimball, Perley L., Bellows Falls, Vt. Centrifugal separator .....	702,441	June 17	2006	477 478	99	2575
Kimball, Perley L., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Cover for separator-bowls .....	692,526	Feb. 4	551	129	98	910
Kimball, Perley L., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Centrifugal separator .....	712,810	Oct. 28	3670	801	101	806
Kimball, Perley L., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Liquid-separator. (Reissue) .....	12,055	Nov. 18	3214	709	101	1596
Kimball, W. H. (See Giberson, Hamilton, assignor.) .....						
Kimbark, Daniel A. (See Felt and Kimbark.) .....						
Kimberlin, Winfield M., assignor of one-half to E. C. Eippert, Akron, Ohio. Pneumatic tire-repairing tool .....	713,006	Nov. 4	1011	237	101	1103
Kimberly, Gideon L., Moundsville, W. Va. Combined cross-tie, track-fastening, and rail-joint .....	696,979	Apr. 8	1147	255	99	263
Kimbrell, Geary, Pendleton, Oreg. Entasisograph .....	692,147	Jan. 28	3353	759	98	745
Kimman, Henry J., Chicago, Ill., assignor to Chicago Pneumatic Tool Company, Trenton, N. J. Pneumatic hammer .....	707,515	Aug. 19	2868	650 651	100	1742
Kimmel, Moses. (See Fitzgerald, Seifert, and Kimmel.) .....						
Kimmell, Granger G., Farmer, Ohio. Corn harvester and shocker .....	704,839	July 15	2743	593 594	100	587
Kimmons, R. F. (See Moore and Tatum, assignors.) .....						
Kimsey, James C., Philadelphia, Pa. Dust-chute for buildings .....	691,149	Jan. 14	1453	331	98	318
Kimsey, James C., Philadelphia, Pa. Long-waist former .....	707,239	Aug. 19	2362	530	100	1636
Kimsey, James C., Philadelphia, Pa. Christmas-tree holder .....	711,217	Oct. 14	1593	342	101	316
Kincaid, Charles A. (See Kincaid, John W., assignor.) .....						
Kincaid, Fred L., Stockton, assignor to Pacific Acetylene Gas Company, San Francisco, Cal. Acetylene-gas generator .....	704,967	July 15	3056	656 657	100	638
Kincaid, John W., Covington, Ky. Mechanical stoker .....	691,391	Jan. 21	1959	439 440	98	443
Kincaid, John W., Covington, Ky., assignor of one-third to C. A. Kincaid, Covington, Va. Mechanical stoker .....	714,712	Dec. 2	118	24	101	1892
Kincaid, Michael A. D., Dallas, Tex. Spring-hinge .....	691,551	Jan. 21	2230	591	98	499
Kincaid, Walter C., Moberly, Mo. Spreader for fence-making machines .....	699,190	May 6	112	29	99	1198
Kincaid, Walter C., Moberly, Mo. Fence-making machine .....	713,452	Nov. 11	1898	430	101	1303
Kindermann, Heinrich E. A., Chemnitz, Germany. Auxiliary reversing-gear for machine-tools .....	700,206	May 20	2126	487	99	1646
Kindgen, Frederick E., Brooklyn, N. Y. Device for loading and stiffening rugs .....	717,313	Sept. 30	5118	1110	101	2982
Kindig, Benjamin W., Jr., York, Pa. Bridle and bit .....	710,156	Dec. 30	4203	947	100	2006
Kindl, Frederick H., Pittsburg, Pa. Unloading apparatus .....	711,772	Oct. 21	2649	584 585	101	583
Kindsvater, John H., Russell, Kans. Combined rake and stacker .....	704,345	July 8	1829	396 397	100	385
King, Adam, assignor of one-third to J. Hasenzahl, Columbus, Ohio. Trunk .....	695,611	Mar. 18	2403	544	98	2251
King, Arthur D. (See Dement and King.) .....						
King, Charles A., Mattapoisett, Mass. Sterilizing-machine .....	710,784	Oct. 7	750	159	101	154
King, Charles G. V., Chicago, Ill. Means for operating valves .....	705,250	July 22	3659	792	100	791
King, Charles W. and W. H., Kansas City, Mo. Spring rocking-chair .....	697,494	Apr. 15	2078	460	99	476
King, Charles W. G. (See Longstreth and King.) .....						
King, Elias, Nemaha, Iowa. Farm-gate .....	697,631	Apr. 15	2331	520	99	526

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King, Elmer E., Kansas City, Mo. Hog-ringer .....	711,773	Oct. 21	2655	585	101	584
King, Elmer H. (See King, William F. and E. H.) .....						
King, Eugene H., Pittsburg, Pa. Overshoe-fastener .....	699,800	May 13	1298	301	99	1455
King, Ferdinand, New York, N. Y. Thermometer attachment for fountain-syringes .....	711,500	Oct. 21	2135	464	101	473
King, Francis T., Stoneham, Mass. Staple-puller .....	715,207	Dec. 2	1069	229	101	2055
King, Frederick P. (See Riding and King.) .....						
King, Frederick S. (See Nash and King.) .....						
King, Galusha A., assignor to C. W. Davis, Linesville, Pa. Transfer and hinge for evapo- rating-pans .....	694,874	Mar. 4	1037	229 230	98	1931
King, George I., Detroit, Mich., assignor to American Car and Foundry Company, St. Louis, Mo. Low-side gondola car .....	691,687	Jan. 21	2400	539 540	98	534
King, George I., Detroit, Mich., assignor to American Car & Foundry Company, St. Louis, Mo. Dumping-car .....	692,457	Feb. 4	410	98	98	882
King, George I., Middletown, Pa., assignor to American Car & Foundry Company, St. Louis, Mo. Center-bearing .....	715,085	Dec. 2	846	180	101	2009
King, George R., New Brighton, N. Y. Fireproof floor construction .....	705,360	July 22	3921	849	100	842
King, George W., assignor to Marion Steam Shovel Company, Marion, Ohio. Throttle- valve .....	701,574	June 3	528	116	99	2217
King, George W., assignor to Marion Steam Shovel Company, Marion, Ohio. Ballast unloader .....	713,651	Nov. 18	2308	515	101	1402
King, George W., assignor to Marion Steam Shovel Company, Marion, Ohio. Ballast- unloader .....	714,103	Nov. 25	3385	745 746	101	1649
King, Harvey (See Mayes, King, and Mayes.) .....						
King, Henry P., Osgood, Ind. Storage battery .....	710,870	Oct. 7	897	195	101	182
King, Howard K., assignor to Chambers Brothers Company, Philadelphia, Pa. Paper- folding machine .....	700,505	May 20	2735	625 626	99	1770
King, Howard K., assignor to Chambers Brothers Company, Philadelphia, Pa. Lubri- cant apparatus for the dies of brick-machines .....	709,097	Sept. 16	2003	480	100	2441
King, Isaac M., Liddville, La. Ironing-table .....	713,111*	Nov. 11	1226	280	101	1166
King, James M., Rochester, Minn. Water-wheel .....	701,355	June 3	136	28 29	99	2137
King, John H., Garrity, Ala. Milk-pail .....	705,678	July 29	4574	993	100	986
King, John H., Covington, Ky., assignor of one-half to Kisinger-Ison Company, Cincin- nati, Ohio. Machine for making tubular strainers .....	716,555	Dec. 23	3730	812 813	101	2661
King, Joseph D., Wellsville, Mo. Vehicle-axle .....	701,356	June 3	138	29	99	2137
King, L. H., et al. (See Brooks, Theodore L., assignor.) .....						
King, Lemuel E. (See Stoner, William H., assignor.) .....						
King, Louis A. (See Perkins and King.) .....						
King, Oliver, Warren, Pa. Ax-head .....	700,780	May 27	3279	752	99	1903
King, Phineas F., assignor of one-half to C. H. Tucker, Cleveland, Ohio. Trolley .....	703,134	June 24	3426	786	99	2866
King, Robert B., Bristol, Pa. Closure for metallic vessels .....	690,441	Jan. 7	105	23	98	25
King, Robert W., Toronto, Canada. Automatic stoker and smoke-consumer .....	703,068	June 24	3298	759	99	2840
King, Rufus D., Bowman, Ga. Seed, grain, or fertilizer drill .....	712,687	Nov. 4	413	97	101	983
King, Theodore F., Nashville, Tenn. Insulator for electric wires .....	707,429	Aug. 19	2727	616	100	1711
King, Thomas A., Sioux City, Iowa. Book-file .....	695,814	Mar. 18	2754	627	98	2321
King, Thomas S. (See Jarvis, Wadkin, and King.) .....						
King, William G. (See Graham, Michael J., assignor.) .....						
King, William H. (See King, Charles W. and W. H.) .....						
King, William L., Ottumwa, Iowa. Horseshoe .....	696,450	Apr. 1	103	24	99	27
King, William P. and E. H., Syracuse, N. Y. Apparatus for administering medicines .....	705,251	July 22	3663	792	100	791
King, Winfield S. (See Kenyon and King.) .....						
Kingman, Barton E. (See McLoughlin, Harry, assignor.) .....						
Kingman, Edward B., Leominster, Mass. Comb. .....	691,946	Jan. 28	2090	672	98	673
Kingman Plow Company. (See Duffin, James F., assignor.) .....						
Kingman Plow Company. (See Evans, George E., assignor.) .....						
Kingsbury, Albert, Worcester, Mass. Center rest for lathes .....	716,432	Dec. 23	3468	756	101	2606
Kingsbury, David B. and O. D., Ravenna, Ohio. Rotary engine .....	713,007	Nov. 4	1012	237	101	1103
Kingsbury, Harry T., Keene, N. H. Toy milk-wagon .....	704,346	July 8	1833	397	100	886
Kingsbury, Harry T., Keene, N. H. Toy .....	706,421	Aug. 5	845	185	100	1284
Kingsbury, Harry T., Keene, N. H. Toy bank .....	706,422	Aug. 5	846	186	100	1284
Kingsbury, Harry T., Keene, N. H. Motor for toy vehicles .....	711,323	Oct. 14	1787	826	101	387
Kingsbury, Otis D. (See Kingsbury, David B. and O. D.) .....						
Kingsland, William, London, England. Connection of strikers to motor-vehicles for mechanically operating electric switches .....	698,965	Apr. 29	4893	1081 658 659 660 661	99	1106
Kingsland, William, London, England. Ratchet-operated electric switch .....	713,992	Nov. 18	2961	659 660 661	101	1541
Kingwill, John F., Chicago, Ill. Sad-iron .....	717,007	Dec. 30	4703	1090	101	2892
Kinkade, George H., and L. Mager, Hardin, Ill. Kraut-cutter .....	710,326	Sept. 30	4503	1010	100	2971
Kinley, John C., Richmond, Ind. Hot-air attachment for stoves .....	711,053	Oct. 14	1258	274	101	275
Kinnard, John M., Cleveland, Ohio. Measuring-cabinet .....	708,279	June 24	3683	848	99	2917
Kinnear, Duke M., and W. W. Jonah, Clinton, Mass. Shoe-fastener .....	701,896	June 10	1069	249	99	2333
Kinnear Manufacturing Company. (See Kinnear, William R., assignor.) .....						
Kinnear, William R., Columbus, Ohio. Expandable bolt .....	704,547	July 15	2227	482	100	481
Kinnear, William R., Columbus, Ohio. Spring-roller for fireproof blinds, &c .....	706,569	Aug. 12	1107	245	100	1355
Kinnear, William R., Columbus, Ohio. Fireproof door or blind .....	715,815	Dec. 16	2231	496	101	2330
Kinnear, William R., Columbus, Ohio. Fireproof blind or door .....	715,816	Dec. 16	2233	497	101	2330
Kinnear, William R., assignor to Kinnear Manufacturing Company, Columbus, Ohio. Spring-roller for fireproof blinds .....	704,546	July 15	2225	482	100	481
Kinney, Clement L. V., assignor to Newark Machine Company, Newark, Ohio. Mech- anism for transmitting power from vehicle ground-wheels .....	696,642	Apr. 1	440	105	99	97
Kinney, Clement L. V., assignor to Newark Machine Company, Newark, Ohio. End- gate for manure-spreader or similar beds .....	696,643	Apr. 1	451	105	99	97
Kinney, Frank W., and R. E. Price, assignors to Calumet Tire Rubber Company, Chi- cago, Ill. Apparatus for bringing the ends of rubber tires together .....	692,527	Feb. 4	552	129	98	910
Kinney, Israel, Toronto, Canada. Knife .....	702,907	June 24	3112	716	99	2804
Kinney, Israel, Toronto, Canada. Pocket-knife .....	702,968	June 24	3113	717	99	2804
Kinney, Richard R., assignor to National Burial Device Company, Coldwater, Mich. Burial device .....	700,948	May 27	3581	824	99	1963
Kinney, Henry G., Challenger, and J. H. Nott, Swansea, England. Acetylene-gas gen- erator .....	714,490	Nov. 25	3921	868 869	101	1754
Kinsey, Henry H., Shoshone, Idaho, assignor of one-third to M. Tusler, St. Paul, Minn. Collapsible box .....	696,451	Apr. 1	104	24	99	27
Kinsey, Isaac P., Chicago, Ill. Apparatus for purifying water .....	695,399	Mar. 11	1999	447	98	2149



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Kinsley, Jason D., Lisbon, Iowa. Tooth-crown burnisher .....	713,453	Nov. 11	1901	430	101	1304
Kinter, Joseph H., and W. H. Romig, Harrisburg, Pa. Sliding-door fastener .....	196,980	Apr. 8	1149	255 256	99	264
Kintner, Charles J. (See Lundell, Robert, assignor.)						
Kintner, Charles J., New York, N. Y. Carrier or holder for phonograph or graphophone record-cylinders .....	691,779	Jan. 28	2690	604	98	613
Kintner, Charles J., New York, N. Y. Electrical switch .....	691,780	Jan. 28	2691	604	98	614
Kintner, Charles J., New York, N. Y. Mechanism for automatically operating railway-switches .....	691,781	Jan. 28	2694	605 606	98	614
Kintner, Charles J., New York, N. Y. System of electric railways of the sectional type of conductors or rails .....	700,126	May 13	1909	443 444	99	1579
Kintner, Charles J., New York, N. Y. Electric railway .....	700,127	May 13	1915	444	99	1580
Kintner, Charles J., New York, N. Y. Electric railway .....	700,128	May 13	1918	444 445	99	1580
Kintner, Charles J., New York, N. Y. Electric railway .....	700,129	May 13	1929	445 446	99	1582
Kintner, Charles J., New York, N. Y. Electric railway .....	700,130	May 13	1937	446 447	99	1583
Kintner, Charles J., New York, N. Y. Electric railway .....	705,848	July 29	4872	1059 1060	100	1046
Kintz, Herbert, and M. J. Lennard, Sharpsburg, assignors of one-third to F. P. Booth, Pittsburg, Pa. Wrench .....	700,429	May 20	2581	591	99	1737
Kinvall, John, assignor of one-half to J. Schroeder, Worcester, Mass. Device for removing broken taps .....	702,011	June 10	1806	298	99	2394
Kinzy, Warren, Erie, Ark. Show-case .....	709,331	Sept. 16	2545	572	100	2336
Kip-Armstrong Company. (See Baker and Kip, assignors.)						
Kip, Frederic E. (See Baker and Kip.)						
Kipp, Albert, Sidney, N. Y. Device for mounting draw-bars .....	691,947	Jan. 28	2991	672	98	674
Kipp, Oliver G., Rochelle, Ill. Lubricator .....	699,191	May 6	112	29	99	1199
Kipp, Oliver G., Rochelle, Ill. Lubricator .....	706,570	Aug. 12	1108	245	100	1355
Kippels, Bruno, Moorhead, Minn. Merry-go-round .....	698,294	Apr. 22	3575	788	99	806
Kippen, Robert M. (See James and Kippen.)						
Kirberg, Jakob E., Philadelphia, Pa. assignor to Hensel, Colladay Company. Machine for making braids and trimmings .....	707,336	Aug. 19	2556	576 577	100	1675
Kirby, Frank H. (See McClave, Kirby, and Cumbe.)						
Kirby, George, Kirkdale, Liverpool, England. Railway-vehicle life-guard .....	690,738	Jan. 7	731	161	98	154
Kirby, John, Jr., assignor to Dayton Manufacturing Company, Dayton, Ohio. Globe-holder attachment for gas-fixtures .....	696,644	Apr. 1	452	106	99	97
Kirby Lumber Company. (See Woodman, George A., assignor.)						
Kirby, Thomas B., et al. (See Woodman, George A., assignor.)						
Kirby, Thomas B., assignor to Armour & Company, Chicago, Ill. Ice-tank for refrigerator-cars .....	704,197	July 8	1565	337 338	100	328
Kirby, William A., Newdorp, N. Y. Gearing for mowing-machines .....	702,442	June 17	2098	478	99	2576
Kirchner, Léon, Mulhouse, Germany, assignor of one-half to J. Handschin, Basle, Switzerland. Compressed-air brake for railways .....	715,585	Dec. 9	1780	395	101	2217
Kirk, Frank. (See Welton, William H. H., assignor.)						
Kirk, Robert L., Forney, Tex. Loca .....	711,111	Oct. 14	1364	297	101	296
Kirk, William I., Dubois, Pa. Saw-clamp .....	701,897	Oct. 10	1095	249	99	2353
Kirkland, Robert R. (See Vrooman and Kirkland.)						
Kirkeley, William H., Cranston, R. I. Mechanism for operating street-railway switches .....	710,470	Oct. 7	127	30	101	27
Kirkpatrick, Elliott C. (See Denton and Preas, assignors.)						
Kirkpatrick, John J. (See Lishman, Haughton, and Kirkpatrick.)						
Kirkpatrick, Nathaniel W., and M. Henry, Dayton, Ohio. Machine for making cotter-pins .....	692,528	Feb. 4	554	130 131	98	911
Kirkpatrick-Picard, Hugh F. (See Sulman and Kirkpatrick-Picard.)						
Kirkpatrick-Picard, Hugh F., London, England. Recovering zinc from sulfid ores .....	692,148	Jan. 28	3355		98	746
Kirkpatrick, Robert S., assignor to H. S. Butler, Des Moines, Iowa. Check-rod attachment for corn-planters .....	693,721	Feb. 18	2854	629	98	1432
Kirkwood, Joel, Maury, assignor of one-half to O. Stevens, New Salem, Ind. Rotary pump or force-blast blower .....	693,609	Feb. 18	2653	585	98	1390
Kirlin, Linden, Kansas City, Mo. Two-row cultivator .....	700,337	May 20	2409	549	99	1703
Kirman, Richard, et al. (See Borchert, William, assignor.)						
Kirsanov, Wassily, Moscow, Russia. Blasting-cartridge .....	704,465	July 8	2051	444 445	100	431
Kirsch, Bernhard, assignor of one-half to A. Pessl, Vienna, Austria-Hungary. Braiding-machine .....	717,415	Dec. 30	5470	1186 1187	101	3055
Kirsch, Charles W., assignor to Elevator Safety Company, Milwaukee, Wis. Means for operating elevator-doors .....	692,306	Feb. 4	153	36	98	830
Kirsch, Charles W., assignor to Elevator Safety Device Company, Chicago, Ill. Elevator .....	711,726	Oct. 21	2557	561 562	101	563
Kirschning, Hermann, Berlin, Germany. Packing-ring .....	707,930	Aug. 26	3763	844	100	1938
Kirshner, Michael, Lynchburg, Va. Baling-press .....	701,575	June 3	530	116	99	2218
Kirshner, Michael, Lynchburg, Va. Bale-covering .....	701,576	June 3	535	117	99	2219
Kirtley, Simeon B., Jefferson City, Mo. Self-indexing ledger .....	711,249	Oct. 14	1647	335	101	357
Kiser, Alvie V., West Liberty, Ohio. Corn-harvester .....	691,782	Jan. 28	2698	606 607	98	615
Kiser, Jacob J., Stanberry, Mo. Machine for applying dust insecticides and fungicides to trees, &c. .....	714,802	Dec. 2	305	66	101	1899
Kisinger-Ison Company. (See King, John H., assignor.)						
Kiss, Emory, Lorain, Ohio. Tool for twisting wax-ends .....	715,086	Dec. 2	848	180	101	2010
Kiss, Ernest J., Fort Wayne, Ind. Amalgamator .....	696,452	Apr. 1	105	25	99	28
Kiss, Ernest J., Fort Wayne, Ind. Foundry pattern-clamp .....	707,596	Aug. 26	3054	687	100	1796
Kiss, Ernest J., Fort Wayne, Ind. Amalgamator .....	707,597	Aug. 26	3055	687	100	1796
Kistler, Elmer E., Philadelphia, Pa. Ear-protector .....	694,159	Feb. 25	3710	819	98	1623
Kistler, Samuel L., Los Angeles, Cal. Rectal instrument .....	694,371	Mar. 11	1329	208	98	1990
Kistler, Samuel L., Los Angeles, Cal. Comb-cleaner .....	703,597	July 1	390	91	100	78
Kistler, Willoughby F., Burbank, Ohio. Stove .....	697,091	Apr. 8	1353	300	99	307
Kitchen, John G. A., Windermere, England. Steam-engine .....	692,307	Feb. 4	156	36 37	98	828
Kitchen, Tracy S., Willard, Ky. Churn .....	695,936	Mar. 25	2982	674	98	2383
Kitching, Cyrus, Chicago, Ill. Signaling device .....	713,774	Nov. 18	2535	564	101	1452
Kitsee, Isidor, Philadelphia, Pa. Telephony .....	691,060	Jan. 14	1310	207	98	288
Kitsee, Isidor, Philadelphia, Pa. Machine for producing matrices for stereotype-plates .....	698,966	Apr. 29	4895	1081 1082	99	1106

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Kitsee, Isidor, Philadelphia, Pa. Pyroxylin compound.....	701,357	June 3	139	---	99	2137
Kitsee, Isidor, Philadelphia, Pa. Insulating electric conductors.....	703,135	June 24	3427	787	99	2366
Kitsee, Isidor, Philadelphia, Pa. Etching designs.....	708,032	Sept. 2	104	34	100	2003
Kitsee, Isidor, Philadelphia, Pa. Thermo-electric generator.....	713,652	Nov. 18	2310	515 516	101	1402
Kitsee, Isidor, Philadelphia, Pa. Communication with the aid of electromagnetic devices.....	715,817	Dec. 16	2234	498	101	2331
Kitsee, Isidor, Philadelphia, Pa. Producing matrices.....	716,053	Dec. 16	2714	---	101	2436
Kitsee, Isidor, Philadelphia, Pa. Secondary battery.....	717,416	Dec. 30	5474	1187	101	3056
Kitson Hydrocarbon Heating and Incandescent Lighting Company. (See Curran, Philip B., assignor.)						
Kitson Hydro-Carbon Heating & Incandescent Lighting Company. (See Quigley, Wirt S., assignor.)						
Kitson Hydrocarbon Heating & Incandescent Lighting Company. (See Scott, George D., assignor.)						
Kitten, Joseph W., assignor to Safety Gaslight Co., Chicago, Ill. Carbureter.....	703,794	July 1	776	170 171	100	155
Kittle, Charles R., and G. E. Harpham, Los Angeles, Cal. Hydrocarbon-burner.....	712,142	Oct. 28	3387	742	101	749
Kittredge, Anson O., Tenafly, N. J., assignor to Account, Audit and Assurance Company, Limited, New York, N. Y. Post-binder and transfer-cover for contents.....	693,139	Feb. 11	1717	376	98	1178
Kittredge, Anson O. and E. R. Tenafly, N. J., assignors to Account, Audit & Assurance Company, Limited, New York, N. Y. Book-section having wide and narrow leaves.....	697,435	Apr. 15	2079	461	99	476
Kittredge, Anson O. and E. R. Tenafly, N. J., assignors to Account, Audit & Assurance Company, Limited, New York, N. Y. Sheet for serial binders.....	700,506	May 20	2739	627	99	1770
Kittredge, Anson O., Springfield, Mass., and E. R. Kittredge, assignors to Account, Audit & Assurance Company, New York, N. Y. Book-section having wide and narrow leaves.....	702,012	June 10	1307	299	99	2394
Kittredge, Anson O. and E. R. Tenafly, N. J.; said Anson O. Kittredge assignor to Account, Audit & Assurance Company, Limited, New York, N. Y. Means for extending and thickening leaf-sheets.....	714,713	Dec. 2	120	25	101	1862
Kittredge, Ernest R. (See Kittredge, Anson O. and E. R.)						
Kittredge, Rufus J., Chicago, Ill. Punch for mortising printers' plates.....	712,547	Nov. 4	170	40, 41	101	933
Kitts, Charles A., deceased; H. W. Kitts, administratrix, assignor to Steam Carriage Coiler Company, Oswego, N. Y. Steam-generator.....	698,408	Apr. 22	3752	828	99	843
Kitts, Charles A., deceased; H. W. Kitts, administratrix, assignor to Steam Carriage Coiler Company, Oswego, N. Y. Steam-generator.....	705,593	July 22	4277	925	100	914
Kitts, Harriet W., administratrix. (See Kitts, Charles A.)						
Kitts Semi-Flash Boiler Company. (See Kitts, Willard A., Sr., and Willard A., Jr., assignors.)						
Kitts, Willard A., Sr., and Willard A., Jr., assignors to Kitts Semi-Flash Boiler Company, Oswego, N. Y. Steam-generator.....	707,981	Aug. 26	3764	844	100	1938
Kitzler, Rudolph A. (See Symank and Kitzler.)						
Kizer, John T., Senatobia, Miss. Stalk-cutter.....	715,586	Dec. 9	1782	395	101	2217
Kizer, William R., Decatur, Ill. Marble-shooter.....	716,433	Dec. 23	3460	757	101	2606
Kjellman, Rudolf H., and G. L. Andersson, assignors to Aktiebolaget Automatgevar, Stockholm, Sweden. Automatic firearm.....	690,739	Jan. 7	732	161 162	98	164
Kjerstenon, Carl O. (See Olsen, John M., assignor.)						
Kladivo, J. F. (See Kostiau, Frank, assignor.)						
Klaiber, George, Los Angeles, Cal. Bronzing-machine.....	695,157	Mar. 11	1578	350	98	2063
Klarquist, Swan M., Minneapolis, Minn. Acetylene-gas generator.....	716,536	Dec. 23	3731	813	101	2661
Klarson, John A., Pittsburg, Pa. Hair-crimper.....	709,989	Sept. 30	3878	874	100	2838
Klatt, Albert, assignor to F. Raymond, Collinsville, Cal. Excavating apparatus.....	716,246	Dec. 16	3113	681	101	2317
Klaueberg, Charles, Hartford, Conn., assignor to Meinecke & Company, New York, N. Y. Brush.....	705,534	July 22	4279	925	100	914
Klavinsky, Simon, Baltimore, Md. Overalls.....	693,276	Feb. 11	2003	435	98	1236
Klaws, Pauline A., Melbourne, Victoria, Australia. Appliance for assisting the hearing.....	698,713	Apr. 29	4409	972	99	999
Klay, Abraham B., assignor to A. E. Klay Company, Lima, Ohio. Brick-drying kiln.....	713,933	Nov. 18	2969	661	101	1542
Klay, Andrew, and T. G. Scheid, Bluffton, Ohio. Cream-separator.....	714,194	Nov. 25	3387	746	101	1649
Klay, Gideon, assignor to P. Diller, Bluffton, Ohio. Cream-separator.....	710,471	Oct. 7	128	30	101	28
Kleber, Oscar L., Pittsburg, Pa. Printing-telegraph.....	712,939	Nov. 4	893	209 210	101	1080
Kleber, Peter, Wiesbaden, Germany. Fastening device.....	707,785	Aug. 26	3474	783	100	1881
Klee, Frederick C., assignor to National Hotel Register Company, Dubuque, Iowa. Hotel-register.....	704,548	July 15	2228	482	100	481
Klees, Wilhelm, Magdeburg, Germany. Bicycle-lock.....	698,714	Apr. 29	4410	973	99	999
Klein, Adolf, New York, N. Y. Automatic reversing tapping attachment for lathes.....	693,655	Feb. 18	2733	603	98	1408
Klein, Benjamin H., Delaware, Ohio. Washing-machine.....	716,843	Dec. 23	4373	948	101	2807
Klein, Charles J., New York, N. Y., assignor to C-K Manufacturing Company, New York, N. Y., and Jersey City, N. J. Plug-receptacle.....	707,516	Aug. 19	2872	651	100	1743
Klein, Ernest, Wilkesboro, Pa. Axle.....	702,107	June 10	1483	334	99	2431
Klein, Eugene, and O. P. Workman, Grand Rapids, Mich. Antiseptic soap cake.....	711,403	Oct. 14	1928	419	101	416
Klein, Franz E., Dresden, Germany. Lighting-conductor.....	701,577	June 3	536	117	99	2319
Klein, Frederick, New York, N. Y. Non-refillable bottle.....	697,851	Apr. 15	2728	805	99	611
Klein, George J., Washington, D. C. Controller.....	698,841	Apr. 29	4687	1033	99	1033
Klein, John, Desloge, assignor of two-thirds to P. A. Fusz and C. D. McLure, St. Louis, Mo. Ore-classifier.....	696,739	Apr. 1	652	147	99	140
Klein, John S., Oil City, Pa. Converter.....	695,737	Mar. 18	2611	592	98	2292
Klein, John S., Oil City, Pa. Speed-regulator for explosive-engines.....	697,409	Apr. 8	1917	427	99	426
Klein, Joseph, assignor of one-half to W. Ferguson, Cass City, Mich. Cream-separator and churn.....	705,361	July 22	3923	849	100	843
Klein, Mathias J., Baltimore, Md. Explosive-engine.....	704,713	July 15	2494	540	100	537
Klein, Max, Denver, Colo. Horse-hopple.....	700,507	May 20	2741	627	99	1771
Klein, Moses, assignor to American Folding Box Company, Chicago, Ill. Safety-box.....	704,549	July 15	2230	483	100	482
Klein, Robert, Haynau, Germany. Device for cleaning hubs of cycle-wheels.....	712,809	Nov. 4	650	150	101	1031
Klein, Rudolph, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Photograph-shutter.....	695,564	Mar. 18	2311	523	98	2232
Klein, William M. (See Williams, William C., assignor.)						
Kleiner, Ulrich, Brookline, Mass. Artificial ear-drum.....	702,800	June 17	2777	638	99	2717
Kleinewefers, Johannes, assignor to J. Kleinewefers Söhne, Crefeld, Germany. Calendar-roller.....	700,338	May 20	2411	550	99	1703
Kleinewefers Söhne, Joh. (See Kleinewefers, Johannes, assignor.)						
Kleinewefers Söhne, Joh. (See Kleinewefers, Wilhelm, assignor.)						
Kleinewefers, Wilhelm, Crefeld, assignor to Firm of J. Kleinewefers Söhne, Crefeld, Prussia, Germany. Mercerizing.....	698,026	Apr. 22	3051	671	99	697
Kleinfeld, Arthur, New York, N. Y. Siphon for dispensing liquids.....	706,423	Aug. 5	849	186	100	1235
Kleinhaus, Titus, Karlsruhe, Germany, assignor to A. G. Oltry, Brooklyn, N. Y. Door for bakers' ovens.....	717,217	Dec. 30	5124	1111	101	2984



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Kleinknecht, Charles. (See Schmidt, Charles F., assignor.)						
Kleinknecht, Charles, Philadelphia, Pa. Bake-oven	714,491	Nov. 25	3924	869	101	1755
Kleinschmidt, Anthony F., Indianapolis, Ind. Gong	692,149	Jan. 28	3356	760	98	746
Kleinschmidt, Carl, assignor to E. M. Kleinschmidt, Seattle, Wash. Wood-preserving compound	697,692	Apr. 15	2332	520	99	526
Kleinschmidt, Edward E., New York, assignor to F. Dassori, Brooklyn, N. Y. Apparatus for twisting macaroni	698,119	Apr. 22	3255	712 713 714 715	99	738
Kleinschmidt, Edward E., assignor to F. Kleinschmidt, New York, N. Y. Facsimile-telegraph	709,158	Sept. 16	2195	503 504 505	100	2463
Kleinschmidt, Emma M. (See Kleinschmidt, Carl, assignor.)						
Kleinschmidt, Frederick. (See Kleinschmidt, Edward E., assignor.)						
Kleist, Eugene de, North Tonawanda, N. Y. Automatic musical instrument	700,781	May 27	3279	753	99	1903
Kleist, Eugene de, North Tonawanda, N. Y. Tune-controlling device for musical instruments	713,653	Nov. 18	2312	516	101	1402
Kleist, Eugene de, North Tonawanda, N. Y. Automatic musical instrument	715,484	Dec. 9	1582	343	101	2177
Klemm, Adam. (See Lietheneuer and Klemm.)						
Klemm, Hermann A., New York, N. Y. Work-gage for sewing-machines	692,150	Jan. 28	3358	760	98	746
Klemm, Hermann A., New York, N. Y. Feed mechanism for sewing-machines	693,656	Feb. 18	2735	693	98	1408
Klemm, Hermann A., New York, N. Y. Adjustable trimming attachment for sewing-machines	693,657	Feb. 18	2736	694	98	1408
Klemm, Hermann A., New York, N. Y. Presser-foot-locking mechanism for sewing-machines	706,068	Aug. 5	129	26	100	1143
Klemm, Hermann A., New York, N. Y. Presser-foot lifting and locking mechanism for sewing-machines	715,699	Dec. 9	1924	430	101	2246
Klemm, Hermann A., New York, N. Y., assignor to S. Hessel, Sheldon, Conn., and A. Hessel, New York, N. Y. Double-zigzag sewing-machine	710,696	Oct. 7	567	118 119	101	117
Klepeter, Wilhelm, Pilsen, Austria-Hungary. Slot-machine	701,358	June 3	140	29	99	2137
Klepeter, Frank. (See Evans and Klepeter.)						
Klepeter, Frank, and W. J. Evans, Greatfalls, Mont. Roasting-furnace	700,339	May 20	2411	1550 1551	99	1703
Klerx, Johann H., assignor to Susquehanna Silk Mills, Sunbury, Pa. Mechanism for controlling looms by the quantity of weft in the shuttles	709,910	Sept. 30	3716	838	100	2804
Klerx, Johann H., assignor to Susquehanna Silk Mills, Sunbury, Pa. Mechanism for controlling looms by the quantity of weft in the shuttles	709,911	Sept. 30	3719	838 839	100	2805
Klerx, Johann H., assignor to Susquehanna Silk Mills, Sunbury, Pa. Mechanism for controlling looms by the quantity of weft in the shuttles	715,391	Dec. 9	1406	303	101	2142
Klic, Karl, Vienna, Austria-Hungary, and O. Poppe, Rixdorf, near Berlin, Germany. Manufacture of inland linoleum	692,677	Feb. 4	818		98	967
Klick, Victor S., Columbus, Ohio. Railway cattle-guard	694,972	Mar. 11	1230	268	98	1900
Kliegl, Anton T. (See Kliegl, John H. and A. T.)						
Kliegl, John H. and A. T., New York, N. Y. Electromedical appliance	708,365	Sept. 2	664	149 150	100	2115
Klier, Joseph G. (See Schreiber and Klier.)						
Klinck, John H. (See Franklin, William S., assignor.)						
Klindworth, Otto S., assignor to one-half to G. Rustin, St. Louis, Mo. Breeding-pen for sows	700,949	May 27	3582	824	99	1963
Kline, Charles R., Beechwood, and J. Keller, Philadelphia, Pa. Pneumatic motor	692,392	Jan. 28	3449	780	98	766
Kline, Charles R., Beechwood, and J. Keller, Philadelphia, Pa.; said Keller assignor, by mesne assignments, to said Kline. Pneumatic Barker	692,184	Jan. 28	3415	773	98	758
Kline, Charles R., Beechwood, and J. Keller, Philadelphia, Pa.; said Keller assignor, by mesne assignments, to said Kline. Reversing-valve	692,185	Jan. 28	3418	774	98	758
Kline, Edward A., New York, N. Y. Cigar	711,250	Oct. 14	1650	355	101	358
Kline, Everett A. (See Baldwin and Kline.)						
Kline, Theodore D., Savannah, Ga. Exhaust mechanism	701,204	May 27	4048	99	99	2662
Kling, Aloys W., Dayton, Ohio. Lithographing or printing-press roller	710,327	Sept. 30	4605	1015	100	2922
Kling, Isaac, Louisville, Ky. Compound or multiple cylinder engine	700,508	May 20	2743	1627 1628	99	1771
Kling, Peter M. (See Mackie, William J., assignor.)						
Kling, Peter M., Elizabeth, N. J. Car-truck	699,610	Feb. 18	2654	1587 1588	98	1390
Kling, Peter M., assignor to John Stephenson Company, Elizabeth, N. J. Car	699,611	Feb. 18	2655	586	98	1391
Klingemann, Felix. (See Weinberg and Klingemann.)						
Klingensmith, Hiram E., Parnassus, assignor to one-half to S. R. Seybold, New Kensington, Pa. Tubular auger	716,557	Dec. 23	3733	813	101	2662
Klinger, Alexander, Silverton, Colo. Torpedo and means for propelling same	704,050	July 8	1255	271	100	264
Klinger, Cyrus H., and J. J. Reynolds, assignors to S. Prince, Philadelphia, Pa. Machine for pressing hats	694,756	Mar. 4	803	1178 1179	98	1881
Klinger, Peter, Mansfield, assignor to one-half to W. G. Webb, Farmer City, Ill. Cartridge and shell loader	711,870	Oct. 21	2840	1028 1029	101	624
Klinger, Richard, Gumpoldskirchen, near Vienna, Austria-Hungary. Acetylene-gas generator	712,940	Nov. 4	901	210	101	1081
Klingler, Mathias, Oberndorf, Germany. Door check and closer	701,054	May 27	3786	866	99	2006
Klink, George B. and J. C. Tacoma, Wash. Mail-bag catcher	706,323	Aug. 5	645	141	100	1245
Klink, John C. (See Klink, George B. and J. C.)						
Klinker, Timke H., Jr., and B. Gabrielsky, Jersey City, N. J. Electric battery	710,278	Sept. 30	4421	997	100	2535
Klipfel, Thomas, assignor to Union Wire Mattress Company, Chicago, Ill. Support for elastic bed-bottoms	716,054	Dec. 16	2715	599	101	2436
Klipfel, Thomas, assignor to Union Wire Mattress Company, Chicago, Ill. Support for bed-bottoms	716,055	Dec. 16	2717	599 600	101	2436
Klitsche, Amandus, Chicago, Ill., assignor to Eugene Dietzgen Company. Attachment for drafting-board and T-squares	694,389	Mar. 4	104	24	98	1735
Klocke, William, Brooklyn, assignor to E. W. Bliss Company, New York, N. Y. Clutch for power-presses	710,109	Sept. 30	4282	964	100	2925
Klobb, Joseph A., Piqua, Ohio. Heating apparatus	705,094	July 22	3313	720	100	720
Klogel, Karl S., New York, N. Y. Lock-stitch sewing-machine	708,771	Sept. 9	1401	321	100	2379
Klotz, Carl F. A., Indianapolis, Ind. Air-shut	701,359	June 3	141	29, 30	99	2138
Klotz, Frederick C., Louisville, Ky. Shipping vessel for ice-cream	697,406	Apr. 15	2081	461	99	476
Klug, Sophie. (See Knapp, Frank A., assignor.)						
Klump, August, Munich, Germany. Crate	716,247	Dec. 16	3114	681	101	2518
Klunk, Henry V., et al. (See Funk, John W., assignor.)						
Knapp, Charles H., Paterson, N. J. Machine for folding cloth blanks	699,192	May 6	114	30	99	1199
Knapp, Charles H., Paterson, N. J. Machine for folding collar-blanks, &c	713,112	Nov. 11	1327	280	101	1166
Knapp, Charles H., Halfmoon Bay, Cal. Bean cutter and puller	712,458	Oct. 28	3954	865	101	867
Knapp, Edgar J., Chicago, Ill. Storage battery	716,056	Dec. 16	2720	600	101	2437

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Knapp, Edwin C., Syracuse, N. Y. Polarized magnet.....	698,027	Apr. 22	3052	671	99	697
Knapp, Frank A., New York, N. Y., assignor to S. Klug, Hoboken, N. J. Vending-machine.....	711,634	Oct. 21	2375	521	101	524
Knapp, Fred H., Chicago, Ill. Shade adjustment.....	707,240	Aug. 19	2303	530	100	1036
Knapp, Fred H., Chicago, Ill. Cord-holding device.....	707,241	Aug. 19	2304	530	100	1037
Knapp, Fred H., and C. W. Blackstone, Chicago, Ill. Can labeling and wrapping machine.....	698,520	Apr. 29	3060	877	99	901
Knapp, Frederick A., Prescott, Canada. Marine vessel.....	713,454	Nov. 11	1903	431	101	1304
Knapp, George, Defiance, Ohio. Calipers.....	695,565	Mar. 18	2317	524	98	2324
Knapp, George W., Baltimore, Md., assignor to National Enameling & Stamping Co. Machine for bulging sheet-metal vessels.....	698,404	Apr. 22	3754	828	99	848
Knapp, Gilman C., Eureka, Cal. Sawing-machine.....	697,497	Apr. 15	2083	461	99	476
Knapp, Henry F., Gloucester, Mass. Dish-cloth holder.....	712,810	Nov. 4	651	150	101	1031
Knapp, Herbert J., et al. (See Hornung, Charles W., assignor.)						
Knapp, Paul S., and J. Steinberg, McKeesport, Pa. Vault-cover.....	705,679	July 29	4575	994	100	986
Knapp, Sherwood R., et al. (See Hornung, Charles W., assignor.)						
Knapp, Theron L., Woodstock, assignor to Oliver Typewriter Company, Chicago, Ill. Type-writing machine.....	693,033	Feb. 11	1492	336	98	1133
Knapp, Wellington E., Grand Rapids, Mich. Folding ironing-table.....	700,054	May 13	1787	413	99	1556
Knappe, Paul A., Grantville, Ga., assignor, by mesne assignments, to American Amalgamating Company. Amalgamator.....	705,095	July 22	3315	720	100	720
Knappe, Paul A., Grantville, Ga., assignor, by mesne assignments, to American Amalgamating Company. Amalgamating metals.....	705,096	July 22	3318	720	100	721
Knappe, Paul A., Grantville, Ga., assignor, by mesne assignments, to American Amalgamating Company. Amalgamating metals.....	707,971	Aug. 20	3834	862	100	1051
Knappe, Paul A., Grantville, Ga., assignor, by mesne assignments, to American Amalgamating Company. Amalgamator.....	707,972	Aug. 26	3837	862	100	1052
Knauber, Albert P., and H. Ostwald, Milwaukee, Wis. Roller.....	700,509	May 20	2745	628	99	1772
Knauer, John H., et al. (See Burch, Charles J., assignor.)						
Knaus, James M., Sedalia, Mo. Metallic hood for vestibules of cars.....	706,424	Aug. 5	851	186	100	1285
Knecht, Edmund, Manchester, England. Reserve and discharge on textile fabrics.....	702,566	June 17	2335	187	99	2626
Knee, Allison W., assignor of one-third to F. J. Manz, Syracuse, N. Y. Railway signaling system.....	704,347	July 8	3838	398	100	386
Kneedler, John D., Sioux City, Iowa. Station-indicator.....	712,143	Oct. 28	3389	743	101	749
Kneedler, John D., assignor of one-half to B. Couch, Sioux City, Iowa. Coin-controlled device.....	705,362	July 23	3924	850	100	843
Knehaas, Wilhelm, and F. Püschel, assignors to Bielefelder Maschinenfabrik, vormals Dürkopp & Co., Bielefeld, Germany. Cash-box.....	692,151	Jan. 28	3359	761	98	746
Knehaas, Wilhelm, and F. Püschel, assignors to Bielefelder Maschinenfabrik vormals Dürkopp & Co., Bielefeld, Germany. Cash-register.....	698,967	Apr. 29	4808	1088	99	1106
Kneip, Frederic R., Boston, Mass. Apparatus for cutting and polishing precious stones.....	698,521	Apr. 29	3064	877	99	902
Kneisly, Daniel W., assignor of two-thirds to G. H. and F. J. Kramer, Dayton, Ohio. Labeling-machine.....	716,434	Dec. 23	3470	757	101	2606
Knell, Andrew, Jr., Baltimore, Md. Water-closet flushing tank or cistern.....	703,136	June 24	3430	787	99	2867
Knibb, Francis C. G., London, and T. R. Towler, Woodford, England. Book-cover.....	701,055	May 27	3788	867	99	2007
Knickerbocker, Burton D., Chicago, Ill. Folding bath-cabinet.....	706,069	Aug. 5	130	27	100	1143
Knieriem, Henry. (See Zimmerly, Lancing T., assignor.)						
Knietsch, Rudolf, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen, Germany. Apparatus for making sulfuric anhydride.....	692,018	Jan. 28	3116	701	98	697
Knietsch, Rudolf, and M. Scharrf, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Making sulfuric chloride.....	716,248	Dec. 16	3115	702	101	2518
Knight, Arthur F. (See Erben and Knight.)						
Knight, Arthur F., assignor of one-eighth to A. F. Macdonald, Schenectady, N. Y. Game.....	711,979	Oct. 28	3078	675	101	689
Knight, B. A. (See Sperry, Charles F., assignor.)						
Knight, Byron W., assignor to Knight & Cobb, McFall, Mo. Pinless clothes-line.....	692,308	Feb. 4	158	37	98	831
Knight & Cobb. (See Knight, Byron W., assignor.)						
Knight, Edward M., Brooklyn, N. Y. Filter.....	690,524	Jan. 7	307	61	98	67
Knight, Ellsworth L., Elkhorn, W. Va. Tube-expander.....	700,510	May 20	2746	628	99	1772
Knight, Frank E., Grinnell, Iowa. Transformable trunk.....	693,973	Feb. 25	3348	736	98	1550
Knight, Harry H., Kings Heath, assignor to Hudson Brothers, Limited, Kings Norton, near Birmingham, England. Draw-bench.....	710,915	Oct. 7	973	214	101	198
Knight, Jay F., Onondaga Valley, N. Y. Tool for surfacing razor-strops.....	712,811	Nov. 4	652	151	101	1031
Knight, John, Canyon, Tex. Loco-extermiator.....	698,715	Apr. 29	4140	973	99	999
Knight, John H., Barfield, near Farnham, England. Machine for laying bricks for building purposes.....	704,647	July 15	2383	516	100	513
Knight, John H., Barfield, near Farnham, England. Machine for laying bricks for building purposes.....	704,648	July 15	2384	516	100	514
Knight, John H., Barfield, near Farnham, England. Machine for laying bricks for building purposes.....	712,075	Oct. 28	3261	715	101	724
Knight, Margaret E., South Framingham, Mass. Compound rotary engine.....	716,903	Dec. 30	4493	974	101	2848
Knight, Walter A., Madisonville, Ohio. Warehouse-truck.....	702,969	June 24	3115	717	99	2805
Knight, Walter H., assignor to Pneumatic Carriage Co., New York, N. Y. Steam-truck.....	711,112	Oct. 14	1365	297	101	296
Knight, William E., Ostrander, Ohio. Mouth-mirror.....	693,441	Feb. 11	1720	376	98	1178
Knipe, Oliver C., Norristown, Pa. Axle-bearing.....	697,633	Apr. 15	2333	521	99	526
Knittel, David G. (See Bissell, Joseph E., assignor.)						
Knittle, George J., Wheeling, W. Va. Hanger for aerial cables.....	692,539	Feb. 4	558	131	98	912
Knöbel, Franz and W., Wiedenbrück, Germany. Dog-cart.....	703,427	July 1	110	24	100	25
Knöbel, Wilhelm. (See Knöbel, Franz and W.)						
Knoelock, William C. (See Brandenburg and Knoelock.)						
Knoche, Gottfried, New York, N. Y. Fireproof floor.....	692,309	Feb. 4	159	37, 38	98	831
Knoche, John, Cincinnati, Ohio. Washing-machine.....	703,428	July 1	111	25	100	25
Knoche, Louis H., San Jose, Cal. Bicycle-stand.....	703,280	June 24	3685	848	99	2917
Knochenhauer, Gustav, Schaala, near Rudolstadt, Germany. Forcing-frame or like sash or window.....	707,932	Aug. 26	3766	845	100	1989
Knollenberg, Hermann, et al. (See Scheele, Walter T., assignor.)						
Knop, Charles E., Detroit, Mich. Rope-climbing device.....	711,251	Oct. 14	1651	356	101	358
Knott, Henry, Birmingham, Ala. Manufacturing steel.....	712,389	Oct. 28	3816	981	101	839
Knott, Clarence B., New York, N. Y. Dish-washing machine.....	695,400	Mar. 11	2000	447	98	2150



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Knott, Jacob, Paterson, N. J. Dyer's truck.	716,640	Dec. 23	3899	852	101	2698
Knowles, Thomas C., Denver, Colo. Telephone-transmitter.	717,218	Dec. 30	5125	1111	101	2984
Knowlton, Dallas, Washington, D. C. Vending-machine.	703,137	June 24	3432	787	99	2867
Knowlton, Dallas, Washington, D. C. Vending-machine.	703,138	June 24	3435	788	99	2868
Knowlton, Dallas, Washington, D. C. Coin-controlled mechanism for vending-machines.	703,207	June 24	3567	820	99	2893
Knowlton, John D., Westbrook, assignor to Sanford Mills, Sanford, Me. Machine for cutting loops of pile fabric.	701,578	June 3	537	117	99	2219
Knowlton, Mark D., and F. H. Beach, Rochester, N. Y. Stay-strip.	716,249	Dec. 16	3115	681	101	2518
Knox Automobile Company. (See Knox and Jones, assignors.)						
Knox, Dudley W. (See Jessop, Earl P., assignor.)						
Knox, Frank J., Hartford, Conn. Water-gage attachment.	706,959	Aug. 12	1843	412	100	1509
Knox, Harry A., Springfield, Mass. Brake.	699,536	May 6	764	180	99	1332
Knox, Harry A., and J. H. Jones, assignors to Knox Automobile Company, Springfield, Mass. Running-gear for motor-vehicles.	697,945	Apr. 15	2897	638	99	645
Knox, Luther L., Pittsburg, Pa. Water-cooled reversing-valve.	708,718	Sept. 9	1303	297	100	2257
Knox, Luther L., Pittsburg, Pa. Furnace-door.	708,719	Sept. 9	1305	298	100	2258
Knox, Matthias F., Nashville, Tenn. Computing-poise for scales.	693,523	Feb. 18	2176	544	98	1355
Knox, Samuel L. G., New York, N. Y. Gas-pumping machine.	712,548	Nov. 4	174	41	101	933
Knox, Samuel L. G., Schenectady, N. Y., assignor to General Electric Company. Current-limiting device.	696,055	Mar. 25	3208	725	98	2429
Knox, Samuel L. G., Milwaukee, Wis., assignor to General Electric Company. Train-control system.	717,219	Dec. 30	5127	1111	101	2984
Knox, Samuel L. G., and W. O. Wakefield, Schenectady, N. Y. Blue-printing machine.	712,076	Oct. 28	3265	715	101	725
Knox, William J., Edgewood Park, assignor to G. Westinghouse, Pittsburg, Pa. Treating copper ores.	692,310	Feb. 4	160	38	98	831
Knox, William J., Edgewood Park, assignor to G. Westinghouse, Pittsburg, Pa. Forming the lining of converters or furnaces.	710,588	Oct. 7	371	78	101	75
Knox, William J., Edgewood Park, assignor to G. Westinghouse, Pittsburg, Pa. Converter.	710,589	Oct. 7	373	78	101	75
Knox, William J., Edgewood, assignor to G. Westinghouse, Pittsburg, Pa. Lining for converters or furnaces.	710,916	Oct. 7	975	215	101	198
Knox, William K., Newark, N. J. Hydraulic fireproof cement.	706,700	Aug. 12	1481	318	100	1436
Knudsen, Ivar P. B., Copenhagen, Denmark. Cream-separator.	712,390	Oct. 28	3818	833	101	840
Knudson, Adolphus A., and F. H. Clark, Brooklyn, N. Y. Stethoscopic instrument.	705,934	July 29	5029	1096	100	1077
Knuth, Alfred W., Galesburg, Ill., assignor of one-half to P. F. McDermitt, Canton, Ohio. Trolley-retriever.	711,428	Oct. 14	1971	428	101	425
Knüttel, Friedrich, Charlottenburg, near Berlin, Germany. Malt-drum.	691,471	Jan. 21	2096	469	98	471
Koch, Arthur A., Montezuma, Iowa. Boring and tenoning machine.	710,871	Oct. 7	899	195	101	182
Koch, Charles J., Austin, Tex. Fire-clay charcoal-furnace.	715,392	Dec. 9	1469	304	101	2143
Koch, Gustave, assignor to H. C. Blye, New York, N. Y. Stopper for bottles, &c.	696,571	Apr. 1	318	74	99	71
Koch, Henry, assignor to Regina Music Box Company, Rahway, N. J. Fan-governor.	700,311	May 20	2747	629	99	1672
Koch, Jens P., Hamburg, Germany. Wind instrument.	691,783	Jan. 28	2699	607	98	615
Koch, Jerry H., Alpha, W. Va. Tool.	706,184	Aug. 5	355	76	100	1188
Koch, John H., Scranton, Pa. Valve.	707,337	Aug. 19	2557	577	100	1676
Koch, Joseph, Chicago, Ill. Mattress-support for bedsteads.	710,697	Oct. 7	569	119	101	117
Koch, Millard F., New York, N. Y. Plating-machine.	707,993	Aug. 26	3767	845	100	1939
Koch, William J. E., assignor of one-half to L. L. Lane, Minneapolis, Minn. Minnow-pail.	713,890	Nov. 18	2765	614	101	1500
Kochendörfer, Heinrich, Leipsic, Germany. Type-writer.	711,727	Oct. 21	2561	562	101	564
Kochs, Albert, St. Louis, Mo. Paper-box machine.	701,360	June 3	144	31	99	2138
Kodama, Nobuyoshi H., Philadelphia, Pa. Adding or subtracting rule.	711,252	Oct. 14	1652	356	101	858
Koegel, Julius, Newark, N. J. Burial-casket.	706,960	Aug. 12	1844	413	100	1510
Koegle, John G., Columbus, Ohio. Gas-burner.	706,761	Aug. 12	1482	328	100	1436
Koehler, Fred L., Chicago, Ill., assignor of one-half to T. J. Dunne, Marion, S. D. Plaiting apparatus for sewing-machines.	696,101	Mar. 25	3309	745	98	2452
Koehler, Fred L., Chicago, Ill., assignor of one-third to T. J. Dunne, Marion, S. D. Spring-bearing for bicycles or other vehicles.	696,102	Mar. 25	3316	747	98	2453
Koehler, Henry W., Detroit, Mich. Running-gear for vehicles.	698,522	Apr. 29	3971	877	99	903
Koehler, Julius H., St. Louis, Mo. Bottle-illuminating machine.	715,393	Dec. 9	1410	304	101	2143
Koelkebeck, Carl W. A., Pittsburg, Pa. Hot-blast stove.	692,678	Feb. 4	819	184	98	967
Koelkebeck, Carl W. A., Pittsburg, Pa. Separator.	714,381	Nov. 25	3734	823	101	1719
Koeller & Co., Firm of. (See Halbekann, Franz J., assignor.)						
Koeller, William F., and H. Dyer, Detroit, Mich. Lathe-tool.	693,974	Feb. 25	3349	736	98	1550
Koelling, Henry. (See Kölling and Koelling.)						
Koelling, Hermann. (See Kölling and Koelling.)						
Koelmel, Joseph F., Crookston, Minn. Compound tool.	703,598	July 1	391	91	100	78
Koenen, John G., New York, N. Y. Eyeglass or spectacle case.	715,272	Dec. 9	1187	252	101	2097
Koenig, Christian J., Alton, Ill. Glass-blowing machine.	703,599	July 1	392	92	100	78
Koepfen, William F., Marion, Ind. Mold opening or closing device.	708,814	Sept. 9	1507	345	100	2301
Koesser, Carl D., assignor to Buckstaff Edwards Co., Oshkosh, Wis. Burial-case.	708,934	July 1	1029	223	100	205
Köester, Louis F., Jr., Charleston, S. C. Attachment for lamps.	701,036	May 27	3789	867	99	2007
Koetschet, Joseph, St. Fons, assignor to Société Chimique des Usines du Rhône, anciennement Gilliard, P. Monnet et Cartier, Lyons, France. Substituted sulfid and making same.	692,863	Feb. 11	1148	98	1009	
Koetschet, Joseph, St. Fons, near Lyons, assignor to Société Chimique des Usines du Rhône, anciennement Gilliard, P. Monnet et Cartier, Lyons, France. Ortho-sulfonated toluylid aldehyde and making same.	709,159	Sept. 16	2220	100	2467	
Koetschet, Joseph, St. Fons, near Lyons, assignor to Société Chimique des Usines du Rhône, anciennement Gilliard, P. Monnet et Cartier, Lyons, France. Green dye and making same.	709,160	Sept. 16	2221	100	2467	
Kotler, Friedrich W., assignor to Baiersdorf & Biach, Vienna, Austria-Hungary. Machine for upsetting tubes with annular corrugations for rendering them flexible.	700,662	May 20	2996	687	99	1826
Kohart, Frank C. (See Meyer, Svend M., assignor.)						
Kohl, Max. (See Suchozynski and Kohl.)						
Kohl, William F. (See Hendricks and Kohl.)						
Köhler, August, Hamburg, Germany. Apparatus for spraying and burning liquid fuel.	709,579	Sept. 23	3078	684	100	2660

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Kohler, Emil. (See Wentzel, Otto, assignor.)						
Kohler, George A., et al. (See Dela Mar, Joseph, assignor.)						
Kohler, Isaac, et al. (See Dela Mar, Joseph, assignor.)						
Kohlhaas, Reynold, Philadelphia, Pa. Ribbon-loom.	699,878	May 13	1468	337 338 339	99	1403
Kohlhaas, Reynold, Philadelphia, Pa. Ribbon-loom.	699,879	May 13	1472	338 339	99	1403
Kohlhepp, John W., and A. J. Francis, Chicago, Ill. Machine for lacerating or slitting entrails.	698,523	Apr. 29	3972	878	99	904
Kuhn, Franz, Plön, Germany. Side coupling for railway-cars.	700,782	May 27	3282	753	99	1903
Kohn, Koby, Lincoln, Nebr. Rail-joint.	706,241	Aug. 5	460	98	100	1210
Kohn, Koby, Lincoln, Nebr. Rail-joint.	714,919	Dec. 2	566	120	101	1949
Kohn, Morris, New York, N. Y. Preservative box.	715,273	Dec. 9	1188	253	101	2097
Kohnke, Quitman. (See Mims, John C., assignor.)						
Koken, Ernest E., St. Louis, Mo. Copying-press.	705,097	July 22	3322	720 721	100	722
Koken, Ernest E., St. Louis, Mo. Gasolene-engine.	717,417	Dec. 30	5475	1187 1188	101	3036
Kokernot, Alexander B., New Orleans, La. Refrigerator attachment.	696,645	Apr. 1	453	106	99	98
Kokernot, Alexander B., New Orleans, La. Refrigerator.	696,646	Apr. 1	456	106	99	98
Kokomo Rubber Company. (See Neary, John, assignor.)						
Kolars, Charles C. (See Ward, Willis J., assignor.)						
Kolb, Henry M., and C. Foehl, Philadelphia, Pa. Revolver.	702,735	June 17	2652	611	99	2691
Kolb, Peter, Fort Deposit, Ala. Machine for handling lint-cotton.	691,865	Jan. 28	2844	640	98	644
Kolbeck, Jacob. (See Jeisi, Adolf, assignor.)						
Kolde, H. C. (See Wood, John M., assignor.)						
Kolf, Max, assignor to E. J. Dienst and J. A. Badendieck, St. Louis, Mo. Window-screen.	706,762	Aug. 12	1484	329	100	1436
Koller, Elizabeth, Bloomville, Ohio. Pin-holder.	698,295	Apr. 22	3576	788	99	806
Kölling, John, H. and H. Koelling, Arlington Heights, Ill. Corn-husking and stalk-cutting machine.	717,220	Dec. 30	5131	1112	101	2985
Kollock, George L. and S. W. M., Seattle, Wash. Jack-screw.	691,061	Jan. 14	1315	297	98	280
Kollock, Samuel W. M. (See Kollock, George L. and S. W. M.)						
Kollrepp, Alexander. (See Wohl and Kollrepp.)						
Kolp, Abram M., Salunga, Pa. Straw-stacker.	712,311	Oct. 28	3671	802 682	101	807
Kolsbun, Helmer O., Etter, Minn. Shock-loader.	716,250	Dec. 16	3117	683	101	2518
Kolshorn, Charles, Savannah, Ga. Educational appliance.	692,019	Jan. 28	3121	798	98	698
Koltanski, Stanislaus A., Boston, Mass. Electric-lamp socket.	692,458	Feb. 4	413	98	98	883
Köneman, William A., assignor to International Fuel Company, Chicago, Ill. Artificial-fuel briquet.	711,166	Oct. 14	1478		101	323
Köneman, William A., assignor to International Fuel Company, Chicago, Ill. Artificial-fuel.	711,167	Oct. 14	1480		101	323
Köneman, William A., London, England, assignor of one-half to A. F. Hatch, Chicago, Ill. Ore-furnace.	712,812	Nov. 4	653	151 152	101	1031
Konetsky, John R., assignor of one-half to W. A. Schrock, San Francisco, Cal. Connecting-joint for bedsteads.	702,102	June 10	1484	334	99	2431
Köng, Albert, assignor to Firm C. Zeiss, Jena, Germany. Prismatic sighting-telescope.	708,720	Sept. 9	1306	398	100	2258
König, Max, Grosslichterfelde, Germany. Apparatus for drying grain, &c.	705,849	July 29	4879	1060 1061	100	1048
Konigsberg, Joseph, New York, N. Y. Fishing-reel.	715,274	Dec. 9	1189	253	101	2097
Konold, Albert, et al. (See Krieger, Hieronymus G., assignor.)						
Koon, Arthur W., Onarga, Ill. Combined grain dump and elevator.	715,818	Dec. 16	2236	498 499	101	2331
Koonce, Samuel C., et al. (See Lindsay, Robert F., assignor.)						
Koons, Amos H., Martinsville, Ind. Valve for reversible steam-engines.	702,860	June 17	2887	668	99	2741
Koons, Frank, Mooreland, Ind. Steering apparatus for traction-engines.	695,401	Mar. 11	2003	449	98	2150
Koons, Henry. (See Sorg, Oscar E., assignor.)						
Koons, John H., Waynesboro, Pa. Lifting-jack.	695,316	Mar. 11	1867	415	98	2120
Koons, John H., assignor of one-half to H. Schwartz, Lehigh, Pa. Folding stretcher or cot.	709,332	Sept. 16	2546	573	100	2537
Koons, Sanford. (See Moritz, Frymire, and Koons.)						
Koontz, Pierce W., Kirkville, Ind. Stirrup.	715,485	Dec. 9	1584	343	101	2177
Koopman, Elias B., London, England. Apparatus for exhibiting or viewing animated pictures.	713,312	Nov. 11	1661	373	101	1253
Kopier Telegraph Gesellschaft mit Beschränkter Haftung. (See Gruhn, Ernst K., assignor.)						
Kopp, Godfrey, New Orleans, La. Picture-hanger.	696,981	Apr. 8	1132	256	99	264
Kopp, William, Louisville, Ky. Joint for pilasters, pillars, posts, &c.	706,070	Aug. 5	463	97	100	111
Koppenhagen, Benno, Unterauerbach, Germany. Device for facilitating taking pills.	697,209	Apr. 8	1548	246	99	348
Koppers, Heinrich, Carnap, near Essen, Germany. Wall construction for coke-ovens, &c.	714,195	Nov. 25	3388	716	101	1650
Kopperud, Anders H., Byron, Cal. Cultivator.	708,150	Sept. 2	280	67	100	2039
Kops Brothers. (See Kops, Samuel, assignor.)						
Kops, Daniel, New York, N. Y. Corset.	694,160	Feb. 25	3711	819	98	1623
Kops, Daniel, New York, N. Y. Corset.	694,161	Feb. 25	3713	820	98	1624
Kops, Daniel, New York, N. Y. Corset.	712,312	Oct. 28	3673	802	101	894
Kops, Samuel, assignor to Kops Brothers, New York, N. Y. Corset-shaping machine.	690,740	Jan. 7	734	162	98	154
Kops, Samuel, assignor to Kops Brothers, New York, N. Y. Machine for feeding, printing, and cutting strips of material.	709,271	Sept. 16	2436	551	100	2513
Korb, Frederick W., Cleveland, Ohio. Dental plugger.	712,313	Nov. 4	657	152	101	1032
Korejs, Vaclav, and J. Khebl, Alt-Buntzlau, Austria-Hungary. Seeding-machine.	693,722	Feb. 18	2856	629 630	98	1432
Korinek, Joseph, Chicago, Ill. Holding-tool for air-brake pistons.	696,453	Apr. 1	100	25	99	28
Korn, George W., Little Valley, N. Y. Razor.	693,524	Feb. 18	2480	544	98	1356
Korsmeyer, Ernest H., Kansas City, Mo., assignor to Kansas City Hay Press Company. Governing and valve-operating mechanism for gas or vapor engines.	708,485	Sept. 2	872	198 199	100	2158
Kort, Ferdinand W. (See Gerfin, Frederick C., assignor.)						
Korte, Herman, Freeport, Minn. Bob-sleigh.	695,317	Mar. 11	1869	418	98	2121
Korth, John C. and A. Ganzenmuller, New York, N. Y. Exercising-machine.	704,840	July 15	2749	585 586 587	100	588
Korth, Martin, Cologne, Germany. Machine for making rolls, cakes, or the like.	690,741	Jan. 7	736	163	98	155
Koscherak, Ignatz, New York, N. Y. Bottle-stopper.	709,161	Sept. 16	2223	505	100	2467
Koscherak, Ignatz, New York, N. Y. Bottle-stopper.	709,162	Sept. 16	2224	505	100	2467
Koshalko, Charles, Johnstown, Pa. Automatic gas-valve.	691,784	Jan. 28	2702	607	98	615
Kosinski, Wladyslaw T., Brooklyn, N. Y. Non-refillable and lock-seal bottle.	698,716	Apr. 29	4412	973	99	999
Kossow, Henry C., Milwaukee, Wis. Metallic seal.	701,579	June 3	541	118	99	2220



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Kost, Victor, assignor to O. A. Hill, Chicago, Ill. Advertising article.....	717,418	Dec. 30	5479	1188	101	3057
Kostálek, Josef, Prague-Vinohrady, assignor to Society Maschinenbau-Aktiengesellschaft vormals Breitfeld, Danek & Co., Akciová Společnost Strojirny Drive Breitfeld, Danek & Spol. Karlin, Bohemia, Austria-Hungary. Filter.....	709,712	Sept. 23	3300	741	100	2706
Kostálek, Josef, Vinohrady, Prague, assignor to Society Maschinenbau Aktien Gesellschaft, vormals Breitfeld, Danek & Co., Akciová Společnost Strojirny Drive Breitfeld, Danek & Spol. Karlin, Bohemia, Austria-Hungary. Filter.....	715,275	Dec. 9	1191	253 254	101	2098
Kosters, Clements B., Buffalo, N. Y. Last.....	696,246	Mar. 25	3603	806	98	2510
Kostlan, Frank, Traer, Iowa. Emergency safety-plug.....	708,562	Sept. 9	1005	227	100	2196
Kotslau, Frank, assignor of one-half to J. F. Klavido, Traer, Iowa. Corn-planter.....	695,612	Mar. 18	2404	544 545	98	2251
Kotick, Frank, Litterlock, Wash. Can-opener.....	697,634	Apr. 15	2334	521	99	526
Kotten, Herman G., New York, N. Y. Pneumatic-surfacer frame.....	701,880	June 8	542	118	99	2220
Köttgen, Carl, Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Elevator apparatus.....	691,276	Jan. 11	1689	384	98	367
Kouns, Moses W., Washington Court-House, Ohio. Automobile-crane.....	715,670	Dec. 9	1925	431 432	101	2246
Kovacs, Georg, Trenton, N. J. Snow-melter for railway-switches.....	690,742	Jan. 7	738	163	98	155
Kowanko, Alexandre, de. (See Bourhanovsky and Kowanko.).....						
Koze, Frank, Lorain, Ohio. Hydraulic motor.....	696,386	May 6	515	118 119	99	1281
Kraeker, Julius and M., New York, N. Y. Ash-receptacle.....	707,349	Aug. 26	3615	815	100	1908
Kraeker, Max. (See Kraeker, Julius and M.).....						
Kraeger, Alfred E., San Francisco, Cal. Attachment for gas-cocks.....	711,113	Oct. 14	1366	297	101	207
Kraemer, H. (See Grothe, August, assignor.).....						
Kraemer, Herman and G. Hesse; said Kraemer assignor to W. Schmidt, Collegepoint, N. Y. Tapping device.....	713,113	Nov. 11	1231	281	101	1167
Kraemer, William, Chicago, Ill. Stamping-machine.....	692,590	Feb. 4	559	131 132	98	912
Kraft, Robert, Karlsruhe, Germany. Turf-matrix pulp for stereotyping.....	698,028	Apr. 22	3055		99	698
Kraft Combination Telephone Company. (See Laing, Thaddens R., assignor.).....						
Kraft, Edward, Malaga, Pa. Window.....	703,600	July 1	396	93	100	79
Krag, Erik L. (See Krag, Frantz K., assignor.).....						
Krag, Erik L. (See Schult, Lars G., assignor.).....						
Krag, Erik L. (See Sedgwick, Frederick, assignor.).....						
Krag, Erik L., Chicago, Ill. Temporary binder.....	712,077	Oct. 28	3268	716	101	725
Krag, Frantz K., assignor to E. L. Krag, Chicago, Ill. File for bills, &c.....	698,968	Apr. 29	4902	1083	99	1170
Krag, Frantz K., Chicago, Ill., assignor to E. L. Krag, New York, N. Y. Lock for loose-leaf binders.....	698,969	Apr. 29	4903	1083	99	1107
Krahn, Louis, San Francisco, Cal. Convertible bed and sofa or chair.....	709,333	Sept. 16	2548	131 132	100	2537
Kragh, Christian W., assignor to Northern Electrical Manufacturing Company, Madison, Wis. Regulating device for dynamo-electric machines.....	714,382	Nov. 25	3736	824 825	101	1719
Kragle, John L., Clearfield, Pa. Display-rack.....	715,394	Dec. 9	1412	305	101	2144
Krah, Alexis, New Haven, Conn., assignor to Keystone Seal & Press Company, New York, N. Y. Seal-press.....	693,612	Feb. 18	2656	586	98	1391
Krakau, Harry T., assignor to National Malleable Castings Company, Cleveland, Ohio. Car-coupling.....	698,970	Apr. 25	4905	1084	99	1108
Kram, Charles A. (See Watson, Robert, assignor.).....						
Kramer, Frank J., et al. (See Kneisly, Daniel W., assignor.).....						
Kramer, George H., et al. (See Kneisly, Daniel W., assignor.).....						
Kramer, George W., Oil City, Pa. Axle-support.....	713,455	Nov. 11	1905	431	101	1305
Kramer, William M. (See Rockwell, Ludlum H., assignor.).....						
Kramer, Edward, Brooklyn, N. Y. Hat-pin retainer.....	703,795	July 1	778	171 172	100	156
Krank, Albert, Warkaus Jorois, Russia. Steam-turbine.....	708,815	Sept. 9	1509	346 347	100	2302
Krank, Albert, Warkaus, Russia. Resilient bearing.....	712,088	Nov. 4	414	97	101	983
Krantz, Hubert. (See Müller, Ernest W., assignor.).....						
Krantz, Hubert, Brooklyn, N. Y. Electrical switch mechanism.....	693,550	Feb. 18	2526	556	98	1365
Krantz, Hubert, Brooklyn, N. Y. Electrical outlet-box.....	700,340	May 20	2415	551	99	1704
Krantz, Hubert, Brooklyn, N. Y. Electrical panel-board.....	705,850	July 29	1882	1061	100	1048
Kranz, Frederick W., Minneapolis, Minn. Top-spinning device.....	705,232	July 22	3605	792	100	792
Krapf, Benjamin G., Topeka, Kans. Machine for separating and cleaning corn cellulose.....	700,055	May 13	1788	414	99	1536
Kraske, Victor, Chicago, Ill. Banjo.....	715,587	Dec. 9	1784	396	101	2217
Krastin, August, Cleveland, Ohio. Vaporizer for hydrocarbon-engines.....	695,060	Mar. 11	1391	305	98	2023
Krastin, Paul, Philadelphia, Pa. Collapsible tap or die.....	715,671	Dec. 9	1927	431 432	101	2247
Kratzmueller, Louis R., Chicago, Ill. Surgical instrument.....	702,443	June 17	2099	478	99	2576
Kraus, Charles. (See Kraus, Rudolf, assignor.).....						
Kraus, Otto, New York, N. Y. Necktie-fastener.....	707,786	Aug. 26	3476	783	100	1881
Kraus, Rudolf, assignor of one-half to C. Kraus, New York, N. Y. Machine for forming plastic patterns on wall-paper.....	697,498	Apr. 15	2084	462	99	477
Krause, Arthur E., Jersey City, N. J. Removing oil from water.....	705,253	July 22	3606		100	792
Krause, George E., and A. L. Bolen, Indianapolis, Ind. Motor-controller.....	712,549	Nov. 4	177	41 42 43	101	934
Krause, George E., and A. L. Bolen, Indianapolis, Ind. Motor-controller. (Reissue).....	12,064	Dec. 16	3315	723 724 725	101	2557
Krause, Herman, et al. (See Neubauer, Carl E., assignor.).....						
Krause, Ida, et al. (See Neubauer, Carl E., assignor.).....						
Krause, Rudolf. (See Milan, Young M., assignor.).....						
Krauslar, George J., Cleveland, Ohio. Machine or engine oiler.....	711,114	Oct. 14	1367	298	101	297
Krauss, Charles H., Johnstown, Pa., assignor to Lorain Steel Company. Railway-track structure.....	694,162	Feb. 25	3715	820	98	1624
Krauss, Charles H., Johnstown, Pa., assignor to Lorain Steel Company. Tongue-switch.....	717,100	Dec. 30	4868	1054	101	2927
Krauss, Constantin, and R. M. von Berneck, assignors to Farbwerke, vorm. Meister, Luchs & Brüning, Höchst-on-the-Main, Germany. Making sulfuric acid and sulfur anhydride.....	700,512	May 20	2750	629	99	1773
Krauss, Emil, Hackensack, N. J., assignor to Eagle Pencil Company, New York, N. Y. Pen or pencil attachment for spacing lines in ruling plain paper.....	695,738	Mar. 18	2612	598	98	2292
Krauss, Jacob, Lexington, Ky. Vehicle.....	703,601	July 1	398	93	100	79
Krauss, Jacob, Lexington, Ky. Wheel-hub.....	715,087	Dec. 2	848	181	101	2010
Krauss, Norman C., Walton, Ind. Cornstalk-cutter.....	696,210	Apr. 8	1549	347	99	348
Kraut, Charles, Chicago, Ill. Transferring design.....	705,530	July 29	4411	950	100	933
Krauter, John F., Toledo, Ohio. Hot-air furnace.....	708,563	Sept. 9	1006	228	100	2196

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Kravik, Gjermund H., Belview, Minn. File	700,640	Sept. 23	3174	708	100	2680
Krayer, Joseph F., Philadelphia, Pa., assignor to General Electric Company. Switch for electric lamps	697,727	Apr. 15	2508	560	99	562
Krebs, Arthur C., assignor to Ste. Ame. des Anciens Etablissements Panhard et Levassor, Paris, France. Electromagnetic regulator for admission-valves of hydrocarbon-motors	691,638	Jan. 21	2402	540	98	534
Krebs, Arthur C., assignor to Ste. Ame. des Anciens Etablissements Panhard et Levassor, Paris, France. Cone-clutch	698,551	Feb. 18	2527	536	98	1365
Krebs, Arthur C., assignor to Ste. Ame. des Anciens Etablissements Panhard et Levassor, Paris, France. Motor-vehicle	700,950	May 27	3583	834	99	1963
Krebs, Arthur C., assignor to Société Anonyme des Anciens Etablissements Panhard et Levassor, Paris, France. Apparatus for distributing the primary current for electric ignition by coils and igniters in explosive-engines	708,053	Sept. 2	105	24	100	2003
Krebs, Frederick H., Copenhagen, Denmark. Lead fuse for electric circuits	709,334	Sept. 16	2549	574	100	2538
Krebs, John F., assignor of one-half to C. Casser, Colorado Springs, Colo. Paint-oil and making same	706,961	Aug. 12	1846		100	1510
Krebs, Louis. (See Dominick and Krebs.)						
Kregel, Louis G., St. Louis, Mo. Apparatus for making sides of coffins	711,054	Oct. 14	1259	274	101	275
Kregel, Louis G., St. Louis, Mo. Making sides of coffins	711,055	Oct. 14	1261	274	101	276
Kreibiel, Charles H., Moundridge, Kans. Power-hammer	709,780	Sept. 23	3445	775	100	2735
Kreher, Richard, Braidentown, Fla. Check or pump valve	702,223	June 10	1695	382	99	2474
Kreider, David A., New Haven, Conn. Siphon	695,739	Mar. 18	2613	593	98	2292
Kreidler, Anton, Stuttgart, Germany. Wire-covering machine	704,550	July 15	2231	483	100	482
Kreighbaum, Ira J., et al. (See Fitzgerald, Seifert, and Kimmel, assignors.)						
Kreitz, Forrest, assignor to W. N. Miller and W. J. Rau, South Bethlehem, Pa. Air-brake for railways	701,205	May 27	4050	931	99	2063
Kremer, Christoph, Wiesbaden, Germany. Apparatus for the recovery of fats or their like	700,056	May 13	1791	414	98	1556
Kremer, Franklin W. (See Wheeler and Kremer.)						
Kremer, Philip J., Somerton, Ohio. Folding frame for trucks	702,801	June 17	2778	639	99	2718
Krennitz, Carl, Spandau, Germany. Pattern-grinding apparatus for shaping tools of different patterns	714,803	Dec. 2	307	66, 67	101	1900
Krenger, John A., Duquesne, Pa. Drop-bottom for ash pans	698,971	Apr. 29	4906	1064	99	1108
Krentler-Arnold Hinge Lash Company. (See Shainsey, Fred J., assignor.)						
Krepper, Mary M. (See Morgan and Krepper.)						
Kreps, Abraham, Freedom, Pa. Detachable-key rail-joint	692,152	Jan. 28	3360	761	98	747
Kress, John, New Rochelle, N. Y. System for ventilating tunnels	704,808	July 15	2696	583	100	576
Kresse, Herman E. (See Farrell and Kresse.)						
Kressel, Edward C. L., assignor of two-thirds to T. Hill-Jones, London, England. Preparing alimentary extracts	694,102	Feb. 25	3602		98	1601
Kretzer, Henry F., St. Louis, Mo. Insulator	699,761	May 13	1226	285	99	1439
Krex, Paul, South Bethlehem, Pa. Clothes-line reel	690,588	Jan. 7	422	90	98	92
Krey, William E., New York, N. Y., and A. Duppler, Jersey City, N. J., assignors to Automatic Twisting-In Machine Company. Warp-twisting machine	695,566	Mar. 18	2319	524	98	2324
Krick, William C., Brooklyn, N. Y. Stand	694,867	Mar. 4	1018	224	98	1928
Krieger, George L., Harrisburg, Pa. Carpal bone	713,456	Nov. 11	1906	431	101	1305
Krieger, Hieronymus G., assignor to himself, H. A. Bussian, and A. Konold, Chicago, Ill. Reducer for overexposed photographic plates	712,313	Oct. 28	3676		101	808
Kries, Peter, Baltimore, Md. Gas-burner	694,287	Feb. 25	3847	879	98	1671
Krimmelbein, Leopold, assignor of one-half to J. F. Feldmann, Baltimore, Md. Quick-action automatic release mechanism for air-brakes	715,088	Dec. 2	849	181	101	2010
Kriwanek, John, San Francisco, Cal. Reading-stand	697,257	Apr. 8	1634	366	99	368
Kriwulka, Martin, and P. E. Holmquist, Philadelphia, Pa. Violin	712,550	Nov. 4	181	43	101	335
Krocker, Ernst R., Teplitz, Austria-Hungary. Air ship or vessel	712,689	Nov. 4	415	97	101	983
Kroder, Henry, Passaic, N. J. Ventilating apparatus	714,714	Dec. 2	123	25	101	1863
Kroeschell Brothers Ice Machine Company. (See Wittenmeier, Frederick, assignor.)						
Krohn, Leo J., Grand Junction, Colo. Account-file	697,092	Apr. 8	1354	300	99	307
Krohnman, John, New York, N. Y. Fireproof floor	713,994	Nov. 18	2970	661	101	1543
Kromenaker, Charles W., Chicago, Ill. Book-holder	697,499	Apr. 15	2086	463	99	477
Kron, Rudolf, Jr., Golzen, Switzerland. Wire-cloth for paper-machines	708,228	Sept. 16	2342	581	100	2439
Krone, Johannes, assignor to F. Krupp, Essen, Germany. Apparatus for transferring ammunition from the ammunition-carriage into the loading-axis of the gun	709,781	Sept. 23	3447	776	100	2736
Kronheim, Wolf, Hanover, Germany. Comb	707,598	Aug. 26	3057	688	100	1796
Kronheimer & Oldenbusch Company. (See Oldenbusch, Ernest, assignor.)						
Kronold, Adolph S., New York, N. Y. Skirt-binding or edge-protector and making same	690,442	Jan. 7	106	23	98	25
Kronthal, Benjamin, Chicago, Ill. Belt	694,390	Mar. 4	106	24	98	1735
Krotz, Alvaro S., Springfield, Ohio. Automobile	704,809	July 15	2698	584	100	577
Krotz, Alvaro S., Springfield, Ohio, assignor to Consolidated Rubber Tire Company, Jersey City, N. J. Rubber tire	692,056	Jan. 28	3198	721	98	713
Krotz, Alvaro S., Springfield, Ohio, assignor to Consolidated Rubber Tire Company, Jersey City, N. J. Rubber tire	692,311	Feb. 4	164	28	98	832
Krotz, Alvaro S., Springfield, Ohio, assignor to Consolidated Rubber Tire Company, Jersey City, N. J. Machine for equipping vehicle-wheels with rubber tires	711,980	Oct. 28	3080	675	101	689
Krotz, Alvaro S., assignor of one-half to P. A. Staley, Springfield, Ohio. Automobile	713,313	Nov. 11	1662	373	101	1253
Krotz, Linford E., assignor of two-thirds to F. W. Roedel and G. T. Seabury, Cheyenne, Wyo. Variable-speed gearing	697,410	Apr. 8	1924	428	99	428
Krout, John G. (See Enig and Krout.)						
Krueger, Henry, and R. J. Hoffman, Minneapolis, Minn.; said Hoffman assignor to said Krueger. Line-guide for fishing-reels	698,029	Apr. 22	3056	671	99	698
Krueger, John W. (See Raasch and Krueger.)						
Krueger, Max C., assignor, by mesne assignments, of one-half to McGuire Manufacturing Company, Chicago, Ill. Combined rheostat and heater	700,207	May 20	2127	488	99	1640
Kruff, John, assignor to O. Schmidt, Jersey City, N. J. Self-playing musical instrument	715,089	Dec. 2	854	182	101	2011
Kruger, August, assignor to Handelsgesellschaft Adolph Winter, Stettin, Germany. Galvano-electric therapeutic chain	700,783	May 27	3283	753	99	1903
Krumhoff, Ernst, Sontra, Germany. Lead for measuring depths	707,599	Aug. 26	3058	688	100	1796
Krumm, Cajus J. C. and C. A., Christiania, Norway. Time-recorder	696,572	Apr. 1	321	75, 76	99	72
Krumm, Christian A. (See Krumm, Cajus J. C. and C. A.)						
Krumrine, Sidney, et al. (See McGarvey, Edward, assignor.)						
Krumscheid, Jacob, Boston, Mass. Pedal-action for pianofortes	713,985	Nov. 18	2971	662	101	1543
Krupicka, Frank, Milligan, Neb. Incubator	704,841	July 15	2751	595	100	589



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Krupp, Fried. (See Hartmann, Oscar, assignor.)						
Krupp, Fried. (See Krone, Johannes, assignor.)						
Krupp, Fried. (See Kurig, Josef, assignor.)						
Krupp, Fried. (See Lauber, Otto, assignor.)						
Krupp, Fried. (See Lauber and Stock, assignors.)						
Krupp, Fried. (See Müller, Eduard, assignor.)						
Krupp, Fried. (See Nagel, Friedrich, assignor.)						
Krupp, Fried. (See Panse, Friedrich, assignor.)						
Krupp, Fried. (See Schoeller, Gustav A., assignor.)						
Krupp, Fried. (See Votsch, Hermann, assignor.)						
Krupp, Fried. (See Wratzke, Alfred, assignor.)						
Kruschke, Rudolph C., Duluth, Minn. Hunter's lamp	711,871	Oct. 21	2848	629	101	625
Kruse, John H., Pueblo, Colo. Self-locking latch	696,684	Apr. 1	543	125	99	118
Krux, Frank, San Francisco, Cal. Coffee-roaster	706,571	Aug. 12	1109	246	100	1355
Kravyser, Emil. (See Scheiber and Kravyser.)						
Kryger, Henry H., Minneapolis, Minn. Cylinder rotary snow-plow	707,121	Aug. 19	2140	1478 479	100	1588
Kryger, Henry H., Minneapolis, Minn. Machine-gun	711,218	Oct. 14	1594	342	101	346
Krygoski, Gregory, and E. A. Lowrie, St. Louis, Mo., assignors of one-fourth to S. A. Czerniewski. Car-door fitting	708,366	Sept. 2	665	150	100	2116
Krygoski, Gregory, and E. A. Lowrie, St. Louis, Mo., assignors of one-fourth to S. A. Czerniewski. Car-door fitting	708,367	Sept. 2	666	150	100	2116
Krygoski, Gregory, and E. A. Lowrie, St. Louis, Mo., assignor of one-fourth to S. A. Czerniewski. Car-door hanger	713,996	Nov. 18	2972	662	101	1543
Kubach, Charles. (See Lippen, Jonathan K., assignor.)						
Kubierschky, Martin T. A., Berlin, Germany. Electrically-operated plow	696,454	Apr. 1	110	26	99	29
Kubierschky, Martin T. A., Berlin, Germany. Automatic tension device for chains or other traction means	706,962	Aug. 12	1847	413	100	1510
Kubierschky, Martin T. A., Berlin, Germany. Regenerative system	714,196	Nov. 25	3389	746	101	1650
Kuchenbecker, Awald E. (See Pierce and Kuchenbecker.)						
Kuczkowski, Lucas. (See Rensman, Henry R., assignor.)						
Kuderer, Charles, Allegheny, Pa. Apparatus for ventilating mines	713,457	Nov. 11	1907	1431	101	1905
Kuelder, Conrad, Calamus, Iowa. Lock	712,078	Oct. 28	3269	716	101	726
Kuechenmister, Henry. (See Kuechenmister, John H., assignor.)						
Kuechenmister, John H., assignor of one-half to H. Kuechenmister. St. Louis, Mo. Can	709,017	Sept. 16	1922	441	100	2404
Kuehn, Caroline, et al. (See Kuehn, Paul, assignor.)						
Kuehn, Michael, assignor of one-half to C. C. Crone, St. Louis, Mo. Combined fender and brake	701,301	June 3	146	31	99	2138
Kuehn, Paul, assignor to Deposit-Coupon Company, Toledo, Ohio. Combined bank-deposit and coupon book	714,920	Dec. 2	567	120	101	1949
Kuehn, Paul, assignor to H. Howe and C. Kuehn, Toledo, Ohio. Bank-deposit-coupon book	705,851	July 29	4883	1001 1062	100	1048
Kuehne, Henry O., Middle Village, assignor to Crematory Company of New York, New York, N. Y. Furnace for cremating or incinerating human bodies	697,946	Apr. 15	2890	639	99	646
Kuehnrich, Paul M., and C. Laursen, Los Angeles, Cal. Bottle-conveyer	713,775	Nov. 18	2357	565	101	1452
Kuempel, Frederick, assignor of one-half to I. Lincoln, Buffalo, N. Y. Railway-car	705,069	June 24	3305	799	99	2841
Kuen, Joseph, and H. F. Hodges, Philadelphia, Pa. Steam or water heating boiler	693,870	Feb. 25	3138	694 695	98	1508
Kuentz, Adam, Colby, Wis. Endless propeller	707,600	Aug. 26	3059	688 689	100	1796
Kuentz, Adam, Colby, Wis. Station-indicator	709,912	Sept. 30	3722	839	100	2806
Kuersten, Hugo R., Chicago, Ill., assignor, by mesne assignments, to Staples & Hanford Company, Newburgh, N. Y. Spring-wirework	694,391	Mar. 4	107	24	98	1735
Kuetner, Berthold, Woking, England. Plate for secondary batteries	690,580	Jan. 7	423	91	98	92
Kugler, Friedrich, assignor to Actiengesellschaft, vormals F. Martini & Co., Frauenfeld, Switzerland. Book-sewing machine	705,363	July 22	3927	850 851	100	848
Kugler, Henry, Chicago, Ill. Draft attachment for vehicles	694,651	Mar. 4	509	132	98	1839
Kuhl, Burchard, Orlando, Fla. Ice-cream freezer	694,973	Mar. 11	1231	269	98	1960
Kuhlman, H. V., et al. (See Woodman, George A., assignor.)						
Kuhn, Charles, Fruitvale, Cal. Door-mat	694,554	Mar. 4	429	92	98	1803
Kuhn, David I., deceased, Verona, Pa.; J. L. Kuhn, administrator. Combined folding cot and tent	702,567	June 17	2336	534	99	2026
Kuhn, Edmond, East Orange, N. J., assignor to American Pedometer Company, New Haven, Conn. Pedometer	694,652	Mar. 4	501	132	98	1839
Kuhn, Edmond, East Orange, N. J., assignor to G. and E. Bunzl, New York, N. Y. Watch-case	707,480	Aug. 19	2727	617	100	1711
Kuhn Formaldehyde Generating Company. (See Kuhn, Richard P., assignor.) (Reissue.)						
Kuhn, John L., administrator. (See Kuhn, David I.)						
Kuhn, Max, New York, N. Y. Control-sheet	705,254	July 22	3668	792	100	792
Kuhn, Richard P., Alexandria, Va., assignor to Kuhn Formaldehyde Generating Company. Formaldehyde-lamp. (Reissue)	11,986	May 18	2031	464	99	1603
Kuhn, Rudolf, Bruck, Germany. Machine for stamping coat	695,567	Mar. 18	2325	525 526	98	2235
Kuhn, Rudolf, Bruck, Germany. Making the interior of coke-ovens or other kilns tight	705,681	July 29	4576	994	100	986
Kuhns, John P., assignor to National Tag Co., Dayton, Ohio. Pin-ticket	696,573	Apr. 1	324	76	99	72
Kuhns, John P., Dayton, Ohio, assignor, by mesne assignments, to National Tag Company, Sanford, Me. Pin-ticket	709,492	Sept. 23	2911	649	100	2626
Kulicks, Paul, Buckow, Germany. Ash-tray	708,650	Sept. 9	1163	266	100	2229
Kull, Albert L., Camden, N. J. Speed-regulator for explosive-engines	690,413	Jan. 7	107	23, 24	98	25
Kull, Albert L., Camden, N. J. Automobile	700,781	May 27	3284	754	99	1904
Kull, Albert L., Camden, N. J. Muffler for explosive or other engines	700,785	May 27	3285	754	99	1904
Kull, Albert L., Camden, N. J. Driving mechanism for automobiles	700,786	May 27	3286	754	99	1904
Kull, Albert L., Camden, N. J. Reversing-gear for propeller-shafts	714,197	Nov. 25	3395	747	101	1651
Kull, George. (See Dollison, Cordy C., assignor.)						
Kummer, Rudolph A., St. Louis, Mo. Gas-generator	694,288	Feb. 25	3940	879	98	1671

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Kun, Josef, Pforzheim, Germany. Elastic chain bracelet.....	690,590	Jan. 7	424	91	98	92
Kundtz, Theodor, Cleveland, Ohio. Machine-bearing cabinet.....	709,098	Sept. 16	296	480	100	2442
Kune, Frederick G., et al. (See Chipman, William R., assignor.)						
Kunold, Peter A., Omaha, Neb. Tin-folding machine.....	711,404	Oct. 14	1929	420	101	417
Kunst, Emma, Chicago, Ill. Dress-fitting stand.....	691,062	Jan. 14	1816	297	98	280
Kuntzen, Otto, Berlin, Germany. Fare-indicator.....	691,639	Jan. 21	2408	540	98	335
Kunz, Charles. (See May and Kunz.)						
Kunze, Adolph. (See Butler and Kunze.)						
Kunzelmann, Carl, Säckingen, Germany. Lock.....	703,429	July 1	112	25, 26	100	25
Kunzelmann, Carl, Säckingen, Germany. Lock.....	700,018	Sept. 16	1923	1441	100	2405
Kupfer, Julius, Bamberg, Germany. Dental mouth-mirror.....	703,729	July 1	657	145	100	131
Kuppenheimer & Co., E. (See Wolf, Harry, assignor.)						
Küppers, Wilhelm, Berlin, Germany. Device for cleaning and rubbing collectors of electric motors and dynamo-machines.....	699,198	May 6	117	30, 31	99	1199
Kurig, Josef, assignor to F. Krupp, Essen, Germany. Ordinance.....	708,151	Sept. 2	282	67, 68	100	269
Kurig, Josef, assignor to F. Krupp, Essen-on-the-Ruhr, Germany. Ordinance.....	715,672	Dec. 9	1929	432	101	2247
Kursheed Manufacturing Company. (See Groebli, Joseph A., assignor.)						
Kürstener, Curtiss W., et al. (See Koake, John S., assignor.)						
Kurtz, Max, Eccles, Mo. Insect-exteriorator.....	701,362	June 3	147	31	99	2139
Kurtz, Clinton J., Salen, Oreg. Fruit-drier.....	705,767	July 29	4737	1025	100	1017
Kurtz, Jacob, Greensburg, Pa. Strainer for mine-pumps.....	705,364	July 22	3301	852	100	844
Kurz, Charles F., Cleveland, Ohio. Show-case or show-front.....	702,444	June 17	2100	478	99	2576
Kurz, Charles H., Detroit, Mich. Caster-support for trunks.....	693,034	Feb. 11	1498	327	98	1134
Kusebauch, Anton, Edgewood Park, assignor to G. Westinghouse, Pittsburg, Pa. Electric lamp.....	712,551	Nov. 4	183	49	101	935
Kusznir, Anna, Fosen, Germany. Splitter-bar for vehicles.....	698,405	Feb. 18	2254	493	98	1309
Kwis, Joseph J., assignor to Adams Brothers Company, Findlay, Ohio. Power device for pumping wells.....	712,314	Oct. 28	3676	803	101	808
Kydd, James, McPherson, Kans. Setting-tool.....	693,406	Feb. 18	2254	493	98	1310
Kyes, Lewis W., Hammond, Wis. Axle.....	710,157	Sept. 30	4244	947	100	2946
Kyle, Barton W., and C. Graham, Tarkio, Mo. Washing-machine.....	713,654	Nov. 18	2316	516	101	1493
Kyle, Edmund M., Belle Vernon, Pa. Double reciprocating dasher for churns.....	713,891	Nov. 18	2767	615	101	1500
Kyle, Robert G. (See Campbell and Kyle.)						
Kyle, Wallace W., Pulaski, Pa. Match-safe.....	715,090	Dec. 2	856	182	101	2012
Kynaston, John, Liverpool, England. Device for coupling two bicycles.....	707,122	Aug. 19	2141	479	100	1350
L. B. Baker Manufacturing Company. (See Frisbie, William L., assignor.)						
L. and L. Pneumatic Tool Company. (See Leineweber, Herman, assignor.)						
L. S. Starrett Company. (See Simpson, Robert J., assignor.)						
L. S. Starrett Company. (See Starrett, Laroy S., assignor.)						
La Barte, Warren, Cairo, W. Va. Sucker-rod grab for oil-wells, &c.....	709,589	Sept. 23	3079	685	100	2661
La Bauve, Valcours J., Houston, Tex. Spoke-tightener.....	706,071	Aug. 5	134	27	100	1144
La Bud, August C. (See Barton and La Bud.)						
La Burt, John, assignor to H. A. Kessel and A. Olsen, Brooklyn, N. Y. Cut-off valve.....	690,743	Jan. 7	739	164	98	155
La Casse, Henry, Auburn, N. Y. Machine for grinding bearings.....	697,500	Apr. 15	2088	1464	99	477
La Cell, George E., Lakota, N. D. Acetylene-gas generator.....	717,221	Dec. 30	5133	1112	101	2986
La Clair, Edmund F., Avon, Conn. Horseshoe-calk.....	700,057	May 13	1792	415	99	1557
La Cour, Jens L. (See Arnold, Bragstad, and La Cour.)						
La Coursiere, Frank D., and J. B. Steffen, Buffalo, N. Y. Folding chair.....	694,163	Feb. 25	3716	820	98	1624
La Dow, Charles, Albany, N. Y. Elastic joint.....	691,571	Jan. 21	2261	1508	98	506
La Flamboy, Harry C., assignor of two-thirds to R. Thuner and B. Duffield, Detroit, Mich. Match-making machine.....	715,673	Dec. 9	1931	433	101	2248
La Follette, William, Blakesburg, Iowa. Check-row planter.....	699,880	May 13	1477	339	99	1494
La Force, Eugene, Two Harbors, Minn. Cane and seat.....	713,114	Nov. 11	1233	281	101	1168
La France, Alfred, assignor of one-half to S. E. Simonds, Marlboro, Mass. Double-acting band-brake.....	693,659	Feb. 18	2739	605	98	1409
La Grand, John V., Cairo, Ill. Inkstand.....	695,402	Mar. 11	2004	449	98	2151
La Roche, Fredrick A. (See Clay and La Roche.)						
La Roche, Fredrick A., New York, N. Y., assignor of one-half to C. D. Cooke, Paterson, N. J. Electrical measuring instrument.....	691,393	Jan. 21	1963	441	98	443
La Rue, Oliver, Holton, Ind. Fumigating poultry-roost.....	702,971	June 24	3119	717	99	2805
La Société Anonyme de Machines Industrielles. (See Mettewie, Rochet, and Beeck, assignors.)						
La Société Anonyme des Etablissements Malicet et Blin. (See Malicet and Blin, assignors.)						
La Société Française de Ramie. (See Masse, Casimir, assignor.)						
La Société Internationale de Meunerie et de Panification Systeme Schweitzer. (See Schweitzer, Joseph, assignor.)						
La Société Marinier, Navoit et Jeanson. (See Avril, Paul V., assignor.)						
Laas, Edward, Elgin, and H. H. Spornburg, Wadsworth, Ill. Railway-rail stay.....	703,602	July 1	399	94	100	79
Labadie, William D., South Bend, Ind. Compound-feeder for steam-boilers.....	693,552	Feb. 18	2528	557	98	1366
Labadie, William D., South Bend, Ind., assignor of one-half to J. G. Duck, Milwaukee, Wis. Injector.....	693,553	Feb. 18	2530	557	98	1366
Labadie, William D., South Bend, Ind., assignor of one-half to J. G. Duck, Milwaukee, Wis. Cellar or cistern drainer.....	699,959	May 13	1624	372	99	1524
Laban, Julius. (See Laban, Peter F., assignor.)						
Laban, Peter F., Altona, Germany, assignor to J. Laban, Brooklyn, N. Y. Valve-lubricator.....	706,963	Aug. 12	1848	413	100	1510
Labeau, Louis, Briggsville, Mass. Lock.....	703,281	June 24	3686	849	99	2017
Labofish, Charles S., Washington, D. C. Reversing mechanism.....	693,407	Feb. 18	2256	491	98	1309
Labranche, Henri, and F. Thiroit, Paris, France. Folding ladder.....	716,057	Dec. 16	2721	1600	101	2437
Labranche, Joseph L. (See Grondin, Brillard, and Labranche.)						
Labudde, Gustave A. F., Jr., Eureka Junction, Wash. Draft-equalizer.....	691,785	Jan. 28	2703	607	98	615
Lacey, Anderson B., Washington, D. C. Fish-hook.....	699,397	May 6	516	119	99	1281
Lacey, Elmer B., and A. J. Fuller, West Auburn, Pa. Silo.....	707,123	Aug. 19	2142	480	100	1589
Lachase, Nick, Coney Island, N. Y. Pleasure-railway.....	699,960	May 13	1625	373	99	1524
Lackner, John, New York, N. Y. Box.....	716,435	Dec. 23	3478	759	101	2608
Lacomme, Jean M. A., assignor of two-thirds to W. Lauder, Brooklyn, N. Y., and J. L. Hackett, Louisville, Ky. Device for purifying water.....	696,647	Apr. 1	458	107	99	90
Lacomme, Jean M. A., assignor of two-thirds to W. Lauder, Brooklyn, N. Y., and J. L. Hackett, Louisville, Ky. Preserving fruits.....	716,558	Dec. 23	3736	815	101	2602



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Lacôte, Jean A., Paris, France. Machine for treating vegetable-stems	701,057	May 27	3790	885	99	2007
Lacôte, Jean A., Paris, France. Scutching or fiber-preparing machine	701,058	May 27	3790	888	99	2007
Lacroix, Louis, and H. Brisselet, Geneva, Switzerland. Keyhole-guard	693,318	Mar. 11	1870	416	98	2121
Lacroix, Louis, and H. Brisselet, Geneva, Switzerland. Keyhole-guard	701,059	May 27	3791	869	99	2008
Lacy, George E., Newark, N. J. Hat-fastener	714,198	Nov. 25	3397	748	101	1651
Lacy, William P., South Boston, Va. Artificial denture	711,324	Oct. 14	1789	387	101	387
Laczay, Georg, U-Kigyo, Austria-Hungary. Automatic coupling for railway-carriages	693,658	Feb. 18	2738	604	98	1408
Ladd, Sherman W., Beverly, assignor to United Shoe Machinery Company of the State of New Jersey, Boston, Mass. Lasting machine	696,740	Apr. 1	654	148	99	140
Ladewig, Paul, Essen, Germany. Temporary binder	703,730	July 1	658	146	100	132
Ladwig, John H. (See Call, Eugene H., assignor.)						
Laellein, Edward F. (See Nice and Laedlein.)						
Lafferty, Erastus S., Galesburg, Ill. Building-tile	702,103	June 10	1485	335	99	2431
Lafferty, Erastus S., Galesburg, assignor to J. G. Bohl, Peoria, Ill. Railway-torpedo	710,302	Sept. 30	4565	1030	100	2884
Lafferty, John M., Pittsburg, Pa. Tonges for handling ingots, &c.	705,324	Aug. 5	641	141	100	1346
Lafferty, Walter P., Philadelphia, Pa. Centrifugal machine	695,138	Mar. 11	1579	351	98	2063
Lafin & Rand Powder Company. (See Howard, Frank B., assignor.)						
Lafin & Rand Powder Company. (See Wilkins and Aspinwall, assignors.)						
Lafon, Lemuel, and W. Tirrill, Pittsburg, N. H. Wire clothes-pin	700,208	May 20	2130	488	99	1646
Lafontaine, Joseph L., et al. (See Whitcomb, Horatio N., assignor.)						
Laforest, Aubin A., St. Louis, Mo. Attachment for spectacles	704,714	July 15	2496	540	100	337
Lafrigue, Gabriel, assignor to Société Lafrigue, Pinton et Cie., Paris, France. Machine for removing hard and stiff hairs from furs or skins	706,964	Aug. 12	1849	414	100	1511
Laganke, Charles F., assignor to Fisher Book Typewriter Company, Cleveland, Ohio. Line-spacing mechanism for type-writing machines	703,961	July 1	1086	235	100	216
Laganke, Charles F., assignor to Fisher Book Typewriter Company, Cleveland, Ohio. Follower-plate for type-writing-machine plates	704,479	July 8	2081	451	100	437
Laganke, Charles F., assignor to Fisher Book Typewriter Company, Cleveland, Ohio. Type-writing machine	705,535	July 22	4280	925	100	914
Laganke, Charles F., assignor to Fisher Book Typewriter Company, Cleveland, Ohio. Work gage and clamp for type-writing machines	705,536	July 22	4284	926	100	915
Laganke, Charles F., Cleveland, Ohio, assignor to Fisher Typewriter Company. Work-gage for type-writing machines	705,537	July 22	4290	927	100	916
Lagerstrom, Anthony F., Chicago, Ill. Sled	702,306	June 10	1824	416	99	2500
Lagonda Manufacturing Company. (See Grove, Elmer E., assignor.)						
Lagoutte, François, Asnières, France. Explosive-engine	714,492	Nov. 25	3925	869	101	1755
Lahan, Edward J., Quincy, Ill. Stove	704,051	July 8	1256	271	100	264
Laherty, Edward L., assignor of nine-twentieths to J. F. Condon, Verdi, Nev. Detachable handle for saws	694,555	Mar. 4	430	98	98	1803
Lahmann, John W., Indianapolis, Ind. Building stone or brick	699,537	May 6	765	180	99	1338
Lahodny, William, Akron, Ohio. Glass-polishing machine	696,455	Apr. 1	111	26, 27	99	29
Lahodny, William, Akron, Ohio. Machine for grinding glass	709,019	Sept. 16	1927	1442	100	2405
Lahodny, William, Akron, Ohio. Glass grinding and polishing machine	709,020	Sept. 16	1930	1443	100	2405
Lahr, Henry B., assignor of one-half to Bowling Ball Company, New York, N. Y. Bowling-alley	709,163	Sept. 16	2225	505	100	2467
Laird, Christian F., New London, Wis. Table	692,312	Feb. 4	165	38	98	832
Laidlar, Arthur, Broadheath, England. Variable-speed mechanism	701,581	June 3	546	119	99	2221
Laidlow, Marianne, Chicago, Ill. Garment-hanger	710,698	Oct. 7	570	120	101	117
Laing, Thaddeus R., assignor to Kraft Combination Telephone Company, Chicago, Ill. Apparatus for telephone toll-lines	698,972	Apr. 29	4907	1084	99	1108
Laing, Thaddeus R., and C. T. Frantz, Chicago, Ill. Coin-controlled vending apparatus	716,058	Dec. 16	2722	601	101	2437
Laird, David, Forfar, Scotland. Liquid-heating furnace	691,866	Jan. 28	2845	640	98	644
Laird, David, Forfar, Scotland. Retort-furnace	696,456	Apr. 1	114	27	99	29
Laird, David, Forfar, Scotland. Cupellation-furnace	714,198	July 8	1567	338	100	328
Laird, David, Forfar, Scotland. Means for lifting crucibles from furnaces	714,804	Dec. 2	308	67	101	1900
Laird, John F., Fallriver, Wis. Automatic alarm	708,816	Sept. 9	1512	346	100	2302
Laird, Nigel, Turniston, Scotland. Paper bag	708,234	Sept. 2	440	100	100	2071
Laird, William H. (See Harrison, Newton, assignor.)						
Lajoie, Edward. (See Chevalier and Lajoie.)						
Lajoie, Napoléon. (See Chevalier and Lajoie.)						
Lake, Charles W., et al. (See Hayden, Samuel R., assignor.)						
Lake, David, and E. W. Crellin, Philadelphia, assignors of one-half to A. Markle and J. W. Crellin, Hazleton, Pa. Screw-cutting machine	705,538	July 22	4295	928	100	917
Lake, Judson N. (See Palmer and Lake.)						
Lake Shore Novelty Company. (See Opeas, Rousseau H., assignor.)						
Lake, Simon, Bridgeport, Conn. Submarine boat	693,215	Mar. 11	1684	374	98	2084
Lake, Simon, Bridgeport, Conn. Pneumatic torpedo-firing apparatus	709,335	Sept. 16	2551	575	100	2538
Lake, Simon, Bridgeport, Conn. Battery installation for submarine boats	714,814	Nov. 4	658	152	101	1032
Lake, Simon, Bridgeport, Conn. Storage of supplies for submarine vessels	714,921	Dec. 2	569	121	101	1950
Lake, Simon, Bridgeport, Conn. Propeller-controlling device for submarine boats	715,395	Dec. 9	1413	305	101	2144
Lake, Simon, Bridgeport, Conn. Anchor-hoisting device for submarine boats	716,059	Dec. 16	2725	602	101	2437
Lake, Simon, Bridgeport, Conn. Battery installation	716,844	Dec. 23	4374	948	101	2808
Lake, Simon, Bridgeport, Conn. Submarine boat	717,101	Dec. 30	4869	1055	101	2927
Lake, Simon, New York, N. Y. Hoisting apparatus for wrecking vessels	710,472	Oct. 7	130	39	101	38
Lakenan, Cornelius B., Grass Valley, Cal. Hydraulic pump	695,815	Mar. 18	2755	628	98	2332
Lakhovsky, Georges, Paris, France. Bolt-retainer	703,706	July 1	779	171	100	156
Lakin, Corydon B., Washington, D. C. Curtain-fixture	716,060	Dec. 16	2727	602	101	2438
Lally, John, Waltham, Mass. Scaffold-splicer	704,884	July 15	2826	611	100	605
Lally, John, Waltham, Mass. Staging-clamp	706,185	Aug. 5	356	77	100	1189
Lally, John T., and J. J. English, Wilmington, Del. Hot-air pumping-engine	706,425	Aug. 5	852	187	100	1286
Lalor, Patrick, Denver, Colo., assignor of one-half to W. Y. Lawton, San Francisco, Cal. Window	705,098	July 22	3325	721	100	722
Lalumière, Antoine. (See Leclerc, Tremblay, and Lalumière.)						
Lamb, Burton T., and E. G. Gould, Portland, Me. Awning	709,913	Sept. 30	3124	880	100	2806
Lamb, George R. (See Mills and Lamb.)						
Lamb, John A., Grosvenor Dale, Conn., assignor to Draper Company, Hopedale, Mass. Warp-stop-motion apparatus	690,591	Jan. 7	425	91	98	92

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Lamb, William G., Mexico, Mexico. Retaining-valve.....	702,802	June 17	2781	689	99	2718
Lamb, William G., Mexico, Mexico. Retaining-valve.....	711,774	Oct. 21	2656	586	101	554
Lambert, Bernard H. (See Hunt and Lambers.)						
Lambert, Asber, Newark, N. J. Derrick-swinging attachment for hoisting-engines.....	707,851	Aug. 26	3617	816	100	1908
Lambert, Charles M., Darke county, Ohio, assignor of one-half to E. C. Tritt, Union City, Ind. Wrench.....	712,532	Nov. 4	185	44	101	936
Lambert, Christian H., Rushville, Ind. Vehicle seat-lock.....	696,648	Apr. 1	460	107	99	99
Lambert Company. (See Messer, William F., assignor.)						
Lambert, Edouard, Paris, France. Machine for printing in a plurality of colors.....	695,816	Mar. 18	2759	628 629 630	98	2323
Lambert, Frank, Brooklyn, N. Y. Keyboard for type-writers.....	693,277	Feb. 11	2004	436	98	1236
Lambert, Frank, Brooklyn, N. Y. Type-writer.....	698,278	Feb. 11	2005	436	98	1236
Lambert, Henry C., Fernbank, Ohio, assignor of forty-nine one-hundredths to A. B. Clark, Steele, N. D., and J. A. Graft, Harrison, Ohio. Apparatus for making molds and cores.....	697,635	Apr. 15	2334	521 522	99	527
Lambert, Henry M., and O. H. Joy, Portland, Oreg. Combined mud-guard, supplemental seat, and parcel-holder for bicycles.....	704,885	July 15	2828	611	100	605
Lambert, John E., Detroit, Mich. Air-pump.....	695,613	Mar. 18	2406	545	98	2251
Lambert, John W., assignor to Buckeye Manufacturing Company, Anderson, Ind. Speed-regulator for explosive-engines.....	698,405	Apr. 22	3757	829	99	844
Lambert, Joseph, Battlecreek, Mich. Granular malted biscuit and making same.....	701,742	June 3	384		99	2283
Lambert, M. Henry, et al. (See Draper, Alexander T., assignor.)						
Lambert, Mary A. K., Chicago, Ill. Cooking utensil.....	692,313	Feb. 4	166	39	98	833
Lambert, Maurice, Toury, France. Dissolving low-grade sugar.....	692,020	Jan. 28	3124	703 704	98	699
Lambert, Thomas B., Chicago, Ill. Apparatus for reproducing sounds.....	695,159	Mar. 11	1582	351	98	2064
Lambie, James B., et al., trustees. (See Cahill, Thaddeus, assignor.)						
Lambkin, William L., assignor to D. L. McLean, Ottawa, Canada. Newspaper-file.....	692,153	Jan. 28	3361	761	98	747
Lambrecht, Hermann J. G., and C. Schiele, Maples, Ill. Photograph-holder.....	707,850	Aug. 26	3616	815	100	1908
Lammi, William T., Buffalo, N. Y. Ash-sifter.....	696,056	Mar. 25	3210	725	98	2430
Lammadin, George, and D. F. Stone, assignors to Union Metallic Cartridge Company, Bridgeport, Conn. Cartridge-shell.....	692,154	Jan. 28	3364	761	98	748
Lamme, Benjamin G., Pittsburg, Pa. Starting rotary converters.....	710,363	Sept. 30	4556	1030	100	2984
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulation of rotary-converter electromagnetic force.....	692,021	Jan. 28	3125	704	98	699
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Winding for electrical machines.....	692,022	Jan. 28	3127	704	98	699
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Alternating-current motor.....	695,938	Mar. 25	2985	675	98	2384
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Co. Speed-regulating means for electric motors.....	702,657	June 17	2511	575	99	2063
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric generator.....	702,658	June 17	2512	576	99	2063
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of electrical distribution.....	710,158	Sept. 30	4205	948	100	2907
Lamme, Benjamin G., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Alternating-electric-current generating and distributing system.....	695,937	Mar. 25	2984	674	98	2383
Lamond, David, Pittsburg, Pa. Hot-air stove.....	712,690	Nov. 4	416	98	101	983
Lamond, Malcolm, Oakland, Cal. Stocking.....	712,941	Nov. 4	602	211	101	1081
Lamont, John A., Hammond, Ind., assignor to Simplex Railway Appliance Company, Chicago, Ill. Brake-beam.....	698,524	Apr. 29	3973	878	99	904
Lamont, Robert, and C. E. Weatherhead, Denver, Colo. Pneumatic hat-block.....	716,251	Dec. 16	3119	683	101	2519
Lamont, William H., Prophetstown, Ill. Paper-cutter.....	693,660	Feb. 18	2741	605	98	1409
Lamoureux, Samuel L., Titonka, Iowa. Feeding-rack.....	693,279	Feb. 11	2007	436	98	1236
Lamphere, Charles L. (See Beckwith and Lamphere.)						
Lampier, Frank. (See Bartlett, William W., assignor.)						
Lamping, Charles M. (See Behrens, Hermann L., assignor.)						
Lamplough, Frederick, Willesden, London, England. Condenser.....	713,776	Nov. 18	2539	565	101	1453
Lamplugh, Augustus R., assignor to Philadelphia Baby Carriage Factory, Philadelphia, Pa. Baby-coach or go-cart.....	699,881	May 13	1479	340	99	1494
Lamplugh, Augustus R., and H. Levi, assignors to Philadelphia Baby Carriage Factory, Philadelphia, Pa. Baby-coach or go-cart.....	699,882	May 13	1480	340	99	1495
Lamplugh, Augustus R., and H. Levi, assignors to Philadelphia Baby Carriage Factory, Philadelphia, Pa. Baby-coach or go-cart.....	699,883	May 13	1481	340	99	1495
Lampman, Norman J. (See Morse and Lampman.)						
Lamson Consolidated Store Service Company. (See Phillips, Erbine C., assignor.)						
Lamure, Pierre, and P. E. Yege, Bois Colombes, France. Gas-burner of Bunsen type for illuminating purposes and for heating.....	713,314	Nov. 11	1664	374	101	1254
Lancaster, Charles F., assignor of one-half to F. D. Davis, Petoskey, Mich. Mold for concrete structures.....	699,625	May 6	943	218	99	1369
Lancaster, Fred R., et al. (See Burch, Charles J., assignor.)						
Lancaster, Israel, Chicago, Ill. Covering for aeroplanes.....	706,832	Aug. 12	1614	362 363	100	1465
Lancaster, John P., assignor to J. N. Vasey, Chicago, Ill. Railway-tie.....	708,797	July 1	780	171	100	156
Lance, Andrew M., Paris, Pa. Gate.....	707,431	Aug. 19	2728	617	100	1712
Lanckton, William A., assignor, by mesne assignments, to Acme Adder Manufacturing Co., Limited, Detroit, Mich. Adding-machine.....	695,217	Mar. 11	1689	375	98	2085
Land, Henry C., Newton County, Miss. Wire reeling and stretching machine.....	696,906	Apr. 1	988	220	99	209
Land, John S. (See Wilkins, John F., assignor.)						
Land, W. M. (See Boyd and Gillis, assignors.)						
Landenberger, Charles H., Philadelphia, Pa. Loom for weaving tufted pile fabrics.....	706,072	Aug. 5	135	28, 29	100	1145
Landers, Frary and Clark. (See Smith, Charles F., assignor.)						
Landfear, William B., Brooklyn, assignor of one-half to R. H. Wright, New York, N. Y. Machine for packing cigarettes.....	692,789	Feb. 4	1011	229 230	98	1004
Landgreen, Arthur, Wilsonville, Nebr. Wire-machine.....	692,314	Feb. 4	169	39	98	833
Landin, John. (See Rudolphs and Landin.)						
Landing, Lars M., Glenwood, Minn. Personal-account file-case.....	714,715	Dec. 2	125	25	101	1863
Landis, Abraham B., Waynesboro, Pa. Work-rest for grinding-machines.....	697,852	Apr. 15	2729	605	99	612
Landis, Abraham B., Waynesboro, Pa. Work-rest for grinding-machines.....	697,853	Apr. 15	2733	606	99	613
Landis, Abraham B., Waynesboro, Pa. Automatic work-rest for grinding-machines.....	697,854	Apr. 15	2734	606	99	613
Landis, Abraham B., Waynesboro, Pa. Work-rest for grinding-machines.....	700,663	May 20	2998	687	99	1826
Landis, Abraham B., Waynesboro, Pa. Work-rest for grinding-machines.....	712,815	Nov. 4	661	158	101	1033
Landis, Frank F., Waynesboro, Pa. Ratchet-wrench.....	714,586	Nov. 25	4109	909	101	1794
Landis, Israel L., Chicago, Ill. Gate. (Reissue.).....	12,039	Sept. 30	4641	1048	100	2999



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Landis, John A., W. A. Johnston, and L. W. Bosley, Gainesville, Tex. Crude-oil burner.	703,282	June 24	3687	849	99	2918
Landkrohn, William H., assignor to Enamel Steel Tile Company, Bellaire, Ohio. Metal-lic tiling for walls or ceilings.	716,061	Dec. 16	2730	602	101	2438
Landon-Sharp Machine Company. (See Frankenberg, Frederick G., assignor.)						
Landor, William H., Palmyra, Wis. Wrench.	691,552	Jan. 21	2230	501	98	499
Landrum, Tom J. (See Lippold, Frederick W., assignor.)						
Landry, Alexander C., et al. (See Gearing, Charles M., assignor.)						
Landry, Alfred, Richmond, Canada. Stove.	716,436	Dec. 23	3479	759	101	2609
Landry, Rosamoni L., Whitecastle, La. Well-boring device.	716,062	Dec. 16	2731	760	101	2439
Lane, Charles C., Los Angeles, Cal. Ore-crushing machine.	709,822	Sept. 23	3528	795	100	2733
Lane, Clarence E. (See Hilt and Lane.)						
Lane, Edwin C., Brooklyn, N. Y. Tuning device for stringed instruments.	694,392	Mar. 4	109	25	98	1736
Lane, George. (See Lane, William J. and G.)						
Lane, George Poughkeepsie, N. Y. Igniting device for hydrocarbon-burners.	707,852	Aug. 26	3620	816	100	1908
Lane, George, and J. M. James, Poughkeepsie, N. Y. Door-hanger.	713,315	Nov. 11	1666	374	101	1254
Lane, George A., assignor of one-half to J. F. Martin, Lakeside, Cal. Combination bit and reamer.	700,430	May 20	2582	592	99	1737
Lane, John H., and E. B. Whitmore, assignors to Harmon-Whitmore Company, Jackson, Mich. Dust-collector.	699,194	May 6	118	31	99	1200
Lane, Lewis L. (See Koch, William J. E., assignor.)						
Lane, Louis, Toledo, Ohio. Arch.	693,280	Feb. 11	2009	437	98	1237
Lane, Louis, Toledo, assignor to W. J. Clark Company, Salem, Ohio. Post-cap.	714,199	Nov. 25	3398	748	101	1651
Lane, Oscar A., and H. A. Davenport, assignors to Adrian Gas Machine Manufacturing Company, Adrian, Mich. Carbureter.	690,444	Jan. 7	109	24	98	25
Lane, Oscar A., and H. A. Davenport, assignors to Adrian Gas Machine Manufacturing Company, Adrian, Mich. Carbureter.	696,457	Apr. 1	115	27	99	30
Lane, William H., Ithaca, N. Y. Billiard-cue.	710,279	Sept. 30	4422	997	100	2955
Lane, William J. and G., Poughkeepsie, N. Y. Lubricator for engines.	699,688	May 13	1083	253	99	1411
Lane, William J. and G., Poughkeepsie, N. Y. Motor-vehicle.	712,196	Oct. 28	3473	762	101	765
Lang, Archer W., et al. (See Palmer, George L., assignor.)						
Lang, Charles A., St. Louis, Mo. Paper-dampening machine.	695,216	Mar. 11	1686	374	98	2085
Lang, James S., assignor of one-half to F. H. Kimball, Boston, Mass. Track-sanding apparatus for electric or similar cars.	715,486	Dec. 9	1585	344	101	2178
Lang, Janet, et al. (See Lang, Lincoln A., assignor.)						
Lang, John F. (See Bolgiano, Gilbert C., assignor.)						
Lang, Lincoln A., assignor of one-half to J. and W. G. Lang, Yule, N. D. Valve-gear for controlling motors.	695,061	Mar. 11	1398	306	98	2023
Lang, Louis. (See Jackson and Lang.)						
Lang, Mathias. (See Gillis, Harry B., assignor.)						
Lang, William G., et al. (See Lang, Lincoln A., assignor.)						
Langdon, David H., Gaines, Pa. Grab-hook.	696,873	Apr. 1	899	207	99	190
Langdon, Oliver P., St. Louis, Mo. Tug-stop.	699,961	May 13	1637	373	99	1324
Langdon, William B., Hawley, Pa. Bottle filling and corking machine.	709,413	Sept. 16	3721	610	100	2573
Langhein, Wilhelm, Ditteldorf, near Bonn, Germany. Draw-press.	711,926	Oct. 21	2963	652	101	648
Langdon, Charles F., et al. (See Black, William C., assignor.)						
Langdon, James G., Newton, Mass. Sectional heater.	705,099	July 22	3337	722	100	723
Langdon Mitre Box Company. (See Parsons, William J., assignor.)						
Langdon, Sylvester L., Magnolia, Miss. Cinder or spark arrester.	693,281	Feb. 11	2010	437	98	1237
Lange, Berthold A., St. Louis, Mo. Box-joint.	706,763	Aug. 12	1485	329	100	1436
Lange, Charles. (See Riess and Lange.)						
Lange, John. (See Moses and Lange.)						
Lange, Joseph H. (See Reitz and Lange.)						
Lange, Jurgen P., Passaic, N. J. Shuttle-guard for looms.	696,826	Apr. 1	811	186	99	172
Lange, Jurgen P., Passaic, N. J. Roll.	700,513	May 20	2751	629	99	1773
Lange, Martin, and T. Emilewicz, Amsterdam, Netherlands. Making mordant colors.	702,445	June 17	2102		99	2577
Lange, Otto. (See Weinberg and Lange.)						
Lange, Otto, Jamesburg, N. J. Blackboard.	698,204	Apr. 22	3422	753	99	774
Langel, Franz, Cologne, Germany. Exercising apparatus for straightening the legs.	714,300	Nov. 25	3614	795	101	1694
Langen, Max, Cologne, Germany. Extensible ladder.	715,091	Dec. 2	857	183	101	2012
Langenbeck, Karl. (See Mueller and Langenbeck.)						
Langenheim, William G., assignor to R. W. Hunt & Co., Chicago, Ill. Centric-draft undraining for cars.	716,068	Dec. 16	2733	603	101	2439
Langenohl, August F., St. Louis, Mo. Pedal and beater attachment for bass drums.	716,437	Dec. 23	3480	760	101	2609
Langfelder, Henry, Berlin, Germany, assignor to O. Schmidt, Jersey City, N. J. Musical instrument.	702,224	June 10	1695	382	99	2474
Langfitt, John W., Adel, Iowa. Electric road-grading machine.	706,671	Aug. 12	1802	287	100	1397
Langham, Herbert W., Barton, Md. Nut-lock.	706,325	Aug. 5	648	141	100	1246
Langhart, Jacob, Jr. (See Howard and Langhart.)						
Langhorne, Catherine M., Plainfield, N. J. Aseptic sputum-receptacle and holder.	709,164	Sept. 16	2226	506	100	2468
Langhorne, John T., et al. (See Lotterhand, Jason C., assignor.)						
Langill, Crammer C. (See Holst and Langill.)						
Langlois, Joseph C., Greenfield, Mass. Valve-reseating device.	692,459	Feb. 4	417	99	98	884
Langlois, Joseph R., Paris, France. Apparatus for molding sugar.	712,391	Oct. 28	3818	834	101	840
Langman, Max, New York, N. Y. Cloth-cutting machine.	715,092	Dec. 2	858	183	101	2012
Langman, Max, New York, N. Y. Clutch.	715,093	Dec. 2	862	184	101	2013
Langridge, Charles W., Wyandota, Mo. Pile-truss.	691,392	Jan. 21	1062	440	98	143
Langrill, William, Bay City, Mich. Voting-machine.	706,326	Aug. 5	649	141	100	1246
Langstaff, Lewis G., Brooklyn, N. Y. Scarificator for surgical use.	693,554	Feb. 18	2531	557	98	1366
Langstaff, Lewis G., Brooklyn, N. Y. Liquid-soap container.	700,787	May 27	3287	755	99	1905
Langston, Samuel M., Philadelphia, Pa. Cutter-head.	692,155	Jan. 28	3365	762	98	748
Langston, Thomas J., Johnston, S. C. Basket.	694,289	Feb. 25	3950	880	98	1671
Langston, Thomas J., Johnston, S. C. Folding basket.	706,426	Aug. 5	854	187	100	1286
Langton, Charles S., Parkersburg, Ill. Automatic pump for pneumatic tires.	715,094	Dec. 2	864	185	101	2014
Langville, Louis. (See Thwing, Charles B., assignor.)						
Langworthy, David I., Syracuse, N. Y. Street-cleaning apparatus.	712,315	Oct. 28	3678	803	101	808
Janier, Howard S., Danville, Va. Pants or overalls.	694,556	Mar. 4	431	93	98	1804
Laning, Jay F. (See Post, Charles B., assignor.)						
Lankenau, Edward F., assignor of one-half to G. H. Crossett, New York, N. Y. Sanitary toilet-sheet.	711,981	Oct. 28	3083	676	101	680
Lanner, Axel M., Stockholm, Sweden. Stove. (Reissue.)	12,043	Oct. 7	1008	223	101	206
Lansden, John M., Jr. (See Milner and Lansden.)						
Lansingh, Van Rensselaer, assignor to V. R. Lansingh Company, Chicago, Ill. Globe-supporting bracket.	713,458	Nov. 11	1911	432	101	1306

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Langston Monotype Machine Company. (See Bancroft, John S., assignor.)						
Langston Monotype Machine Company. (See Bancroft and Indahl, assignors.)						
Langston Monotype Machine Company. (See Cathcart, Arthur W., assignor.)						
Langston Monotype Machine Company. (See Indahl, Mauritz C., assignor.)						
Langston Monotype Machine Company. (See Kemp, William, Jr., assignor.)						
Langston Monotype Machine Company. (See Lanston, Tolbert, assignor.)						
Langston Monotype Machine Company. (See Pierpont, Frank H., assignor.)						
Langston, Tolbert, assignor to Lanston Monotype Machine Company, Washington, D. C.	700,341	May 20	2415	551 552 553	99	1704
Type-composing machine.						
Lanston, Tolbert, assignor to Lanston Monotype Machine Company, Washington, D. C.	702,568	June 17	2337	535 536 537	99	2626
Composing mechanism for type-machines.						
Lanstrum, Christian E., Galesburg, Ill. Spraying device	696,057	Mar. 25	3211	725	98	2430
Lantz, Charles J., Gowrie, Iowa. Apparatus for supporting and operating clothes-lines.	692,864	Feb. 11	1149	256	98	1069
Lantz, William B., Gloucester, Mass. Seine-pursing machine	696,874	Apr. 1	900	207 208	99	190
Lantz, William B., Gloucester, Mass. Seine-pursing machine	697,150	Apr. 8	1443	323	99	327
Lantz, William B., Gloucester, Mass. Seine-pursing machine	697,151	Apr. 8	1445	324	99	327
Lanyon Zinc Company. (See Lorenz, William A., assignor.)						
Lanz, William, Chicago, Ill. Gaiter	694,164	Feb. 25	3719	821	98	1625
Lape, Charles F., San Bernardino, Cal. Boiler	695,614	Mar. 18	2407	545	98	2351
Lapertot, Pierre G., Villard, and L. Pignaud, Lyons, France. System of electric lighting and apparatus therefor.	696,662	Apr. 1	501	115	99	109
Lapham, Charles P., Houghton, N. Y. Trolley-pole attachment	704,749	July 15	2573	554	100	552
Lapham, Samuel. (See Halsall and Lapham.)						
Lapointe, Frederic, Montreal, Canada. System of bookkeeping	710,103	Sept. 30	4091	923 924	100	2882
Lapointe, Joseph N., Hydepark, Mass. Grinding-machine	704,348	July 8	1839	396 399 400	100	388
Lapointe, Joseph N., Hydepark, Mass. Reamer	716,438	Dec. 23	3483	760	101	2609
Lapointe, Joseph N., Hydepark, Mass. Reamer	716,439	Dec. 23	3484	761	101	2610
Laporte, Amédée, Central Falls, R. I. Dumping-cart	715,276	Dec. 9	1192	254	101	2098
Laporte, Frank, and L. Baptiste, St. Louis, Mo. Combined tobacco box and cutter.	704,052	July 8	1258	272	100	264
Laporte, George H., Brooklyn, N. Y. Exhibition and amusement apparatus	714,717	Dec. 2	137	26	101	1864
Lapp, Valentin, Lindenau, near Leipzig, Germany. Drying grain	690,592	Jan. 7	426	91	98	93
Lapp, Valentin, Lindenau, Germany. Manufacturing non-alcoholic beer	709,713	Sept. 23	3301	741	100	2706
Lapp, Valentin, Leipzig, Germany. Metallic storage vessel for beer or the like	715,487	Dec. 9	1588	344	101	2178
Lappin, Frank, assignor of one-half to J. J. Weed, Washington, D. C., and E. D. N. Whitney, Minneapolis, Minn. Combined curb and conduit	714,716	Dec. 2	136	25	101	1863
Laprade, George W., Franklin County, Va. Voting-machine	701,206	May 27	4051	931	99	2063
Laprise, Louis. (See Yon and Laprise.)						
Lapsley, Harry W., Burlington Junction, Mo. Bicycle-brake	715,819	Dec. 16	2298	499	101	2331
Laramie, Mitchell, Willimantic, Conn. Animal-trap	698,973	Apr. 29	4911	1085	99	1109
Larava, Henry F., Worcester, Mass. Belt-fastener for connecting ends of drive-belts	699,538	May 6	767	181	99	1343
Larcey, W. P. (See Smith, Benjamin W., assignor.)						
Larcom, Harry G., New York, N. Y. Boiler-feeder	698,296	Apr. 22	3577	788 789	99	806
Large Tree Transplanting Company. (See Ryder, Malcolm, assignor.)						
Larimer, Daniel W., and D. C. Elliott, Goshen, Ind. Composition fence-post.	704,842	July 15	2732	505	100	589
Larimore, John W., Bath, assignor of one-half to J. M. Rahn, Pekin, Ill. Rotary engine.	714,200	Nov. 25	3399	749	101	1652
Larimore, Miles H., assignor of one-half to T. Larimore, Fort Wayne, Ind. Farm-gate.	698,717	Apr. 29	4414	974	99	1000
Larimore, Thomas. (See Larimore, Miles H., assignor.)						
Larkin, Bernard H., River Forest, assignor to Automatic Vacuum Canning Company, Chicago, Ill. Vacuum-sealed and sealed key-opening can	693,282	Feb. 11	2011	497 498	98	1237
Larkin, Bernard H., River Forest, Ill., assignor, by mesne assignments, to American Can Company, Jersey City, N. J. Combined double-seaming and edge-rolling machine	693,800	Feb. 18	2988	606	98	1460
Larkin, Bernard H., River Forest, Ill., assignor, by mesne assignments, to American Can Company, Jersey City, N. J. Sheet-metal bailed can or vessel	704,261	July 8	1672	364	100	350
Larkin, George H., San Francisco, Cal. Vaporizer, mixer, and regulator for oil-burners.	697,093	Apr. 8	1355	300	99	307
Larkin, John E., Elmira, N. Y. Plate or plaque hanger	711,056	Oct. 14	1262	275	101	276
Larned, Joshua B., J. L. Parker, and J. A. Joyce, Cleveland, Ohio. Conical roller-bearing	700,145	May 13	1984	455	99	1594
Laronette, H. P., et al. (See Weller, Herbert D., assignor.)						
Laros, Charles C., Grinnell, Iowa. Storm-apron fastener	696,574	Apr. 1	324	76	99	73
Larr, Ira H., Sullivan, Ind. Boat	714,805	Dec. 2	309	68	101	1900
Larrabee, Elmer E. (See Nichols, William H., assignor.)						
Larrabee, William H., assignor to Union Water Meter Company, Worcester, Mass. Disk water-meter	702,225	June 10	1697	383	99	2474
Larrabee, William H., assignor to Union Water Meter Company, Worcester, Mass. Disk water-meter	702,226	June 10	1699	383	99	2475
Larrabee, William H., assignor to Union Water Meter Company, Worcester, Mass. Disk water-meter	702,970	June 24	3117	717	99	2805
Larsen, Carl F., Rush City, Minn. Blast device for furnaces	698,525	Apr. 29	3974	878	99	905
Larsen, Eduard, Copenhagen, Denmark. Apparatus for drying and distilling wood, sawdust, peat, or the like, and for treating other substances.	704,886	July 15	2890	612	100	606
Larsen, Edward, Alta, Iowa. Recording-machine	703,935	July 1	1029	223 224	100	205
Larsen, Hans H., Crookston, Minn. Harrow	713,459	Nov. 11	1913	433	101	1306
Larsen, Ivert, assignor of one-half to R. G. Armstrong, Chicago, Ill. Connecting device.	699,398	May 6	518	119	99	1282
Larsen, Jacob F., Chicago, Ill. Screw-driver	709,603	Sept. 23	3116	694	100	2669
Larsen, John L., et al. (See Marks, Joseph P., assignor.)						
Larsen, Albert L., Chicago, Ill., assignor to O. J. Friedman. Brake mechanism for vehicles	694,393	Mar. 4	110	25	98	1736
Larson, Carl A. (See Butler and Larson.)						
Larson, Carl J., et al. (See Carroll and Roberts, assignors.)						
Larson, Christian H., Chicago, Ill. Apparatus for collecting and settling dust.	701,898	June 10	1096	250	99	2353
Larson, Gustaf A., and J. E. Johnson, Wilcox, Nebr. Broom-corn knife	700,058	May 13	1793	415	99	1557
Larson, Joseph E., Silvercreek, Nebr. Combined corn harvester, husker, and loader.	701,899	June 10	1097	251 250	99	2354
Larson, Joseph E., Silvercreek, Nebr. Broom-corn harvester	716,440	Dec. 23	3485	761 762	101	2610
Larson, Lewis, Norway, Iowa. Tool-box for hand-cars.	701,900	June 10	1100	251	99	2354



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Larsson, Hans E. (See Green and Larsson.)						
Larsson, Henry W., Springfield, Mass., assignor to Larsson Whip Company. Machine for dividing ratan	694,757	Mar. 4	805	179 180	98	1882
Larsson, Henry W., Springfield, Mass., assignor to Larsson Whip Company. Machine for dividing ratan	694,758	Mar. 4	810	180 181 224 225	98	1883
Larsson, Henry W., assignor to Larsson Whip Company, Springfield, Mass. Machine for trimming strips of ratan	694,868	Mar. 4	1019	225 226 227	98	1928
Larsson, Henry W., assignor to Larsson Whip Company, Springfield, Mass. Machine for longitudinally dividing strips of ratan	694,869	Mar. 4	1024	227 228	98	1929
Larsson, Henry W., assignor to Larsson Whip Company, Springfield, Mass. Butt-loading for whips	707,124	Aug. 19	2143	480	100	1589
Lary, Morris. (See Robinson, Frank A., assignor.)						
Lasker, Emanuel, Manchester, England. Game device	690,656	Jan. 7	555	121	98	119
Laskey, Philip B., Marblehead, Mass. Motor	702,972	June 24	3120	718	99	2906
Lass, Frederic J., Aurora, Ill. Machine for molding journal-bearings	695,740	Mar. 18	2614	593 594	98	2292
Lasserot, John H., Berkeley, Cal. Postage-stamp carrier and applier	691,277	Jan. 14	1691	345	98	368
Lassiter, Columbus K., Richmond, Va. Bolt-machine	708,891	Sept. 9	1963	382	100	2384
Lissoe, Valdemar P., New York, N. Y., and L. D. Lovelkin, Ardmore, Pa. Oil-burner	716,724	Dec. 23	4039	884	101	2727
Lasswell, Martin, assignor of two-thirds to F. T. Hill and E. Denzel, Spokane, Wash. Fine-gold amalgamator	694,290	Feb. 25	3953	880	98	1672
Laszczynski, Stanislaw, assignor to T. von Michalowski, Berlin, Germany. Storage battery	714,301	Nov. 25	3403		101	1652
Latham, Chester A., Wichita, Kans. Antifriction-bearing	710,785	Oct. 7	753	160	101	154
Latham & Company. (See Caswell, Myron J., assignor.)						
Latham, George W., Ridgely, Md. Bottle	716,441	Dec. 23	3488	702	101	2611
Latham, James R., assignor of one-half to R. Milbank, New York, N. Y. Non-refillable bottle	695,817	Mar. 18	2762	630	98	2323
Latham, James R., assignor of one-half to R. Milbank, New York, N. Y. Non-refillable bottle	699,626	May 6	945	219	99	1370
Latham, James R., assignor of one-half to R. Milbank, New York, N. Y. Non-refillable bottle	710,917	Oct. 7	957	215	101	198
Latham, Robert G., Manchester, N. H. Damper	697,238	Apr. 8	1635	366	99	368
Latham, Woodville, assignor, by mesne assignments, to E. & H. T. Anthony & Co., New York, N. Y. Projecting-kinetoscope	707,994	Aug. 26	3769	847	100	1939
Lathrop, George C., Washington, D. C. Portable poultry-house	693,283	Feb. 11	2013	438	98	1238
Lathrop, George C., Washington, D. C. Nest for poultry	694,759	Mar. 4	816	181	98	1885
Lathrop, George C., Washington, D. C. Drip, grit, and feed device for poultry	694,760	Mar. 4	819	181	98	1885
Lathrop, George C., Washington, D. C. Portable fence for chicken-closures	694,761	Mar. 4	821	181	98	1885
Lathrop, George W., Washington, D. C. Feed and water device for chickens	697,943	Apr. 8	1777	393	99	308
Lathrop, Henry S., San Francisco, Cal. Depth and inclination indicator and recorder	715,095	Dec. 2	865	185	101	2014
Lathrop, Horace N., Long Lake, Minn. Kitchen-cabinet	717,222	Dec. 30	5137	1113 1114	101	2086
Lathrop, William A., Wilkesbarre, Pa. Car-dump	715,488	Dec. 9	1690	344	101	2178
Latour, Marie-Elise de, New York, N. Y. Waist-lining	715,588	Dec. 9	1786	396	101	2217
Lathaw, Joseph W. (See Baines, Joseph E., assignor.)	706,242	Aug. 5	462	98	100	1210
Latta, Ermit G., Friendship, N. Y. Crank shaft and hanger for velocipedes	711,057	Oct. 14	1263	275	101	276
Latta, John L., and J. A. Martin, Hickory, N. C. Compressed-air water-elevator	691,278	Jan. 14	1693	385	98	368
Latulip, Fred, Syracuse, N. Y. Machine for trimming corner-pieces	697,728	Apr. 15	2510	569	99	562
Lau, Fredrick, Newark, N. J. Bag or satchel frame	712,450	Oct. 28	3955	865	101	867
Laubenstein, George P., et al. (See Geddes, Charles A., assignor.)						
Lauber, Otto, Essen-Altendorf, assignor to F. Krupp, Essen, Germany. Gun-carriage	708,235	Sept. 2	441	100	100	2071
Lauber, Otto, and F. Stock, assignors to F. Krupp, Essen, Germany. Combined axle-seat and shield for gun-carriages	707,432	Aug. 19	2730	617 618	100	1712
Laubscher, Alexander, assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Embroidering-machine	716,338	Dec. 16	3274	715 716	101	2550
Lauder, Walter, et al. (See Lacomme, Jean M. A., assignor.)						
Lauderdale, Chapin F., Milwaukee, Wis. Dental-gold annealer	708,772	Sept. 9	1406	322	100	2279
Laughlin, Charles, St. Louis, Mo. Smelting-furnace	707,601	Aug. 26	3901	689	100	1737
Laughlin, Charles, St. Louis, Mo. Smelting-furnace	707,602	Aug. 26	3902	689	100	1737
Laughlin, Homer, Jr., and D. Schuyler, assignors to Perfect Sliding Door Company, Los Angeles, Cal. Push-button for locks, &c	694,341	Feb. 25	4113	915	98	1697
Laughlin, Louis A. (See Gosse, Edward L., assignor.)						
Laughlin, Robert D., Ravenna, assignor to National Carbon Company, Cleveland, Ohio. Making electric brushes	701,363	June 3	149	32	99	2139
Laughlin, Robert D., Ravenna, assignor to National Carbon Company, Cleveland, Ohio. Electric brush	716,252	Dec. 16	3121	683	101	2519
Laughton, Joseph B., Westfield, Mass. Inking-pad	710,699	Oct. 7	572	120	101	117
Laundon, Ernest T. (See Reynolds, Harry J., assignor.)						
Laupheimer, Maurice. (See Bailey, John R., assignor.)						
Laurans, Emile. (See Essner and Laurans.)						
Laurence, Bostwick Manufacturing Co. (See Bostwick, John R., assignor.)						
Laurent, Louis C., Denver, Colo. Spark and cinder arrester for locomotive smoke-stacks	707,063	Aug. 12	2027	453	100	1548
Laurent, Louis E., and E. E. Cherry, Trenton, N. J. Pulley-block	715,889	Dec. 9	1787	396	101	2218
Laurick, Carl, Berlin, Germany. Locking device for the operating-cranks of cash-registers	707,603	Aug. 26	3903	690	100	1738
Laursen, Anders P., Centerpoint, S. D. Cream-elevator	710,240	Sept. 30	4424	997	100	2055
Laursen, Christen. (See Kuehnrich and Laursen.)						
Lauster, August. (See Kerr and Lauster.)						
Lauten, Frank H., Brooklyn, N. Y. Tide-motor	696,082	Apr. 8	1153	256 257	99	265
Lautenslager, Walter. (See Arthur, Albert, assignor.)						
Lauterman, John H., Colorado Springs, Colo. Stovepipe	692,865	Feb. 11	1150	256	98	1060
Lauterstein, Isidor. (See Davis, Mark, assignor.)						
Lautz, Frederick C. M. (See Long, David N., assignor.)						
Laux, Mathias, assignor of two-thirds to T. E. Glynn and J. E. Coates, Little Rock, Ark. Cinder-hopper	703,603	July 1	400	94	100	79
Laval, Constant, Pittsburg, Pa. Trough for silvering glass	709,336	Sept. 16	2557	575	100	2540
Lavarack, William H. B., Troy, N. Y. Detector-bar clip and link	691,640	Jan. 21	2104	541	98	535
Lavelly, Elias, assignor to S. J. Lavelly, Bucyrus, Ohio. Fence	697,259	Apr. 8	1637	367	99	369

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Lavelly, Sarah J. (See Lavelly, Elias, assignor.)						
Lavens, Edward J. (See Lavens, Erwin and E. J.)						
Lavens, Erwin and E. J., Brooklyn, N. Y. Signal-telegraph .....	605,568	Mar. 18	2826	526	98	2235
Lavens, Erwin and E. J., Brooklyn, N. Y. Revolution-indicator .....	711,635	Oct. 21	2379	527	101	525
Lavery, Henry C., West Superior, Wis. Electrical operating apparatus for railway-gates. ....	693,975	Feb. 25	3330	736	98	1550
Lavery, Henry C., West Superior, Wis. Strip-printing machine .....	716,064	Dec. 16	2736	737	101	2440
Lavery, Richard, Boston, Mass. Differential-gear pulley-block .....	708,152	Sept. 2	285	738	100	2040
Larigne, Joseph P., New Haven, Conn., assignor to Standard Screw Co., Chicago, Ill. Turret-lathe .....	700,146	May 13	1985	804	99	1594
Lavollay, Jules H., and G. E. Bourgoins, Paris, France. Manufacturing sugar .....	693,408	Feb. 18	2288	805	98	1310
Law, Charles, Pittston, Pa. Chute .....	691,279	Jan. 14	1695	806	98	368
Law, Charles, Pittston, Pa. Chute .....	705,365	July 22	3693	807	100	844
Law, Grant, Centerpoint, W. Va. Match-box .....	693,723	Feb. 18	2838	808	98	1433
Law, Herbert E., San Francisco, Cal. Massaging instrument .....	696,345	Mar. 25	3816	809	98	2555
Law, Oliver G., Dayton, Ohio. Book-support and arm-rest .....	710,104	Sept. 30	4094	821	100	2882
Law, Prentiss E., assignor of one-half to A. P. Whitford, Wilmette, and J. de Tarnowsky, Chicago, Ill. Can-opener .....	691,867	Jan. 28	2846	824	98	645
Lawton, Lawrence H., Mobile, Ala., assignor to Mobile Spring Bed Co. Spring structure for bed or seat bottoms .....	715,489	Dec. 9	1591	845	101	2179
Lawler, James G., St. Charles, Mo. Trap-door for car-platforms .....	706,833	Aug. 12	1617	846	100	1465
Lawler, James J., Mount Vernon, N. Y. Atmospheric gas-heating burner .....	709,493	Sept. 23	2912	847	100	2626
Lawless, Michael J., assignor to Farrell & Co., Omaha, Nebr. Can-cover .....	711,405	Oct. 14	1931	848	101	417
Lawless, Patrick H. (See Mills, Henry D., assignor.)						
Lawless, Robert T., Alameda, Cal. Stellar compass and great-circle-course projector ..	703,139	June 24	3438	849	99	2868
Lawlor, Simeon C., Duluth, Minn. Window-cleaning apparatus .....	706,834	Aug. 12	1619	850	100	1465
Lawlor, Simeon C., Duluth, Minn. Window-cleaning apparatus .....	716,442	Dec. 23	3489	851	101	2611
Lawlor, Simeon C., Duluth, assignor to Lawlor's Safety Window Cleaner Company, Minneapolis, Minn. Window-washing apparatus .....	698,030	Apr. 22	3057	852	99	698
Lawlor's Safety Window Cleaner Company. (See Lawlor, Simeon C., assignor.)						
Lawrence, James P. S., U. S. Navy, assignor of one-half to T. B. Zell, Reading, Pa. Flask for treating wheels .....	708,817	Sept. 9	1513	853	100	2393
Lawrence, James P. S., U. S. Navy, assignor of one-half to T. B. Zell, Chester, Pa. Anchor ..	710,918	Oct. 7	978	854	101	190
Lawrence, Adelbert G., Motley, Minn. Automatic railway-switch .....	716,443	Dec. 23	3491	855	101	2611
Lawrence, Ambrose, Acme, Tex. Apparatus for calcining plaster .....	706,965	Aug. 12	1852	856	100	1511
Lawrence, Charles, Norristown, Pa. Flexible ruler .....	703,298	June 24	3572	857	99	2894
Lawrence, Edward M., Lubec, Me. Fish-cutting table .....	692,866	Feb. 11	1151	858	98	1060
Lawrence, Edward M., Lubec, Me. Fish-flaking machine .....	706,764	Aug. 12	1487	859	100	1436
Lawrence, Edwin F. (See Lawrence, John H., assignor.)						
Lawrence, Edwin F., assignor of one-half to J. H. Lawrence, Sterling, Ill. Door-hanger ..	713,115	Nov. 11	1234	860	101	1165
Lawrence, Felix M., Troy, N. Y. Ball and bat toy .....	713,316	Nov. 11	1667	861	101	1254
Lawrence, Frederick K. (See Coombs, James F., assignor.)						
Lawrence, Frederick M. (See Carman and Lawrence.)						
Lawrence, Frederick R., Brooklyn, N. Y. Tile .....	707,125	Aug. 19	2145	862	100	1590
Lawrence, Harry W., assignor to New England Electric Company, Denver, Colo. Elec- tric-light switch .....	710,473	Oct. 7	133	863	101	29
Lawrence, Ira A., Campbell, N. Y. Bicycle attachment .....	712,553	Nov. 4	187	41	101	936
Lawrence, James E., assignor of one-half to V. Marchessault, West Shefford, Canada. Tempering-bath .....	706,966	Aug. 12	1854	415	100	1511
Lawrence, James M., Commerce, Tex. Washing-machine .....	707,242	Aug. 19	2365	530	100	1637
Lawrence, Jesse E., Chicago, Ill. Cooling and ventilating system .....	707,247	Aug. 5	651	142	100	1246
Lawrence, John H. (See Lawrence, Edwin F., assignor.)						
Lawrence, John H., assignor of one-half to E. F. Lawrence, Sterling, Ill. Rail and bracket connection .....	699,195	May 6	120	21	99	1200
Lawrence, Joseph O., Monticello, Iowa. Cultivator .....	714,493	Nov. 25	3927	870	101	1755
Lawrence, Leroy D., Parsons, Kans. Lamp-extinguisher .....	706,572	Aug. 12	1110	246	100	1356
Lawrence, Lilford L., Edgefield Junction, Tenn. Canning apparatus .....	717,419	Dec. 30	5479	1189	101	3467
Lawrence, Mitchell, Chester, Md. Oyster-tongs .....	702,104	June 10	1487	335	99	2431
Lawrence, Orville H., Waverly, N. Y. Sheet-metal elbow .....	691,150	Jan. 14	1454	331	98	318
Lawrence, Wallace G. (See Wood and Lawrence.)						
Lawrence, William, New York, N. Y. Necktie-fastener .....	702,973	June 24	3126	718	99	2807
Lawrence, William, Punta Gorda, Fla. Rotary engine .....	711,168	Oct. 14	1483	320	101	323
Lawrence, William G., Oakland, Cal. Non-refillable bottle .....	709,099	Sept. 16	2099	480	100	2442
Laws, George, Phillipsburg, Pa. Fruit parer and corer .....	714,310	Nov. 25	3615	795	101	1694
Lawshe, Charles P., Trenton, N. J. Press for glass tiles .....	713,317	Nov. 11	1668	373	101	1254
Lawson, Albert, Rockford, Ill. Sectional bookcase .....	713,655	Nov. 18	2317	516	101	1403
Lawson, Charles C. (See Anderson, Hugh, assignor.)						
Lawson, Henry J., London, England, assignor to C. R. Flint, trustee, New York, N. Y. Motor driving apparatus for cycles .....	700,209	May 20	2131	488	99	1647
Lawson, John, Markdale, Canada. Carpet-stretcher .....	716,904	Dec. 30	4496	976	101	2849
Lawter, Benjamin H., assignor to Safety Shredder Co., Newcastle, Ind. Corn-husking and fodder-shredding machine .....	716,905	Dec. 30	4497	976	101	2849
Lawton, Charles H., et al. (See Bowse, George W., assignor.)						
Lawton, Charles H., et al. (See Waldron, Harry L., assignor.)						
Lawton, Edward P., Charleston, S. C. Copying-ink .....	690,862	Jan. 7	937	.....	98	197
Lawton, Samuel D., et al. (See McNeerney, Thomas H., assignor.)						
Lawton, William, Wilmington, Del. Ax or hatchet .....	712,554	Nov. 4	188	44	101	936
Lawton, William, Wilmington, Del. Ax or hatchet .....	712,942	Nov. 4	903	211	101	1081
Lawton, William W., et al. (See Lalor, Patrick, assignor.)						
Laxton, John W. R., Lynn, Mass. Amalgamator .....	692,315	Feb. 4	170	39	98	833
Lay, John F., Louisville, Ky. Knockdown shipping-crate .....	708,651	Sept. 9	1169	266	100	2230
Laybourn, Gerald W., Stoke-upon-Trent, England. Deposition of metals on earthen- ware articles .....	716,559	Dec. 23	3740	.....	101	2663
Laycock, Alfred E., Moosomin, Canada. Radiator .....	716,906	Dec. 30	4499	976	101	2849
Layland, Joseph A., Boston, Mass. Roller-bearing .....	712,555	Nov. 4	188	44	101	937
Layman, Charles W., et al. (See Savage, Thomas A., assignor.)						
Layman, Martin. (See Nolan, Oliver, assignor.)						
Layng, George H., Havelock, Canada. Nut-lock .....	704,053	July 8	1259	272	100	264



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Layng, William H., Newark, N. J. Truck	701,582	June 3	547	120	99	2292
Layton, John S., Springfield, Ohio. Hub for vehicle-wheels	695,590	Mar. 18	2330	637	98	2236
Lázaga, Ignacio, Havana, Cuba. Packing-machine	710,474	Oct. 7	137	31, 32	101	30
Le Blanc, Alexis, New York, N. Y. Range-indicator	691,742	Jan. 21	2617	586	98	598
Le Blond, Richard K., Cincinnati, Ohio. Variable speed mechanism	706,136	Aug. 5	334	77	100	1180
Le Bret, William J., Brooklyn, N. Y. Scaffold-support	715,590	Dec. 9	1788	397	101	2218
Le Clair, George E., Elyria, Ohio. Machine for making wood fiber	692,203	Jan. 28	3451	780	98	766
Le Clair, George E., assignor to J. W. Voglesong, Elyria, Ohio. Machine for cutting wood fiber	698,719	Apr. 29	4417	974	99	1000
Le Count, Louis C., Los Angeles, Cal. Wardrobe sofa-couch or other receptacle	695,818	Mar. 18	2764	630	98	2323
Le Duc, John J., Kerns, Minn. Steam-boiler furnace	691,641	Jan. 21	2405	541	98	535
Le Fevre, George A., New York, N. Y. Road-bed	714,923	Dec. 2	573	121	101	1950
Le Flem, Frank J., Philadelphia, Pa. Combined hub and brake for motor-vehicles	705,100	July 22	3329	723	100	723
Le Gall du Tertre. (See Conti, Geoffroy, and Le Gall du Tertre.)						
Le Gore, Earl P., Philadelphia, Pa. Dumping-wagon	711,665	Oct. 21	2442	537	101	538
Le Grand, Jean P., and N. Cheneau, Levallois-Perret, France. Resilient tire	716,067	Dec. 16	2753	607	101	2443
Le Hardy, Julius C., Savannah, Ga. Hernial truss	699,095	Apr. 29	5105	1129	99	1149
Le Maitre, Walter L., F. G. W. Parker, and E. Rhodes, Leeds, England. Appliance for fixing the upper or wearing portions of compound tramway-rails onto their bases, &c.	717,234	Dec. 30	5140	1114	101	2987
Le Marr, Samuel E., assignor to J. W. and J. B. Duncan, Palmyra, Ill. Hinge	700,694	May 20	3077	699	99	1845
Le Mond, George E., assignor of two-thirds to W. Bogart and C. Given, Detroit, Mich. Swivelled hose-reel	706,968	Aug. 12	1856	415	100	1512
Le Pelletier, Edouard, Vienna, Austria-Hungary. Hydrocarbon-vapor burner	705,238	July 22	3693	800	100	796
Le Roy Plow Company. (See Hall, Edwin, assignor.)						
Le Sueur, Ernest A., assignor to Electro-Chemical Company, Rumford Falls, Me. Electrolytic cell	692,591	Feb. 4	562	132	98	913
Le Vesconte, Alfred T., Minneapolis, Minn. Thermostat	714,810	Dec. 2	318	70	101	1901
Lea, Mark A., et al. (See Leabo, Thomas J., assignor.)						
Lea, Sarah W. P., East Orange, N. J. Hook and eye	701,583	June 3	549	120	99	2232
Leabo, Thomas J., assignor to himself, J. H. Shurtz, and M. A. Lea, Chanute, Kans. Fluid-pressure brake	711,404	Oct. 14	1932	421	101	417
Leach, Albert, Brockton, Mass. Curtain-fixture	700,951	May 27	3583	824	99	1963
Leach, Amos W., Indiana, Ind. Safety device for elevators	704,491	Sept. 23	2913	650	100	2627
Leach, Eugene W., assignor of one-half to W. Q. Morton, Racine, Wis. Kitchen utensil	698,120	Apr. 22	3260	713	99	739
Leach, Frederick, Oradell, N. J. Watch-movement holder	694,165	Feb. 25	3720	821	98	1625
Leachman, George L., New Cumberland, W. Va. Slicer	717,223	Dec. 30	5139	1114	101	2987
Leadbeater, Frederick, Detroit, Mich. Automatic boiler-feeder	690,445	Jan. 7	111	24	98	26
Leader Manufacturing Company. (See Post, John H., assignor.)						
Leahy, Louis K., Los Angeles, Cal. Hydrocarbon-burner	709,782	Sept. 23	3450	776	100	2736
Leak, William C., assignor of one-half to O. Graff and A. Head, San Antonio, Tex. Non-refillable bottle	691,553	Jan. 21	2231	502	98	500
Leali, Charles, Kingsland, Ark. Fence-post	700,431	May 20	2553	592	99	1738
Lean, Emerson O., Mansfield, Ohio. Shaft hanger and bearing	712,392	Oct. 28	3820	834	101	840
Lear, Henry, Newport, Ky. Combined coasting hub and brake for bicycles	712,556	Nov. 4	189	45	101	937
Learned, Andrew B. (See James, Albert E., assignor.)						
Learned, George A., Detroit, Mich. Combination high chair	706,835	Aug. 12	1621	364	100	1466
Learned, Rufus F., Natchez, Miss. Ice-making machine	714,944	Nov. 25	3929	870	101	1755
Leary, Peter. (See Toal, John A., assignor.)						
Leary, William A., Washington, D. C. Pencil-case	709,337	Sept. 16	2558	575	100	2540
Leary, William J., Buffalo, N. Y. Paving brick or block	710,662	Sept. 30	4000	902	100	2864
Leas, William G., assignor of one-half to J. Hartig, Seattle, Wash. Nipple-chuck	698,718	Apr. 29	4416	974	99	1000
Lease, William H., Cincinnati, Ohio. Candy-box	695,741	Mar. 18	2616	594	98	2293
Leasor, Wesley P., et al. (See Cardella, Alexander S., assignor.)						
Leatherman, Martin, Garden City, Minn. Vehicle-drag	691,554	Jan. 21	2232	502	98	500
Leaverton, Richard L., Springfield, Ill. Post-hole digger	693,801	Feb. 18	2990	661	98	1460
Leavitt, Frank M., Brooklyn, N. Y. Portable automatic hammering-tool	715,277	Dec. 9	1193	254	101	2098
Leavitt, Frank M., assignor to E. W. Bliss Company, Brooklyn, N. Y. Generation of power from compressed air	693,871	Feb. 25	3139	695	98	1509
Leavitt, Frank M., assignor to E. W. Bliss Company, Brooklyn, N. Y. Propulsion of torpedoes, &c. by compressed air	693,872	Feb. 25	3143	695	98	1509
Leavitt, Frank M., assignor to E. W. Bliss Company, Brooklyn, N. Y. Condensing pumping-engine	704,054	July 8	1260	272	100	265
Leavitt, Frank M., New York, N. Y., assignor to American Can Company, Jersey City, N. J. Can-heading machine	702,138	June 10	1540	347 348 349	99	2443
Lebel, Hyacinthe. (See Philipps, Lebel, and Grimon-Sanson.)						
Lebenheim & Sons, J. (See Reid, James B., assignor.)						
Lebens, John M., Jordan, Minn. Box and buckle device for harness	716,253	Dec. 16	3121	683	101	2519
Leblanc, Adolphe D., Montreal, Canada. Ratchet screw-driver	711,169	Oct. 14	1484	320 321	101	324
Leblanc, Alfredo, Havana, Cuba. Tobacco-smoking device	696,346	Mar. 25	3418	851	98	2556
Leblanc, Alfredo, Havana, Cuba. Cigarette-cartridge and blank for making same	716,339	Dec. 16	3276	716	101	2550
Leblanc, Edouard, Grenoble, France. Glove	704,551	July 15	2332	483	100	482
Leblanc, Nazaire, Lowell, Mass. Cash and parcel carrier	714,202	Nov. 25	3401	749 750	101	1652
Lebret, Adrian. (See Vosmaer and Lebret.)						
Leckband, Theodor H., Adair, Iowa. Carburetor	711,429	Oct. 11	1975	420	101	426
Leckband, Theodor H. J., Adair, assignor of one-half to Mason City Gas and Fuel Company, Mason City, Iowa. Carburetor	707,973	Aug. 26	3840	802	100	1952
Leckner, John M. (See Deane and Leckner.)						
Leclerc, Joseph C., assignor to J. W. Delisle, Quebec, Canada. Shoe-box	715,820	Dec. 16	2239	500	101	2332
Leclerc, Joseph H., Tremblay, and A. Lalumiere, Montreal, Canada. Machine for wiring sheet-metal articles	697,636	Apr. 15	2338	522	99	527
Lecomte, Auguste, Paris, France. Vapor-burner	703,661	July 1	527	119	100	103
Lecoute, Eugene, Estaires, and J. Loiselet, Paris, France. Manufacturing rice-starch or other amylaceous substances	704,340	July 8	1847	400	100	390
Ledbetter, William H., Dallas, Tex. Seed-planter	698,724	Feb. 18	2859	630 631	98	1433
Leddou, George W. (See Moore and Leddou.)						
Lederer, Jacob. (See Block, David L., assignor.)						
Lederer, Sigmund, Providence, R. I. Bracelet	710,105	Sept. 30	4095	924	100	2883
Lederlin, Pierre L. E., Chedde, France. Electrolytic manufacture of chlorates and perchlorates	693,035	Feb. 11	1499		98	1135
Ledovsky, Onofrey, assignor to Company for the Working of the Coupling Valve System						
Ledovsky, St. Petersburg, Russia. Disconnectible pipe-coupling	713,777	Nov. 18	2540	566	101	1453
Ledru, Jérôme, Basécles, Hainaut, Belgium. Acetylene-gas generator	710,159	Sept. 30	4208	948	100	2907

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Ledwinka, Joseph, Chicago, Ill., assignor to Imperial Electric Motor Company. Driving mechanism for motor-vehicles	715,821	Dec. 16	2240	500	101	2332
Ledwinka, Joseph, assignor to Imperial Electric Motor Company, Chicago, Ill. Automobile	716,065	Dec. 16	2750	606	101	2443
Lee, Alfred S., Richmond, Va. Insecticide-distributor	691,948	Jan. 28	2991	672	98	674
Lee, Alla E., assignor of one-half to J. F. Frost, Lynn, Mass. Belt-buckle	697,855	Apr. 15	2737	606	99	614
Lee, Charles A. (See Grosjean, Wallace D., assignor.)						
Lee, Charles A. (See McCammon and Lee.)						
Lee, Charles F. (See Curtis, Arthur W., assignor.)						
Lee, Charles F., assignor of one-half to W. Scripps, Astoria, Ill. Gate-opener	697,501	Apr. 15	2090	464	99	478
Lee, Charles T., Boston, Mass. Treating vegetable fiber	713,116	Nov. 11	1235		101	1168
Lee, Charles T., Boston, Mass., assignor to Bagasse Pulp Company. Reducing fibrous material to pulp	701,271	May 27	4175		99	2085
Lee, David A., and F. Glessner, Shelbyville, Ind. Brick-machine	694,394	Mar. 4	112	25, 26	98	1736
Lee, Dwight B., Springfield, Mass., assignor to Union Manufacturing & Specialty Company, Buffalo, N. Y. Wrench	701,584	June 3	551	120	99	2222
Lee, Edgar, <i>et al.</i> (See Lee, Thomas L., assignor.)						
Lee, Edward, Leeds, England. Printing-machine	702,189	June 10	1543	349	99	2444
Lee, Elmer, New York, N. Y. Reservoir for dispensing liquid soap	708,652	Sept. 9	1171	267	100	2329
Lee, Elmer, New York, N. Y. Apparatus for calling expressmen, &c	713,778	Nov. 18	2541	566	101	1453
Lee, Frank L., Farmington, Mich. Cultivator	716,725	Dec. 23	4041	885	101	2728
Lee, George B. (See Hatfill and Lee.)						
Lee, George S., Hawthorne, N. J. Vehicle-wheel	709,546	Sept. 23	3021	672	100	2648
Lee, George S., Hawthorne, N. J. Hose-pipe connection	713,117	Nov. 11	1236	281	101	1168
Lee, George S., Hawthorne, N. J. Vehicle-wheel	713,226	Nov. 11	1447	328	101	1120
Lee, George S., Hawthorne, N. J. Universal union or coupling	714,311	Nov. 25	3616	735	101	1094
Lee, George S., Hawthorne, N. J., assignor to Wheel Within Wheel Company, New York, N. Y. Vehicle-wheel	700,514	May 20	2752	630	99	1773
Lee, George S., Hawthorne, N. J., assignor to Wheel Within Wheel Company, New York, N. Y. Vehicle-wheel	700,515	May 20	2753	630	99	1774
Lee, George S., Hawthorne, N. J., assignor to Wheel Within Wheel Company, New York, N. Y. Vehicle-wheel	700,516	May 20	2753	631	99	1774
Lee, J. W., <i>et al.</i> (See Wright, William J., assignor.)						
Lee, John. (See Adeock, William, assignor.)						
Lee, John, San Francisco, Cal. Can-body blank	695,462	Mar. 18	2104	474	98	2189
Lee, John, San Francisco, Cal., assignor to American Can Company, Jersey City, N. J. Machine for applying solder to metal blanks	705,937	July 29	5035	1097	100	1078
Lee, John A., Milton, Mass. Duplicating device	714,806	Dec. 2	311	68	101	1900
Lee, John C., Brookline, and E. H. Colpitts, Boston, Mass., assignors to American Telephone and Telegraph Company. Magneto core for inductance-coils	705,985	July 29	5030	1096	100	1078
Lee, John C., Brookline, and E. H. Colpitts, Boston, Mass., assignors to American Telephone and Telegraph Company. Loaded electric circuit	705,986	July 29	5034	1097	100	1078
Lee, John E., Conshohocken, Pa. Shield for vaccinations, &c	697,637	Apr. 15	2342	523	99	528
Lee, Joseph, Boston, Mass., assignor, by mesne assignments, to National Bread Company, New York, N. Y. Machine for mixing and kneading dough or analogous materials	696,575	Apr. 1	326	76, 77	99	73
Lee, Joseph W. (See Wilde and Lee.)						
Lee, Marion, and W. W. Bryan, assignors to W. M. Fanning, Angola, Ind. Hot-air furnace	700,664	May 20	3000	1687	99	1827
Lee, Ole H., <i>et al.</i> (See Baillard, Edward W., assignor.)						
Lee, Orlan S., Parsons, Tex. Baling-machine	694,166	Feb. 25	3723	821 822 823 824	98	1626
Lee, Phillip. (See Wright, Earl E., assignor.)						
Lee, Thomas, Home City, Ohio. Fire-resisting window	699,689	May 13	1085	253	99	1411
Lee, Thomas B., Farmington, N. Mex. Ter. Gold-dredge	696,576	Apr. 1	329	77	99	73
Lee, Thomas L., assignor of one-half to G. Stearns, E. and T. L. Lee, Jr., Memphis, Tenn. Paint	701,743	June 3	835		99	2283
Lee, Thomas M., and G. W. Hartson, White Pigeon, Mich. Railway-tie	712,943	Nov. 4	904	211	101	1081
Lee, William, Los Gatos, Cal. V-bicle-wrench	714,922	Dec. 2	572	121	101	1950
Lee, William B., Bradford, England. Machine for balling or winding slivers of fibrous materials	711,982	Oct. 28	3084	676	101	690
Lee, William P., Fairfax, Minn. Vehicle attachment	695,742	Mar. 18	2617	594	98	2293
Lee, William R., Marion, Ill. Apparatus for recovering minerals carried off in the fumes from smelting-furnaces	704,199	July 8	1568	338	100	328
Lee, William R., St. Clair, Nev. Scoop and scraper	706,886	Aug. 12	1622	364	100	1467
Lee, William T., Altoona, Pa. Mailing-envelope	710,430	Sept. 30	4283	965	100	2926
Lee, Willis C., and M. F. Moore, Chicago, Ill. Rail-clamp	703,430	July 1	1115	20	100	25
Lee, Worthy, Bluehill, Nebr. Grain-scourer	696,577	Apr. 1	330	78	99	73
Leech, Charles M., and S. D. Evans, Lima, Ohio. Driving-gear	691,151	Jan. 14	1453	332	98	318
Leech, Robert D., New York, N. Y. Gas-main stopper	716,641	Dec. 23	3899	852	101	2698
Leedy, John K., Roanoke, Va. Ship	696,103	Mar. 25	3320	749	98	2454
Leehart, Karl B., Lucas, Iowa. Traction-engine driving-wheel	697,320	Apr. 8	1633	367	99	263
Leek, Frank C., Surrey, Ind. Shingling carriage and gage	710,281	Sept. 30	4427	998	100	2956
Leen, John D., Braggville, Me. Self-handling nail-cabinet	693,525	Feb. 18	2481	544	98	1356
Leeper, John F., Alton, Ill. Corn-harvester	712,557	Nov. 4	191	45	101	937
Lees, Albert, New Bedford, Mass. Electric-arc lamp	699,196	May 6	121	32	99	1200
Lees, Ernest J. (See Smith and Lees.)						
Lees, George, Chicago, Ill., assignor to himself, and C. C. Hovey, Bainbridge, N. Y. Apparatus for canning food	697,561	Apr. 8	1639	367	99	369
Lees, George C., Shelton, Conn. Spacing device	699,923	May 13	1551	357	99	1509
Lees, George E. (See Griffiths, Griffith W., assignor.)						
Lees, George M., Dublin, Ireland. T-square	703,140	June 24	3441	789	99	2869
Lees, Henry T., Brooklyn, N. Y. Steam or vapor turbine	713,997	Nov. 18	2973	662	101	1543
Leese, Thaddeus S., Bellview, Pa. Regenerative gas-lamp	713,460	Nov. 11	1915	433	101	1307
Leese, Emil, Chicago, Ill. Manifold device	704,891	July 15	2638	614	100	608
Leeson, George, Lake City, Minn. Washboard	707,126	Apr. 19	2146	481	100	1590
Leeson, George, Lake City, Minn. Drive-wheel point and strainer	717,420	Dec. 30	5481	1189	101	3057
Leet, Lynn T., Montreal, Canada. Apparatus for making sand bricks	714,807	Dec. 2	312	68	101	1901
Leetham, Richard E., York, England. Structure for storage and delivery of merchandise	699,690	May 13	1088	254 255	99	1412
Leezer, James E., and W. R. McPherson, Tarentum, Pa. Automatic shut-off for gas-lines	696,827	Apr. 1	812	187	99	172



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Lefebvre, Armand, Paris, France, assignor to Electric Lighting Boards, Limited, London, England. Contact for electrical glow-lamps.	697,856	Apr. 15	2738	607	99	614
Lefebvre, Henry D., Alpena, Mich. Wheel.	713,998	Nov. 18	2973	662	101	1543
Lefevre, Charles F., Syracuse, N. Y. Single-trigger mechanism for firearms.	715,490	Dec. 9	1592	345	101	2173
Lefevre, Edwin, Climax, Ohio. Insulator.	710,282	Sept. 30	4429	998	100	2950
Lefevre, Emile. (See Fulton, Lefevre, and Copeland.)						
Lefferts, Henry D., New Brunswick, N. J. Bicycle-tire.	709,021	Sept. 16	1932	444	100	2406
Leffler, Charles, Brooklyn, N. Y. Bottle-labeling machine.	699,884	May 13	1483	341	99	1406
Leffwich, Andrew B., assignor of one-half to E. E. Scantlin, Pueblo, Colo. Reversing valve-gear.	703,936	July 1	1033	224	100	206
Legg, Albert, Allendale, N. J. Hydraulic engine.	716,254	Dec. 16	3122	684	101	2520
Legrand, Jean P., Levallois-Perret, France. Resilient tire for wheels.	716,907	Dec. 30	4501	977	101	2850
Lehman, George G. (See Stern and Lehman.)						
Lehman, Henry B., Negaunee, Mich. Twine-holder.	712,558	Nov. 4	192	45	101	987
Lehman, Isador, Cleveland, Ohio. Shaft-coupling.	705,366	July 22	3933	832	100	844
Lehman, Martin, Kansas City, Mo. Electric announcer.	692,867	Feb. 11	1152	257	98	1060
Lehman, Robert J. (See Shick, Lehman, and Walker.)						
Lehmann, Adolf, New York, N. Y. Machine for turning irregular forms.	695,743	Mar. 18	2618	594	98	2293
Lehmann, Frederic, Allegheny, Pa. Lamp-burner.	708,368	Sept. 2	668	150	100	2117
Lehmann, Jacob, and H. Maurer, Bockenheim, Germany. Double-working planing-machine.	705,852	July 29	4885	1062	100	1049
Lehmann, Max, Berlin, Germany. Polishing-block for laundry purposes.	706,967	Aug. 12	1855	415	100	1512
Lehmann, Paul, Berlin, Germany. Automatic gas-ignition device.	691,280	Jan. 14	1696	386	98	369
Lehner, Friedrich, Zurich, Switzerland, assignor to Vereinigte Kunstseide-Fabriken, A. G., Frankfurt-on-the-Main, Germany. Manufacturing artificial horsehair.	713,999	Nov. 18	2975		101	1544
Lehotzky, Lorentz, and S. Furst, McKeesport, Pa. Nut-lock.	698,974	Apr. 29	4912	1086	99	1109
Lehr, Louis, New York, N. Y. Ring-marking machine.	701,585	June 3	552	121	99	2222
Lehr, Michael, Rochester, N. Y. Toy pistol.	692,460	Feb. 4	418	99	98	834
Lehrke, Gustav F., San Francisco, Cal. Coin-depositing apparatus.	714,587	Nov. 25	4111	900	101	1794
Lehrtritter, John A., Denver, Colo. Concentrator.	696,058	Mar. 25	3212	726	98	2430
Leib, Jesse P., Baltimore, Md. Fishing-line attachment.	716,726	Dec. 23	4044	885	101	2728
Leichtentritt, Moses. (See Culver and Leichtentritt.)						
Leick, John, Verona, N. J. Hair-fastener.	691,555	Jan. 21	2234	502	98	501
Leidecker, Frank W., Marietta, Ohio. Check or clack valve.	705,255	July 22	3670	793	100	792
Leidecker, Frank W., Marietta, Ohio. Gage-cock.	711,983	Oct. 28	3085	677	101	691
Leiden, Nicolaus, assignor of one-half to E. H. Munkwitz, Milwaukee, Wis. Hide-working machine.	713,118	Nov. 11	1237	282	101	1168
Leidy, James C., Galesburg, Ill. Car-coupling.	605,615	Mar. 18	2408	546	98	2251
Leidecker, Charles, Lawrenceburg, Ind. Railway-crossing and switch for same.	707,604	Aug. 28	3065	690	100	1798
Leiger, George F., assignor of three-fourths to L. Benedict, Chicago, Ill. Can-testing machine.	704,480	July 8	2085	452	100	438
Leiger, George F., assignor to himself and L. Benedict, Chicago, Ill. Machine for making can-bodies.	693,325	Feb. 11	2086	457	98	1254
Leightham, Joseph, assignor of three-eighths to C. W. Keller, B. F. Pium, W. K. Kauffman, and J. B. Mersinger, Reading, Pa. Advertising-wagon.	696,907	Apr. 1	990	221	99	209
Leighton, Eugene R. (See Hutchison and Leighton.)						
Leighton, George A., assignor to Leighton Machine Company, Manchester, N. H. Rib-knitted pile fabric.	693,409	Feb. 18	2259	494	98	1310
Leighton, Herbert J., Syracuse, N. Y. Steering device for vehicles.	717,421	Dec. 30	5482	1189	101	3058
Leighton & Howard Steel Company. (See Palmquist, Eric W., assignor.)						
Leighton Machine Company. (See Leighton, George A., assignor.)						
Leilich, Edwin F., San Francisco, Cal. Mechanical movement and bed-motion for cylinder printing-machines.	692,679	Feb. 4	821	185	98	967
Leilich, Francis T., San Francisco, Cal. Button-sewing machine.	692,680	Feb. 4	825	186	98	968
Leilich, Francis T., assignor of one-half to J. G. Simonton, San Francisco, Cal. Bar-stitching machine.	705,256	July 22	3671	794	100	793
Leilich, Francis T., assignor of one-half to J. G. Simonton, San Francisco, Cal. Button-hole-sewing machine.	705,257	July 22	3679	795	100	793
Leinberger, John T., and J. G. Schmidt, Frankenlust Township, Bay county, Mich. Sugar-beet plow.	706,795	Aug. 12	1488	330	100	1437
Leinberger, Joseph. (See Meininghaus, Eduard, assignor.)						
Leineweber, Herman, Chicago, Ill., assignor to Land L Pneumatic Tool Company. Rock-drill.	691,556	Jan. 21	2235	503	98	501
Leininger, Harriet M., Columbia City, Ind. Camp-stove.	716,560	Dec. 23	3741	815	101	2663
Leiser, Charles. (See Fishbeck, Fream, assignor.)						
Leistner, Carl, London, England. Machine for making glass bottles.	704,055	July 8	1264	273	100	265
Leitmayr, Bernhard, Molln, Austria-Hungary. Circular saw.	697,857	Apr. 15	2739	607	99	614
Leitschuh, Joseph. (See Ohmer and Leitschuh.)						
Leland, Edwin A., assignor to F. H. Wright, Great Barrington, Mass. Boller.	698,725	Feb. 18	2808	681	99	1435
Leland, Edwin A., assignor to F. H. Wright, Great Barrington, Mass. Boller, &c.	710,786	Oct. 7	754	160	101	154
Leland, Frank J., Knoxville, Tenn. Eyelet.	697,344	Apr. 8	1778	398	99	398
Leland, Frank J., Knoxville, Tenn. Lathe for turning irregular forms.	703,798	July 1	783	172	100	157
Leland, William L., Sisson, Cal. Log-turner.	702,974	June 24	3127	719	99	2807
Lelong, Achille, Villers Poteries, Belgium. Lightning-conductor.	693,555	Feb. 18	2532	558	98	1366
Lemaire, Felix, Paris, France. Detonator for railways.	703,283	June 24	3089	849	99	2918
Lemaire, Timothy, assignor of one-half to G. H. Bell, Troy, N. Y. Clothes-line holder.	705,191	July 22	3331	723	100	724
Lemboke, Charles F., Valparaiso, Ind. Rotary explosive-engine.	694,557	Mar. 4	432	93	98	1804
Lemboke, Emil L., New York, N. Y. Spring-clamp, for lenses or the like.	702,803	June 17	3782	639	99	2714
Lemcke, Charles F., assignor of one-half to J. Milbauer, Milwaukee, Wis. Floor-rubber.	702,569	June 17	2348	537	99	2628
Lemire, Joseph, Drummondville, assignor to L. A. Brien, St. Germain de Grantham, Quebec, Canada. Curd-cutter.	702,105	June 10	1489	835	99	2432
Lemley, David, New Orleans, La. Gate-valve.	693,036	Feb. 11	1502	327	98	1135
Lemma, George N. (See Smith and Lemma.)						
Lemma, John M., Des Moines, Iowa. Removable tray for elevator-boots.	697,502	Apr. 15	2062	464	99	479
Lemoine, Francis T., et al. (See Hackett, George H., assignor.)						
Lemon, Charles H., Milwaukee, Wis. Step.	693,037	Feb. 11	1503	328	98	1135
Lemon, Charles R., Scio, Ohio. Corn-holder.	693,284	Feb. 11	2014	438	98	1238
Lemon, Frank L., Lincoln, Nebr. Pin-bender.	715,674	Dec. 9	1993	433	101	2248
Lemon, William A., and W. H. Otto, Cincinnati, Ohio. Shaving-cup.	716,067	Dec. 16	2754	607	101	2444

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Lemos, Leon, San Francisco, Cal. Pin-fastener for show-cards	694,063	Feb. 25	3539	780	98	1588
Lemos, Leon, San Francisco, Cal. Suspender and garment clamp	694,064	Feb. 25	3539	780	98	1588
Lemp, Hermann, Lynn, assignor to E. Thomson, Swampscott, Mass. Steering mechanism for automobile vehicles	692,868	Feb. 11	1153	257 258	98	1061
Lemp, Hermann, Lynn, assignor to E. Thomson, Swampscott, Mass. Steering mechanism for vehicles	692,869	Feb. 11	1159	258	98	1062
Lemp, Hermann, Lynn, assignor to E. Thomson, Swampscott, Mass. Motion-checking device	692,871	Feb. 11	1168	259	98	1064
Lemp, Hermann, Lynn, assignor to E. Thomson, Swampscott, Mass. Vehicle-brake	692,872	Feb. 11	1171	259 260	98	1065
Lemp, Hermann, Lynn, assignor to E. Thomson, Swampscott, Mass. Steering mechanism for vehicles	692,873	Feb. 11	1172	260	98	1065
Lemp, Hermann, Lynn, assignor to E. Thomson, Swampscott, Mass. Motion-checking device	692,875	Feb. 11	1178	261 262	98	1066
Lemp, Hermann, Lynn, assignor to E. Thomson, Swampscott, Mass. Motion-checking device	692,876	Feb. 11	1181	262	98	1067
Lemp, Hermann, Lynn, assignor to E. Thomson, Swampscott, Mass. Steering-check for automobiles	692,877	Feb. 11	1184	262	98	1068
Lemp, Hermann, Lynn, assignor to E. Thomson, Swampscott, Mass. Brake for vehicles	692,878	Feb. 11	1187	263	98	1068
Lemp, Hermann, Lynn, assignor to E. Thomson, Swampscott, Mass. Steering mechanism for automobiles	692,879	Feb. 11	1188	263	98	1069
Lemp, Hermann, Lynn, assignor to E. Thomson, Swampscott, Mass. Support for motors of self-propelled vehicles	692,880	Feb. 11	1192	264 265	98	1069
Lemp, Hermann, Lynn, assignor to E. Thomson, Swampscott, Mass. Automobile	710,063	Sept. 30	4001	93	100	2864
Lemp, Hermann, Lynn, assignor to E. Thomson, Swampscott, Mass. Vehicle-frame	714,808	Dec. 2	313	69	101	1901
Lemp, Hermann, Lynn, Mass., assignor to General Electric Company. Controller for automobile vehicles	692,870	Feb. 11	1161	258 259	98	1063
Lemp, Hermann, Lynn, Mass., assignor to General Electric Company. Electric automobile	692,874	Feb. 11	1174	261	98	1066
Lemper, Henry P., Galena, Ill. Barrel or cask	711,984	Oct. 28	3087	677	101	691
Lemyre, Joseph E., Manchester, N. H., assignor, by mesne assignments, to Textile Machinery Improvement Company. Warp stop-motion for looms	692,316	Feb. 4	172	40	98	834
Leuchères, Geoffroy L. de, Vierzon, France. Composition of matter	702,140	June 10	1544	349	99	2444
Leuchères, Geoffroy L. de, Vierzon, France. Railway construction	702,141	June 10	1545	350	99	2444
Lenk, Carl P., et al. (See Nutry, John, assignor.)						
Lenk, Rudolph, et al. (See Nutry, John, assignor.)						
Lennard-Foote, William, Brooklyn, N. Y. Paint	705,938	July 29	5038		100	1079
Lennard, Michael J. (See Kintz and Lennard.)						
Lennon, Joseph P., and C. E. Banks, New York, N. Y. Turbine	713,461	Nov. 11	1917	433 434	101	1307
Lennon, Watson S., Tucson, Ariz. Ter. Car-coupling	700,338	Sept. 16	2559	575 576	100	2540
Lennon, Watson S., Tucson, Ariz. Ter. Car-coupling	710,283	Sept. 30	4430	998	100	2356
Lennox, Alexander, Harrison, N. J., assignor to Singer Manufacturing Company. Sewing-machine guide	704,200	July 8	1569	339	100	329
Lenox, George C. L., London, England. Mooring block or clump	709,914	Sept. 30	3725	839	100	2806
Lenz, Albert E. (See Stevens, Frederick A., assignor.)						
Lenzen, Bertram, assignor of one-half to G. C. Rueckert, Providence, R. I. Ring-tray	710,475	Oct. 7	141	33	101	30
Lenzner, Franklin, Cass City, Mich. Carpet-stretcher	715,396	Dec. 9	1415	305	101	2144
Leonard, Arthur G., trustee. (See Graffam, Alonzo, assignor.)						
Leonard, Charles N., assignor to Indiana Manufacturing Company, Indianapolis, Ind. Straw-stacker	713,119	Nov. 11	1241	282 283	101	1169
Leonard, Charles T. (See Bye, Mary A., assignor.)						
Leonard, Chester S., assignor of one-half to F. J. Wise, Philadelphia, Pa. Reversing-valve mechanism	692,204	Jan. 28	3452	781	98	767
Leonard, Eva C., Thompson, Pa. Portable stove	707,243	Aug. 19	2367	531	100	1637
Leonard, H. Ward. (See Ball, Henry P., assignor.)						
Leonard, H. Ward. (See Hewlett, Edward M., assignor.)						
Leonard, H. Ward. (See Leonard and Ball, assignors.)						
Leonard, H. Ward. (See Westover, Henry J., assignor.)						
Leonard, Harry W. (See Woods, Granville T., assignor.)						
Leonard, Harry W., New York, N. Y. Support for electric conductors and resistances	691,949	Jan. 28	2993	673	98	674
Leonard, Harry W., New York, N. Y. Multiple control system	696,247	Mar. 25	3605	807 808	98	2510
Leonard, Harry W., Bronxville, N. Y. Resistance for rheostats, electric heaters, &c.	707,244	Aug. 19	2368	531	100	1637
Leonard, Harry W., Bronxville, N. Y. Control of electric motors	709,915	Sept. 30	3726	840	100	2806
Leonard, Harry W., Bronxville, N. Y. Controlling electric motors	709,916	Sept. 30	3730	840	100	2807
Leonard, Harry W., East Orange, N. J. Controlling the energy delivered to electrical translating devices	709,714	Sept. 23	3302	742	100	2707
Leonard, Harry W., New York, and H. P. Ball, Mount Vernon, assignors, by mesne assignments, to H. W. Leonard, Bronxville, N. Y. Electric-circuit breaker	705,102	July 22	3332	723 724	100	734
Leonard, John H., Woodland, Cal. Nut-lock	714,809	Dec. 2	315	69	101	1901
Leonard, Samuel, Hollidaysburg, assignor of one-half to W. A. Loudon, Altoona, Pa. Trolley-wire bracket	692,681	Feb. 4	1238	187	98	969
Leonard, Stephen R., assignor to Oneida Community, Ltd., Kenwood, N. Y. Animal-trap	716,255	Dec. 16	3124	684	101	2520
Leonard, Sylvester S., Chicago, Ill. Suspension-clamp for electric conductors	693,410	Feb. 18	2260	495	98	1310
Leonard, William A., Wareham, Mass. Gas-engine	708,526	Sept. 2	442	101	100	3371
Leonard, Wilmer, Port Wayne, Ind. Railway-rail	715,096	Dec. 2	368	185	101	2014
Leonhard, Henry W. (See Smith and Leonhard.)						
Leonhardt, William, Baltimore, Md. Dumping-wagon	709,715	Sept. 23	3307	742	100	2707
Leonhardt, William, Baltimore, Md. Dumping cart or wagon	709,716	Sept. 23	3308	742	100	2708
Leoni, Philippe, Paris, France. Soap-saver	711,873	Oct. 21	2848	629 630	101	625
Lepetit, Roberto, and E. Tagliani, Snsa, Italy. Making extract dyes	704,843	July 15	2753		100	589
Lepper, John G., Waterbury, assignor of one-third to R. C. Blakeslee, Torrington, Conn. Oscillating-piston steam-engine	694,485	Mar. 4	272	61, 62	98	1770
Lepper, Henry E., New Britain, Conn. Electric cut-out	691,394	Jan. 21	1969	441	98	415
Leppo, David M. (See Leppo, James B., and D. M.)						
Leppo, James B. and D. M., assignors of one-third to T. Hall, Mansfield, Ohio. Carbureter for explosive-engines	711,902	Oct. 21	2900	641	101	635
Leys, Karl, Hamburg, assignor to J. von Donat, Leipsic, Germany. Submarine permanent way	694,486	Mar. 4	273	62	98	1770
Lesh, Daniel, West Fairview, assignor of one-half to D. L. Kaufman, Highspire, Pa. Spirit-level	691,063	Jan. 14	1317	298	98	290



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Leshner, Jacob G., Greencastle, Pa. Antirattler and bolt-lock for thill-couplings.	711,636	Oct. 21	2343	522	101	535
Leshner, John T., Berryburg, Pa. Stove	695,744	Mar. 18	2620	535	98	2294
Lesley, Hugh, assignor to Electric Storage Battery Company, Philadelphia, Pa. Tank for storage batteries	704,751	July 15	2574	555	100	552
Lesley, Theodore, et al. (See Yonge, Chandler I., assignor.)						
Leslie, Benjamin P., Brooklyn, N. Y., assignor to Naething-Leslie Tiling Company. Tile	698,031	Apr. 22	3058	672	90	698
Leslie, John A., Westerly, R. I. Shoe-lace holder	694,653	Mar. 4	602	132	98	1840
Leslie, John H. (See Nord, Olof N., assignor.)						
Leslie, John E., et al. (See Lindsay, Robert F., assignor.)						
Leslie, Loren L., Hillsdale, Mich. Fence post and brace	693,235	Feb. 11	2015	439	98	1238
Leslie, Silas W., Chicago, Ill., assignor of one-half to A. H. Wegemann, Lakemills, Wis. Rail-joint	697,858	Apr. 15	2741	608	99	615
Leslie, Thomas G., East Melbourne, Victoria, Australia. Door-latch-operating device	695,319	Mar. 11	1871	416	98	2121
Lespérance, Joseph A., Montreal, Canada. Folding bed	711,495	Nov. 25	3932	1570	101	1756
Lesser, Lewis, New York, N. Y. Bottle	715,591	Dec. 9	1790	397	101	2218
Lester, Daniel M., Norwich, Conn. Adjustable platen	709,339	Sept. 16	2561	576	100	2540
Lester, Haviland, Binghamton, N. Y., assignor to Crandal, Stone & Company. Carriage-curtain fastener	713,892	Nov. 18	2768	615	101	1500
Lester, James H., Roanoke, Va. Insect-destroying compound	709,783	Sept. 23	3452		100	2737
Lester, James S., Atlanta, Ga. Vault	716,068	Dec. 16	2755	608	101	2444
Lester, Robert C., Mapleton, N. D. Gold-separator	699,885	May 13	1485	341	99	1498
Letombe, Léon A. C., Paris, France. Gas-motor	712,933	Oct. 28	3822	835	101	841
Letourneau, Frederick H. (See Wixted, Edward F., assignor.)						
Letourneau, John B., Brockton, Mass. Sash-fastener	710,590	Oct. 7	375	78, 79	101	75
Letson, James M. K., and F. W. Burpee, Vancouver, Canada. Soldering-machine	697,345	Apr. 8	1779	398	99	396
Letson, James M. K., and F. W. Burpee, Vancouver, Canada. Closure for retorts	710,476	Oct. 7	142	33	101	31
Letts, Ellsworth M., assignor of one-half to E. Gamble, Waverly, N. Y. Vehicle-brake	699,962	May 13	1627	374	99	1524
Letts, Jeremiah S., Gladstone, N. D. Fire-extinguishing apparatus	703,063	July 1	528	119	100	104
Leu, Bertha, and V. Sjostrom, Los Angeles, Cal. Combination comb and hat-fastener	712,691	Nov. 4	417	98	101	984
Leuba, James H., Bryn Mawr, Pa. Book-support	702,307	June 10	1825	417	99	2500
Leuchter, August, Brooklyn, N. Y. Producing negative plates for bichromated-gelatin processes	710,106	Sept. 30	4096	925	100	2883
Leuthesser, Fred W., assignor to Monash-Younger Company, Chicago, Ill. Air-valve for radiators	695,616	Mar. 18	2411	546	98	2252
Leuthesser, Fred W., assignor to Monash-Younger Company, Chicago, Ill. Air-valve for radiators	715,097	Dec. 2	869	185	101	915
Leuthesser, Fred W., assignor to C. P. Monash, Chicago, Ill. Bottle-closure	711,430	Oct. 14	1976	429	101	426
Levalley, Christopher W., Milwaukee, Wis. Casting sprocket-wheels	694,395	Mar. 4	114	26	98	1737
Levalley, Christopher W., Milwaukee, Wis. Drive-chain	694,870	Mar. 4	1030	228	98	1930
Levalley, Christopher W., Milwaukee, Wis. Chain conveyor	700,342	May 20	2418	552	99	1704
Levalley, Christopher W., Milwaukee, Wis. Drive-chain	706,427	Aug. 5	856	188	100	1287
Levalley, Christopher W., Milwaukee, Wis. Chain	713,120	Nov. 11	1248	283	101	1170
Levalley, Christopher W., Milwaukee, Wis. Set-collar for shafting	713,227	Nov. 11	1449	323	101	1211
Leve, Robert E., New York, N. Y. Handle for making and breaking circuits	691,557	Jan. 21	2238	504	98	501
Leve, Robert E., New York, N. Y. Cloth-cutter	690,399	May 6	521	119	99	1282
Leveille, Enger, Grindstone, Me. Combined spoke-fastener and tire-tightener	696,458	Apr. 1	116	28	99	30
Level, Samuel A., Hot Springs, Ark. Protector-pod for corns	694,762	Mar. 4	821	182	98	1886
Leven, Adolph, Cologne, Germany. Protection against shot from hand firearms and artillery	709,100	Sept. 16	2100	481	100	2443
Leveque, Nathanael, assignor of one-half to J. Marshall and Brothers, Fall River, Mass. Hat-stiffening machine	708,054	Sept. 2	106	25	100	2443
Lever Brothers. (See Meek, Joseph, assignor.)						
Levergood, Jacob P., Wrightsville, Pa. Trunk	696,685	Apr. 1	545	125	99	118
Levering, Orpheus D. (See Runyan and Levering.)						
Levey, John, Chicago, Ill. Cooling coil and tank	691,786	Jan. 28	2704	608	98	616
Levey, John, and T. Sadler, Lindsay, Canada. Marine-engine governor	701,060	May 27	3792	869	99	2008
Levi, Abram L. (See Ellenbogen and Levi.)						
Levi, Edward, Zurich, Switzerland. Molding-box for the manufacture of building-stones	706,495	Sept. 23	2914	650	100	2627
Levi, Harry. (See Lamplugh and Levi.)						
Levi, Philip, New York, N. Y. Composition for cleaning and polishing	693,556	Feb. 18	2532		98	1366
Levian, Edward A. (See Lundberg, Adolf S. and F. L., assignors.)						
Levick, Edward A., Duryea, Pa., assignor of two-thirds to Scranton Glass Mfg. Company. Bottle-closure	705,103	July 22	9339	724	100	726
Levin, Judah L., Detroit, Mich. Adding-machine	706,000	July 29	5143	1122	100	1101
Levin, Max. (See Brackett, Hermann, assignor.)						
Levine, Nathn. Boston, Mass. Folding bed-lounge	714,688	July 15	2450	529	100	528
Levinstein, Ivan, and C. Mensching, Manchester, England. Black sulfur dye and making same	706,969	Aug. 12	1857		100	1512
Levinstein, Ivan, and C. Mensching, assignors to Levinstein, Limited, Manchester, England. Black sulfur dye and making same	702,369	June 10	1946		99	2524
Levinstein, Limited. (See Levinstein and Mensching, assignors.)						
Levis, Thomas R. (See Pugh, William J., assignor.)						
Levison, Alexander, San Francisco, Cal. Manifest book	694,103	Feb. 25	3602	797	98	1901
Levison, Alexander, San Francisco, Cal. Manifest book. (Reissue.)	12,005	July 1	1119	242	100	221
Levison, Alexander, San Francisco, Cal. Manifest-book and carbon therefor	710,160	Sept. 30	4210	948	100	2907
Levitz, Edwin D., Monticello, Wis., and J. W. Polchow, Apple River, Ill. Keyless pin or bolt	700,788	May 27	3288	755	99	1905
Levitt, Robert W., Somerset, Ohio. Snap-hook	701,586	June 3	553	121	99	2223
Levy, Abraham B. (See Hedden, Hiram J., assignor.)						
Levy, Alexander, Hagenau, Germany. Applicator	701,587	June 3	553	121	99	2223
Levy, Felix. (See Hinklein, Johannes, assignor.)						
Levy, Frank L., Duluth, Minn. Cutter	701,061	May 27	3793	869	99	2008
Levy, Henri. (See Schoenberg and Levy.)						
Levy, Isaac, Philadelphia, Pa. Necktie, bow, &c.	703,141	June 24	3442	789	99	2869
Levy, Leopold C., Blénoy-les-Pont-à-Mousson, France. Educational appliance	690,346	Jan. 7	113	25	98	26
Levy, Moritz, New York, N. Y. Shoe-polishing machine	707,703	Aug. 26	3276	732	100	1842
Levy, Thomas J., and M. Anderson, Liberty, Ariz. Terr. Grain-elevator	714,203	Nov. 25	3407	750	101	1653
Lewellen, John W., Philadelphia, Pa. Oil-burner	705,313	July 22	4013	868	100	862
Lewellen, John W., Philadelphia, Pa. Oven or furnace	710,284	Sept. 30	4432	990	100	2957
Lewenthal, Isaac, assignor to Royal Metal Manufacturing Company, New York, N. Y. Belt	698,297	Apr. 22	3578	789	99	807
Lewers, William J., Wilkesbarre, Pa. Game-counter	701,488	June 3	578	85	99	2186
Lewicki, Leonidas, Dresden, Germany. Steam-boiler	713,462	Nov. 11	1919	434	101	1308
Lewin, Jacob, Cleveland, Ohio. Vise	717,422	Dec. 30	5484	1190	101	3058

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Lewin, William. (See Vogelsang, August A., assignor.)						
Lewis, Albert H., assignor of three-fourths to A. G. Quimby, J. C. Shields and P. C. Stevenson, Chrichsville, Ohio. Bolt and fastener therefor	708,486	Sept. 2	879	199	100	2150
Lewis, Charles F., assignor of seventy-seven one-hundredths to L. C. Strymsr and G. B. Wilson, New York, N. Y. Ceiling-rosette for drop-lights	710,787	Oct. 7	756	160	101	155
Lewis, Charles H., Syracuse, N. Y. Tucking-guide for sewing-machines	691,705	Jan. 21	2521	564	98	560
Lewis, David J., Jr., South Orange, N. J. Oil-separating device	716,561	Dec. 23	3742	815 816	101	2663
Lewis, Edward G., assignor to Coin Control Company, St. Louis, Mo. Coin-controlled apparatus for telephones	712,559	Nov. 4	194	46	101	938
Lewis, Edward Z., assignor to General Manifold Company, Franklin, Pa. Manifold memorandum book or pad	704,844	July 15	2754	595	100	589
Lewis, Edwin C., Detroit, Mich. Hoe	702,659	June 17	2514	576	99	2663
Lewis, Elgie J., Middleport, N. Y. Can-testing machine	699,539	May 6	768	181	99	1333
Lewis, Elmer, Saco, Mont. Steel trap	690,970	Jan. 14	1140	258	98	254
Lewis, Frank H., Ann Arbor, Mich. Transmission-gear	717,225	Dec. 30	5141	1115	101	2987
Lewis, Frank S., Baltimore, Md. Automatic switch	699,197	May 6	132	32	99	1201
Lewis, George, Chicago, Ill. Lady's skirt making shoe-peg	698,305	Apr. 22	3423	753	99	774
Lewis, George S., Chicago, Ill. Spring-post for bicycle seats or handle-bars	699,400	May 6	523	120	99	1262
Lewis, George S., assignor to Hunter Arms Company, Fulton, N. Y. Breech-loading gun	694,654	Mar. 4	604	132	98	1840
Lewis, George W., Portsmouth, assignor of one-half to C. A. Nash, Norfolk, Va. Journal-box	693,411	Feb. 18	2261	495	98	1311
Lewis, George W., Portsmouth, assignor of one-half to C. A. Nash, Norfolk, Va. Journal-box	706,243	Aug. 5	463	99	100	1219
Lewis, Harry H., Verona, Pa. Pen-extractor	711,775	Oct. 21	2658	586	101	585
Lewis, Isaac N., Washington, D. C. Range-finder	706,766	Aug. 12	1489	330	100	1437
Lewis, Isaac N., Washington, D. C. Automatic range-finding sight for cannon	706,767	Aug. 12	1492	331 332	100	1437
Lewis, Isaac T., Philadelphia, Pa. Locomotive sand-delivering pipe	709,414	Sept. 16	2723	611	100	2574
Lewis, J. N., et al. (See Jester, John F., assignor.)						
Lewis, John, Brownville, Me. Machine for making shoe-pegs	692,317	Feb. 4	178	40, 41	98	836
Lewis, John S., and D. F. Grow, assignors of three-tenths to L. Wolf, Wabash, Ind. Show-case	704,056	July 8	1270	275	100	267
Lewis, Leopold, New York, N. Y. Graphoscope	709,415	Sept. 16	2725	611	100	2574
Lewis, Lorenzo D., Adams, N. Y. Ventilated box	702,106	June 10	1491	336	99	2432
Lewis, Mortimer G., New York, N. Y. Pipe-wrench	695,463	Mar. 18	2106	474	98	2190
Lewis, Phelps, Yocum, Ky. Wagon-brake	708,564	Sept. 9	1008	228 229	100	2197
Lewis, Philip M., New York, N. Y. Necktie-holder	703,234	June 24	3690	850	99	2918
Lewis & Poinston's Panification. (See Poinston, John E. and C. E., assignors.)						
Lewis, Robert. (See Hinds, John T., assignor.)						
Lewis, Robert L., San Francisco, Cal. Bicycle-tire	696,875	Apr. 1	903	208	99	191
Lewis, Samuel W., Brooklyn, N. Y. Flushing-valve	715,675	Dec. 9	1934	433	101	3249
Lewis, Thomas, Smithfield, Pa. Quilting-frame	701,901	June 10	1109	253	99	2354
Lewis, Thomas E., A. J. Ray, and M. B. Wesson, Fort Worth, Tex. Burner for crude oil	701,902	June 10	1101	252	99	2354
Lewis, Thomas H., London, England. Acetylene-gas generator	698,975	Apr. 29	4913	1085 1086	99	1109
Lewis, Warwick J. (See Place and Lewis.)						
Lewis, Willard I., Walpole, Mass. Lapping-machine	695,160	Mar. 11	1583	352	98	2064
Lewis, Willard I., Walpole, Mass. Lapping-machine	710,107	Sept. 30	4069	932	100	2883
Lewis, William B., et al. (See Reenssterna, Gustaf L., assignor.)						
Lewis, William H. (See Seley, Charles A., assignor.)						
Lewis, William H., Huntington, N. Y., assignor to J. H. Smith, Chicago, Ill. Photographic-printing frame	708,369	Sept. 2	668	151	100	2117
Lewis, William H., Huntington, N. Y., assignor to J. H. Smith, Chicago, Ill. Photographic-plate holder	708,370	Sept. 2	669	151	100	2117
Lewis, William H., and C. A. Seley, Roanoke, Va. Combined pilot coupling and buffer	691,472	Jan. 21	2097	469 470	98	471
Lewis, William T. (See Jones, Thomas X., assignor.)						
Lewisheim, Leopold. (See Palmgren, David, assignor.)						
Lewton, George W., Des Moines, Iowa. Rubber heel for boots or shoes	712,816	Nov. 4	662	153	101	1033
Leyner, John G., Denver, Colo. Rock-drilling engine	709,022	Sept. 16	1934	445	100	2406
Leyson, Sackville G., Solvay, N. Y. Toy	695,689	Mar. 18	2531	573	98	2275
Lezius, Max, Cleveland, Ohio. Means for reversing windows	718,893	Nov. 18	2769	615	101	1501
Liardet, Arthur C. C., New York, N. Y., assignor to Liardet Non Refillable Bottle Company. Non-refillable bottle	692,205	Jan. 28	3455	781	98	767
Liardet Non Refillable Bottle Company. (See Liardet, Arthur C. C., assignor.)						
Libby, Lute B. (See Burnham, Arthur M., assignor.)						
Libenow, Ferdinand E., New Westminster, Canada, assignor to Wash-Board Pail Company, Incorporated, Spokane, Wash. Washpail	704,481	July 8	2087	453	100	439
Liberty Bell Company. (See Rowland, Edward B., assignor.)						
Library Bureau. (See Hanson, Ernest F., assignor.)						
Library Bureau. (See Hunter, David E., assignor.)						
Library Bureau. (See Whitten, Arthur M., assignor.)						
Lichtenstein, David, New York, N. Y. Cap	693,613	Feb. 18	2658	586	98	1391
Lichtenstein, Ella M., New York, N. Y. Toilet-powder box	697,729	Apr. 15	2511	560	99	563
Lichter, Malvin, New York, N. Y. Calendar	700,059	May 18	1794	416	99	1557
Lichter, Frederick, Milwaukee, Wis. Fence	692,461	Feb. 4	420	99	98	885
Lichtig, Bernat, San Francisco, Cal. Shirt	717,102	Dec. 30	4872	1055	101	2928
Liddle, John E., Georgel, Va. Draw-bar and coupling	692,156	Jan. 28	3366	762	98	748
Lidell, W. H. (See Davis, Walter A. E., assignor.)						
Lidgerwood Manufacturing Company. (See Baechtold and Covell, assignors.)						
Lidgerwood Manufacturing Company. (See Covell, Harry N., assignor.)						
Lidgerwood Manufacturing Company. (See Covell and Baechtold, assignors.)						
Lidgerwood Manufacturing Company. (See Olsen, Peter, assignor.)						
Lidke, Otto F., Ypsilanti, assignor to Detroit Trolley and Manufacturing Company, Limited, Detroit, Mich. Trolley-stand	692,790	Feb. 4	1016	230	98	1004
Lidke, Otto F., assignor to Detroit Trolley and Manufacturing Company, Limited, Detroit, Mich. Trolley-stand	717,423	Dec. 30	5486	1190	101	3058
Lieb, John W., Jr., and J. H. Tyler, New York, N. Y. Street-sign-illuminating device	703,023	Sept. 16	1942	445	100	2408
Liebau, Gustav, Maurer, N. J. Wall or fence	701,588	June 3	554	121	99	2223
Liebert, Henry, Milnrow, England. Apparatus for hardening rotary cutters	698,121	Apr. 22	3231	713	99	740
Lieberthal, Hyman, Chicago, Ill. Wheel-tire	705,768	July 29	4738	1025 1026	100	1018
Liebhich, Charles W., St. Louis, Mo. Base for sausage-mills or the like	717,226	Dec. 30	5143	1115	101	2987



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Liebknecht, Otto. (See Homolka and Liebknecht.)						
Liebknecht, Otto, and B. Homolka, Frankfurt-on-the-Main, assignors to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Making indoxyl.	714,000	Nov. 18	2977		101	1544
Liebman, Herman, assignor to A. E. Olson, Chicago Ill. Machine for preparing strips of carpet for making rugs.	712,460	Oct. 28	3956	865	101	868
Liebrecht, Arthur, Frankfurt-on-the-Main, assignor to Farbwerke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Isovaleramide derivative and making same.	697,730	Apr. 15	2513		99	563
Liefield, Ernest T. (See Tcherniac, Joseph, assignor.)						
Liemke, Herman H., assignor of one-half to L. A. Allard, St. Louis, Mo. Car-seal.	715,829	Dec. 16	2242	500	101	2332
Lienhardt, Charles, Allport, Pa. Wire-stretcher.	705,359	July 22	3693	801	100	796
Lieske, Frank, Marquette, Mich. Extension-table.	704,552	July 15	2233	1483	100	482
Lieske, Frank, Marquette, Mich. Splice-bar.	711,776	Oct. 21	2659	587	101	585
Liet, Julien P. E., Paris, France. Explosion-motor.	716,069	Dec. 16	2758	608	101	2444
Liethegenger, Henry, assignor to S. Northrop, St. Louis, Mo. Expansive boring-tool.	704,057	July 8	1271	275	100	267
Liethegenger, Henry, and A. Klemm, St. Louis, Mo.; said Klemm assignor to said Liethegenger. Rotary engine.	694,763	Mar. 4	823	182	98	1886
Lietz, Adolph, San Francisco, Cal. Transit.	715,828	Dec. 16	2243	500	101	2333
Light, George W., Atlanta, Ga. Safety pin.	702,308	June 10	1826	417	99	2501
Light, Peter. (See Silk and Light.)						
Lightcap, John J., et al. (See Smith, Solomon, assignor.)						
Lightford, Wm. L., et al. (See Gaynor, Timothy J., assignor.)						
Lightpipe, James A., San Francisco, Cal., assignor to General Electric Company. Governor.	713,463	Nov. 11	1920	434 435	101	1307
Lihme, Iens F., assignor to Grasselli Chemical Company, Cleveland, Ohio. Making lithopone.	697,731	Apr. 15	2514		99	563
Lilburn, George M., Haverstraw, N. Y. Bicycle.	702,804	June 17	2783	640 641	99	775
Lilleberg, Charles, Chicago, Ill. Railway-crossing.	698,206	Apr. 22	3424	754	99	773
Lilly, George H., Leyton, England. Night-light.	716,845	Dec. 23	4375	949	101	2808
Lilly, Herman M., and O. A. Gier, Rockdell, Minn. Sack-holder.	695,644	Mar. 18	2461	558	98	2282
Lilly, Myron W., Leavenworth, Kans. Envelop-feeder for printing-presses.	704,058	July 8	1273	275	100	267
Lilly & Roberts Veneer Company. (See Roberts, John N., assignor.)						
Limb, Claude M. J., (dit Claudius), Lyons, France. Electric-traction system.	691,473	Jan. 21	2099	470 471	98	472
Linaberry, Edgar, Des Moines, Iowa. Coffee-roaster.	693,873	Feb. 25	3146	696	98	1510
Lincoln, Frederick H., Philadelphia, Pa. Pole structure.	712,394	Oct. 28	3823	835	101	841
Lincoln, Irvin. (See Kuempel, Frederick, assignor.)						
Lincoln, John C., assignor to B. B. Quinn, Cleveland, Ohio. Apparatus for curing meat.	705,367	Jan. 22	3935	852	100	845
Lincoln, Luther, assignor of one-half to C. S. Gooding, Boston, Mass. Apparatus for controlling iron in blast-furnaces.	691,474	Jan. 21	2101	471 472	98	472
Lincoln, Luther, assignor of one-half to C. S. Gooding, Boston, Mass. Drawing molten metal from receptacles.	697,638	Apr. 15	2343	523	99	528
Lincoln, Ora R., Fall River, Mass. Brooder.	707,127	Aug. 19	2147	481	100	1390
Lincoln, R. B. (See Rheutan, Garrett H., assignor.)						
Lincoln, Winslow S., Worcester, Mass. Operating and latch-releasing mechanism for sliding doors.	700,343	May 20	2420	552	99	1705
Lindall, John A., and N. Mattson, Two Harbors, Minn. Ore-chute and trap-door.	700,789	May 27	3290	755	99	1905
Lindas, Henry E., Greatbend, Kans. Dental appliance.	702,805	June 17	2791	641	99	2721
Lindauer, Julius, Paris, France. Corset.	708,773	Sept. 9	1404	322	100	2280
Lindberg, Beatrice E., Faribault, Minn. Kindergarten-loom.	708,739	July 1	785	172	100	157
Linde, Fritz, Dortmund, Germany. Refining oils.	692,157	Jan. 28	3367		98	748
Lindelöf, Leonard. (See Hagelberg and Lindelöf.)						
Lindeman, Joseph. (See Cheval and Lindeman.)						
Lindemeyr, Philip, assignor to Maryland Stopper Company, Baltimore, Md. Vessel-cap.	692,462	Feb. 4	422	99	98	885
Lindenthal, Gustav, New York, N. Y. Tunnel construction.	714,204	Nov. 25	3408	750 751	101	1653
Lindenthal, Gustav, New York, N. Y. Laying tunnels.	714,205	Nov. 25	3410	751	101	1653
Linder, John C., Crittenden, Ky. Cushion-machine.	717,103	Dec. 30	4872	1055 1056	101	2928
Linder, Mons A., Pullman, Ill. Oar attachment.	708,153	Sept. 2	287	69	100	2041
Linderman, Frank M., and C. A. Binz, Chicago, Ill. Belt stud or fastener.	708,565	Sept. 9	1009	229	100	2197
Linderman, Julius A., Atlanta, Ga. Button or catch for coat-collars.	694,104	Feb. 25	3603	797	98	1601
Lindgren, Alexis C., Moline, Ill., assignor to Moline Plow Company. Changeable-speed gear.	714,496	Nov. 25	3935	871	101	1757
Lindgren, August, Moline, Ill., assignor to Moline Plow Company. Lister-cultivator.	700,665	May 20	3002	688 689	99	1827
Lindgren, August, Moline, Ill., assignor to Moline Plow Company. Corn-planting machine.	715,491	Dec. 9	1595	1345 1346	101	2180
Lindgren, Peter. (See McMahon and Lindgren.)						
Lindhard, Povl T., Richmond Hill, N. Y. Ball grinding-mill.	694,974	Mar. 11	1232	269 270	98	1990
Lindholm, Johan O. N. (See Johansson, Karl A., assignor.)						
Lindley, Lee R., Anderson, Ind. Coin card or mailer.	691,950	Jan. 28	3000	673	98	675
Lindley, M. R., et al. (See Williams, Joseph H., assignor.)						
Lindmark, Tore G. E., Stockholm, Sweden. Elastic-fluid turbine.	716,908	Dec. 30	4502	1977 1978	101	2850
Lindmark, Tore G. E., Stockholm, Sweden, assignor, by mesne assignments, to De Lava Steam Turbine Company. Pumping apparatus.	706,187	Aug. 5	361	78	100	1190
Lindner, Ernst, Brooklyn, N. Y. Adjustable table or desk.	697,639	Apr. 15	2345	523	99	528
Lindroth, Carl O., assignor to Southwark Foundry & Machine Company, Philadelphia, Pa. Valve-actuating means for blowing-engines.	693,614	Feb. 18	2659	587	98	1392
Lindsay, Alexander, Wellsville, Ohio. Cuspider.	709,165	Sept. 16	2227	506	100	2468
Lindsay, Clarence A., New York, N. Y. Package.	697,530	Apr. 15	2093	464	99	479
Lindsay, Ellwood C., assignor to B. Williams & Company, Philadelphia, Pa. Electric locomotive.	713,464	Nov. 11	1925	435 436	101	1309
Lindsay, George F., Sherman, Tex. Hame-hook.	709,784	Sept. 23	3453	777	100	2737
Lindsay, Hamilton, Glenville, Ohio. Loom-shuttle.	712,817	Nov. 4	663	153	101	1033
Lindsay, Leroy J., Seymour, Iowa. Marker for corn-planters.	695,218	Mar. 11	1691	375	98	2086
Lindsay, Robert F., Greenville, S. C., assignor to S. C. Koonce, Clarksville, and J. S. Leslie, Sharon, Pa. Pipe-union.	692,881	Feb. 11	1195	265	98	1070
Lindsay, Robert F., Greenville, S. C., assignor to S. C. Koonce, Clarksville, and J. S. Leslie, Sharon, Pa. Cook or faucet.	706,573	Aug. 12	1111	246	100	1856
Leslie, Sharon, Pa. Cook or faucet.	700,517	May 20	2757	631	99	1775
Lindsay, Thomas, and L. L. White, Wilmerding, Pa. Lamp-hanger.						
Lindsay, William D., Milwaukee, Wis. Band-cutting and feeding device for threshing-machines.	693,976	Feb. 25	3366	739	98	1553
Lindsay, William E., Baltimore, Md. Fountain-pen.	704,262	July 8	1673	364	100	350

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Lindsey, John, assignor to Lindsey Wagon Company, Laurel, Miss. Logging-truck. (Reissue).....	11,987	May 13	2034	464	99	1604
Lindsey, Oscar L. (See Woodson and Lindsey.)						
Lindsey Wagon Company. (See Lindsey, John, assignor.) (Reissue.)						
Lindstrom, Charles, assignor of one-half to C. M. Mendenhall, Bloomington, Ill. Sand-drier.....	692,791	Feb. 4	1017	230	98	1005
Lindstrom, Charles H., and L. E. Christiansen, Chicago, Ill. Hand-screw.....	700,952	May 27	3587	825	99	1964
Lindstrom, Charley, <i>et al.</i> (See Darwin, Frank L., assignor.)						
Lindstrom, Conrad, Elcampo, Tex. Casing-point.....	715,676	Dec. 9	1939	434	101	2250
Lindstrom, John A., Richmond, Ind. Pedestal-clamp.....	704,553	July 15	2235	484	100	483
Lindstrom, John T., Allentown, Pa. Steam and oil separator.....	699,691	May 13	1091	256	99	1412
Lindström, Karl A., Sommarö, assignor to Allmänna Svenska Elektriska Aktiebolaget, Westerns, Sweden. Device for starting alternating-electric-current induction-motors.....	694,105	Feb. 25	3604	797	98	1601
Lindström, Nils O., New York, assignor to A. B. See and W. L. Tyler, Brooklyn, N. Y. Electric elevator.....	693,038	Feb. 11	1505	328	98	1136
Lindt, Phillip F., St. Joseph, Mich. Box-stapling machine.....	692,882	Feb. 11	1196	265	98	1070
Lindt, Phillip F., St. Joseph, Mich. Machine for making basket-webs.....	707,605	Aug. 26	3068	690	100	1799
Line, Francis, Cleveland, Ohio. Air-conducting tube.....	690,544	Jan. 7	741	164	98	156
Line, Francis, Cleveland, Ohio. Air-conducting pipe.....	696,059	Mar. 25	3215	726	98	2431
Lines, Reuben J., Northampton, England. Reversing device.....	699,963	May 13	1629	374	99	1524
Lingle, George W., assignor of one-half to G. J. Buchholz, Eagle Grove, Iowa. Level, plumb, and inclinometer.....	709,990	Sept. 30	3579	874	100	2338
Linhard, George, Sublette, Mo. Draft-equalizer.....	697,732	Apr. 15	2515	500	99	563
Linhard, George and P. Sublett, Mo. Car-fender.....	716,070	Dec. 16	2759	608	101	2445
Link Belt Engineering Company. (See Dodge, James M., assignor.)						
Link Belt Engineering Company. (See Dodge and Shaw, assignors.)						
Link Belt Engineering Company. (See Hetzel, Frederic V., assignor.)						
Link Belt Engineering Company. (See Piez, Charles, assignor.)						
Link Belt Machinery Company. (See Holmes, George L., assignor.)						
Link Belt Machinery Company. (See Peck, Staunton B., assignor.)						
Link, William. (See Mitchell and Link.)						
Linke, Theodore, New York, N. Y. Filter.....	710,235	Sept. 30	4433	999	100	2957
Linkert, John G., assignor to Dayton Manufacturing Company, Dayton, Ohio. Combined sash ratchet and pivot.....	695,161	Mar. 11	1555	352	98	2065
Linley, Crampton L., <i>et al.</i> (See Rogers, Charles W., assignor.)						
Linn, Allen D., assignor of two-thirds to G. W. Perkins and W. T. Hess, Grand Rapids, Mich. Automatic fire-extinguisher.....	712,692	Nov. 4	419	98	101	984
Linn, Allen D., assignor of two-thirds to G. W. Perkins and W. T. Hess, Grand Rapids, Mich. Sprinkler-head for fire-extinguishers.....	712,693	Nov. 4	420	99	101	984
Linn, Guy C., <i>et al.</i> (See McGarvey, Edward, assignor.)						
Linn, John B., Schenectady, N. Y., assignor to General Electric Company. Electric controller.....	708,055	Sept. 2	107	25	100	2003
Linnkegel, Heinrich, Stuttgart, Germany. Preparing absorptive wadding.....	712,818	Nov. 4	665	101	1034	
Lintotype Company. (See Barr, Mark, assignor.)						
Lintotype Company. (See Hooley, Thomas, assignor.)						
Lintotype Company. (See Pinel, Joseph, assignor.)						
Linscott, William D., Piedmont, assignor of four-tenths to G. C. Hunt, Rapid City, O. O. Lyng, C. D. Hooker, and M. J. Gilligan, Piedmont, S. D. Engine.....	697,346	Apr. 8	1780	399	99	398
Linstrom, Charles, Vicksburg, Miss. Combined feed-water siphon and trap.....	699,331	May 6	380	89	99	1251
Linton, Joseph, Manchester, Va. Machine for grinding calender-rolls.....	697,094	Apr. 8	1337	301	99	308
Linton, William J., Woodstock, assignor to Taylor Hydraulic Air Compressing Company, Limited, Montreal, Canada. Hydraulic air-compressor.....	704,059	July 8	1274	276	100	267
Lion, Alexander, M. E. Mosely, Sydney, and A. H. Sproule, Hurstville, New South Wales, Australia, assignors to said Lion and Mosely. Stamping-press.....	716,071	Dec. 16	2760	609	101	2445
Lipkowski, Joseph, assignor to Société Générale de Frenis Lipkowski, Paris, France. Operating mechanism for compressed-air brakes.....	698,874	Feb. 25	3147	696	98	1510
Lippen, Jonathan K., assignor to C. Kubach, Battletcreek, Mich. Malted cereal food and making same.....	709,209	June 24	3573	101	99	2894
Lippert, Stephan, and C. W. Hottman, Philadelphia, Pa. Bottle-washing machine.....	691,642	Jan. 21	2407	541	98	536
Lippard, William A., Harrisburg, assignor of one-half to H. L. Dougherty, Philadelphia, Pa. Fastener for metallic bedsteads.....	698,325	Feb. 11	2094	458	98	1255
Lippincott, Fisher H., Philadelphia, Pa. Trolley-pole support.....	694,020	Feb. 25	3453	762	98	1571
Lippincott, Fisher H., Philadelphia, Pa. Amusement apparatus.....	714,383	Nov. 25	3740	825	101	1720
Lippincott, Fisher H., Philadelphia, Pa., assignor to American Soda Fountain Company, Jersey City, N. J. Machine for cutting or shaving ice.....	706,073	Aug. 5	142	30	100	1146
Lippincott, Frank T., Newark, Ohio. Scenery-brace.....	704,703	July 15	2477	535	100	534
Lippincott, Frank T., Newark, Ohio. Hose-clamp.....	716,072	Dec. 16	2762	609	101	2445
Lippincott, James M., Oakland, Ill. Shelving.....	714,206	Nov. 25	3412	751	101	1654
Lippincott, Jesse O., Philadelphia, Pa. Alarm or call bell.....	691,064	Jan. 14	1318	298	98	200
Lippincott, Marie G., Philadelphia, Pa. Safety-pin.....	712,819	Nov. 4	666	153	101	1034
Lippold, Charles J., Washington, D. C. Twine-holder.....	693,141	Feb. 11	1720	377	98	1178
Lippold, Frederick W., assignor, by mesne assignments, of one-half to T. J. Landrum, Louisville, Ky. Churn.....	697,152	Apr. 8	1448	324	99	327
Lippy, Helen C., Boston, Mass. Bed-pan cover.....	708,371	Sept. 2	670	151	100	2117
Lippy, David, assignor to Mansfield Cash and Package Carrier Co., Mansfield, Ohio. Carrier.....	697,347	Apr. 8	1751	400	99	399
Lippy, David, assignor of three-fourths to L. D. Patten, C. K. Hershey, and J. T. Sawhill, Mansfield, Ohio. Separator-sieve.....	692,682	Feb. 4	829	187	98	969
Lippy, David, and L. D. Patten, Mansfield, Ohio. Pump.....	712,395	Oct. 28	3824	835	101	841
Lips, Fred, Arlington Heights, Ill. Molder's flask.....	714,207	Nov. 25	3414	752	101	1654
Lipschutz, Arthur. (See Toltz and Lipschutz.)						
Lipschutz, Arthur. (See Wolff and Lipschutz.)						
Lishman Process Bleaching Company. (See Lishman, Haughton, and Kirkpatrick, assignors.)						
Lishman Process Bleaching Company. (See Taylor, Cooke, and Montgomery, assignors.)						
Lishman, Walter W. L., Cornholme, England, T. W. Haughton, Culleybackey, and J. J. Kirkpatrick, Ballyclare, Ireland, assignors to Lishman Process Bleaching Company, Limited, Cornholme, England. Kier for bleaching, &c.....	702,309	June 10	1827	417	99	2501
Lisle, Kate E., Clifton Springs, N. Y. Metallic nail-bottom.....	702,975	June 24	3130	719	99	2808
Lisle, Myron C., assignor of one-half to F. A. Simonds, Grand Rapids, Mich. Breach-loading firearm.....	695,819	Mar. 18	2765	631	98	2324



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Lispenard, George, assignor of one-half to C. L. Curtis, Brooklyn, N. Y. Bottle-stopper	699,198	May 6	123	32	99	1201
Lispenard, George, assignor to C. L. Curtis, Brooklyn, N. Y. Bottle-stopper	700,344	May 20	2421	552	99	1705
List, Adolph, Cape Girardeau, Mo. Drop-gate	711,637	Oct. 21	2382	523	101	525
Lister, Frank, Keighley, England. Internal-combustion engine	704,060	July 8	1280	276	100	269
Lister, John G., Sheffield, England. Trolley for use in electric traction	707,606	Aug. 26	3074	691	100	1800
				692		
Liston, Noah, Turtlecreek, Pa. Adjustable brake-block for vehicles	690,745	Jan. 7	742	165	98	156
Litchfield, Clayton P., Detroit, Mich. Basket	701,062	May 27	3794	809	99	2008
Litchfield, Walter D., Schenectady, N. Y., assignor to General Electric Company. Brush-holder	714,811	Dec. 2	319	70	101	1962
Little, Thomas J., Jr., assignor to New Process Lighting Company, Cleveland, Ohio. Apparatus for supplying air or other combustion-supporting substance to gas or other burners	692,683	Feb. 4	830	188	98	969
Little, Thomas J., Jr., assignor to New Process Lighting Company, Cleveland, Ohio. Lamp	710,064	Sept. 30	4004	1003	100	2865
Littot, Francis E. J., and A. Mayer, Pittsburg, Pa. Coin or metal detector	692,318	Feb. 4	179	41	98	836
Litt, Jacob. (See Stephenson, George E., assignor.)						
Littauer, Lucius N. (See Murphy, William B., assignor.)						
Littell, Frederick G., Brooklyn, N. Y. Bathing-cap	713,656	Nov. 18	2320	517	101	1404
Littell, Ion M., Newark, N. J. Valve-hanger for bedsteads	710,477	Oct. 7	144	34	101	31
Littig, Henry A., Davenport, Iowa. Mechanical dentistry	715,492	Dec. 9	1601	346	101	2181
Little, Anderson, assignor of one-half to W. S. Crump, Seddon, Ala. Brush or broom	712,820	Nov. 4	666	154	101	1034
Little, Arthur D. (See York, Little, and Walker.)						
Little, Arthur D., Brookline, Mass., assignor to Cellulose Products Company, Wilmington, Del. Water and grease proof paper	691,951	Jan. 28	3001		98	676
Little, Arthur D., Brookline, Mass., assignor to Cellulose Products Company, Wilmington, Del. Waxed paper	691,952	Jan. 28	3002		98	676
Little, Charles E., assignor to S. Mordan and Company, Limited, London, England. Pen-cil-case	703,142	June 24	3443	789	99	2899
Little, David M., Salem, Mass. Axle for automobiles or other power-vehicles	691,308	Oct. 26	1267	658	98	631
Little, Miles K., Camden Point, Mo. Weather-strip	710,478	Oct. 7	145	34	101	31
Little, Robert H., assignor to M. H. Mandelbaum, Chicago, Ill. Automaton figure	711,510	Oct. 21	2136	465	101	474
Little, Robert H., assignor to M. H. Mandelbaum, Chicago, Ill. Automaton figure	711,511	Oct. 21	2140	465	101	475
				466		
Little, William F. (See Seekamp and Hampe, assignors.)						
Little, William G., assignor of one-half to R. L. Davis, Farmville, N. C. Tobacco-truck	700,785	Sept. 23	3454	777	100	2737
Littfield, Augustine F., Lynn, Mass. Boot or shoe	711,058	Oct. 14	1267	275	101	277
Littfield, Daniel B., Chicago, Ill. Garter	697,504	Apr. 15	2094	465	99	479
Littler, James H., Centerfield, Ohio. Gage for seed-planters	713,228	Nov. 11	1450	329	101	1211
Litty, Lucas, Donaldsonville, La. Clarifier	694,871	Mar. 4	1033	228	98	1031
Litwin, Stefan, Vienna, Austria-Hungary. Backing-protector for books	704,554	July 15	2238	485	100	483
Livengood, Winfield S., assignor to Smith & Sons Manufacturing Company, Kansas City, Mo. Wheeled scraper	703,800	July 1	786	173	100	157
Livengood, Winfield S., assignor to Smith & Sons Manufacturing Company, Kansas City, Mo. Hay-rake	694,558	Mar. 4	435	94	98	1805
Livengood, Winfield S., assignor to Smith & Sons Manufacturing Company, Kansas City, Mo. Hay-rake	694,559	Mar. 4	436	94	98	1805
Livengood, Winfield S., assignor to Smith & Sons Manufacturing Company, Kansas City, Mo. Wheeled scraper	694,560	Mar. 4	437	94	98	1805
Livengood, Winfield S., assignor to Smith & Sons Manufacturing Company, Kansas City, Mo. Wheeled scraper	694,561	Mar. 4	438	95	98	1806
Liveright, Morris. (See Bandler, Henry, assignor.)						
Livermore, Ephraim W., New Whatcom, Wash. Fish-trap	692,057	Jan. 28	3199	722	98	714
Livermore, Frederick W. (See Davis, Albert D., assignor.)						
Livermore, John W., Berkeley, Cal. Drill for deep wells	695,745	Mar. 18	2622	595	98	2294
Livet, Ernest A., assignor to Hiram Maxim Lamp Company, Limited, London, England. Shade-support	707,433	Aug. 19	2731	618	100	1712
Livett, Sydney G., Balham, England. Apparatus for developing, washing, and fixing photographic negatives	717,104	Dec. 30	4874	1056	101	2929
Livingood, Thomas, Hamburg, assignor of one-half to A. M. Kalbach, Lancaster, and B. D. Hostetter, York Springs, Pa. Combined spigot and bung remover	703,346	June 24	3811	876	99	2943
Livingston, Andrew W., Alameda, Cal. Automatic can-heading machine	690,593	Jan. 7	427	92	98	46
Livingston, Andrew W., Alameda, Cal. Can-heading machine	701,589	June 8	2865	122	99	2265
Livingston, Andrew W., Alameda, Cal. Can-sealing device	715,397	Dec. 9	1416	306	101	2145
Livingston, Andrew W., San Francisco, Cal. Soldering-machine	692,319	Feb. 4	182	41,42	98	837
Livingston, Andrew W., Alameda, Cal., assignor to American Can Company, New York, N. Y. Automatic can-heading machine. (Reissue)	11,989	May 13	2038	465	99	1605
Livingston, Charles B., Cincinnati, Ohio. Door-latch	692,463	Feb. 4	423	100	98	885
Livingston, Lewis H., assignor of one-half to L. A. Butcher, Hennessey, Okla. Ter. Threshing-machine	713,229	Nov. 11	1451	329	101	1211
Livingston, Thomas W. (See Brown and Livingston.)						
Livingstone, Edward L., New York, assignor to R. W. Nares, trustee, Brooklyn, N. Y. Bottle or jar	704,482	July 8	2088	453	100	439
Livingstone, Edward L., New York, and W. A. Vandercook, Brooklyn, N. Y. Composition of matter	708,774	Sept. 9	1405		100	2280
Livingstone, George M., Denver, Colo. Means for punching rivet-holes in sheet-metal pipe-sections	712,435	Oct. 28	3917	857	101	860
Livingstone, William, Flushing, N. Y. Caster-pintle	716,340	Dec. 16	3277	716	101	2550
Livingstone, William, Flushing, N. Y. Caster-socket	716,341	Dec. 16	3279	717	101	2550
Livingstone, William, Flushing, N. Y. Wheel or roller for casters, &c.	716,342	Dec. 16	3282	717	101	2551
Livingstone, William, Flushing, assignor to himself, and S. P. Porter, Brooklyn, N. Y. Caster-socket	693,875	Feb. 25	3150	696	98	1510
Lizotte, Joseph, Quincy, assignor of one-half to M. N. Bray, Boston, Mass. Reversing mechanism	700,432	May 20	2584	592	99	1738
Lizotte, Joseph, Quincy, assignor of one-half to M. N. Bray, Boston, Mass. Vaporizer for explosive engines	703,937	July 1	1034	225	100	246
Lizotte, Joseph, Quincy, assignor of one-half to M. N. Bray, Boston, Mass. Sparking igniter for explosive-engines	706,492	Aug. 5	976	214	100	1314
Lizotte, Joseph, Quincy, assignor of one-half to M. N. Bray, Boston, Mass. Gas-engine	715,208	Dec. 2	1069	230	101	2456
Lloyd, Aaron E. <i>et al.</i> (See Anderson, Frank C., assignor.)						
Lloyd, Cyrus S., Sowerby Bridge, England, assignor to M. B. Lloyd, Minneapolis, Minn. Wire mattress	706,970	Aug. 12	1858	416	100	1512

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Lloyd, Cyrus S., assignor of one-half to I. Chorlton, Manchester, England. Construction of bedsteads or bed-frames	714,924	Dec. 2	574	121 132	101	1950
Lloyd, Edwin L., assignor of one-half to W. H. Bruner, Philadelphia, Pa. Window-screen	694,319	Feb. 25	4062	903	98	1686
Lloyd, Elma U., and W. E. B. Pierce, Columbia, Mo. Skirt-supporter	715,008	Dec. 2	872	186 732 733 734	101	2015
Lloyd, Harvey W., Southwest City, Mo. Fire truck and ladder	707,704	Aug. 26	3277	100	1842	
Lloyd, Henry H., Germantown, assignor to Electric Storage Battery Company, Philadelphia, Pa. Non-active metal for use in storage batteries	718,568	Nov. 11	2152	101	1354	
Lloyd, Marshall B. (See Harcourt and Lloyd.)						
Lloyd, Marshall B. (See Lloyd, Cyrus S., assignor.)						
Lloyd, Marshall B., Minneapolis, Minn. Vehicle-axle	716,078	Dec. 16	2764	610	101	2446
Lloyd, Thomas, New York, N. Y. Pyrotechnic device	708,237	Sept. 2	447	102	100	2072
Lloyd, Thomas W. (See Sharrard and Lloyd.)						
Lloyd, William D., Fiskville, Tex. Weeder	693,286	Feb. 11	2015	439 440	98	1238
Lloyd, Willmer D., Beaverfalls, Pa. Power-driven saw	709,786	Sept. 23	3455	777	100	2738
Lobdell Car Wheel Company. (See Stuart, Joseph, assignor.)						
Lobdell Car Wheel Company. (See Tolmie, Robert C., assignor.)						
Lobdell, William W., Wilmington, Del. Operating melting-furnaces	715,592	Dec. 9	1791	307	101	2218
Lübel, Oswald, Zittau, Germany. Hot-water heater	714,588	Nov. 25	4112	909 910	101	1795
Lober, John F., Pittsburg, Pa. Vehicle-tire	693,061	Feb. 18	2742	605	98	1400
Lober, William H., Philadelphia, Pa., assignor to Barber Asphalt Paving Company, New York, N. Y. Utilizing old paving material	711,115	Oct. 14	1369	298	101	2998
Lobnitz, Fred, Renfrew, Scotland. Rock-cutting apparatus	707,128	Aug. 19	2149	482 483	100	1590
Locher, William W., Newcastle, Pa. Knockdown bed	695,820	Mar. 18	2767	631	98	2324
Lochman, Emil R., St. Louis, Mo. Carving-machine	701,903	June 10	1105	452 453	99	2355
Lochridge, Robert C., and A. P. Farris, Paris, Tenn. Metallic packing for rods	717,008	Dec. 30	4704	1020	101	2892
Lock, Edward B. (See Bickford and Lock.)						
Locke, Albert V., Lakeport, N. H., assignor of two-thirds to F. L. Packard, Brockton, and H. S. Slater, Brookline, Mass. Carton	700,953	May 27	3588	825	99	1964
Locke, Bradford H., Denver, Colo. Lubricating device	704,555	July 15	2239	485	100	483
Locke, Bradford H., Denver, Colo. Mechanism for converting rotary into reciprocatory motion	704,810	July 15	2701	584	100	577
Locke, Eugene O. (See Powell, William G., assignor.)						
Locke, Fred C., Boston, Mass. Overhead conduit for electrical-service wires	714,718	Dec. 2	130	26	101	1864
Locke, Fred M., Victor, N. Y. Sleeve for protecting insulator-pins	698,976	Apr. 29	4915	1086	99	1110
Locke, Fred M., Victor, N. Y. Insulator-pin	701,063	May 27	3735	870	99	2008
Locke, Fred M., Victor, N. Y. Making insulators	702,660	June 17	2516	576	99	2064
Locke, Fred M., Victor, N. Y. Insulator and manufacturing same	702,661	June 17	2516	576	99	2064
Locke, Fred M., Victor, N. Y. Filter-press	707,245	Aug. 19	2371	531	100	1638
Locke, Fred M., Victor, N. Y. Machine for forming the interior of plastic materials	716,343	Dec. 16	3285	717	101	2551
Locke, James, Dayton, Ohio. Mining-machine	710,479	Oct. 7	146	34	101	82
Locke, Joseph B., Portsmouth, N. H. Milk-pail	716,256	Dec. 16	3125	684	101	2520
Locke, Joseph L., Beatrice, Nebr. Corn-harvester	696,347	Mar. 25	3819	851 852	98	2556
Locke, Harvey W., Rochester, N. Y. Camera	708,721	Sept. 9	1307	299	100	2258
Locke, Harvey W., assignor to Century Camera Company, Rochester, N. Y. Camera	704,845	July 15	2755	506	100	589
Locke, Martin J., Troy, N. Y. Machine for folding collar-blanks, &c	701,904	June 10	1110	254	99	2356
Locke, Nathaniel C., assignor to Locke Regulator Company, Salem, Mass. Automatic engine-stop	708,372	Sept. 2	671	151	100	2118
Locke Regulator Company. (See Locke, Nathaniel C., assignor.)						
Locke, Sylvanus D., Bridgeport, Conn., assignor of one-half to M. McVoy, Jr., New York, N. Y. Match-safe	698,406	Apr. 22	3750	829	99	845
Locke, William, Troy, assignor to Pneumatic Signal Company, Rochester, N. Y. Railway signaling system	716,562	Dec. 23	3744	816	101	2664
Locke, William H., et al. (See Nolan and Mortenson, assignors.)						
Lockerby, Jerome B., Itasca, N. Y. Trolley-wheel	714,589	Nov. 25	4113	910	101	1795
Lockerby, Mitchell M., Grand Forks, N. D. Rotary engine	703,560	Sept. 9	1011	229	100	2197
Lockett, Benjamin E., Jefferson City, Mo. Shoe or boot	694,852	Mar. 4	1036	229	98	1931
Lockett, Hilton M., Henderson, Ky. Gate	701,905	June 10	1112	254	99	2356
Lockhart, Horatio J., Fostoria, assignor of two-thirds to C. A. Morris and B. W. Osborn, Toledo, Ohio. Washing-machine	711,407	Oct. 14	1933	421	101	418
Locklin, Samuel B., Boston, Mass. Pneumatic piano-player	706,574	Aug. 12	1114	246 247	100	1356
Lockwood, Charles E., and W. C. Banks, New York, N. Y. Battery-depolarizer	714,590	Nov. 25	4114	101	1795	
Lockwood, Charles H., et al. (See Andrew, Oren, assignor.)						
Lockwood, Charles R., et al. (See Harrington, Patrick S., assignor.)						
Lockwood, Edward M., Jr., Philadelphia, Pa. Splint-frame for match-making machinery	695,219	Mar. 11	1693	375	98	2086
Lockwood, Edward M., Jr., Darby, Pa. Scuttle, bucket, &c	706,074	Aug. 5	144	30	100	1146
Lockwood, Edward M., Jr., Darby, assignor to P. C. Tomson & Company, Philadelphia, Pa. Conveyor-chain for match-machines	698,526	Apr. 29	3975	879	99	905
Lockwood, Edward M., Jr., Darby, assignor to P. C. Tomson and Company, Philadelphia, Pa. Conveyor-chain for match-machines	700,433	May 20	2586	592	99	1738
Lockwood, Gorge R., St. Louis, Mo. Summer-house	703,705	July 1	610	135	100	121
Lockwood, James E. (See West, Charles O., assignor.)						
Lockwood, Jasper, Laurel, Ind. Tug-fastener	700,845	May 20	2423	553	99	1706
Lockwood, Jeanette M. (See Lockwood, Thomas J., assignor.)						
Lockwood, John (See Thomas and Lockwood.)						
Lockwood, Philo J., Washington, D. C. Gasket and seal for hydrocarbon-liquid containers	699,199	May 6	124	32	99	1201
Lockwood, Robert E., Chicago, Ill. Car-brake	706,672	Aug. 12	1304	287 288	100	1398
Lockwood, Thomas J., assignor to J. M. Lockwood, Muncie, Ind. Mechanical movement	707,705	Aug. 23	3282	734	100	1843
Lockwood, Vernon H. (See Richardson, Leonidas W., assignor.)						
"Locomobile" Company of America. (See Davis, Samuel T., Jr., assignor.)						
"Locomobile" Company of America. (See Reynolds, George H., assignor.)						
"Locomobile" Company of America. (See Riker, Andrew L., assignor.)						
Locraft, Bernard F., Washington, D. C. Horseshoe	696,060	Mar. 25	3216	727	98	2431
Lodeski, Frank J. (See Berens, Stanislaus, assignor.)						
Lodor, James C., Wilmington, N. C. Sash-fastener	705,260	July 22	3694	801	100	796
Lodor, James C., Wilmington, N. C. Actuating device for lids or covers	705,261	July 22	3696	801	100	796



## Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.
			Spec.	Dr. & G.	
Lodwick, William D. (See Burton and Lodwick.)					
Loe, Syver, Minneapolis, Minn. Voting-machine	712,079	Oct. 28	3271	716	101 726
Loeb, John G. and J. Hagge, St. Louis, Mo. Smokeless boiler-furnace	698,977	Apr. 29	4916	1085	99 1110
Loeben, Gustave A., Philadelphia, Pa. Gas and air mixer	701,590	June 3	559	123	99 2224
Loeben, Gustave A., Philadelphia, Pa. Recoil-check for ordnance	715,278	Dec. 9	1195	254	101 2099
Loeffelholz, Jacob, New York, N. Y. Belt	690,863	Jan. 7	937	210	98 197
Loeffler, Charles, Salt Lake City, Utah Damper	708,965	Sept. 9	1799	414	100 2361
Loeffler, Edward F., Columbus, Ohio. Artificial limb	703,431	July 1	117	26	100 26
Loeffler, Louis J., New York, N. Y. Self-restoring telephone	710,065	Sept. 30	4096	964	100 2826
Loewer, Anna von, (deborn Muhlenbeck,) Rostock, Germany. Mowing-machine	693,287	Feb. 11	2918	440	98 1239
Loesche, Charles, <i>et al.</i> (See Speice, George, assignor.)					
Loesewitz, Johannes, Witten, Germany. Grapple for lubricating-pads	706,604	Sept. 23	3117	694	100 2669
Loetscher, Emil C., Pittsburg, Pa. Draftman's instrument	696,828	Apr. 1	814	187	99 172
Loetzer, Christian E., Towanda, Pa. Automatic air-valve for water-mains	719,180	Oct. 7	147	34	101 32
Loew, Charles H. (See Cobb, William B., assignor.)					
Loew, Charles H., Cleveland, Ohio. Bottle-soaking and washing machine	700,518	May 29	2759	631	99 1775
Loewen, Wilhelm, Breslau, Germany. Electric commutator	711,873	Oct. 21	2849	630	101 626
Loewenbach, Hugo. (See Schilz, Frank, assignor.)					
Loewenbach, Hugo, Milwaukee, Wis. Garment	711,665	Oct. 21	2444	537	101 538
Loewenstein, Gottlieb, Brunswick, Ga. Fire-escape	692,684	Feb. 4	822	188	98 570
Loewenthal, Jean, Magdeburg, Germany, assignor to Quarzitol Company, New York, N. Y. Composition for making stones or mortar	707,129	Aug. 19	2151		100 1591
Loewy, Alfred, (See Decker and Loewy.)					
Loftahl, Andrew, Elkhart, Ind. Lubricating device	701,364	June 3	149	32	99 2139
Loffi, George, Norwalk, assignor to W. R. Mowery and S. Sherck, Bellevue, Ohio. Trolley-wheel	698,978	Apr. 29	4917	1087	99 1110
Loflin, Robert, <i>et al.</i> (See Gibson, Levi D., assignor.)					
Loftthouse, Thomas H. C., Nassau, Bahama Islands. Can-opener	712,396	Oct. 28	3826	836	101 841
Loftus, Thomas M., <i>et al.</i> (See Palmer, George L., assignor.)					
Logan, Abram L., Montclair, Pa. Combined hot-air and water or steam heater	708,373	Sept. 2	673	152	100 2113
Logan, Crawford D., assignor of two-thirds to A. V. Cheny and T. J. Gipson, Coalhill, Ark. Lock	692,792	Feb. 4	1019	230	98 1005
Logan, Ferdinand, Phenixville, Pa. Steam-generating and water-heating boiler	705,982	July 29	4577	994	100 986
Logan, Ferdinand, Phenixville, assignor to T. L. Hodge, trustee, Philadelphia, Pa. Air-pump for gas apparatus	692,685	Feb. 4	835	189	98 970
Logan, George A., Chicago, Ill. Gas-capsule	696,983	Apr. 8	1155	257	99 335
Logan, James, Worcester, Mass. Paper sheet for envelop-blanks	695,412	Feb. 18	2263	495	98 1311
Logan, James A., <i>et al.</i> (See Euphrat, Theophile, assignor.)					
Logan, Lavalette L., Robertsdale, Pa. Lubricator for car-axle bearings	710,481	Oct. 7	149	35	101 32
Logan, Maurice S., New York, N. Y. Music marking and reading instrument	698,298	Apr. 22	3579	789	99 807
Logan, Richard D., St. Louis, Mo. Sash-fastener	702,806	June 17	2793	642	99 2721
Logan, Robert, Sharptown, N. J. Slop-pail	706,971	Aug. 12	1859	416	100 1512
Logue, John F., and J. K. Gans, Cincinnati, Ohio. Water-outlet for steam-lines	691,395	Jan. 21	971	441	98 445
Logwood, Charles A. (See Hendricks and Logwood.)					
Lohlein, Leonard J., Lusk, Wyo. Combined applicator and syringe	702,570	June 17	2350	537	99 2629
Lohmann, Edwin, Greenville, Ohio. Lens system for photographic purposes	711,985	Oct. 28	3088	677	101 691
Lohmer, Joseph H., Bradford, Pa. Derrick-frame and joint-coupling therefor	702,227	June 10	1700	383	99 2475
Lohrmann, Liddy, New York, N. Y. Stopper for jars	697,211	Apr. 8	1550	347	99 349
Loiselet, Jérôme. (See Leconte and Loiselet.)					
Loiselet, Jérôme, assignor to Société des Produits Amylacés, Paris, France. Manufacturing starch	702,571	June 17	2351		99 2629
Lomas, John R., Westhaven, Conn. Key-ring	705,368	July 22	3936	853	100 845
Lomax, Clarence S., Everett, Mass. Making oxides of tin and lead	695,939	Mar. 25	2987	675	98 2334
Lomax, Henry and R., and J. Tomlinson, Darwen, England. Electrical switch	717,227	Dec. 30	5143	1115	101 2988
Lomax, Ralph. (See Lomax and Tomlinson.)					
Lomb, Harry J., Allegheny, Pa. Sash-lock	717,424	Dec. 30	5487	1190	101 3059
Lombard, E. Fred. (See Adams, William H., assignor.)					
Lombard, Fred, Cripple Creek, Colo. Pan-lifter	708,432	July 1	118	26, 27	100 26
Lombard Governor Company. (See Lombard, Nathaniel, assignor.)					
Lombard Governor Company. (See Warren, Henry E., assignor.)					
Lombard, Levi W., Boston, assignor to Jewell Storage Battery Company, Pittsfield, Mass. Storage battery	700,210	May 20	2184	489	99 1647
Lombard, Levi W., assignor to F. W. Jewell, Boston, Mass. Storage battery	700,666	May 20	3103	689	99 1823
Lombard, Nathaniel, assignor to Lombard Governor Company, Boston, Mass. Speed-regulator	695,464	Mar. 18	2108	475	98 2190
Lombard, Nathaniel, and J. O. Banning, Boston, Mass., assignors to Boston Chemical Fire Engine Manufacturing Company. Pressure-reducing device	700,954	May 27	3589	825	99 1964
Lombard, Victor E., and C. E. Cole, Jackson, Miss. Waste-pipe trap	705,769	June 29	4740	1026	100 1918
Lombard, Walter E., Arlington, Mass., assignor to J. H. Sears Company, Portland, Me., and Boston, Mass. Fleshing-machine	703,285	July 24	3691	851	99 2918
Lombardo, José, assignor of one-half to M. Garcia, San Francisco, Cal. Music-leaf turner	692,320	Feb. 4	184	42	98 337
Lombardo, Michele, Mason City, Iowa. Banana-shipping crate	709,166	Sept. 16	2228	506	100 2468
Lombardo, Wilhelm, assignor to J. Eisele, Budapest, Austria-Hungary. Implement for cleaning boiler-tubes, &c	691,475	Jan. 21	2103	472	98 472
Lomorgan, Alphonus, New York, N. Y. Traveler	690,594	Jan. 7	431	93	98 94
Lomorgan, John J., and A. C. Calkins, assignors, by mesne assignments, to F. W. Braun & Company, Los Angeles, Cal. Assayer's furnace. (Reissue.)	11,079	Apr. 1	1013	225	99 214
Lones, Jabez, <i>et al.</i> (See Lones, Joseph, assignor.)					
Lones, Joseph, assignor of two-thirds to J. Lones and E. Holden, Smethwick, England. Making pigments	707,494	Aug. 19	2733		100 1713
Loney, James, Detroit, Mich. Electrically-operated railway-switch	709,676	Sept. 23	3236	723	100 2693
Loney, William C., Danville, Ill., assignor of one-half to F. W. Coats, Indianapolis, Ind. Hotel-register	694,291	Feb. 25	3955	880	98 1672
Long & Allstetter Company. (See Long, John M. W., assignor.)					
Long, Andrew. (See Spring and Long.)					
Long Arm System Company. (See Cowles, William B., assignor.)					
Long, Barnett, assignor of one-half to M. Robinson, Martinsburg, W. Va. Safety attachment for cars	714,312	Nov. 25	3617	796	101 1695
Long, Charles L., Brannockstown, Ireland. Sliding bolt	708,932	Sept. 9	1664	382	100 2334
Long, David N., Buffalo, N. Y., assignor to J. B. Colt Company. Acetylene-gas generator	699,332	May 6	383	89, 90	99 1232
Long, David N., assignor to F. C. M. Lautz, Buffalo, N. Y. Acetylene-gas generator	716,563	Dec. 23	3750	816	101 2993
Long, Edgar E., Los Angeles, Cal. Pencil-hobler	717,228	Dec. 30	5145	1115	101 2988

## Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Pat.	Vol.	Page.
Long, Eli M. (See Bowker, Long, and Howland.)						
Long, Ferdinand F., Hastings, Me. Sleigh	699,540	May 6	769	181	99	1393
Long, Fred I., Greatfalls, Mont. Cuff-holder	710,728	Dec. 23	4044	886	101	2728
Long, Frederic H., Chicago, Ill. Metallurgical filter	702,064	June 10	1429	321	99	2420
Long, Frederic H., Chicago, Ill., assignor to R. J. Beatty, trustee, Muncie, Ind. Metallurgical filter	691,706	Jan. 21	2522	565	98	560
Long, Frederic H., Chicago, Ill., assignor to R. J. Beatty, trustee, Muncie, Ind. Electrolytic converter	699,964	May 13	1630	374	99	1525
Long, Frederic H., Chicago, Ill., assignor to Mystic Reduction Company. Bleaching paper-pulp, &c.	702,142	June 10	1546	350	99	2445
Long, George S., Dekalb, Ill. Windmill-regulator	692,158	Jan. 28	3368	762	98	748
Long, Henry D. and J. Jackson, Philadelphia, Pa. Stamp-affixer	699,272	Sept. 16	2440	552	100	2511
Long, James C. (See Morris, Harry P., assignor.)						
Long, James M., Jr., San Francisco, Cal. Closure for jars	714,719	Dec. 2	131	26	101	1864
Long, John E., Chillicothe, Ohio. Bolster-roll	705,683	July 20	4579	965	100	987
Long, John H., Chicago, Ill., assignor to Chisholm, Boyd and White Company. Briquetting iron-bearing substances	711,059	Oct. 14	1267		101	277
Long, John H., Chicago, Ill., assignor to Chisholm, Boyd and White Company. Briquetting iron-bearing substances	711,060	Oct. 14	1269		101	277
Long, John M. W., assignor to Long & Allstatter Company, Hamilton, Ohio. Disk plow	696,984	Apr. 8	1157	257	99	266
Long, John R., Warren, Pa. Bench-vise	710,482	Oct. 7	151	35	101	38
Long, John R., Warren, Pa. Bench-vise	713,121	Nov. 11	1244	283	101	1170
Long, John R., Springfield Township, Summit county, Ohio, assignor to Jacobson Machine Manufacturing Company, Warren, Pa. Pipe-vise	714,208	Nov. 25	3417	752	101	1655
Long and Koch Company. (See Long, Philip H., assignor.)						
Long, Lee, assignor of three-fourths to J. C. McIntire, Jr., Buffalo, N. Y. Sounding toy	705,939	July 29	5089	1098	100	1079
Long, Philip H., assignor to Long and Koch Company, Newark, N. J. Combined post and strengthening-bridge for cuff-buttons, &c.	713,005	Nov. 4	1014	237	101	1103
Long, Rosco K., et al. (See Hook, Alonzo L., assignor.)						
Long, Sidney L., Wilmont, Minn. Coin-controlled apparatus	713,779	Nov. 18	2543	566 567	101	1453
Long, Stephen M. (See Rogers, Christopher L., assignor.)						
Long, Thomas, Boston, Mass., assignor to Consolidated Fastener Company, Portland, Me. Mechanism for operating machines for attaching buttons, &c.	700,790	May 27	3291	1755 1756	99	1905
Long, Timothy, Cleveland, Ohio. Hoisting and conveying machine	698,032	Apr. 22	3059	672	99	699
Long, Timothy, assignor to Browning Engineering Company, Cleveland, Ohio. Car-dumping apparatus	711,728	Oct. 21	2562	754	101	564
Long, William J., and J. B. Nolder, Windsor, Pa. Electric rail-bond	700,846	May 20	2424	533	99	1706
Longan, James M., Empire City, Kans., assignor of nine-sixteenths to E. V. Wyssbrod, Joplin, Mo. Ore washer and separator	705,104	July 22	3340	725	100	726
Longard, Clarence C., Halifax, Canada. Wrench	699,692	May 13	1092	256	99	1412
Longard, Clarence C., Halifax, Canada. Pipe-wrench	699,693	May 13	1094	256	99	1413
Longard, Clarence C., Halifax, Canada. Heater	700,791	May 27	3294	756	99	1906
Longard, Clarence C., Halifax, Canada. Wrench	716,564	Dec. 23	3756	817	101	2667
Longden, Mary, Yates Center, Kans., assignor of one-half to N. A. Fuller, Hastings, Mich. Face-protector	695,403	Mar. 11	2006	450	93	2151
Longdon, Alexander P., Demorest, Ga. Broom-bridle	696,375	Mar. 25	3898	865	98	2569
Longenecker, Charles K., Brooklyn, assignor of one-half to J. Scholl, New York, N. Y. Land-roller	699,694	May 13	1095	257	99	1414
Longenecker, H. Frank, Smithville, and S. P. Hartzler, Weillersville, Ohio. Pencil-box	716,909	Dec. 30	4506	978	101	2851
Longfellow, Henry W., Jr., Boston, Mass. Parlor-tennis racket	717,504	Dec. 30	5625	1221	101	3086
Longhurst, James S., Jr. (See Rumboski, Leo, assignor.)						
Longstreet, Fitz Randolph, Gainesville, Ga. Wire fence	711,574	Oct. 21	2264	491	101	500
Longstreth, Charles, Yeaddon, and C. W. G. King, assignors to United States Metallic Packing Company, Philadelphia, Pa. Metallic packing for piston-rods	694,764	Mar. 4	826	183	98	1886
Longumare, Amelie A., Paris, France. Carbureter for explosive-engines	715,398	Dec. 9	1417	306	101	2145
Lomke, John, New York, N. Y. Board for holding and shipping cloth	695,062	Mar. 11	1395	306	98	2024
Lonsdale, William H. (See Warner and Lonsdale.)						
Looff, Charles, Jr., Brooklyn, N. Y. Merry-go-round	703,801	July 1	788	173	100	158
Loog, John, Brooklyn, N. Y. Pearl-button-turning machine	710,965	Oct. 14	1105	243 244	101	242
Look, Frank N., and A. C. Estabrook, Northampton, Mass. Covered lacing-hook	717,505	Dec. 30	5626	1221	101	3087
Look, George W., Quincy, Minn. Aerator for milk	695,570	Mar. 18	2331	327	98	2226
Look, John C., Tudor, Cal. Mop-head	695,063	Mar. 11	1397	306	98	2024
Look, John C., Tudor, Cal. Mop-head	706,244	Aug. 5	464	99	100	1210
Look, John C., Tudor, Cal. Mop-head	716,444	Dec. 23	3497	764	101	2612
Look, Luther, Los Angeles, Cal. Ore-concentrator	711,903	Oct. 21	2904	641	101	636
Look, Luther, assignor to New Standard Concentrator Co., Los Angeles, Cal. Ore-concentrator	695,064	Mar. 11	1397	306 307 308	98	2025
Loomis, Alva A., Empire, Ohio. Book-shelf and shipping-crate	700,060	May 13	1795	416	99	1557
Loomis, Eugene O., Omaha, Nebr. Holder for theater or transportation tickets	702,107	June 10	1492	326	99	2433
Loomis, George D., Tiffin, Ohio. Steam-power well-drilling machine	698,033	Apr. 22	3061	673	99	699
Loomis, Leavitt R., Humphreysville, N. Y. Corn-husker	705,770	July 29	4741	1026 1027	100	1018
Loop-Lock Machine Company. (See Bean, Edwin E., assignor.)						
Loose, Warren A. R., Provo, Utah. Apparatus for separating metals from their ores	708,567	Sept. 9	1012	230 231	100	2197
Lopisch, Mateo, Sacramento, Cal. Horse-holding device	704,061	July 8	1283	277 278	100	270
Loppé, François, H. P. Morin, G. A. Griner, and D. P. Martin, Paris, France. Electric accumulator	712,316	Oct. 28	3681	804	101	808
Lorain Steel Company. (See Brown, Cyrus E., assignor.)						
Lorain Steel Company. (See Brown, William M., assignor.)						
Lorain Steel Company. (See Entwistle, Edward E., assignor.)						
Lorain Steel Company. (See Ervin, George M., assignor.)						
Lorain Steel Company. (See Garrett, Frank W., assignor.)						
Lorain Steel Company. (See Garrett and Steele, assignors.)						
Lorain Steel Company. (See Goughnour, Henry S., assignor.)						
Lorain Steel Company. (See Krauss, Charles H., assignor.)						
Lorain Steel Company. (See Merrick and Forrer, assignors.)						
Lorain Steel Company. (See Merrick and Stull, assignors.)						
Lorain Steel Company. (See Pfeiffer, John H., assignor.)						
Lorain Steel Company. (See Wetmore, Earl P., assignor.)						
Lorch, Frederick W. (See Dearborn, Charles A., assignor.)						
Lorch, Fritz, Bockenheim, Frankfort-on-the-Main, Germany. Lathe	706,673	Aug. 12	1308	288	100	1399



## Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr. g.	Vol.	Page.
Lord, George E. (See Spitzli and Lord.)						
Lord, George W., Chicago, Ill. Reducing-valve	700,434	May 20	2588	593	99	1739
Lord, Harry S., Bath, Me. Smoke and cinder conveyer	700,955	May 27	3590	826	99	1905
Lord, Hugh C., Erie, Pa. Package for fragile articles	702,807	June 17	2794	642	99	2721
Lorden, Frederick L., Wellington, New Zealand. Machine for cutting tobacco	695,571	Mar. 18	2332	527	98	2237
Loree, Perry E., Dayton, Ohio. Trolley	707,338	Aug. 19	3559	577	100	1676
Loree, Perry E., Dayton, Ohio. Trolley-lubricator	707,339	Aug. 19	3561	577	100	1676
Lorenz, Anton, West New York, N. J. Window	700,956	May 27	3591	826	99	1905
Lorenz, William A., <i>et al.</i> (See Arkell, Bartlett, assignor.)						
Lorenz, William A., <i>et al.</i> (See Honiss, William H., assignor.)						
Lorenz, William A., Hartford, Conn., assignor to Lanyon Zinc Company, St. Louis, Mo. Roasting-furnace	691,787	Jan. 28	2705	608	98	616
Lorenz, William A., Hartford, Conn., assignor of three-fourths to Beech-Nut Packing Company, Canajoharie, N. Y., and W. H. Honiss, Hartford, Conn. Jar-sealing apparatus	711,219	Oct. 14	1596	342	101	346
Lorenz, William A., Hartford, Conn., assignor of three-fourths to Beech-Nut Packing Company, Canajoharie, N. Y., and W. H. Honiss, Hartford, Conn. Jar-sealing apparatus	711,220	Oct. 14	1597	342	101	346
Lorenz, William A., and W. H. Honiss, Hartford, Conn., assignors to themselves, and Beech-Nut Packing Company, Canajoharie, N. Y. Exhausting and closing hermetically-sealed jars	711,431	Oct. 14	1977	429	101	426
Lorenz, William A., and W. H. Honiss, assignors to themselves, and Beech-Nut Packing Company, Canajoharie, N. Y. Jar-sealing apparatus	711,432	Oct. 14	1679	430	101	427
Lorenzen, Asmus F., Detroit, Mich. Apparatus for teaching primary arithmetic	708,568	Sept. 9	1014	230	100	2198
Loria, Howard J., Orchamps, France. Friction clutch or coupling	714,209	Nov. 25	3418	753	101	1655
Lorich, John, Jr., Buffalo, N. Y. Sign	709,024	Dec. 15	1943	446	100	2408
Loring Coes & Company. (See Coes, Frank L., assignor.)						
Loring Coes & Company. (See Searle, Frederick, assignor.)						
Loring, Simeon A., Kentland, Ind. Seed-dropper	699,200	May 6	126	33	99	1201
Loss, Henrik V., Philadelphia, Pa. Hydraulic forging-press	710,286	Sept. 30	4494	999	100	2957
Loss, Henrik V., assignor to C. T. Schoen, Philadelphia, Pa. Machine for rolling car-wheels	706,674	Aug. 12	1309	288	100	1399
Loss, William F., Summit, N. J., and J. F. Blake, New York, N. Y. Shooting-gallery	691,643	Jan. 21	2409	542	98	536
Lothrop, Alvin M., <i>et al.</i> (See Taber, Mott B., assignor.)						
Lothrop, Llewellyn D., <i>et al.</i> (See Redding, Jerome, assignor.)						
Lotspeich, Rhoten F., assignor of one-third to W. F. Boisford, Los Angeles, Cal. Extension-pedal for pianos	707,706	Aug. 26	3284	735	100	1843
Lott, William F., East Orange, N. J. Exercising device	699,401	May 6	525	120	99	1233
Lott, William F., Newark, N. J. Closure for inflatable devices	717,229	Dec. 30	5146	1116	101	2983
Lotterhand, Jason C., New York, N. Y., assignor of one-half to W. B. Manny, St. Louis, Mo. Type-writer	692,793	Feb. 4	1021	231	98	1005
Lotterhand, Jason C., assignor to J. T. Langhorne and W. B. Manny, New York, N. Y. Type-writer	712,944	Nov. 4	906	212	101	1082
Lotterhand, Jason C., New York, N. Y., assignor to J. T. Langhorne, St. Louis, Mo., and W. B. Manny, New York, N. Y. Type-writer	712,945	Nov. 4	910	212	101	1083
Lotterhand, Jason C., New York, N. Y., assignor to J. T. Langhorne, St. Louis, Mo., and W. B. Manny, New York, N. Y. Type-writer	713,009	Nov. 4	1015	238	101	1103
Lottier, Ernest, West Hoboken, N. J. Production of plastic articles	710,287	Sept. 30	4493	1000	100	2955
Lottridge, George W., Bradley, assignor to F. R. Sleeper and E. H. Macey, Chicago, Ill. Automatic weighing-machine	694,487	Mar. 4	274	63	98	1770
Lottridge, William M., Galesburg, Ill., assignor of one-half to J. E. Haptonstall, Tire	711,729	Oct. 21	2566	564	101	565
Lotz, Augustus, assignor of one-half to J. Haas and J. Kahn, San Francisco, Cal. Apparatus for cleaning carpets	695,162	Mar. 11	1587	352	98	2065
Lotz, Orlando J., <i>et al.</i> (See Miller, Jacob B., assignor.)						
Louden, William, Fairfield, Iowa. Door-hanger	700,211	May 20	2125	490	99	1648
Louden, William, Fairfield, Iowa. Pulley	700,312	May 20	2137	490	99	1648
Louden, William, Fairfield, Iowa. Roll-holding camera	706,245	Aug. 5	465	99	100	1210
Louden, William, Fairfield, Iowa. Door-hanger	707,853	Aug. 26	3632	817	100	1909
Louder, Joel H., Elgin, Ill. Display-box and support for neckties	690,864	Jan. 7	939	210	98	197
Louden, William A. (See Leonard, Samuel, assignor.)						
Lougee, Amanda M., Boston, Mass. Making electric conduits	717,009	Dec. 30	4705	1020	101	2892
Lougee, Amanda M., assignor to Clifton Manufacturing Company, Boston, Mass. Making electric conduits	713,122	Nov. 11	1246	284	101	1170
Lougee, Amanda M., assignor to Clifton Manufacturing Company, Boston, Mass. Electric conduit	713,123	Nov. 11	1249	284	101	1171
Lougee, Edwin A., Haverhill, Mass., assignor, by mesne assignments, to United Shoe Machinery Company. Means for detaining or releasing top lifts in heel-nailing machines	707,143	Aug. 19	2185	490	100	1537
Lough, Hector W., North Plainfield, N. J. Toy	717,230	Dec. 30	5147	1116	101	2988
Louis, Frank A. (See Werner, Gerthil R., assignor.)						
Louis, Frank J., Belleville, Ill. Cut-off for drain-pipes	713,466	Nov. 11	1927	436	101	1310
Loundsbury, Charles H. (See Sneekner, Frank A. L., assignor.)						
Lourie, Ralph B. (See Henderson, Henry T., assignor.)						
Love, Charles W., New Athens, Ohio. Grain-drill, disk, and hoe	693,536	Feb. 18	2483	545	98	1350
Love, Charles W., New Athens, Ohio. Drill and fertilizer-distributor	693,537	Feb. 18	2484	545	98	1357
Love, Edgar, Darlington, Ind. Fence-post brace	714,644	Nov. 25	4217	932	101	1814
Love, Henry M., Wilmington, Del. Woman's drawers	701,744	June 3	836	183	99	2233
Love, Isom, and W. Ray, Panama, Mo. Railway-lantern	697,348	Apr. 8	1782	400	99	399
Love, Robert T., Stewarton, Scotland. Valve-gear	705,414	July 22	4014	869	100	236
Love, Samuel, New York, N. Y., assignor of one-half to M. L. Simon. Combined railway cross-tie and chair	709,787	Sept. 23	3456	778	100	2738
Love, Samuel, New York, N. Y., assignor of one-half to H. L. Maynard and T. J. Wool, Portsmouth, N. H. Pipe-wrench	691,152	Jan. 14	1457	332	98	318
Love, William, Bryn Mawr, Pa. Pipe-wrench	701,489	June 3	379	85	99	2186
Lowe, Arthur H., Gallia, N. J. Air-heater	700,519	May 20	2761	632	99	1776
Lovejoy, Charles E., Lowell, Mass., assignor to Sawyer Spindle Company, of Maine. Spinning-spindle	708,374	Sept. 2	674	152	100	2118
Lovejoy, Clinton C., Providence, R. I. Combined pencil holder and sharpener	698,122	Apr. 22	3262	714	99	740
Lovejoy, Dimmitt R. (See Bradley and Lovejoy.)						
Lovelin, Luther D. (See Lasse and Lovelin.)						
Lovelin, Luther D., Ardmore, Pa., assignor to New York Shipbuilding Company, Camden, N. J. Compound-engine structure	715,279	Dec. 9	1196	255	101	2609
Loveland, Palmer C. (See Jones, Theodore N., assignor.)						
Loveless, Fred H., Lafayette, Ind., assignor of one-half to C. L. Daniels, Tiffin, Ohio. Brush	710,161	Sept. 30	4211	949	100	2908

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Lovell, Albert K., New York, N. Y. Snap-hook.....	691,396	Jan. 21	1972	442	98	446
Lovell, Albert K., New York, N. Y. Lacing-hook.....	714,591	Nov. 25	4115	910	101	1795
Lovell, Alfred. (See Posson, Edward, assignor.)						
Loveridge, Frederick H. (See McBerty and Loveridge.)						
Lovering, Charles L. (See Peck, Ira F., assignor.)						
Lovett, Charles W. (See Willmott and Lovett.)						
Lovett, James A. B., Blountsville, Ala. Tellurian.....	704,350	July 8	1848	400	100	391
Lovett, Joseph W., et al. (See Jackson, Benjamin F., assignor.)						
Lovett, Thomas J. (See Flora, Ellsworth E., assignor.)						
Lovis, Henry C., New York, N. Y., assignor to Seabury & Johnson. Suspensory bandage.....	713,318	Nov. 11	1670	376	101	1255
Low, Abbot A. (See Hill and Rivett, assignors.)						
Low, Abbot A. (See Johnson and Low.)						
Low, Abbot A. (See Tuck and Wassmann, assignors.)						
Low, Abbot A., Brooklyn, N. Y. Hydrocarbon-heater.....	710,108	Sept. 30	4102	923	100	2884
Low, Abbot A., Brooklyn, N. Y. Means for securing closing-caps permanently with vessels.....	715,399	Dec. 9	1419	306	101	2145
Low, Abbot A., Horseshoe, N. Y. Cutting device.....	710,109	Sept. 30	4104	926	100	2884
Low, Abbot A., Horseshoe, N. Y. Holder for tickets, cards, &c.....	712,500	Nov. 4	196	46	101	998
Low, Abbot A., Horseshoe, N. Y. Means for preserving maple-sugar.....	715,400	Dec. 9	1420	396	101	2145
Low, Abbot A., Brooklyn, assignor to Alden Type Machine Company, New York, N. Y. Type-distributing apparatus.....	710,066	Sept. 30	4007	905	100	2866
Low, Abbot A., and J. Breaker, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-distributing apparatus.....	692,883	Feb. 11	1211	268	98	1073
Low, Abbot A., and J. Breaker, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-channel holder.....	694,488	Mar. 4	279	63	98	1771
Low, Abbot A., and J. Breaker, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-distributing apparatus.....	699,402	May 6	526	121	99	1283
Low, Frederic F., Boston, Mass. Door.....	704,687	July 15	2833	612	100	607
Low, Hamilton F., New York, N. Y. Dish-washing machine.....	706,473	Aug. 5	948	206	100	1307
Low, James A., Honolulu, Hawaii. Cane-car stake-pocket.....	695,065	Mar. 11	1404	308	98	2026
Low, John W. (See Carrier and Low.)						
Low, Walter H. (See Woodman and Lindsey, assignors.)						
Lowder, Lindsey T., Bloomington, Ind. Means for preventing injury in using X-rays.....	710,201	Sept. 30	4237	965	100	2926
Lowe, Amanda. (See Lowe, Jacob P., assignor.)						
Lowe, Francis S., Henley-on-Thames, England. Rowlock.....	710,873	Oct. 7	902	196	101	183
Lowe, Jacob P., assignor to A. Lowe, Bellville, Ohio. Safety attachment for vehicles.....	700,957	May 27	3593	826	99	1965
Lowe, John M., assignor of one-third to G. L. Row, Butler, Ind. Pump-handle.....	698,720	Apr. 23	4419	975	99	1001
Lowe, John M., assignor of one-third to G. L. Row, Butler, Ind. Pump-rod coupling.....	698,721	Apr. 23	4420	975	99	1001
Lowe, John T., Boston, assignor of two-thirds to M. P. McLaughlin, Somerville, and J. N. Smith, Wollaston, Mass. Treating gas-tar residuum.....	708,510	Sept. 2	921	209	100	2108
Lowe, Marvel A., Marfa, Tex., assignor of one-third to M. G. McCulloch, Denver, Colo. Self-heating branding-iron.....	690,971	Jan. 14	1141	259	98	254
Lowe, Thaddeus S. C., Pasadena, Cal. Apparatus for the manufacture of coke and the recovery of gases therefrom.....	711,904	Oct. 21	2909	642	101	637
Lowe, Thaddeus S. C., Los Angeles, Cal. Manufacturing coke.....	711,905	Oct. 21	2916	643	101	638
Low, Theodore W., Stockton, Cal. Windmill.....	708,375	Sept. 2	675	152	100	2118
Lowell, Grant S., Salina, Kans. Windmill.....	698,299	Apr. 23	3589	789	99	87
Lowell, Maurice E., Beverly, Mass. Ship's steering apparatus.....	707,607	Aug. 26	3076	692	100	1801
Lowenthal, Jacob. (See Seymoure, Harry A., assignor.)						
Lowenthal, Jacob, Chicago, Ill. Adjustable standard for mirror-frames, &c.....	707,707	Aug. 26	3255	735	100	1844
Lower, William S. (See Smith, George S., assignor.)						
Lowerre, Thomas R., New York, N. Y. Pool or billiard apparatus.....	704,892	July 15	2839	615	100	608
Lowrey, Frank J., and F. E. Billings, Port Fairfield, Me. Sash balance and fastener.....	714,720	Dec. 2	133	27	101	1864
Lowrey, Robert F., Perduehill, Ala. Cotton-chopper.....	696,348	Mar. 25	3233	852	98	2557
Lowrie, Edward A. (See Krygowski and Lowrie.)						
Lowrie, Harvey C., Denver, Colo. Safe.....	693,142	Feb. 11	1721	377	98	1178
Lowrie, Harvey C., Denver, Colo. Combination-lock.....	711,325	Oct. 14	1790	387	101	388
Lowrie, Harvey C., Denver, Colo. Wall-safe or lock-box.....	711,326	Oct. 14	1798	388	101	388
Lowry, Edward S. (See Ray, Alexander, assignor.)						
Lowry, Er R., assignor of one-half to J. J. Frawley, New York, N. Y. Dip-waist-belt buckle.....	695,940	Mar. 25	2989	675	98	2384
Lowry, George, Tiffin, Ohio. Rock-breaker.....	693,288	Feb. 11	2020	441	98	1239
Lowry, George, Tiffin, Ohio. Stone-crusher.....	693,289	Feb. 11	2025	441	98	1240
Lowry, George A., et al. (See Mayberry, Frank E., assignor.)						
Lowry, George A., Chicago, Ill. Nippers.....	715,401	Dec. 9	1420	307	101	2145
Lowry, George A., Chicago, Ill., assignor to Planters Compress Company, Boston, Mass. Forming bales of fibrous or other material.....	691,953	Jan. 28	3002	674	98	676
Lowry, George A., Chicago, Ill., assignor to Planters Compress Company, Boston, Mass. Bale of hay or other material.....	691,954	Jan. 28	3005	674	98	676
Lowry, George A., Chicago, Ill., and J. T. Cowley, Lowell, Mass., assignors, by mesne assignments, to Planters Compress Company of Maine. Apparatus for compressing fibrous or other material.....	715,824	Dec. 16	2245	501	101	2333
Lowry, Walter F., McMinnville, Tenn. Fireplace and grate blower.....	717,231	Dec. 30	5148	1116	101	2989
Lowther, Christopher M. (See Fox and Lowther.)						
Lowther, Thomas J., Shreveport, La. Shipping-crate for bananas.....	690,657	Jan. 7	557	121	98	119
Lowthine, David A., London, England. Magazine-camera.....	700,792	May 27	3295	756	99	1906
Lowy, Joseph, New York, N. Y. Incandescent gas-lamp.....	708,070	June 24	3306	760	99	2841
Loyer, Eustache, Cleveland, Ohio. Game and library table.....	695,572	Mar. 17	2333	528	98	2237
Loyer, William J., San Marcos, Tex. Acetylene-gas generator.....	710,874	Oct. 7	903	196	101	183
Loygorri y Murrieta, Cristobal G., Madrid, Spain. Compound faucet for fluids.....	697,739	Apr. 15	2526	563	99	566
Lozano, Olivia L., et al. (See Arnold, Cyrus M., assignor.)						
Lozier Motor Company. (See Burwell, George A., assignor.)						
Lozier, Robert T., New York, N. Y. Motor regulation.....	714,210	Nov. 25	3423	753	101	1656
Lübbecke, Theodor W., Hamburg, Germany. Spraying apparatus.....	716,910	Dec. 30	4508	978	101	2851
Lubberger, Hans, assignor to L. W. Gans, Frankfort-on-the-Main, Germany. Clarifying liquids.....	706,075	Aug. 5	145		100	1146
Lubbers, John H., New Kensington, assignor to J. A. Chambers, trustee, Pittsburg, Pa. Apparatus for drawing glass.....	702,013	June 10	1308	299	99	2394



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Lubbers, John H., New Kensington, assignor to J. A. Chambers, trustee, Pittsburg, Pa. Drawing glass	702,014	June 10	1312	299 300	99 2395
Lubbers, John H., New Kensington, assignor to J. A. Chambers, trustee, Pittsburg, Pa. Glass-drawing apparatus	702,015	June 10	1315	300	99 2395
Lubbers, John H., New Kensington, assignor to J. A. Chambers, trustee, Pittsburg, Pa. Drawing glass	702,016	June 10	1316	300 301	99 2396
Lubbers, John H., Allegheny, assignor to J. A. Chambers, trustee, Pittsburg, Pa. Apparatus for drawing glass	702,017	June 10	1318	301 302	99 2396
Lubbes, Julius C. (See Ashcraft and Lubbes.)					
Lubin, David, New York, N. Y. Power device	714,313	Nov. 25	3018	796 797	101 1695
Lubin, David, New York, N. Y. Agricultural tool	715,099	Dec. 2	874	186	101 2015
Lubin, David, New York, N. Y. Power-operated agricultural machine	717,332	Dec. 30	5150	1116	101 2389
Lubin, David, New York, N. Y. Agricultural implement	717,521	Dec. 30	5650	1226	101 3062
Lubin, Louis. (See Besse and Lubin.)					
Lucabaugh, Levi H., Barbers Mill, Ind. Device for holding doors	708,238	Sept. 2	449	102	100 3773
Lucas, Frank A., Paducah, Ky. Non-refillable bottle	710,875	Oct. 7	905	196	101 184
Lucas and Gliem Machine Works. (See Lucas, William H., assignor.)					
Lucas, Jonathan, Charleston, S. C. Envelop	696,985	Apr. 8	1158	287	99 266
Lucas, Nannie P., Washington, D. C. Grater	700,837	Aug. 12	1623	395	100 1467
Lucas, Thomas H., Minneapolis, Minn. Grate	700,061	May 13	1747	416	99 1558
Lucas, William H., Philadelphia, Pa., assignor to Lucas and Gliem Machine Works. Power-transmitting mechanism	693,294	Feb. 11	2029	442	98 1240
Luce, Curtis O., Brandon, Vt. Suspenders	708,154	Sept. 2	288	69	100 2041
Luce, William D., Haverhill, Mass. Weight-motor for gas-machines	703,071	June 24	3308	761	99 2842
Lucie, William T., Easton, Pa. Stopping device for looms	707,139	Aug. 19	2152	483	100 1591
Luck, George A., Amesbury, Mass. Horseshoe	696,649	Apr. 1	461	107	99 99
Luck, Gustave J., Milwaukee, Wis., assignor of one-half to Allis-Chalmers Company, Chicago, Ill. Measuring instrument	704,267	July 8	1674	364 608 610	100 351
Lucke, Fritz, Berlin, Germany. Type-casting machine	697,850	Apr. 15	2742	609	99 615
Luckenbach, Harry, assignor of one-half to J. A. Ellwell, Seattle, Wash. Rock-pulverizer	697,507	Apr. 15	2095	465	99 480
Luckhaus, Walter. (See Pfennig, Carl A., assignor.)					
Ludde, Elard, Maspeth, N. Y. Waker for sad-irons	699,881	May 13	1486	341	99 1496
Ludewig, William R. (See Gundlach and Ludewig.)					
Ludin, Eugene C., New York, N. Y. Bottle-holder	703,802	July 1	790	174	100 158
Ludington, Frank J., Waterbury, Conn. Continuous cigarette-machine	700,958	May 27	3594	827 957	99 1965
Ludington, Frank J., Waterbury, Conn. Machine for making individual cigarettes	705,591	July 20	4413	957 958	100 953
Ludington, Frank J., Waterbury, Conn. Cigarette forming, wrapping, and ironing appliance	711,987	Oct. 28	3089	677 678	101 691
Ludington, Frank J., Waterbury, Conn. Making cigarettes from continuous cigarette-rolls	711,987	Oct. 28	3096	678	101 693
Ludington, Harry P. (See Fisher and Ludington.)					
Ludington Novelty Company. (See Haskell, Henry L., assignor.)					
Ludlow, James T., San Francisco, Cal. Ammonia-compressor	701,062	July 8	1284	278	100 270
Ludlow, Hanford. (See Ludlow, Ross A., assignor.)					
Ludlow, Ross A., assignor of one-half to M. Ludlow, Hanford, Cal. Transferring car or truck	701,205	May 27	4053	932	99 2063
Ludolph, Frank J., Irondequoit, N. Y. Trolley-arm head	698,979	Apr. 29	4918	1087	99 1119
Ludwick, John J., et al. (See Rice, Jesse T., assignor.)					
Ludwig, Albert, Bernburg, Germany. Vessel for the reception of high-pressure gases	699,333	May 6	385	90	99 1253
Ludwig & Company. (See Salver, Harry M., assignor.)					
Ludwig, Edmund B., Kansas City, Mo. Gas-generator for street-lamps	711,512	Oct. 21	2142	466	101 475
Ludwig, Johann, assignor of one-half to F. Siebel, Mayence, Germany. Vehicle-wheel tire	690,908	Jan. 7	1020	230	98 213
Ludwig, John, and J. Carstens, Newtonburg, Wis. Implement for destroying plants	696,986	Apr. 8	1159	258	99 266
Lueckenbach, Anton T., Neenah, Wis. Rotary suction apparatus for paper-machines	716,844	Dec. 23	4377	949	101 2898
Lueder, John T., et al. (See Hayward, Eugene, assignor.)					
Luellen, Lawrence W., Olathe, Kans. Voting-machine	693,039	Feb. 11	1508	328	98 1136
Luellen, Lawrence W., Olathe, Kans. Voting-machine	694,765	Mar. 4	828	183 184	98 1887
Luellen, Lawrence W., Olathe, Kans. Placket-closure	697,860	Apr. 15	2756	610	99 618
Luethi, Alexander, Lakemills, Wis. Sad-iron	690,972	Jan. 14	1144	259	98 254
Luethi, Alexander, Lakemills, Wis. Separable trousers-button	696,908	Apr. 1	903	221	99 210
Luethi, Alexander, assignor of two-thirds to W. A. and C. Engsborg, Lakemills, Wis. Sad-iron	693,876	Feb. 25	3152	697 357 358	98 1511
Luethy, Fredrick C., Chicago, Ill. Station-indicator	693,921	May 13	1554	357 358	99 1509
Lufkin, Chauncey F., Lima, Ohio. Adjustable grip	693,411	Feb. 18	2264	495 496	98 1311
Lufkin, Richard H., Medford, Mass. Leather-folding machine	713,657	Nov. 18	2321	517 518	101 1435
Luhmann, Eduard, Münster, Germany. Apparatus for the production of pure carbonic-acid gas from carbonates in a continuous manner	706,972	Aug. 12	1860	416	100 1513
Lühne, Johann, Aachen, Germany. Apparatus for the manufacture of glass, &c	698,990	Apr. 29	4920	1087	99 1111
Lühne, Johann, Aachen, Germany. Electric furnace for making glass, &c	698,981	Apr. 29	4921	1088	99 1111
Luitink, Peter H., assignor to Luitink and Sons Manufacturing Company, Milwaukee, Wis. Lath-churner	707,131	Aug. 19	2153	483	100 1591
Luitink and Sons Manufacturing Company. (See Luitink, Peter H., assignor.)					
Luitwiler, Samuel W., Los Angeles, Cal. Centrifugal pump	715,825	Dec. 16	2253	501 502	101 2335
Luke, Alexander C., Piner, Ky. Paper trimming and pasting machine	715,462	Dec. 9	1422	307	101 2146
Luke, Charles, Milford, assignor to New Haven Novelty Machine Company, New Haven, Conn. Cable connection	701,208	May 27	4055	932	99 2061
Luke, Charles, Milford, assignor to New Haven Novelty Machine Company, New Haven, Conn. Covering means for joints in electric cables	701,209	May 27	4057	932	99 2064
Luke, Charles, Milford, assignor to New Haven Novelty Machine Company, New Haven, Conn. Cable connection for covering spliced joints	701,210	May 27	4058	932	99 2064
Lukens Iron and Steel Company. (See Vanderslice, John H., assignor.)					
Lukens, William V. (See McCoy and Lukens.)					
Lum, George F. (See Howard and Lum.)					
Lumbert, Frank L., Everett, Mass. Cask-handling device	692,206	Jan. 28	3457	781	98 798

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Lumgair, David, West Bay City, Mich. Mangle	700,062	May 13	1798	417	99	1558
Lumière, Auguste and L. Lyons, France. Projecting apparatus	705,771	July 29	4743	1027	100	1019
Lumière, Auguste and L. Lyon-Monplaisir, France. Panoramic photographic apparatus	708,775	Sept. 9	1406	322	100	2280
Lumière, Louis. (See Lumière, Auguste and L.)						
Lumley, John. (See Borrowe and Lumley.)						
Lumley, William, Chicago, Ill. Card list or index	706,838	Aug. 12	1625	365	100	1467
Lumpkin, Robert E., Stairs, Tex. Cotton-gin	706,347	May 20	2425	553	99	1706
Lumsden, John. (See Craig, James A., assignor.)						
Lumsden, William G. (See Glenn, George G., assignor.)						
Lund, George, Victoria, Canada. Gas-burner	706,973	Aug. 12	1862	416	100	1518
Lund, Joel, assignor of one-half to F. C. H. Miller, San Francisco, Cal. Boring implement	710,700	Oct. 7	573	120	101	118
Lund, Matthew. (See Fox and Lund.)						
Lundberg, Adolf S., and F. L. West, Everett, assignors of one-half to E. A. Levian, Boston, Mass. Stud or button	713,465	Nov. 11	1926	436	101	1310
Lundberg, Charles A., assignor to Consolidated Dental Manufacturing Company, New York, N. Y. Dental-tool holder	713,319	Nov. 11	1672	376	101	1255
Lundberg, Fritz L. (See Lundberg, Adolf S. and F. L.)						
Lundberg, August F., Stockholm, Sweden. Apparatus for printing carpets, mats, &c.	690,746	Jan. 7	743	165	98	156
Lundberg, August F., Stockholm, Sweden. Extracting oils	707,854	Aug. 26	3624	817	100	1909
Lundell, Robert, New York, N. Y. Field-magnet for dynamo-electric machines or electric motors	695,163	Mar. 11	1589	353	98	2065
Lundell, Robert, New York, N. Y. Means for regulating electric motors	711,667	Oct. 21	2443	533	101	539
Lundell, Robert, New York, N. Y. Armature-winding for electric motors or dynamos	714,721	Dec. 2	135	27	101	1865
Lundell, Robert, New York, N. Y. Means for regulating and protecting electric motors	716,445	Dec. 23	2498	764	101	2612
Lundell, Robert, assignor of one-half to C. J. Kintner, New York, N. Y. Combined air and explosive engine	691,788	Jan. 28	2707	608	98	616
Lundgren, Axel L., Pullman, Ill. Square	708,376	Sept. 2	679	153	100	2119
Lundgren, Axel L., Pullman, assignor of one-half to H. W. Wolfe, Chicago, Ill. Plane	706,576	Aug. 12	1120	247	100	1357
Lundgren, Ernst, <i>et al.</i> (See Sporrung, Carl A., assignor.)						
Lundgren, Jacob, Philadelphia, Pa., assignor to H. M. Harley, Gloucester City, N. J. Braiding-machine	695,746	Mar. 18	2623	596	98	2204
Lundholm, Carl O., Stevenston, Scotland. Smokeless gunpowder	701,591	June 3	563	99	99	2225
Lundholm, Charles G., San Bernardino, Cal. Burner for liquid fuels	708,893	Sept. 9	1665	382 383	100	2334
Lundin, Emil O. (See Gilbert and Lundin.)						
Lundin, Emil O., <i>et al.</i> , administrators. (See Gilbert, Frederick A.)						
Lundman, Carl J., <i>et al.</i> (See Stensens, Rudolph, assignor.)						
Lundquist, Daniel E. A., Irene, S. D. Twine-holder	713,124	Nov. 11	1251	284	101	1171
Lundquist, Erick G., Los Angeles, Cal. Bed-rail	702,370	June 10	1947	443	99	2594
Lundquist, Frank A., <i>et al.</i> (See Brownrigg and Norstrom, assignors.)						
Lundquist, Richard, Laguna de Terminos, Mexico. Sail for marine vessels	700,520	May 20	2762	632	99	1776
Lundskog, Julius W. A. (See Christensen, Nils, assignor.)						
Lundstrom, Carl J., Littlefalls, N. Y. Liner for centrifugal cream-separators	715,493	Dec. 9	1602	346	101	2181
Luneburg, Vincent M., Chicago, Ill. Pouring-spout for bottles	715,100	Dec. 2	875	167	101	2015
Lunken, Edmund H., Denver, Colo., and H. Ritter, Delhi, assignors to Lunkenheimer Company, Cincinnati, Ohio. Gate-valve	710,986	Oct. 14	1109	244 245	101	243
Lunkenheimer Company. (See Lunken and Ritter, assignors.)						
Lunkenheimer Company. (See Ritter, Henry, assignor.)						
Lunkenheimer Company. (See Sumner, Harry W., assignor.)						
Lunt, Alexander D., Schenectady, N. Y., assignor to General Electric Company. Means for preventing creeping of meters	696,459	Apr. 1	117	28	99	30
Lunt, Alexander D., Schenectady, N. Y., assignor to General Electric Company. Multiple-conductor system	697,733	Apr. 15	2516	561	99	563
Lunt, Alexander D., Schenectady, N. Y., assignor to General Electric Company. Multiple-metering system	706,575	Aug. 12	1119	247	100	1357
Lunt, Alexander D., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution	710,067	Sept. 30	4009	905	100	2887
Lunt, Alexander D., Schenectady, N. Y., assignor to General Electric Company. Regulation of dynamo-electric machines	712,561	Nov. 4	107	46	101	938
Lunt, Alexander D., Schenectady, N. Y., assignor to General Electric Company. Regulating dynamo-electric machines	713,010	Nov. 4	1919	238 239	101	1104
Lunt, George W., assignor to Consolidated Fruit Jar Company, New Brunswick, N. J. Bottle-stopper	716,257	Dec. 16	3127	685	101	2520
Luppert, Valentine C., South Williamsport, Pa. Friction-hinge	714,384	Nov. 25	3742	826	101	1720
Luquer, Cornelius F., Montgomery, N. Y. Canal-lock gate	713,780	Nov. 18	2545	567	101	1454
Lurati, Ernesto, Traun, near Lintz, Austria-Hungary. Fixing dyes on indigo	700,521	May 20	2763		99	1776
Lurch, Edward, assignor of two-thirds to H. C. Babcock, Jr., and J. P. Tupper, New York, N. Y. Swing (Reissus)	72,018	July 29	5149	1123	100	1102
Lutz, Karl, Kronstadt, Austria-Hungary. Device for cleaning lamps, glass, &c.	698,527	Apr. 29	3978	879	99	905
Luschka, August R., assignor, by mesne assignments, to W. Scheidel, Chicago, Ill. Rotary circuit-breaker	690,973	Jan. 14	1145	259	98	255
Luscomb, John F., Boston, Mass. Means for regulating the tension of diaphragms of sound-producing instruments	695,883	Mar. 18	2882	653	98	2349
Luse, David N., Chinoock, Mont. Neck-yoke attachment	703,938	July 1	1036	225	100	206
Luther, Benjamin G., Worcester, Mass. Railway cut-off saw	714,314	Nov. 25	3620	727 728	101	1696
Luther, Charles J., Redbank, N. J. Gas-generator	709,788	Sept. 23	3458	778	100	2738
Luther, Paul, Allegheny, Pa. Switch-throwing device	698,982	Apr. 29	4924	1088	99	1111
Lutter, John H., Covington, Ky., assignor to Fred. J. Meyers Manufacturing Company, Hamilton, Ohio. Car-fender	709,991	Sept. 30	3880	875	100	2838
Luttrell, Theophilus W. (See Peyton and Luttrell.)						
Lutz, Alexander. (See Anderson, Stevens, and Lutz.)						
Lutz, Alexander, assignor to United States Sanitary and Utility Sewage Disposal Company of New Jersey, New York, N. Y. Portable derrick	701,906	June 10	1113	255	99	2357
Lutz, Charles. (See Seabury and Lutz.)						
Lutz, Daniel, assignor to Thomas Manufacturing Company, Springfield, Ohio. Ball-bearing	693,291	Feb. 11	2030	442	98	1241
Lutz, George A., Brooklyn, assignor of one-half to T. E. Quinn, New York, N. Y. Flexible conduit tube	706,076	Aug. 5	146	30	100	1146
Lutz, John E. G., <i>et al.</i> (See Lutz, William F. J., assignor.)						
Lutz, Joseph E. (See Arnold and Cranston, assignors.)						
Lutz, Peter, Bamberg, Germany. Making preservatives for violin-strings	699,541	May 6	770		99	1334
Lutz, Theodore E. (See Hayes and Lutz.)						
Lutz, William F. J., assignor of two-thirds to H. A. Schloetzer and J. H. G. Lutz, Chicago, Ill. Infinit battery-plates	700,959	May 27	3597	828	99	1966
Lutz, William F. J., assignor of two-thirds to H. A. Schloetzer and J. H. G. Lutz, Chicago, Ill. Mold	714,385	Nov. 25	3743	826	101	1720



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Lützenburger, Georg, Schlauersbach, Germany. Wheat-scouring machine.	695,106	Mar. 11	1470	327	98	2039
Luyckx, Albert C., Detroit, Mich. Barrel-machine.	694,167	Feb. 25	3734	825	98	1627
Lybrink, John F., Chicago, Ill. Mixing-tank.	714,315	Nov. 25	3622	798	101	1696
Lyddon, Henry A., Brainerd, Minn. Lubricator.	701,745	June 3	838	184	99	2238
Lydick, Ernest B., Pittsburgh, Pa. Vibrating sign.	692,686	Feb. 4	836	190	98	971
Lydick, Ernest B., Pittsburgh, Pa. Boller or toaster.	696,876	Apr. 1	904	298	99	191
Lydick, Henry S., Pittsburgh, Pa. Drafting apparatus.	695,747	Mar. 18	2629	597	98	2295
Lydon, John F., assignor to International Manufacturing Company, Davenport, Iowa. Lock.	703,962	July 1	1095	236	100	217
Lydon, John F., assignor to International Manufacturing Company, Davenport, Iowa. Sliding door.	704,846	July 15	2758	596	100	220
Lydon, John F., assignor to International Manufacturing Company, Davenport, Iowa. Door-hanger.	705,262	July 22	3698	802	100	797
Lyes, John, Buffalo, N. Y. Window.	692,150	Jan. 28	3370	763	98	749
Lyke, Nathaniel, Jamestown, N. Y. Vegetable-cutter.	714,925	Dec. 2	575	122	101	1950
Lykens, Joseph T., Crumlyne, Pa. Clamp for leather-setting frames.	705,105	July 22	3342	725	100	726
Lyle, Daniel C. (See Winder, James C., assignor.)						
Lyle, Robert W., Perth Amboy, N. J. Conduit for electric wires or cables.	702,662	June 17	2517	577	99	2604
Lyle, Robert W., Perth Amboy, N. J. Conduit for electric wires or cables.	702,663	June 17	2517	577	99	2604
Lyle, Robert W., Perth Amboy, N. J. Conduit for electric wires.	706,974	Aug. 12	4963	417	100	1513
Lyle, Robert W., Perth Amboy, N. J. Machine for cutting recesses in conduit-sections.	709,025	Sept. 16	1945	446	100	2408
Lyle, William G., and J. E. Stewart, New York, N. Y. Apparatus for vaporizing liquids.	694,396	Mar. 4	116	26,27	98	1737
Lyle, William P., Philadelphia, Pa. Toy.	702,861	June 17	2889	668	99	2742
Lyman, Chauncey O., Brockwayville, Pa. Swing.	695,465	Mar. 18	2111	475	98	2190
Lyman, James O., Waterbury, Conn. Electric program-clock.	702,808	June 17	2796	642	99	2732
Lyman, Jonathan F., South San Francisco, Cal. Construction of chimneys, walls, &c.	716,446	Dec. 23	3501	765	101	2613
Lymburner, Eli W., Warner, Canada. Bicycle.	702,976	June 24	3131	720	99	2898
Lynch, Albert E., et al. (See Peaty and Bullard assignors.)						
Lynch, Alfred. (See Thomas and Lynch.)						
Lynch, Charles P., assignor to St. Louis University, St. Louis, Mo. Valve.	703,963	July 1	1097	236	100	218
Lynch, Elizabeth, Denison, Tex. Screen-door.	716,447	Dec. 23	3503	765	101	2613
Lynch, John B., South Glens Falls, N. Y. Function-box for paper-making machines.	705,684	July 22	3551	925	99	987
Lynch, Matthew W., Maitland, N. Y. Tank-heater.	698,983	Apr. 29	4925	1088	99	1112
Lynch, Matthew W., Madison, Wis. Lock-buckle.	695,404	Mar. 11	2007	450	98	2151
Lynch, Matthew W., Madison, Wis. Lock-buckle frame.	695,405	Mar. 11	2008	450	98	2151
Lynch, Morris T., and A. R. Hibson, Brooklyn, N. Y., assignors to National Folding Box & Paper Company, New Haven, Conn. Explodable paper toy.	702,065	June 10	1429	321	99	2420
Lynch, Thomas, Puritan, Pa. Nut-lock.	709,177	Sept. 23	3309	743	100	2708
Lynch, Thomas J., Ottawa, Ill. Loading attachment for hand-trucks.	700,960	May 27	3539	828	99	1966
Lynch, Thomas J., Ottawa, Ill. Loading attachment for hand-trucks.	701,592	June 3	954	123	99	2225
Lynch, Thomas M., and W. Huey, Tobyhanna, Pa. Sectional ice-conveyer gallery.	695,466	Mar. 18	2113	476	98	2191
Lynch, Vernon T., Chicago, Ill. Reconstructing railway-rails.	700,063	May 13	1800	417	99	1558
Lynch, William J. (See Guillelte, Lynch, and Guillelte.)						
Lyndard, William H., Council Bluffs, Iowa. Printer's quoin.	692,023	Jan. 28	3128	705	98	699
Lynd, Ives, Troy, N. Y. Railway-rail joint.	699,124	Apr. 29	5162	1142	99	1160
Lyndon, Lamar, New York, N. Y. Electron-manual water-wheel governor.	695,321	Mar. 11	1694	376	98	2086
Lyndon, Lamar, New York, N. Y. Governor for water-wheels or other motor devices.	710,788	Oct. 7	737	161	101	155
Lyne, Wickliffe C., Wilkinsburg, Pa. Postal advertising-blotter.	695,617	Mar. 18	2414	546	98	2253
Lyne, Fred, Johnstown, N. Y. Coin-controlled vending-machine.	698,984	Apr. 29	4926	1089	99	1112
Lyng, Olaf O., et al. (See Linscott, William D., assignor.)						
Lynn, B. J., et al. (See Robbins, Edward R., assignor.)						
Lynn, David, Athens, Pa. Machine for cutting tendons.	690,447	Jan. 7	117	25	98	27
Lynn, John, New York, N. Y. Advertising apparatus.	712,694	Nov. 4	422	100	101	985
Lynn, John E., et al. (See Robbins, Edward R., assignor.)						
Lynn, Robert, Holyoke, Mass. Trolley-support.	695,406	Mar. 11	2008	450	98	2151
Lynn, Samuel, assignor to McCaw, Stevenson & Orr, Limited, Belfast, Ireland. Box and drawer.	715,280	Dec. 9	1197	255	101	2099
Lyndott, John P., Louisiana, Mo. Heating or cooking attachment for stoves.	700,961	May 27	3601	829	99	1966
Lyon, Albert M. (See Gaffney, Charles H., assignor.)						
Lyon, Baxter, Providence, R. I. Fishing-rod.	692,884	Feb. 11	1212	269	98	1074
Lyon, Bernard C., New London, Conn. Folding mirror-support.	708,239	Sept. 2	449	102	100	2673
Lyon, Francis E., Atlantic, Iowa. Tool for removing boiler-flues.	716,911	Dec. 30	4510	978	101	2851
Lyon, Fred, assignor of one-half to W. J. Romer, Ithaca, N. Y. Wheel.	715,593	Dec. 9	1792	397	101	2219
Lyon, George T. (See Draper and Lyon.)						
Lyon, James W., Brooklyn, N. Y. Sash-fastener.	699,334	May 6	387	90	99	1253
Lyon, John W., Providence, R. I. Self-closing faucet.	692,024	Jan. 28	3130	705	98	700
Lyon, Louis, Sumpter, S. C. Envelope for holding samples of dress goods.	695,821	Mar. 18	2770	631	98	2324
Lyon, Newton W., Brighton, Iowa. Corn-shock carrier.	708,377	Sept. 2	680	153	100	2119
Lyon, Samuel, Hamburg, Germany. Color-shading wood.	700,348	May 20	2427	554	99	1706
Lyon, William S., assignor of one-half to J. Schmiermund, J. J. Butler, and N. Wolf, McKeesport, Pa. Cue.	711,906	Oct. 21	2924	643	101	640
Lyons, Frank W., Chandlersville, Ohio. Brake mechanism for traction or portable engines.	713,781	Nov. 18	2549	568	101	1455
Lyons, George L., Bradford, Pa. Curtain-pole and shade-roller bracket.	704,351	July 8	1850	400	100	391
Lyons, Joseph, Charming, Pa., assignor to American Telephone and Telegraph Company. Telephone.	705,685	July 29	4582	995	100	987
Lyons, Joseph, Washington, D. C., assignor to American Telephone and Telegraph Company. Telephone.	705,686	July 29	4585	995	100	987
Lyons, Joseph M., Evanston, Ill. Mold for molding maple-sugar.	696,686	Apr. 1	546	125	99	118
Lyons, Michael. (See Frazer, James W., assignor.)						
Lyte, Eliphalet O., Millersville, Pa. Fountain-pen with filler carried in the holder of said pen.	717,425	Dec. 30	5488	1191	101	3059
Lytle, Henry M., et al. (See McCormick, John, assignor.)						
Lytle, Herbert H., London, England. Gas or vapor burner.	696,061	Mar. 25	3219	727	98	2431
Lytle, James D., Baltimore, Md., assignor of one-third to W. G. Goodling, York, Pa. Multiple-fuse box.	700,695	May 20	3078	700	99	1845
M. Garland Company. (See Garland, Michael, assignor.)						
M. E. Kanaly Co. (See Kanaly, Morris E., assignor.)						
Ma Girl, Patrick. (See Wolcott and Ma Girl.)						
Maag, George, assignor to XXth Century Heating and Ventilating Company, Akron, Ohio. Grate.	707,855	Aug. 26	3625	817	100	1900
Maaké, Arthur, New York, N. Y. Bottle.	692,321	Feb. 4	186	43	98	888

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Maas, Charles E., Ridley Park, assignor of one-half to F. B. Greene, Germantown, Pa. Machine for embossing and printing	698,084	Apr. 22	3068	1674 1675	99	699
Maas, George J., Negaunee, Mich. Shaft construction	694,397	Mar. 4	120	27	98	1788
Maas, George J., Negaunee, Mich. Construction of shafts	694,398	Mar. 4	121	27	98	1788
Maas, George J., Negaunee, Mich. Pipe-jack	694,399	Mar. 4	124	28	98	1789
Maas, George J., Negaunee, Mich. Sinking shafts	701,490	June 3	380	85	99	2186
Maass, Frederick, Brookline, Mass. Apparatus	716,358	Dec. 16	9128	685	101	2821
Maass, Gottfried, Duisburg, Germany. Dust ring or disk for axle-boxes	705,263	July 22	3699	802	100	797
Mable, George W., Brooklyn, N. Y. Fountain-pen holder	711,988	Oct. 28	3908	679	101	693
Mable Todd and Bard. (See Slater, John, assignor.)						
Mabus, John, and F. L. Hay, Lilly, Ill. Corn or grain dump and elevator	698,528	Apr. 29	3978	879 880	99	906
MacCallum, John, Jr., assignor of two-thirds to C. B. Dougherty and W. Sharpe, Wilkes-barre, Pa. Clutch	695,407	Mar. 11	2011	451	98	2152
MacClain, Cornelious J., and S. S. Colvin, Hatton, Ohio. Pipe-coupling	695,066	Mar. 11	1405	308	98	2026
MacCollin, William H., assignor to Warren-Ehret Company, Philadelphia, Pa. Mechanical calculator	697,861	Apr. 15	2737	611	99	618
MacCormack, John, Bayonne, N. J., assignor to R. C. Peabody, Brooklyn, N. Y. Furnace	696,987	Apr. 8	1160	1259	99	267
MacCormack, John, Bayonne, N. J., assignor to R. C. Peabody, Brooklyn, N. Y. Roller-grate	707,708	Aug. 26	3286	735	100	1814
MacCormack, John, Bayonne, N. J., assignor to R. C. Peabody, Brooklyn, N. Y. Automatic stoker for mine refuse or other very fine fuel	715,826	Dec. 16	2255	502	101	2335
MacCulloch, Robert C., Des Moines, Iowa. Stove for heating, cooking, and baking	697,506	Apr. 15	2097	465	99	480
MacDonald, Alexander P., Chicago, Ill. Automatic grain-scale	717,426	Dec. 30	5490	1191	101	3059
MacDonald, James M., assignor to Parke, Davis & Company, Detroit, Mich. Disintegrating-machine	699,762	May 13	1228	286	99	1440
MacDonald, Thomas A., Boston, Mass. Valve for pumps, &c.	709,273	Sept. 16	2441	552	100	2514
MacDonell, James D., Little River, Fla. Composition of matter for cement	691,397	Jan. 21	1973		98	446
MacDougall, Frederick S., Seattle, Wash. Clothes-drier	714,001	Nov. 18	2977	663	101	1544
MacElroy, Joseph S. (See Scholes, William, assignor.)						
MacGregor, Hugh K., Clydebank, Scotland. Dressing for fish, &c.	691,154	Jan. 14	1461		98	320
MacGregor, John. (See Pierce, Henry N., assignor.)						
MacGregor, Wallace F., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Steering mechanism for trail-vehicles	714,926	Dec. 2	576	122	101	1951
MacHale, Richard L., New York, N. Y. Dough-mixing machine	712,144	Oct. 28	3390	743	101	749
MacIntosh, Neil W., New York, N. Y. Fire-arch for steam-boilers	712,695	Nov. 4	426	100	101	985
MacKenzie, Daniel, Owen Sound, Canada. Combined baby carriage and sleigh	692,464	Feb. 4	424	100	98	886
MacKenzie, James A., Minneapolis, Minn. Hinge-mortising machine	699,385	May 6	389	90, 91	99	1253
MacKenzie, John D. (See Waring, Peter J. M., assignor.)						
MacLaughlin, Railway Brake Company. (See MacLaughlin, William G., assignor.)						
MacLaughlin, William G., Windsor, Canada, assignor to MacLaughlin Railway Brake Company, Detroit, Mich. Air-brake system	705,592	July 29	4423	959	100	955
MacLean, James, Boston, Mass. Hinge	700,435	May 20	2591	538	99	1739
MacLean, Phineas G., Bonton, N. J. Coin-operated vending-machine	704,201	July 8	1571	389	100	329
MacLean, William B., Galetta, Canada. Fence-lock	705,951	July 29	5062	1102	100	1084
MacLennan, William F. (See Skinner, William A., assignor.)						
MacMaster, Peter. (See Brook, Frank, assignor.)						
MacMillan, Clyde, assignor of two-thirds to L. J. Edler and A. S. Mahaffey, Williamsport, Pa. Umbrella rib and stretcher-joint	710,328	Sept. 30	4506	1015	100	2972
MacMillan, Simpson G., Brookfield, Canada. Clothes-horse	694,766	Mar. 4	838	184 185	98	1889
MacMillan, Simpson G., Brookfield, Canada. Clothes-pin	711,513	Oct. 21	2148	467	101	477
MacMurray, James E., Chicago, Ill. Box-strap holder	708,378	Sept. 2	682	154	100	2120
MacNaughton, James. (See Rossi, Auguste J., assignor.)						
MacNeill, Charles M. (See Mosher, De Witt C., assignor.)						
MacPherson Automobile Company. (See MacPherson, John G., assignor.)						
MacPherson, John G., assignor to MacPherson Automobile Company, Philadelphia, Pa. Controller mechanism for automobiles	694,065	Feb. 25	3540	780 781	98	1588
MacPherson, John G., assignor to MacPherson Automobile Company, Philadelphia, Pa. Steering-gear for automobiles	707,435	Aug. 19	2733	618 619	100	1713
MacPherson, Mercer B. (See Wood and MacPherson.)						
MacRae, Peter, Escanaba, Mich. Portable fire-escape tower	693,877	Feb. 25	3153	697 698	98	1511
Macaulay, J. W. (See Stone, Henry J., assignor.)						
Macaura, Gerald J., Hartford, Conn. Movement-cure apparatus	716,448	Dec. 23	3504	765	101	2614
Macbeth, Frank D., assignor of one-half to W. A. Bullock, Baltimore, Md. Device for protecting the eardrum	706,975	Aug. 12	1865	417	100	1514
MacCallum, Patrick F., Fairbank, Heleensburg, Scotland. Internal-combustion engine	710,483	Oct. 7	151	35	101	33
Maccolini, Iclius W., Inwood, N. Y. Life-saving apparatus	691,153	Jan. 14	1460	332	98	319
Maccoun, Andrew E., Braddock, Pa., assignor to Otis Elevator Company, New York, N. Y. Controlling system for electric hoists or elevators	704,264	July 8	1675	365	100	351
Macculloch, Andrew G., and H. Dickinson, London, England. Cash register and till	708,894	Sept. 9	1666	383 384	100	2335
Macdonald, Albert E., San Francisco, Cal. Darning-last	694,662	Mar. 4	440	95	98	1806
Macdonald, Alexander F. (See Knight, Arthur F., assignor.)						
Macdonald, Donald, Orororo, South Australia, Australia. Gearing for bicycles	705,106	July 22	3344	725 726	100	726
Macdonald, Donald, Orororo, South Australia, Australia. Driving-gear for motor-cycles	713,467	Nov. 11	1928	437	101	1310
Macdonald, Eugene M. (See Hart, William D., assignor.)						
Macdonald, Harold C., New York, N. Y. Burglar-alarm	713,782	Nov. 18	2550	568	101	1455
Macdonald, John, Glasgow, Scotland. Cigarette-making machine	716,449	Dec. 23	3507	767	101	2614
Macdonald, John E. (See Arnold, Charles, assignor.)						
Macdonald, Lachlan W. (See Playne, Alexander W., assignor.)						
Macdonald, Peter J., Noank, Conn. Block	691,558	Jan. 21	2241	505	98	502
Macdonald, Thomas H., Bridgeport, Conn., assignor to American Graphophone Company, Washington, D. C. Multiple graphophone	711,706	Oct. 21	2517	553	101	555
Macdonald, Thomas H., Bridgeport, Conn., assignor to American Graphophone Company. Recording and reproducing sounds	714,651	Nov. 25	4229	935	101	1817
Macdonald, William D., New York, N. Y. Photographic camera	695,690	Mar. 18	2533	573 574	98	2276
Mace, Frank, Medina, N. Y., assignor to S. A. Cook & Co. Reclining-chair	701,064	May 27	3736	570	99	2009
Mace, Garvin A., Menominee Falls, Wis. Apparatus for burning lime	708,240	Sept. 2	451	103	100	2073
Mace, Frank, Grand Rapids, Mich. Means for operating doors	708,433	July 1	119	27	100	26
Macfarren, Walter W., Pittsburg, Pa. Metal-bending machine	713,894	Nov. 18	2771	616	101	1501



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Macfie, Edmund S., Southport, England. Lamp-wick .....	690,747	Jan. 7	745	165	98	157
Machado, John, Boston, Mass. Hair-clasp .....	694,934	Mar. 4	1146	251	98	1935
Macindoe, Alfred E., Auckland, New Zealand. Packing-holder for piston-rods .....	706,976	Aug. 12	1866	417	100	1514
Mack, Augustus F., Brooklyn, N. Y. Box .....	695,618	Mar. 18	2415	546	98	2253
Mack, Augustus F., Brooklyn, N. Y. Box .....	710,789	Oct. 7	759	162	101	155
Mack, Fritz, Nuremberg, Germany. Collapsible support or frame for tables, chairs, &c. ....	706,675	Aug. 12	1311	289	100	1400
Mack, Josiah D., Salem, N. Y. Wagon-jack .....	705,853	July 29	4887	1062	100	1049
Mack, Patrick H., Bradford, assignor to Oil Well Supply Company, Pittsburg, Pa. Under-reamer .....	694,400	Mar. 4	125	28	98	1730
Mack, Patrick H., Bradford, assignor to Oil Well Supply Company, Pittsburg, Pa. Temper-screw clamp .....	696,829	Apr. 1	816	187	99	173
Mack, Patrick H., Bradford, assignor to Oil Well Supply Company, Pittsburg, Pa. Cas- ing-perforator .....	710,701	Oct. 7	574	121	101	118
Macke, Frederick W., and M. Miller, Kokomo, Ind. Tension device for barbed-wire ma- chines .....	705,688	July 29	4588	996	100	988
Mackean, William, and E. Walker, Westminster, England. Apparatus for burning and seasoning incandescent mantles .....	712,821	Nov. 4	667	154	101	1034
Mackensen, Albert, Dusseldorf, Germany. Producing vegetable parchment free from germs .....	705,687	July 29	4587	996	100	988
Mackenzie, Cyrus W., Waverly, Ind. Acetylene-gas generator .....	713,658	Nov. 18	2323	518	101	1405
Mackenzie, Donald, Randfontein, near Krugersdorp, South African Republic. Rock- drill, rock-drilling-machine bit, or the like .....	710,484	Oct. 7	152	35	101	33
Mackesy, Charles E. R. (See Keyte, Richard, assignor.) .....						
Mackie, Matthew D., Scranton, Pa. Gas-detecting attachment for miners' safety-lamps .....	692,885	Feb. 11	1213	269	98	1074
Mackintosh, Frederick, Schenectady, N. Y., assignor to General Electric Company. Starting-rheostat for electric motors .....	690,448	Jan. 7	118	25	98	27
Mackintosh, Frederick, Schenectady, N. Y., assignor to General Electric Company. Safety device for circuit-closers .....	697,734	Apr. 15	2517	561	99	564
Mackintosh, Frederick, Schenectady, N. Y., assignor to General Electric Company. Electric switch for flashing lighthouse-lanterns .....	706,577	Aug. 12	1123	247	100	1358
Mackintosh, Frederick, Schenectady, N. Y., assignor to General Electric Company. Rheostat .....	714,927	Dec. 2	577	122	101	1951
Mackintosh, Frederick, Schenectady, N. Y., assignor to General Electric Company. Rheostat .....	715,827	Dec. 16	2257	502	101	2336
Mackintosh, Harry, Shipley, England. Apparatus for producing repeat-designs .....	696,877	Apr. 1	906	204	99	191
Mackintosh, Harry, Shipley, England. Making weavers' designs .....	703,286	June 24	3694	851	99	2019
Mackintosh, Harry J. (See Tweed and Mackintosh.) .....						
Mackie, William J., assignor of one-half to P. M. Kling, Elizabeth, N. J. Rotary en- gine .....	716,642	Dec. 23	3901	852	101	2698
Mackley, James H., Pocatello, Idaho. Wall water-heater .....	709,840	Sept. 16	2563	576	100	2541
Macklin, Athol B., Brooklyn, N. Y. Hydrocarbon-vapor-burning apparatus .....	707,517	Aug. 19	2875	692	100	1749
Macklin, F. J., et al. (See Bernardin, Frank, assignor.) .....						
Macklind, William R., St. Louis, Mo. Railway-crossing .....	696,376	Mar. 25	3899	865	98	2569
Maku, Vincenz, Brünn, Austria-Hungary. Electrical warp stop-motion .....	712,822	Nov. 4	668	155	101	1034
Mackusick, Elmer F., assignor of one-half to G. V. Foster, New York, N. Y. Carbid- cartridge for acetylene-gas generators .....	692,322	Feb. 4	187	43	98	898
Mackusick, Elmer F., assignor of one-half to G. V. Foster, New York, N. Y. Gas-holder .....	693,293	Feb. 11	2031	443	98	1241
Mackusick, Elmer F., assignor of one-half to G. V. Foster, New York, N. Y. Acetylene- gas generator .....	693,293	Feb. 11	2034	443	98	1242
Maclean, Breadalbane C. (See Hargrove, William, assignor.) .....						
Macleod, Walter. (See Foote, Charles B., Jr., assignor.) .....						
Macleod, Walter, Newport, Ky. Hydrocarbon-burner .....	714,722	Dec. 2	137	27	101	1805
Macnab, Alister. (See Edmund, Wilbraham, assignor.) .....						
Macomber, Charles J. (See Gallagher and Macomber.) .....						
Macnochie, Archibald W. (See Shirreffs, John, assignor.) .....						
Macoy, Eugene H., et al. (See Lottridge, George W., assignor.) .....						
Macphail, James. (See Macphail, Roland B., assignor.) .....						
Macphail, James, Blue Island, Ill. Harrow .....	700,214	May 20	2140	490	99	1649
Macphail, James, Blue Island, Ill. Harrow-tooth and means for supporting same .....	716,912	Dec. 30	4511	979	101	2852
Macphail, James, assignor to McCormick Harvesting Machine Company, Chicago, Ill. Thumb-latch for just-meet rollers .....	700,213	May 20	2139	490	99	1648
Macphail, James, Blue Island, assignor to McCormick Harvesting Machine Company, Chicago, Ill. Wheel .....	700,215	May 20	2141	491	99	1649
Macphail, James, Blue Island, assignor to McCormick Harvesting Machine Company, Chicago, Ill. Divider for harvesters .....	704,063	July 8	1285	279	100	270
Macphail, James, Blue Island, assignor to McCormick Harvesting Machine Company, Chicago, Ill. Tilting lever-handle for headers .....	716,913	Dec. 30	4512	979	101	2852
Macphail, Roland B., Blue Island, assignor of one-half to J. Macphail, Chicago, Ill. Joint .....	716,720	Dec. 23	4046	886	101	3729
Macpherson, Alexander C. (See Osborn, Frank D., assignor.) .....						
Macquisten, Arthur P. S., Glasgow, Scotland. Electromagnetic pattern-controlling ap- paratus for looms .....	701,211	May 27	4060	933	99	2064
Macrorie, Rutherford B. H. (See Thibodo and Peckinpaugh, assignors.) .....						
Maclear, James, Westminster, England. Electrolytic apparatus for the production of chlorine and alkali .....	705,264	July 22	3700	802	100	797
Macmillan, William, New Rochelle, N. Y. Suspenders .....	713,659	Nov. 18	2324	518	101	1405
Macy, Jason W., Beacon, Iowa. Road-grader .....	714,723	Dec. 2	139	27	101	1866
Macy, Jethro L., Des Moines, Iowa. Brooder .....	702,310	June 10	1829	418	99	2501
Macy, Thomas G., New York, N. Y. Steam-boiler furnace .....	691,398	Jan. 21	1973	442	98	446
Madan, James R., Salisbury, England. Variable-speed gear for motor vehicles, cycles, or the like .....	697,153	Apr. 8	1449	325	99	328
Madancy, Gregor S., Passaic, R. I. Box .....	702,977	June 24	3132	720	99	2808
Madas, Louis, assignor of two-thirds to S. Neederman and H. S. Geary, New York, N. Y. Automatic envelop-sealer and stamp-affixer .....	695,408	Mar. 11	2013	451	98	2152
Madden, Albert F., Newark, N. J. Apparatus for reducing fusible material to dust .....	702,736	June 17	2638	611	99	2692
Madden, Albert F., Newark, N. J., assignor to C. A. Gould, New York, N. Y. Generat- ing apparatus for car-lighting .....	705,854	July 29	4888	1063	100	1049
Madden, Oscar E. (See Rankin, Alexander M., assignor.) .....						
Madrox, John A., assignor to H. J. Thompson, West Union, Ohio. Churn-power .....	704,064	July 8	1287	279	100	271
Madrox, Milton F., Indianapolis, Ind. Corner-support for beds .....	713,805	Nov. 18	2776	617	101	1592

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Madara, Charles. (See Kendrick, William A., assignor.)						
Mader, Nicholas P., Sun Prairie, Wis. Vehicle	708,056	Sept. 2	100	26	100	2004
Madison, George, Sodus, July. Device for supporting phonograph-records.	703,933	July 1	1037	235	100	207
Madson, Soren H., Hayward, Cal. Brake and bell for vehicles	700,849	May 20	2429	554	90	1707
Maeder, Albert C., St. Joseph, Mo. Weather-board marker	690,595	Jan. 7	433	93	98	94
Maertens, Emile, Providence, R. I. Cleaning wool	698,247	Apr. 22	3428	90	90	776
Maertens, Emile, Providence, R. I. Cleaning wool	698,208	Apr. 22	3430	90	90	777
Maertens, Emile, Providence, R. I. Degreasing wool	698,249	Apr. 22	3432	90	90	777
Maertens, Emile, Providence, R. I. Cleaning wool	698,210	Apr. 22	3434	90	90	777
Maertens, Emile, Providence, R. I. Cleaning wool with volatile solvents.	698,211	Apr. 22	3436	90	90	778
Mazacua, Peter. (See Frigerio, Frank, assignor.)						
Magarvy, John W., assignor of one-half to L. G. Tidwell, Newbern, Tenn. Singletree attachment	707,935	Aug. 26	3774	847	100	1940
Magee, George W., Brooklyn, N. Y. Car-axle box and brass	701,065	May 27	3798	870	99	2009
Magee, James B. (See McCollum, Alfred F., assignor.)						
Magee, John H., Carthage, Mo. Corn-silking machine	691,707	Jan. 21	2523	965	98	361
Magee, William V., assignor of one-half to R. J. Pratt, Harvey, N. D. Adjustable handle for garden-tools	705,689	July 29	4389	900	100	988
Mager, Louis. (See Kinkade and Mager.)						
Magerhans, Adolph W., Brooklyn, N. Y. Folding umbrella-rack	710,790	Oct. 7	761	162	101	156
Maggard, Charles J., assignor of one-half to C. A. Griffith, Canton, Mo. Combined hammer and wrench	711,408	Oct. 14	1935	421	101	418
Maggiora, Demetrio, P. and E. Bianchi, Turin, Italy. Device for preventing hail	701,907	June 10	1115	255	90	2357
Magie, Wilber B. (See Hoffman and Magie.)						
Mazie, Wilber B., assignor of one-half to L. R. Fast, Paulding, Ohio. Holder for photographs or other cards	716,074	Dec. 16	2765	610	101	2446
Mazin, John G. (See Claessens and Mazin.)						
Mazinnis, Patrick, Kimball, Nebr. Extensible trough	700,522	May 20	2765	633	99	1776
Mazly, Milton P., Cincinnati, Ohio. Shirt	703,731	July 1	659	146	100	132
Mazzeo Electric Company. (See Woolley, Leonidas G., assignor.)						
Magney, Joseph P., assignor of one-half to T. S. Updyke, Allegan, Mich. Apple corer and parer	706,428	Aug. 5	858	188	100	1288
Magney, Joseph P., assignor of one-half to T. S. Updyke, Allegan, Mich. Engine	713,320	Nov. 11	1674	376	101	1256
Magnier, Paul, Billancourt, and P. A. Brangier, Estrées, France. Converting wood shavings, &c., into dextrine, glue, and alcohol	695,573	Mar. 18	2334	528	98	2237
Mazoun, George B., Babylon, N. Y., assignor to Acme Ball Bearing Caster Company, Caster	697,735	Apr. 15	2518	561	99	564
Magrane, Thomas P. (See Gordon, George, assignor.)						
Maguire, P. T. (See Bassett, Elmer C., assignor.)						
Maguire, Thomas, Honesdale, Pa. Gas-lamp	702,143	June 10	1548	351	99	2445
Maguffey, A. S., et al. (See MacMillan, Clyde, assignor.)						
Mahana, John B., Kelso, assignor of one-half to A. A. Pompe, Toledo, Wash. Magazine-firearm	695,574	Mar. 18	2335	529	98	2237
Mahana, John B., and A. I. Robbins, Kelso, Wash. Clasp for garment-supporters	692,160	Jan. 28	3371	763	98	749
Mahana, John B., and W. P. Ely, Kelso, Wash. Voting-machine	702,446	June 17	2103	479	99	2577
Mahar, John T., New York, N. Y. Fire-escape	697,736	Apr. 15	2521	562	99	564
Mahlen, Martin, Osakis, Minn. Wrench	716,914	Dec. 30	4515	879	101	2532
Mahoney, Daniel, Brooklyn, N. Y. Automatic regulator for marine engines	692,161	Jan. 28	3373	763	98	749
Mahoney, Daniel H., Vincennes, Ind. Excavating and loading machine	701,593	June 3	567	124	99	2226
Mahoney, Denis D., Hopkinton, assignor to Draper Company, Hopedale, Mass. Warp-stop-motion detector	698,123	Apr. 22	3263	714	99	740
Mahoney, Thomas E., Bunkerhill, Kans. Feeder for threshing-machines	697,095	Apr. 8	1358	301	99	308
Mahoney, Thomas E., Bunkerhill, Kans. Governor mechanism for threshing-machines	697,096	Apr. 8	1359	302	99	308
Mahony, Frederick M., assignor to Mahony Manufacturing Company, Troy, N. Y. Metallic stair-tread	693,143	Feb. 11	1724	378	98	1179
Mahony Manufacturing Company. (See Mahony, Frederick M., assignor.)						
Mahony, Samuel. (See Carpenter and Mahony.)						
Mahony, William F. (See Collamer and Mahony.)						
Mahoudeau, Frederic, assignor to American Sugar Refining Company, New York, N. Y. Apparatus for drying sugar	694,767	Mar. 4	840	185	98	1889
Mahy, Eugene, Cincinnati, Ohio. Diamond-cutting tool	700,229	Sept. 16	2343	531	100	2493
Mahy, Léon, and P. Haillet, Ghent, Belgium. Boiler	706,188	Aug. 5	862	78	100	1190
Maidhof, Henry S., New York, N. Y. Combined seal and die	703,072	June 24	3311	761	99	2842
Maignen, Prosper J. A., Philadelphia, Pa. System of purifying municipal water-supplies	713,896	Nov. 18	2777	617	101	1562
Maihak, Hugo A. C. A. W., Hamburg, Germany. Engine-indicator	703,434	July 1	121	27	100	27
Mailer, Melrose. (See Dannhardt, Ferdinand H., assignor.)						
Maillox, Cyprien O., and W. C. Gotshall, New York, N. Y. Railway electric-motor-cooling system	714,497	Nov. 25	3937	871	101	1757
Maillox, Cyprien O., and W. C. Gotshall, New York, N. Y. Railway electric-motor-cooling system	714,498	Nov. 25	3944	873	101	1758
Main, Albert, Powelton, Cal. Bicycle-brake	700,350	May 20	2431	551	99	1707
Maines, Potter F., assignor of two-thirds to M. Schamberg, Philadelphia, Pa. Screw-cutting die-head	698,557	Feb. 18	2533	558	98	1367
Maignes, Potter F., Philadelphia, Pa., assignor to American Electrical Manufacturing Company. Holder for electric-lamp carbons	717,233	Dec. 30	5152	1117	101	2989
Mainquet, Edward A., Evangeline, La. Mechanical movement	691,644	Jan. 21	2410	542	98	536
Maisch, George H., Baltimore, Md. Manufacture of incandescent mantles	712,562	Nov. 4	200	101	99	989
Maitland, James L., Garfield, N. J. Hat for firemen, &c.	694,168	Feb. 25	3736	825	98	1627
Maitland, John, and W. J. Beattie, Cohoes, N. Y. Machine for folding collar-blanks, &c.	713,230	Nov. 11	1454	829	101	1212
Maldaner, Charles, Chicago, Ill., assignor to Chicago Handle Bar Co. Grinding and polishing machine	705,593	July 29	4426	959	100	956
Malette, Frederick A., assignor of one-half to E. Seybolt, Geneva, N. Y. Roadway	691,708	Jan. 21	2525	565	98	561
Maley, Nixon. (See Wilmot, Maley, and Brown.)						
Malicet, Paul L., and E. E. Bln, Aubervilliers, France, assignors to La Société Anonyme des Etablissements Malicet et Bln. Steering-gear for vehicles	698,407	Apr. 22	3761	830	99	845
Maligou, Hippolyte, Paris, France. Joint or pivotal connection for double-armed tools or appliances	714,211	Nov. 25	3427	754	101	1656
Malin, S. O., et al. (See Waters, Frederick B., assignor.)						
Mallard, Logan L., assignor of one-half to W. J. Mallard, Atlanta, Ga. Stock-feed cutter	710,919	Oct. 7	980	216	101	199
Mallard, William J. (See Mallard, Logan L., assignor.)						
Mallen, Edward J., New York, N. Y. Pipe-collar	694,873	Mar. 4	1036	229	98	193



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Mallen, Edward J., assignor to Baker Smith and Company, New York, N. Y. Hot-air casing for heating systems.	714,724	Dec. 2	140	28	101	1866
Mallin, Isaac H., assignor of one-half to J. F. Butler, Chicago, Ill. Type-holder for type-writers.	709,341	Sept. 16	2565	577	100	2541
Mallinckrodt, John F., assignor to Sauvage Duplex Air Brake Company, Denver, Colo. Fluid-brake mechanism.	710,876	Oct. 7	905	197	101	184
Mallinson, William H., Harlem, N. D. Strap-coupling.	693,294	Feb. 11	2037	444	98	1242
Mallon, Hugh A., assignor to L. P. Mallon, Buffalo, N. Y. Hoisting or lowering apparatus for boats.	695,067	Mar. 11	1406	309	98	2026
Mallory, Louise B. (See Mallon, Hugh A., assignor.)						
Mallory, Harry B. (See Brew, Mallory, and Turner.)						
Malloy, John F. (See McEvilly, Thomas F., assignor.)						
Malloy, Michael C., et al. (See Norton, James A., assignor.)						
Malmstrom, Peter E., New York, N. Y. Carbonating liquids.	710,110	Sept. 30	4105	1926 927	100	2885
Malmstrom, Peter E., and O. W. Ackerman, assignors, by mesne assignments, to J. Mulholland, New York, N. Y. Apparatus for carbonating liquids.	711,575	Oct. 21	2264	1491 492	101	590
Malone, Leslie. (See Newson and Malone.)						
Maloney, Denis J., New Haven, Conn. Deflector.	716,450	Dec. 23	3513	768	101	2615
Maloney, Philip M., Philadelphia, Pa. Boat stopping and holding device.	701,746	June 3	838	184	99	2283
Maloney, William, Sherbrooke, assignor of seven-tenths to M. S. Inglis, I. Pitblado, Winnipeg, Manitoba, Canada, and L. T. Watson, Minneapolis, Minn. Grain-threshing mechanism.	696,460	Apr. 1	118	28, 29	99	31
Maloney, William F., Chicago, Ill. Letter-file.	710,364	Sept. 30	4568	1030	100	2985
Malooof, Mathew J., York, Pa. Case for curling-iron heaters.	716,915	Dec. 30	4516	973	101	2853
Maloon, Richard B., New York, N. Y. Sash-holder.	692,532	Feb. 4	564	132	98	913
Malott, Hiram V., and C. K. Tuggle, assignors to Buckeye Safety Gas Valve Company, Columbus, Ohio. Cut-off valve for gas-pipes.	716,916	Dec. 30	4517	980	101	2853
Maltby, Anson, New York, N. Y. Knockdown barrel, cask, &c.	705,285	July 22	3701	802	100	797
Manahan, Frank E., East St. Louis, Ill. Ball-bearing journal-box.	703,435	July 1	122	27, 28	98	75
Mandelbaum, Maurice L. (See Little, Robert H., assignor.)						
Mandt, Targe G., Stoughton, Wis. Truss-rod spring for vehicles.	692,162	Jan. 28	3374	764	98	270
Mandt, Targe G., Stoughton, Wis. Reach-coupling.	682,163	Jan. 28	3375	764	98	750
Mandt, Targe G., Stoughton, Wis. Hub.	694,292	Feb. 25	3556	880	98	1673
Mandt, Targe G., Stoughton, Wis. Box-fastener.	695,100	Jan. 11	2014	452	98	2153
Maerling, John W., Bowling Green, Ind. Saw-guide.	691,399	Jan. 21	1975	442	98	446
Manes, Ephraim, assignor to Reversible Disc Plow & Implement Company, Chattanooga, Tenn. Gang-disk plow.	717,010	Dec. 30	4706	1020	101	2893
Manes, John, San Francisco, Cal. Weighing apparatus.	704,065	July 8	1289	279	100	271
Maney, William H., assignor of one-half to N. E. Morris, Jr., Franklin, Tenn. Wash-board.	695,410	Mar. 11	2015	453	98	2153
Maugels, William F., Brooklyn, N. Y. Merry-go-round.	693,295	Feb. 11	2038	444	98	1243
Manger, Henry K. J., Des Moines, Iowa. Railway-switch.	694,563	Mar. 4	441	95, 96	98	1806
Manger, Henry K. J., Des Moines, Iowa. Metal railway-tie.	697,640	Apr. 15	2346	524	99	529
Mangin, Alexis L., Aylmer, E. C. Canada. Carburetor.	699,065	May 13	1632	375	99	1535
Mangold, Jacob, and G. A. Schinsock, Milwaukee, Wis. Apparatus for raising submarine deposits.	695,068	Mar. 11	1409	300	98	2027
Mangold, John A., Moundsville, W. Va. Combined badge and pencil-holder.	696,651	Apr. 1	463	108	99	100
Mangold, John A., Moundsville, W. Va. Toy or advertising device.	705,855	July 20	4860	1063	100	1050
Manhattan Brass Company. (See Waibel, Frederick B., assignor.)						
Manhattan Electrical Supply Company. (See Huebel, Otto H., assignor.)						
Manhattan General Construction Company. (See Baker, Malcolm H., assignor.)						
Manheimer, Joseph, et al. (See Beugle, John V., assignor.)						
Manitowoc Aluminum Novelty Company. (See Werra, Conrad, assignor.)						
Manker, Carey A., Pearl, Ill. Propeller.	710,111	Sept. 30	4109	927	100	2885
Mauley, Edward, Chicago, Ill. Indicator for ball games.	708,569	Sept. 9	1017	230	100	2198
Manley, Frederick J., Allegheny, Pa. Safety device for steam-boilers.	705,363	July 22	3937	853	100	845
Manley, Liston B., Duluth, Minn. Computing-chart.	710,388	Sept. 30	4487	1061	100	2958
Manlove, George W., Cleveland, Ohio. Silo.	706,180	Aug. 5	366	79	101	1191
Manlove, Joseph E., Bushnell, Ill. Animal-trap.	715,829	Dec. 16	2279	503	101	2336
Manly, Charles M., Washington, D. C. Variable-speed gear.	710,485	Oct. 7	155	36	101	34
Manly, Charles M., Washington, D. C. Starting mechanism for prime movers.	710,486	Oct. 7	163	37	101	35
Mann, Arthur H. (See Roberts and Mann.)						
Mann, Charles H. (See Deckert, Mann, and Prizer.)						
Mann, Charles H., Haddonfield, N. J. Safety envelop.	698,300	Apr. 22	3582	790	99	808
Mann, Charles H., Haddonfield, N. J. See above.	698,301	Apr. 22	3584	790	99	808
Mann, Charles H., Haddonfield, N. J. Manifolding device.	698,302	Apr. 22	3585	791	99	808
Mann, George R., Columbus, assignor of two-thirds to E. J. Hiatt and M. R. Denver, Wilmington, Ohio. Top-spinning toy.	706,676	Aug. 12	1312	290	100	1400
Mann, Henry A., Troy, assignor to Antiaqua Company, Albany, N. Y. Stiffening and making impervious to water starch-filled and ironed laundry-finished substances of bodies of collars, cuffs, &c.	700,793	May 27	3297	780	99	1906
Mann, Henry F., Allegheny, Pa. Plate-metal car-wheel.	703,143	June 24	3445	790	99	2869
Mann, Henry F., Allegheny, Pa. Plate-metal car-wheel.	714,725	Dec. 2	142	28	101	1866
Mann, Hugh, Winnipeg, Canada. Railway-track-laying machine.	694,564	Mar. 4	444	96	98	1807
Mann, Hugh, Winnipeg, Canada. Railway-track-laying machine.	709,641	Sept. 23	3176	709	100	2680
Mann, John H., Meadville, assignor to Castle Brook Carbon Black Company, Williamsport, Pa. Apparatus for making lampblack.	706,430	Aug. 5	867	180	100	1290
Mann, John H., Meadville, assignor to Castle Brook Carbon Black Company, Williamsport, Pa. Apparatus for making lampblack.	706,431	Aug. 5	873	190	100	1292
Mann, John L., Smithton, W. Va., assignor to Castle Brook Carbon Black Company, Williamsport, Pa. Lampblack apparatus.	706,429	Aug. 5	861	189	100	1288
Mann, Joseph M., et al. (See McKenzie, Andrew, assignor.)						
Mann, Orville C. (See Westmark, Hans O., assignor.)						
Mann, Robert B., Milwaukee, Wis. Power-transmitting device.	691,780	Jan. 28	2710	609	98	617
Mann, William H., and U. G. Muck, Dorrance, Kans. Grain-door for cars.	699,336	May 6	390	91	99	1253
Mann, William I., and N. C. Neemes, assignors to themselves and E. L. Messler, Pittsburgh, Pa. Supporting-roller for conveyers.	714,812	Dec. 2	321	70	101	1902
Manne, Max, et al. (See Bing, Alexander, assignor.)						
Mannfeld, Bernhard, Frankfurt-on-the-Main, Germany. Reproducing colored original etchings.	690,974	Jan. 14	1146	98	255	
Mannie, Daniel W., Macon, Ga. Attachment for cracker, biscuit, or cake machines.	698,035	Apr. 22	3067	675	99	700
Manning, David J., Chippewa Falls, Wis. Insect-destroyer.	691,309	Jan. 28	2918	658	98	659
Manning, Eben J., Lake City, Minn. Metal floor-mat.	714,062	Nov. 18	2080	663	101	1544
Manning, Edward E., Beldvidere, Ill. Sewing-machine cabinet.	713,660	Nov. 18	2326	519	101	1406

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Manning, Edward J., Bayonne, N. J., assignor to Wagner Typewriter Company, New York, N. Y. ....	702,447	June 17	2111	480	99	2579
Manning, Hugh A., and J. D. Cameron, Providence, R. I. Hammock and support. ....	711,221	Oct. 14	1399	843	101	347
Manning, William L., Wilson, N. C. Spring-car for vehicles. ....	711,376	Oct. 21	2267	492	101	501
Mannings, Alfred A., London, England. Pin. ....	712,317	Oct. 28	3683	804	101	809
Manny, Walter B. (See Lotterhand, Jason C., assignor.)						
Manny, Walter B., <i>et al.</i> (See Lotterhand, Jason C., assignor.)						
Mansbach, Conrad B., Campello, Mass. Combined putty-knife and pot-hanger. ....	713,231	Nov. 11	1457	330	101	1212
Mansbridge, George F., Wimbledon, England. Electrical condenser. ....	697,507	Apr. 15	2097	465	99	480
Mansfield Cash and Package Carrier Co. (See Lippy, David, assignor.)						
Mansfield, George L., Chicago, Ill. Switching mechanism. ....	695,467	Mar. 18	2114	476	98	2191
Mansfield, George L., assignor of one-half to H. F. Baldwin, Chicago, Ill. Derailer. ....	709,101	Sept. 16	2101	481	100	2443
Mansfield, Richard W., New London, Conn. Game and puzzle block. ....	717,105	Dec. 30	4875	1056	101	2929
Mansfield, William, assignor of one-half to C. S. Meriwether, Scranton, Miss. Broom-head. ....	704,483	July 8	2090	453	100	439
Manson, George W., New York, N. Y. Bicycle. ....	701,747	June 3	890	184	99	2284
Manson, George W., New York, N. Y. Bicycle driving mechanism. ....	701,748	June 3	840	185	99	2284
Manson, Henri L., and J. Kamphues, Amsterdam, Netherlands. Stock and die. ....	706,977	Aug. 12	1867	417	100	1514
Manson, Thomas C., assignor of two-thirds to C. Smith and A. P. Sale, Lake Charles, La. Air-brake attachment. ....	705,415	July 22	4016	869	100	863
Manton, Frank S., Providence, R. I. Windlass. ....	708,818	Sept. 9	1514	347	100	2303
Mantz, Emanuel P., Frederick, Md. Artificial bait. ....	716,451	Dec. 23	3514	768	101	2615
Manuel, David A., Calistoga, Cal. Grafting implement. ....	690,865	Jan. 7	940	210	98	1917
Manuel, Silas A., and J. R. Nottingham, assignors of one-fourth to R. J. Earnshaw, Washington, D. C. Revolving book-supporter. ....	700,523	May 20	2766	633	99	1777
Manufactured Rubber Company. (See Harmer, Thomas, assignor.)						
Manwaring, George A., Bayonne, N. J. Carbureter. ....	716,452	Dec. 23	3515	768	101	2616
Manwaring, Giles E., Lynbrook, N. Y. Auditing collectors' receipts. ....	716,453	Dec. 23	3517	769	101	2616
Manz, Frank J. (See Knee, Allison W., assignor.)						
Manzer, Eugene N., assignor of two-thirds to A. J. Roberts and W. H. Miller, Lincoln, Nebr. Can-opener. ....	715,403	Dec. 9	1424	307	101	2140
Mapes, Andrew J., Paris, Ill. Horse-canopy. ....	705,370	July 22	3939	853	100	845
Mapes, Marion J., Springvalley, N. Y. Brooder. ....	711,409	Oct. 14	1937	421	101	418
Maranville, Harvey F., and W. F. Warden, assignors to Burt Manufacturing Company, Akron, Ohio. Oil-filter. ....	717,106	Dec. 30	4877	1056	101	2929
Marbach, Charles J., assignor to Hyatt Roller Bearing Company, Harrison, N. J. Drop-forged box for roller-bearing hangers. ....	710,487	Oct. 7	170	37	101	36
Marbach, William A., Cleveland, Ohio. Camera-support. ....	702,018	June 10	1320	802	99	2390
Marble, Albert D., Yale, Okla. Ter. Thread-cutter. ....	696,968	Aug. 6	1163	250	99	267
Marble, Albert D., Yale, Okla. Ter. Magazine for firearms. ....	711,989	Oct. 28	3101	769	101	693
Marble, George W., Buchanan, Mich., assignor, by mesne assignments, to Marble-Swift Automobile Company. Friction power-transmitting mechanism. ....	717,235	Dec. 30	5154	1117	101	2090
Marble-Swift Automobile Company. (See Marble, George W., assignor.)						
Marburg, Albrecht. (See Clairmont, Adolfo de, assignor.)						
Marburg, Gustav, Vienna, Austria-Hungary. Submerged water-wheel. ....	707,857	Aug. 26	3628	818	100	1910
March, Charles, St. Louis, Mo. Ironing-machine. ....	707,437	Aug. 19	2738	620	100	1713
March, Thomas J., Pottstown, Pa. Hot-air furnace. ....						
Marchand, John G. (See Gordon, Charles, assignor.)						
Marchbank, James, and N. P. Bidstrup, Broadford Township, Victoria, Australia. Liquid-measuring apparatus. ....	702,019	June 10	1321	802	99	2397
Marcher, F. A. (See Harrison, Arthur W., assignor.)						
Marchessault, Victor. (See Lawrence, James E., assignor.)						
March, Charles, St. Louis, Mo. Ironing-machine. ....	715,101	Dec. 2	876	186	101	2016
Marley, Burton P., Brooklyn, N. Y. Soft-tread horseshoe. ....	706,768	Aug. 12	1496	332	100	1438
Marcotte, Eugene J., Stockton, Kans. Syrup-pitcher. ....	700,524	May 20	2767	633	99	1777
Marcoux, Alida M., Milford, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Filling-supplying loom. ....	693,558	Feb. 18	2587	559	98	1367
Marcus, James, <i>et al.</i> (See Dement, Wallace E., assignor.)						
Marcus, Martin H., New York, N. Y. Stair-pad. ....	707,608	Aug. 26	3077	693	100	1601
Marcy, Frank M., Worcester, Mass. Truing up the drawing-rolls of spinning or twisting machines. ....	697,262	Apr. 8	1640	367	99	369
Mardian, Rudolph. (See Heck, Gustav, assignor.)						
Mardon, Son & Hall. (See Crewe, Frederick, assignor.)						
Margetts, Frederick W., East Dulwich, England. Stopping bottles, jars, or other vessels. ....	706,247	Aug. 5	468	100	100	1211
Marggraff, Frederick, assignor to F. A. Neider, Augusta, Ky. Tufting-button. ....	695,468	Mar. 18	2119	477	98	2192
Margolis, David, assignor of one-half to R. Margolis, Norfolk, Va. Making repaired fabrics. ....	696,890	Apr. 1	817	188	99	173
Margolius, Raphael. (See Margolius, David, assignor.)						
Margoni, Carlo. (See Diamant and Margoni.)						
Marin, George. (See Miller, Ludvic M., assignor.)						
Marin, William, Reed City, Mich. Vehicle-body raiser. ....	699,403	May 6	527	121	99	1283
Marinich, Arthur H., Droytwich, England. Range-finder. ....	707,856	Aug. 26	3626	817	100	1909
Marine, Peter, Chicago, Ill. Making frozen confections. ....	692,923	Feb. 4	189	43	98	830
Marion, David W., Baltimore, Md. Odds-indicator. ....	708,379	Sept. 2	688	154	100	2120
Marion Steam Shovel Company. (See King, George W., assignor.)						
Marius, Casteran J., West Hoboken, N. J., assignor to S. J. Cox, New York, N. Y. Electric roller. ....	715,677	Dec. 9	1941	434	101	2251
Mark, John G., <i>et al.</i> (See Wilkinson, John A., assignor.)						
Markey, Eugene L., <i>et al.</i> (See Fillingham, Joseph F., assignor.)						
Markey, John J., Anderson, Ind. Annealing-box. ....	700,962	May 27	3602	829	99	1967
Markey, William A., Rosbyrock, W. Va. Lock. ....	705,942	July 29	5044	1099	100	1080
Markgraf, Franz, New York, N. Y. Variable-speed gear for vehicles. ....	715,404	Dec. 9	1425	308	101	2147
Markham, Andrew J., assignor of one-half to J. Morrow, Elba, Nebr. Steam-engine. ....	700,064	May 13	1801	417	99	1558
Markham, De Witt C., Leyden, N. Y. Cattle-tie and stanchion. ....	699,201	May 6	138	39	99	1202
Markham, William F., Plymouth, Mich. Spring air-gun. ....	696,461	Apr. 1	123	29	99	32
Markle, Alvan, <i>et al.</i> (See Lake and Crellin, assignors.)						
Markle, Alvan, Hazleton, Pa. Contact apparatus for electric railways. ....	698,124	Apr. 22	3264	714	99	741
Markmann, Albert, Langenberg, Germany. Tray for beer-glasses. ....	715,828	Dec. 16	2358	503	101	2336
Markovits, Emmerich, Berlin, and F. Guthmann, Friedenau, Germany. Making a preparation for preserving meat. ....	711,990	Oct. 28	3102		101	694



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Marks, Curry, Montgomery, Ala. Air-tight can and means for dispensing liquid therefrom.	714,212	Nov. 25	3427	754	101	1657
Marks, Harry J., New York, N. Y. Motor-vehicle.	706,978	Aug. 12	1968	418	100	1514
Marks, John M., Chicago, Ill. Button.	712,080	Oct. 28	3370	717	101	727
Marks, Joseph P., assignor of two-thirds to J. L. Larsen and C. H. Day, Philadelphia, Pa. Ink-rolling for printing-presses.	699,110	Apr. 20	5131	1135	99	1154
Marks, Joseph P., assignor of two-thirds to J. L. Larsen and C. H. Day, Philadelphia, Pa. Ink-rolling for printing-presses.	701,491	June 3	381	80	99	2186
Marks, Louis B., (See Matthews, Charles P., assignor.)						
Marks, Roy C., San Diego, Cal. Explosive engine for motor-vehicles.	710,329	Sept. 30	4508	1016	100	2972
Marks, Roy C., San Francisco, Cal. Carburetor for explosive-engines.	710,330	Sept. 30	4510	1016	100	2973
Markstrom, Charles L., Chicago, Ill. Kitchen-table.	695,492	Apr. 1	126	29, 30	99	32
Markwort, Charles, and A. E. Jones, Ellwood City, Pa. Roll-polishing attachment for rolling-mills.	710,565	Dec. 23	3758	817	101	2667
Marnes, Henry, Manor Park, England. Feed mechanism.	705,940	July 29	5940	1068	100	1079
Marnon, Daniel W., assignor to Nodyke & Marnon Company, Indianapolis, Ind. Separating and belting machine.	696,881	Apr. 1	818	188	99	173
Marmorestein, Joseph, (See Molnar, Sándor, assignor.)						
Marnas, Charles J. A., (See Ducat, Marnas, and Dehoff.)						
Marqua, Magdalena, assignor of one-half to G. W. Harding, Cincinnati, Ohio. Scrub-brush.	711,777	Oct. 21	2660	587	101	585
Marquart, Charles V., Salsbury, Ohio. Brake-beam.	713,783	Nov. 18	2552	568	101	1455
Marquette, John S., and P. J. Nelson, Baltimore, Md. Amalgamator.	701,212	May 27	4061	933	99	2065
Marr, Alexander W., Dayton, Ohio, assignor, by mesne assignments, to National Cash Register Company, Jersey City, N. J. Cash-register.	700,525	May 20	2769	634	99	1777
Marr, Edgar F., Clinton, Me. Releasing-hook for handling logs, &c.	700,246	Aug. 5	467	99	100	1211
Marr, Thomas F., (See Platt and Marr.)						
Marrder, Charles A., New York, N. Y. Cut-off valve for steam-engines.	712,197	Oct. 28	3474	762 763 765	101	765
Marnesford, William F., New York, N. Y. Machine for affixing labels.	707,787	Aug. 26	3479	764	100	1882
Marriott, Samuel, et al. (See Picking, Josiah B., assignor.)						
Marshall, Adolf J., Littlefalls, N. Y. Electric gas-lighter.	699,202	May 6	131	33	99	1202
Marscher, Arthur H., Memphis, assignor to Syracuse Faucet and Valve Company, Syracuse, N. Y. Valve.	691,400	Jan. 21	1976	443	98	446
Marsden, Edward, (See Eneyad and Marsden.)						
Marsden, Mark W., Philadelphia, Pa. Building material.	696,062	Mar. 25	3220	727	98	2431
Marsden, Mark W., Philadelphia, Pa. Building material.	704,096	July 8	1290	290	100	271
Marsh, Albert, London, England. Means for delivering and registering tickets or checks.	693,414	Feb. 18	2296	496 497	98	1312
Marsh, Elon A., Detroit, Mich. Flush-valve.	717,236	Dec. 30	5157	1118	101	2991
Marsh, Henry E., New Haven, Conn. Pipe-union.	714,726	Dec. 2	143	29	101	1866
Marsh, John H., Amanda, Wis. Passenger and freight conveyance.	714,532	Nov. 25	4116	910	101	1736
Marsh, Percy M., et al. (See Hagan, Ira B., assignor.)						
Marsh, Riley, (See Nettleton, John L., assignor.)						
Marsh, Riverius, New Brunswick, N. J., assignor to G. W. Glaentzer, New York, N. Y. Lamp.	712,823	Nov. 4	670	159	101	1035
Marsh, Riverius, New Brunswick, N. J., assignor to G. W. Glaentzer, New York, N. Y. Lamp.	713,125	Nov. 11	1292	284	101	1171
Marsh, Riverius, New Brunswick, N. J., assignor to G. W. Glaentzer, New York, N. Y. Lamp.	713,126	Nov. 11	1286	285	101	1172
Marsh, Riverius, New Brunswick, N. J., assignor to G. W. Glaentzer, New York, N. Y. Lamp.	713,127	Nov. 11	1288	285	101	1173
Marsh, Robert, et al. (See Norfolk, Napoleon B., assignor.)						
Marsh, Wilbur W., assignor to Hackett & Dailey Creamery Supply Company, Waterloo, Iowa. Centrifugal liquid-separator.	707,132	Aug. 19	2154	484	100	1591
Marsh, William S., Intervale, Me. Jar-opener.	705,941	July 29	5043	1099	100	1080
Marshall, Hendrie, (See Ring, Byron, assignor.)						
Marshall, Andrew J., Timmons, Tenn. Grain-ejector for corn-planter.	702,572	June 17	2251	537	99	2629
Marshall and Brothers, James, (See Leveque, Nathanael, assignor.)						
Marshall, Charles P., (See Miller, August J. F., assignor.)						
Marshall, Charles W., Greenwich, Ohio. Continuous-index ledger, trial-balance, and balance-sheet book combined.	714,003	Nov. 18	2290	1663 1664	101	1544
Marshall, Clinton S., (See Daniels and Marshall.)						
Marshall, Clinton S., (See Daniels, Marshall, and Trotz.)						
Marshall, Ebenezer R., Hamilton, Canada. Combined frame and register for pool-games, &c.	702,108	June 10	1493	336	99	2433
Marshall, Edgar A., Vancouver, Canada. Jar-cover seal.	716,730	Dec. 23	4047	886	101	2729
Marshall, Edward S., (See Shallenberger, Charles S., assignor.)						
Marshall, Elizabeth S., Philadelphia, Pa. Shutter-holder.	694,975	Mar. 11	1224	270	98	1991
Marshall, Frank L., Boston, Mass. Stitch-ripper.	704,971	Sept. 30	3733	840	100	2808
Marshall, George G., Wallingford, Vt. Medical electrode.	707,438	Aug. 19	2739	620	100	1714
Marshall, George M., Edinburgh, Scotland. Liquid measuring and registering device.	695,691	Mar. 18	2538	574	98	2277
Marshall, George S., St. Louis, Mo. Journal-box.	696,975	Jan. 14	1147	290	98	255
Marshall, Henry H., Lincoln, Neb. Car-coupling.	701,534	June 3	569	125	99	2226
Marshall, Henry H., Lincoln, Neb. Car-coupling.	704,888	July 15	2834	113	100	697
Marshall, Holmes, Cleveland, Ohio, assignor to National Addograph Company, Jersey City, N. J. Type-writer.	713,468	Nov. 11	1933	437	101	1311
Marshall, James, Fall River, Mass. Drying hats.	696,989	Apr. 8	1164	259	99	267
Marshall, James, Toronto, Canada. Mattress.	698,523	Apr. 29	3993	881	99	906
Marshall, James, Dunfermline, Scotland. Steam and air feeding apparatus for boiler-furnaces.	706,732	July 1	601	146	100	132
Marshall, James, Fall River, Mass. Machine for circulating and separating waste fibrous materials.	707,133	Aug. 19	2156	484	100	1592
Marshall, James T., Leeds, England. Valve-gear for fluid-pressure engines.	714,213	Nov. 25	3428	754	101	1657
Marshall, John, Fall River, Mass. Hat-forming machine.	705,107	July 22	3346	726	100	727
Marshall, John, Pawtucket, R. I., assignor of three-fourths to I. H. Russell, Fall River, Mass. A. T. Atherton, Bayside, and C. T. Atherton, Pawtucket, R. I. Machine for twisting and weaving fibrous materials.	699,203	May 6	133	34	99	1203
Marshall, John T., (See Evans and Marshall.)						
Marshall, Nathanael, M., Portland, Me. Fly-button.	703,073	June 24	3312	761	99	2843
Marshall, Norman, Newton, assignor to Marshall-Sanders Company, Boston, Mass. Socket for incandescent lamps.	690,976	Jan. 14	1149	260	98	256
Marshall, Norman, Newton, assignor to Marshall-Sanders Company, Boston, Mass. Electric switch.	696,179	Mar. 25	3482	780	98	2486

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Marshall, Norman, Newton, assignor to Marshall-Sanders Company, Boston, Mass. Electric switch	696,180	Mar. 25	3484	780	98	2486
Marshall, Norman, Newton, assignor to Marshall-Sanders Company, Boston, Mass. Electric switch	714,593	Nov. 25	4117	911	101	1796
Marshall, Norman, Newton, assignor to Marshall-Sanders Company, Boston, Mass. Plug and receptacle	714,928	Dec. 2	579	123	101	1931
Marshall, Norman, Newton, assignor to Marshall-Sanders Company, Boston, Mass. Face-plate for electric couplings	715,309	Dec. 2	1071	230	101	2056
Marshall, Robert S. (See McMurran, Robert L., assignor.)						
Marshall-Sanders Company. (See Marshall, Norman, assignor.)						
Marshall, Thomas, Jr. (See Roy and Marshall.)						
Marshall, Wilfred R. V., Paisley, Scotland. Dynamo-electric machine or motor	694,293	Feb. 25	3957	881	98	1673
Marshall, William C., Chicago, Ill. Rendering-tank	690,525	Jan. 7	309	61, 62	98	67
Marshall, William L., Fort Perry, Canada. Vehicle-gear	693,977	Feb. 25	3360	739	98	1554
Marshall, William L., Xenia, Ohio. Shaft-prop	702,973	June 24	3133	720	99	2808
Marsky, Emil, San Jose, Cal. Curtain-holder and pole-ring	691,155	Jan. 14	1461	338	98	320
Marsland, James, and J. Gaut, assignors to W. & A. McArthur, Limited, Sydney, New South Wales, Australia. Head-rest for firearms	717,011	Dec. 30	4710	1021	101	2894
Marsland, Luke W. (See Clancy and Marsland.)						
Marsolais, George L., Leominster, Mass. Adjustable stand or support	694,401	Mar. 4	127	28	98	1739
Marsteller, Oliver, South Bethlehem, Pa. Mailing-package	690,977	Jan. 14	1153	260	98	256
Marsteller, William E. (See Stewart, John, assignor.)						
Marsters, James F., Brooklyn, N. Y. Fishing-boat	717,237	Dec. 30	5159	1118	101	2991
Martenette, Frank L., Chico, assignor of one-half to H. W. Camper, H. W. Heath, and H. H. Camper, Butte County, Cal. Carburetor	691,955	Jan. 28	3007	674	98	676
Martens, Daniel G., London, England. Life-raft	696,463	Apr. 1	127	30, 31	99	33
Martens, William, Ackley, Iowa. Automatic handle-carrier for harvesters	708,776	Sept. 9	1408	323	100	2280
Martin, Richard, Milwaukee, Wis., assignor to National Enameling & Stamping Co. Sifter	713,011	Nov. 4	1021	239	101	1104
Martin, Oscar, Also Lieszko, Austria-Hungary. Speed-changing friction-gearing	705,108	July 22	3347	726	100	727
Martin, Abram J., New York, N. Y. Protector for pocket-books	691,956	Jan. 28	3008	675	98	677
Martin, Adolph, Minneapolis, Minn. Hat-display clip	711,253	Oct. 14	1054	356	101	358
Martin, Alexander W. M., assignor to L. L. May, St. Paul, Minn. Display cabinet for packets	708,057	Sept. 2	110	26	100	2004
Martin, Arrie S., Roadhouse, Ill. Door-stop	692,687	Sept. 4	838	190	98	971
Martin, Bernard S. D. S., McPherson, Kans. Storm-curtain for buggies	709,026	Sept. 16	1947	446, 447	100	2409
Martin, Bridget C. (See Alford and Martin.)						
Martin, Charles, Nottingham, England. Lace-machine	707,436	Aug. 19	2735	619	100	1713
Martin-Cooke, John A., Arlington, N. J., assignor of one-half to T. B. Inness, New York, N. Y. Building	700,794	May 27	3299	757	99	1907
Martin, Denis P. (See Loppé, Morin, Griner, and Martin.)						
Martin, Edmond, Potsdam, N. Y. Spray-nozzle	699,801	May 13	1299	301	99	1455
Martin, Edward. (See Pitt and Martin.)						
Martin, Fay H., Hydepark, assignor to American Loom Company, Readville, Mass. Loom-shuttle	697,508	Apr. 15	2099	466	99	480
Martin, Fay H., Hydepark, assignor to Textile Machinery Company, Boston, Mass. Flier	711,907	Oct. 21	2925	643	101	640
Martin, Florian J., Milwaukee, Wis. Printing-machine	708,570	Sept. 9	1018	231	100	2198
Martin, Frank A., assignor to West Disinfecting Company, New York, N. Y. Device for automatically distributing disinfecting fluids	703,287	June 24	3695	851	99	2919
Martin, Fred M. (See Moore and Martin.)						
Martin, George E., assignor to Pedrick and Ayer Company, Philadelphia, Pa. Pneumatic hoist	702,979	June 24	3134	720, 721	99	2880
Martin, George E., assignor to Pedrick and Ayer Company, Philadelphia, Pa. Compound air-compressor	706,979	Aug. 12	1871	418, 419	100	1515
Martin, George E., assignor to Pedrick and Ayer Company, Philadelphia, Pa. Riveting-machine	709,167	Sept. 16	2329	506	100	2468
Martin, George G., Pecos City, Tex. Dentistry	713,469	Nov. 11	1935	438	101	1312
Martin, George L., New York, N. Y. Marine electric-light fixture	706,578	Aug. 12	1124	248	100	1358
Martin, George P. (See Martin, Julius H. and G. P.)						
Martin, George W., and J. Palmer, assignors to E. H. Godshalk, Philadelphia, Pa. Automatic stop-motion for knitting machines	706,839	Aug. 12	1627	365	100	1467
Martin, George W., and J. Palmer, assignors to E. H. Godshalk, Philadelphia, Pa. Automatic stop-motion for knitting-machines	706,840	Aug. 12	1628	365	100	1468
Martin, Harold M., assignor to Electric Storage Battery Company, Philadelphia, Pa. Manufacture of secondary-battery plates of the Planté type	704,751	July 15	2575	555	100	552
Martin, Harrison S., Washington, D. C. Mattress-sewing machine	701,749	June 3	841	185	99	2284
Martin, Harry C., Cincinnati, Ohio. Hydrocarbon-burner	704,895	July 15	2846	616	100	610
Martin, Harry T. (See Green and Martin.)						
Martin, Henry. (See Martin, Peter, assignor.)						
Martin, Henry N., Doniphan, Nebr. Rein-guide	714,214	Nov. 25	3430	755	101	1657
Martin, Herman, Vermillion, Ohio, assignor to D. L. Nielsen. Wire-fence machine	694,798	Mar. 4	842	186	98	1890
Martin, Isaac M. (See Inshaw, William R., assignor.)						
Martin, J. Eduard. (See Vinson, George W., assignor.)						
Martin, James A. (See Latta and Martin.)						
Martin, James F., assignor to J. B. Hall, Philadelphia, Pa. Hair-crimper	710,702	Oct. 7	576	121	101	118
Martin, John A., Toronto, Canada. Truck	690,449	Jan. 7	119	26	98	27
Martin, John B., Cincinnati, Ohio. Scrubbing-brush	714,215	Nov. 25	3431	755	101	1657
Martin, John B., Cincinnati, Ohio. Barber's shears	716,454	Dec. 23	3518	769	101	2617
Martin, John F., Marshall, Mich. Mold for posts or poles	697,509	Apr. 15	2101	466	99	481
Martin, Joseph A., assignor of one-half to J. S. Persinger, Roanoke, Va. Engraving-machine	695,069	Mar. 11	1410	310	98	2027
Martin, Joseph F. (See Lane, George A., assignor.)						
Martin, Joseph H., and D. Ormand, Riverside, Cal. Machine for making pipe	695,748	Mar. 18	2633	597, 598	98	2296
Martin, Joseph H., and D. Ormand, Riverside, Cal. Machine for making pipe	695,749	Mar. 18	2634	598	98	2297
Martin, Joseph H., and D. Ormand, Riverside, Cal. Water-gate	703,102	Sept. 16	2102	451	100	2443
Martin, Julius H. and G. P. David City, Nebr. Brick-handler	705,616	July 22	4017	870	100	883
Martin, Louis, Lausanne, Switzerland. Autographic copying apparatus	692,324	Feb. 4	190	43, 44	98	839
Martin, Luther J., Orange, Va. Napkin-holder	715,678	Dec. 9	1944	435	101	2251
Martin, Peter, assignor of three-fourths to H. Martin, St. Paul, Minn. Dust-guard	701,908	June 10	1117	256	99	2357
Martin, Peter, assignor to St. Paul Manufacturing Co., St. Paul, Minn. Sand-guard for journal-boxes	715,102	Dec. 2	877	187	101	2016
Martin, Peter W., Thumb Lake, Mich. Snow-plow	706,980	Aug. 12	1872	419	100	1515



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Martin, Richard, assignor of one-half to S. T. Smith, San Francisco, Cal. Briquet-making machine	712,696	Nov. 4	427	100	101	985
Martin, Richard D., Alderson, Ind. Ter. Coke-oven	690,748	Jan. 7	746	106	98	157
Martin, Robert E., Newark, N. J. Saw	704,893	July 15	2841	615	100	609
Martin, Robert M., Dayton, Ky., assignor to American Chemical Fire Extinguisher Company, Cincinnati, Ohio. Fire-extinguisher	700,696	May 20	3080	700	99	1846
Martin, Van Buren, assignor of one-half to T. L. Metcalfe, Hopkinsville, Ky. Cover for grain-shocks, &c.	691,318	Jan. 14	1791	407	98	388
Martin, Wesley T., Yazoo City, Miss. Dental forceps	713,470	Nov. 11	1986	438	101	1312
Martin, Whitley E., Winston, assignor of one-half to Salem Iron Works, Salem, N. C. Tobacco-drying system	691,722	Jan. 21	2546	570	98	565
Martin, Whitley E., assignor of one-half to Salem Iron Works, Salem, N. C. Tobacco-drying and cooling system	691,723	Jan. 21	2551	571	98	566
Martin, Will K., Washington, D. C. Window-shade support	704,894	July 15	2843	616	100	609
Martin, William, Chicago, Ill. Apparatus for disinfecting sewer-vaults	690,866	Jan. 7	941	210	98	198
Martin, William, Chicago, Ill. Compound for disinfecting purposes	690,867	Jan. 7	942	211	98	198
Martin, William, assignor of one-half to E. J. Sweeney and M. Coughlin, Salem, Mass. Window-blind fastener	693,726	Feb. 18	2869	632	98	1435
Martin, William C., Newton, Mass. Automatic ventilating window-lock	690,204	May 6	135	34	99	1203
Martin, William H., San Francisco, Cal. Life-saving device for street-cars	696,248	Mar. 25	3615	806	98	2512
Martin, William J., Catawissa, Pa. Furniture-caster	708,895	Sept. 9	1671	384	100	2336
Martincovics, Firm of A. (See Fassmann, Josef V., assignor.)						
Marting, Edward H. H. (See Mosher, Scheel, and Marting.)						
Martino, Frederick W., Sheffield, England. Treatment of ores containing precious metals	716,847	Dec. 23	4380	101	2809	
Martinson, Herman M., Rumford Falls, Me. Agitator	708,058	Sept. 2	111	20	100	2004
Martinson, Petter, Lakepark, Minn. Siegh	712,697	Nov. 4	430	101	98	
Martz, John G., et al. (See Amburn, Otis F., assignor.)						
Marx, Friedrich, Leipzig, Germany. Apparatus for the manufacture of artificial stone	702,573	June 17	2354	538	99	2629
Marx, George B., New York, N. Y. Lifting device for coal-wagons, &c.	708,819	Sept. 9	1518	348	100	2303
Marx, Gustave C. (See Miller and Marx.)						
Marx, Michael, New York, N. Y., and A. de Guerra, Philadelphia, Pa. Lock-stitch sewing-machine	696,578	Apr. 1	331	78.79	99	74
Marx, Richard, Wilmington, Del. Parallel-motion for ruling-edges	714,594	Nov. 25	4119	911	101	1796
Marx, Xavier. (See Buettner and Marx.)						
Maryland Shoe Machinery Company. (See Williams, Allen G., assignor.)						
Maryland Stopper Company. (See Lindemeyer, Philip, assignor.)						
Maschinenfabrik Grevenbroich, vormals Langen & Hundhausen. (See Hirt, Ludwig, assignor.)						
Maschke, John F. (See Cook and Maschke.)						
Maschke, Salli, Berlin, Germany. Apparatus for storing and removing rubbish	696,832	Apr. 1	820	180	99	174
Masecar, John R., Toronto Junction, Canada, assignor of one-half to D. Brown, Donaghmore, Ireland. Soap-press	699,887	May 13	1487	341	99	1496
Masecar, John R., and T. Bevington, Toronto Junction, Canada, assignors of one-half to D. Brown, Donaghmore, Ireland. Feeding mechanism for presses for plastic material	708,050	Sept. 2	113	27	100	2005
Mashburn, Matthew W., Wedowee, Ala. Stump-puller	691,645	Jan. 21	2412	542	98	337
Maskrey, Arthur J., Martins Ferry, Ohio. Sheet catching and packing device	703,210	June 24	3574	821	99	2894
Maskrey, Arthur J., Martins Ferry, Ohio. Combined gas-producer and recuperative furnace	706,579	Aug. 12	1126	248	100	1350
Masland, Joseph H., Philadelphia, Pa. Spring for pillows, cushions, &c.	691,065	Jan. 14	1319	298	98	290
Masland, Harvey C., Philadelphia, Pa. Holder for brushes and drinking-glasses	712,824	Nov. 4	674	156	101	1035
Maslin, Emile, and C. Thery, Marseilles, France. Furnace and air-feeding apparatus therefor	715,494	Dec. 9	1604	347	101	2181
Mason, Arthur J. (See Hoover and Mason.)						
Mason, Benjamin W., assignor of one-tenth to J. M. Sutherland, St. Louis, Mo. Liquid-cooling device	691,790	Jan. 28	2714	609	98	617
Mason, Charles E., San Francisco, Cal. Massaging device	709,103	Sept. 16	2103	482	100	2444
Mason, Charles T., Sumter, S. C. Joint for telephone-transmitter arms	714,813	Dec. 2	322	70	101	1902
Mason City Gas and Fuel Company. (See Leckband, Theodor H. J., assignor.)						
Mason, Edward L., Ipswich, Mass. Strainer	697,154	Apr. 8	1451	326	99	328
Mason, Francis C. (See Shanahan and Mason.)						
Mason, Francis C., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Roller-bearing for carpet-sweepers	709,444	Sept. 16	2778	625	100	2585
Mason, Frederic H., Spokane, Wash. Automatic valve	698,530	Apr. 29	3384	881	99	907
Mason, Frederic H., Spokane, Wash. Self-closing valve	706,432	Aug. 5	878	190	100	1292
Mason, Frederic,avenport, Iowa. Fruit-jar	701,213	May 27	4062	983	99	2065
Mason, Harry R., Chicago, Ill., assignor to Westinghouse Air Brake Company, Pittsburgh, Pa. Fluid-pressure signal-valve	693,415	Feb. 18	2269	497	98	1312
Mason, Harry R., Chicago, Ill., assignor to Westinghouse Air Brake Company, Pittsburgh, Pa. Engineer's brake-valve	709,027	Sept. 16	1949	447	100	2409
Mason, Henry T., Chicago, Ill. Stopper for boiler-tubes or hollow shafting	700,351	May 20	2432	554	99	1708
Mason, James F., London, England. Motor-car or other vehicle	712,825	Nov. 4	675	157	101	1036
Mason, James H., Brooklyn, N. Y. Electric motor	703,144	June 24	3446	790	99	2870
Mason, John. (See Rouse, George, assignor.)						
Mason, John F., Des Moines, Iowa. Bottle	715,103	Dec. 2	878	187	101	2016
Mason, John F., Des Moines, Iowa. Bottle	715,104	Dec. 2	879	187	101	2016
Mason Machine Works. (See Meats and McGowan, assignors.)						
Mason Regulator Company. (See Mason, William B., assignor.)						
Mason, Robert L., Hampton, Va. Dough-kneading machine	714,004	Nov. 18	2084	664	101	1545
Mason, Sydney. (See Grimm, Gerhard E., assignor.)						
Mason, Stephen C., assignor to McConway & Torley Company, Pittsburg, Pa. Car-coupling	695,619	Mar. 18	2418	547	98	2253
Mason, Thomas G. (See Gassard, Louis, assignor.)						
Mason, Volney W., Jr., New York, N. Y. Grinding or crushing head	692,886	Feb. 11	1215	269	98	1074
Mason, Volney W., Jr., New York, N. Y. Grinding or crushing head	700,526	May 20	2775	635	99	1778
Mason, Volney W., Jr., New York, N. Y. Grinding or crushing head or roll	709,642	Sept. 23	3177	700	100	2084
Mason, Volney W., Jr., New York, N. Y. Gear-wheel	711,991	Oct. 28	3102	670	101	694
Mason, Volney W., Jr., New York, N. Y. Excavating-tooth for power-shovels	711,992	Oct. 28	3103	670	101	694
Mason, Volney W., Jr., New York, N. Y. Elevator	711,993	Oct. 28	3105	680	101	694
Mason, Volney W., Jr., New York, N. Y. Cam	715,830	Dec. 16	2260	503	101	2336
Mason, Volney W., Jr., New York, N. Y., assignor to Taylor Iron and Steel Co., High-bridge, N. J. Revolving screen	694,505	Mar. 4	449	96.97	98	1808

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Mason, William. (See Bennett and Mason.)						
Mason, William, assignor to Winchester Repeating Arms Co., New Haven, Conn. Combined percussion and electric primer.	712,826	Nov. 4	675	157	101	1086
Mason, William B., Boston, Mass., assignor to Mason Regulator Company, Saco, Me. Brake mechanism for motor-vehicles.	691,724	Jan. 21	2555	572	98	567
Mason, William J., assignor of one-third to C. H. Wyman, Chicago, Ill. Rotary engine.	706,077	Aug. 5	147	31	100	1147
Masse, Casimir, Rantigny, assignor of one-half to La Société Française de Ramie, Paris, France. Treatment of ramie, china-grass, or other fibrous material.	711,577	Oct. 21	2269		101	501
Massey, Edward, Holmes Chapel, England. Apparatus for harvesting potatoes.	706,981	Aug. 12	1873	419 420 581 582 593	100	1516
Massey, Harold F., Withington, England. Pneumatic power-hammer.	707,246	Aug. 19	2373		100	1698
Massey, Madison M. (See Copeland and Massey.)						
Masson, Alfred, and E. Fortin, Paris, France. Machine for cutting buttons, &c., out of nacre, &c.	711,727	Dec. 2	144	29,30	101	1867
Mast, William J. D., assignor to Buffalo Manufacturing Company, Buffalo, N. Y. Spirit-lamp.	703,604	July 1	403	94	100	80
Master, James W., assignor of one-half to C. B. Richards, San Diego, Cal. Bicycle.	712,098	Nov. 4	431	101	101	986
Master, James W., assignor of one-half to C. B. Richards, San Diego, Cal. Vaporizer.	717,238	Dec. 30	5161	1118	101	2992
Masters, Thomas J., Cardiff, England. Rotary engine.	694,294	Feb. 25	8358	881	98	1673
Masters, William, Kansas City, Mo. Reversible envelop or wrapper.	700,352	May 20	2433	555	99	1708
Masters, William F., Brooklyn, N. Y. Vehicle-wheel.	696,249	Mar. 25	3617	808	98	2513
Masterson, Frank D. (See Miller and Masterson.)						
Masterson, Patrick, Newington, Canada. Carriage-pole attachment.	707,439	Aug. 19	2740	620	100	1714
Mastick, John C., et al. (See Brooks, Howard, assignor.)						
Mathen, Josef, Bolton, Conn., assignor to Anthony & Scovill Company, New York, N. Y. Revolving trimmer for photographic prints.	704,352	July 8	1851	401	100	391
Matheny, Thirston. (See McKee and Matheny.)						
Matheny, Thirston, Chauncy, Ohio. Shipping-tag.	694,402	Mar. 4	128	28	98	1739
Mather, Allan G., Milwaukee, Wis., assignor of one-half to Allis-Chalmers Company, Chicago, Ill. Universal coupling.	709,902	Sept. 30	3883	875 876	100	2839
Mather, Alonzo C., Chicago, Ill. Belt-tightener for water-regulating devices.	715,105	Dec. 2	880	188	101	2016
Mather, Cornelius B. (See Conklin, Melvin M., assignor.)						
Mather, Henry W., Roseville, N. J. Paper-cutting machine.	708,722	Sept. 9	1311	290	100	2259
Mathers, George C., assignor of one-third to F. R. Wolf, Indianapolis, Ind. Shade-roller and fixture.	705,594	July 29	4428	959	100	956
Matheson, Daniel J., Nanaimo, Canada. Door-securer.	700,527	May 20	2777	635	99	1779
Mathews, Franklin S., New York, N. Y. Sheet-straightener for printing-presses.	717,427	Dec. 30	5493	1191	101	3059
Mathews, George. (See Orr and Mathews.)						
Mathews, George R., Kalamazoo, Mich. Reel.	699,763	May 13	1229	286	99	1440
Mathews, John, Chicago, Ill. Elevator-door.	690,749	Jan. 7	118	166	98	157
Mathewson, Arthur W., Lewiston, Me. Railway-head or other similar fiber-drawing machine.	690,596	Jan. 7	435	93 94 95	98	95
Mathewson, Jeremiah E., Broad Heath, near Manchester, England, assignor, by mesne assignments, to E. C. & R. A. Tighman, Philadelphia, Pa. Apparatus for cleaning air from sand-blast apparatus.	707,134	Aug. 19	2157	485	100	1592
Mathias, Henry J., assignor of one-half to J. T. Crossley, Philadelphia, Pa. Cooking-range.	714,645	Nov. 25	4241	933	101	1814
Mathias, Lewis, and E. L. Ray, Haynes, Iowa. Pick, &c.	691,559	Jan. 21	2318	505	98	502
Mathias, T. M., et al. (See Webster, David G., assignor.)						
Mathias, Theodore N., Milwaukee, Wis., assignor to himself, L. G. Adams, S. J. Hall, Waterloo, Iowa, and D. G. Webster, Capron, Ill. Line spreader and guide.	700,735	May 27	3300	757	99	1907
Mathis, August. (See Mathis, Julien W., assignor.)						
Mathis, Elmer, Miles, Ore. Spring-hinge.	708,896	Sept. 9	1672	385	100	2336
Mathis, Gerhard, Brooklyn, N. Y. Shade-roller.	714,005	Nov. 18	2986	664	101	1546
Mathis, John H. (See Smith and Mathis.)						
Mathis, Julien W., et al. (See Rogers, Charles W., assignor.)						
Mathis, Julien W., assignor of one-half to A. Mathis, Chicago, Ill. Sheet-metal seam or joint.	708,723	Sept. 9	1313	299	100	2260
Mathisen, Jens. (See Newlin and Mathisen.)						
Mathison, Joseph, Boston, Mass. Skirt-supporter.	696,650	Apr. 1	462	108	99	99
Mathison, Joseph, Boston, Mass., assignor to New Button Sewing Machine Company, Newark, N. J. Machine for sewing shank-eyed buttons.	690,978	Jan. 14	1154	261 262 263	98	257
Matifat and Co., Albert. (See Brankowitch, Wladimir, assignor.)						
Matitsch, August, Vienna, Austria-Hungary. Lace-making machine.	705,539	July 22	4298	929 930 931 932	100	918
Matlack, Annie L., Chestnut Hill, Pa. Garment-supporter and waist-adjuster.	705,690	July 29	4590	996	100	988
Matson, John S., Greenville, Pa. Railway block system.	699,542	May 6	771	182	99	1334
Mattei, Diego, Genoa, Italy. Apparatus for dyeing, &c.	705,856	July 29	4892	1003 1064	100	1050
Matteson, Don C. (See Matteson, Walter C., assignor.)						
Matteson, Edmund H. (See Broun, Frederick M., assignor.)						
Matteson, Frederic C., Houston, Kans. Pipe-wrench.	701,066	May 27	3709	870	99	2009
Matteson, Jesse V., San Francisco, Cal. Bag-machine.	714,386	Nov. 25	3745	826	101	1720
Matteson, Lynn B., and M. P. McArthur, Cripple Creek, Colo. Flying toy.	712,946	Nov. 4	920	213	101	1085
Matteson, Lynn B., and M. P. McArthur, assignors to Butterly Manufacturing Company, Cripple Creek, Colo. Flying toy.	693,327	Feb. 11	2095	459	98	1255
Matteson, Rufus S., Providence, R. I. Textile-roller clearer.	697,212	Apr. 8	1551	348	99	349
Matteson, Walter C., assignor of one-half to D. C. Matteson, Stockton, Cal. Ore-car.	713,321	Nov. 11	1677	877	101	1256
Mathes, Julius H., assignor to Brunswick-Balke-Collender Company, Chicago, Ill. Making pool-balls.	701,492	June 3	382	86	99	2187
Matthew, Patrick M., Edinburgh, Scotland. Calendaring-machine.	695,107	Mar. 11	1472	328	98	2039
Matthews, Albert P., et al. (See Seifert, John W., assignor.)						
Matthews, Ambrose T., assignor to Matthews Manufacturing Co., Worcester, Mass. Stove-urn.	691,319	Jan. 14	1792	407	98	389
Matthews, Arthur R. (See Hestand and Matthews.)						
Matthews, Charles, Columbia, Mo. Heating-stove.	704,889	July 15	2835	613	100	007
Matthews, Charles P., Lafayette, Ind., assignor to L. B. Marks, New York, N. Y. Photometer.	712,397	Oct. 28	3827	890	101	842



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Matthews, Francis B. (See Smith, Sommers N., assignor.)						
Matthews, Francis B., Philadelphia, Pa. Feed-water heater	685,320	Mar. 11 1871	416		98	2121
Matthews, Fred, Wellington, New Zealand. Rein-holder	713,471	Nov. 11 1937	417		101	1312
Matthews, George E., et al., trustees. (See Kidder, Wellington P., assignor.)			438			
Matthews, John C., Bluemound, Kans. Milking-machine	712,563	Nov. 4 1901	201	47	101	939
Matthews, John G., assignor to Sheffield Car Company, Three Rivers, Mich. Motor-car	696,741	Apr. 1 1901	657	149	99	141
Matthews, John T., Newark, N. J. Match-box	694,163	Feb. 25 1878	825		98	1628
Matthews, Joseph, Kings Heath, and W. Davies, Selby Park, England. Electrolytic apparatus	715,281	Dec. 9 1198	256		101	2100
Matthews, Lafayette, Merkel, Tex. Listing-machine	711,638	Oct. 21 2384	523		101	526
Matthews, Louis P. (See Johnson and Matthews.)						
Matthews Manufacturing Co. (See Matthews, Ambrose T., assignor.)						
Matthews, William B., et al. (See Dunham, William L., assignor.)						
Matthews, William E., Ferndale, Cal. Curtain-fixture	693,296	Feb. 11 2039	445		98	1243
Matthey-Meier, Constant, Basle, Switzerland. Apparatus for destroying bugs or other insects infesting dwellings or like places	704,847	July 15 2761	596		100	591
Mattimore, John. (See O'Brien and Mattimore.)						
Mattison, Byron P., Welton, Illa. Snap-hook	699,695	May 13 1097	257		99	1414
Mattoch, Robert L., Chicago, Ill. Carrier for sheet-music	693,878	Feb. 25 3199	698		98	1512
Matton, Frederick V., Camden, N. J. Apparatus for coaling ships	714,499	Nov. 25 3947	874		101	1758
Matton, Hector L., Yonkers, N. Y. Head of pile-wire for looms	697,263	Apr. 8 1642	368		99	370
Mattox, Henry D., Haleford, Va. Combined corn-planter and fertilizer-distributor	697,510	Apr. 15 2103	466		99	481
Mattson, Axel W., Quincy, Mass. Projectile	702,664	June 17 2321	577		99	2664
Mattson, Nils. (See Lindall and Mattson.)						
Mattsson, David C., Altona, Germany. Gymnastic apparatus	705,296	July 22 3703	803		100	798
Matula, Valentine, assignor of one-half to W. L. Foster, Belmont, Tex. Pipe-grab	700,216	May 20 2143	491		99	1649
Matz, Adam. (See Keyler and Matz.)						
Matz, William J. (See Erdman, Edward M., assignor.)						
Mau, Albert, Chicago, and C. Paesel, Clyde, Ill., assignors to P. Bent. Step-ladder	702,574	June 17 2355	538		99	2630
Mauer, Mathias, and W. J. Billings, New York, N. Y. Bushing for electrical conduits	710,488	Oct. 7 152	37		101	37
Mauger, Samuel W., Schenectady, N. Y., assignor to General Electric Company. Synchronizing apparatus for alternators	717,234	Dec. 30 2153	1117		101	2990
Mauldin, Caleb, Minneapolis, Minn. Storm-sash fastener	692,025	Jan. 28 3131	705		98	700
Mauldin, James L., Cleveland, Ohio, assignor to Computing Scale Company. Spring-balance scale	702,020	June 10 1323	302		99	2397
Maulick, William F., Columbia, Pa. Photographic-film-protecting strip	702,575	June 17 2357	538		99	2630
Maun, John C., Bigcove Tannery, Pa. Bolting-machine	711,222	Oct. 14 1600	343		101	347
Mauran, William A., Providence, R. I. Carpet-lining	715,679	Dec. 9 1945	485		101	2522
Maurer, Adolf, Ehrenfeld, near Cologne, Germany. Tramway-car	704,067	July 8 1292	280		100	273
Maurer, George H., Washington, D. C. Inhaler with nasal attachment	700,528	May 20 2778	635		99	1773
Maurer, Gustave A. (See Warren, Charles T., assignor.)						
Maurer, Hermann. (See Lehmann and Maurer.)						
Maurer, Jacob, Geneva, Switzerland. Pump	716,731	Dec. 23 4048	886		101	2729
Maurer, Josef, and C. Furtner, Vienna, Austria-Hungary. Railway or other car	710,591	Oct. 7 377	79		101	75
Mauricas, Peter P. (See Stankevics, Yulknis, and Mauricas.)						
Maury, Dabney H., Peoria, Ill. Well-inlet	704,896	July 15 2847	616		100	610
Maus, James W., Pacific Junction, Iowa. Ventilator	709,230	Sept. 16 2344	531		100	2494
Mausser, Johann, Esslingen, Germany. Hand-sled	715,405	Dec. 9 1429	308		101	2147
Mausser, John, New York, N. Y. Barrel-register	708,733	July 1 662	147		100	132
Maussner, Friedrich, Philadelphia, Pa., assignor to American Interlaced Horse Collar Company. Horse-collar	691,560	Jan. 21 2342	505		98	502
Mawer, Fred. (See Barnes and Mawer.)						
Mawhinney Last Company. (See Tyler, Abel D., Jr., assignor.)						
Max Huncke Chemical Company. (See Harris, William W., assignor.)						
Maxim, Hiram P., Hartford, Conn., assignor, by mesne assignments, to Electric Vehicle Company, Jersey City, N. J., and New York, N. Y. Motor-vehicle	699,543	May 6 773	182	183	99	1334
Maxim, Hiram P., Hartford, Conn., assignor, by mesne assignments, to Morton Trust Company, trustee. Steering mechanism for vehicles	702,980	June 24 3136	721		99	2809
Maxim, Hiram P., Hartford, Conn., assignor, by mesne assignments, to Morton Trust Company, trustee. Motor-vehicle	716,917	Dec. 30 4518	980		101	2853
Maxim, Hiram P., and H. M. Pope, Hartford, Conn., assignors, by mesne assignments, to Electric Vehicle Company, New York, N. Y., and Jersey City, N. J. Motor-vehicle	702,448	June 17 2113	480		99	2579
Maxim, Hiram S., London, England. Obtaining coffee substitutes	693,662	Feb. 18 2743	605		98	1410
Maxim, Hiram S., London, England. Apparatus for use in the treatment of coffee	701,750	June 3 843	186		99	2285
Maxim, Hudson, New York, N. Y. Cartridge	694,295	Feb. 25 3960	882		98	1673
Maxim, Hudson, New York, N. Y. Device for the prevention of erosion in ordnance	707,135	Aug. 19 2158	485		100	1582
Maxim, Hudson, London, England. War vessel	695,108	Mar. 11 1472	328	329	98	2040
Maxim, Hudson, Brooklyn, N. Y. Electrical furnace for treating highly-refractory substances	704,649	July 15 2385	517		100	514
Maxwell, Charles E., Wollaston, Mass. Type-writer	696,833	Apr. 1 821	189	190	99	174
Maxwell, George S., Madison, N. J., assignor of one-half to H. D. Crippen, New York, N. Y. Pulverizing-mill	704,650	July 15 2388	517		100	515
Maxwell, George S., Madison, N. J., assignor of one-half to H. D. Crippen, New York, N. Y. Supporting device for punching-bags	710,112	Sept. 30 4111	927		100	2886
Maxwell, George S., Madison, N. J., assignor of one-half to H. D. Crippen, New York, N. Y. Supporting device for punching-bags	713,232	Nov. 11 1457	330		101	1212
Maxwell, George S., Jersey City, N. J., assignor of one-half to H. D. Crippen, New York, N. Y. Punching-bag support	710,113	Sept. 30 4112	928		100	2886
Maxwell, George S., Jersey City, N. J., assignor of one-half to H. D. Crippen, New York, N. Y. Punching-bag support	712,828	Nov. 4 680	158		101	1037
Maxwell, George S., Jersey City, N. J., assignor of one-half to H. D. Crippen, New York, N. Y. Punching-bag support	714,500	Nov. 25 3949	876		101	1759
Maxwell, George S., Jersey City, and G. White, Jr., Madison, N. J. Exercising apparatus	712,827	Nov. 4 678	157	158	101	1036
Maxwell, George W., Los Angeles, Cal. Mechanical directory, &c.	697,376	Apr. 8 1826	410		99	408
Maxwell, George W., Los Angeles, Cal. Cabinet-directory	697,377	Apr. 8 1833	411		99	409
Maxwell, George W., Los Angeles, Cal. Mechanical directory	697,378	Apr. 8 1836	411	412	99	410

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Maxwell, George W., Los Angeles, Cal. Mechanical directory .....	697,379	Apr. 8	1841	412	99	411
Maxwell, George W., Los Angeles, Cal. Mechanical directory .....	697,380	Apr. 8	1844	412	99	413
Maxwell, George W., Los Angeles, Cal. Mechanical directory .....	697,381	Apr. 8	1848	413	99	413
Maxwell, George W., Los Angeles, Cal. Mechanical directory .....	697,382	Apr. 8	1849	414	99	414
Maxwell, Harry, West Oakland, Cal. Locomotive valve-gear .....	702,809	June 17	2798	643	99	2723
Maxwell, James M., Pittsburg, Pa. Motor .....	701,007	May 27	3800	871	99	2010
Maxwell, Jonathan D., Detroit, Mich. Motor-vehicle .....	701,909	June 10	1118	256	99	2358
Maxwell, William, Pittsburg, Pa. Toy biograph .....	709,342	Sept. 16	2567	577	100	2542
Maxwell, William, Pittsburg, Pa. Can-opener .....	713,472	Nov. 11	1938	439	101	1312
Maxwell, William, Pittsburg, Pa. Ice-cream disher and mold .....	713,897	Nov. 18	2779	618	101	1503
Maxwell, William, Pittsburg, Pa. Pipe-tongs .....	714,387	Nov. 25	3746	827	101	1721
Maxwell, William P., Boston, Mass. Umbrella-runner retainer .....	711,061	Oct. 14	1271	276	101	276
May, Charles, London, England. Means for ascertaining the level of liquids .....	712,699	Nov. 4	432	98	101	389
May, Edgar F., Waukomis, Okla. Ter. Harrow .....	704,891	July 15	2849	617	100	610
May, Frank, Knoxville, Tenn. Cheese-cutter .....	706,328	Aug. 5	653	142	100	1247
May, Henry. (See Shipway and May.) .....						
May, Henry, Janesville, and C. Kunz, Fort Atkinson, Wis. Car-coupling .....	711,514	Oct. 21	2149	467	101	477
May, Herbert L. (See Howell, Edward W., assignor.) .....						
May, John J. (See Morley, Charles O., assignor.) .....						
May, Joseph H. (See Butler and May.) .....						
May, Lewis L. (See Martin, Alexander W. M., assignor.) .....						
May, Walter S., Clifton, Ariz. Ter. Acetylene-gas generator .....	714,929	Dec. 2	580	123	101	1952
May, William R., Newton, Mass. Governor for propeller-shafts .....	705,417	July 22	4019	870	100	863
Maybach, Wilhelm, Cannstadt, Germany. Motor-vehicle .....	708,436	July 1	124	28	100	27
Maybach, Wilhelm, Cannstadt, Germany. Motor-vehicle .....						
Maybach, Wilhelm, Cannstadt, Germany, assignor to Daimler Manufacturing Company, New York, N. Y. Means for attaching axle-springs to vehicle frames .....	691,156	Jan. 14	1462	333	98	320
Maybach, Wilhelm A., Cannstadt, Germany, assignor to Daimler Manufacturing Company, New York, N. Y. Oil-pump .....	693,727	Feb. 18	2870	632	98	1435
Maybach, Wilhelm A., Cannstadt, Germany, assignor to Daimler Manufacturing Company, New York, N. Y. Electric igniter for motors .....	695,321	Mar. 11	1873	417	98	2122
Maybach, Wilhelm A., Cannstadt, Germany, assignor to Daimler Manufacturing Company, New York, N. Y. Cooling and condensing apparatus .....	709,416	Sept. 16	2726	612	100	2575
Mayberry, Frank E., Medford, Mass. assignor of five-eighths to W. M. Holmes, Hoosick Falls, N. Y., and G. A. Lowry, Chicago, Ill. Telephone system .....	691,281	Jan. 14	1698	387	98	369
Mayenschein, George G., Sunnyside, Wash. Hay-derrick .....	700,353	May 20	2434	555	99	1708
Mayer, Adolf, <i>et al.</i> (See Hummel, Louis, assignor.) .....						
Mayer, Adolphus. (See Litot and Mayer.) .....						
Mayer, Alfred. (See Clark and Mayer.) .....						
Mayer, Alvarado, Detroit, Mich. Automatic valve for steam fire-engines, &c .....	697,097	Apr. 8	1261	302	99	309
Mayer, August, Stuttgart, Germany. Mower .....	710,289	Sept. 30	4428	1001	100	2858
Mayer, Cornelius, Trenton, N. J. Drawer for furniture, &c .....	708,820	Sept. 9	1520	348	100	2304
Mayer, David A. (See Gillaspay, Leonard, assignor.) .....						
Mayer, Frank W., <i>et al.</i> (See Dela Mar, Joseph, assignor.) .....						
Mayer, Fritz, <i>et al.</i> (See Nossian, Wilhelm, assignor.) .....						
Mayer, George S., <i>et al.</i> (See Dela Mar, Joseph, assignor.) .....						
Mayer, Harry F. (See Barrath, Edward, assignor.) .....						
Mayer, Isidor E., Louisville, Ky. Trousers .....	698,728	Feb. 18	2872	632	98	1436
Mayer, Jacob A., <i>et al.</i> (See Dela Mar, Joseph, assignor.) .....						
Mayer, Michael W., Allegheny, Pa. Rail-joint .....	695,221	Mar. 11	1699	377	98	2087
Mayer, Otto L. (See Saldin, Max, assignor.) .....						
Mayer, Sigmund, Chicago, Ill. Automatic vending-machine .....	704,752	July 15	2576	555	100	553
Mayer, Simon, <i>et al.</i> (See Poulson, Peter, assignor.) .....						
William H., <i>et al.</i> (See Dela Mar, Joseph, assignor.) .....						
Mayes, Fred S. (See Mayes, King, and Mayes.) .....						
Mayes, John G., H. F. King, and F. S. Mayes, Hazen, Pa. Toy bank .....	698,528	Feb. 18	2486	545	98	1357
Mayes, John L., St. Louis, Mo. Railway-joint .....	694,655	Mar. 4	605	133	98	1840
Mayfield, Jess L., Sonora, Tex. Float-valve .....	711,874	Oct. 21	2850	630	101	626
Mayfield Manufacturing Company. (See Paris, Steelman, and Haverfield, assignors.) .....						
Mayfield, Thomas N., Dykesville, La. Cotton-chopper .....	713,898	Nov. 18	2781	618	101	1503
Mayhew, Alfred H., Balham, England. Suspension-railway .....	709,343	Sept. 16	2568	578	100	2542
Mayhew, Charles L., Saratoga Springs, N. Y. Motor-vehicle .....	698,086	Apr. 22	3068	676	99	700
Mayhew, Frank J. (See Taylor, Horace H., assignor.) .....						
Maynadier, James E. (See Potter, Thomas O., assignor.) .....						
Maynard, Arthur B. (See Spitzli and Lord, assignors.) .....						
Maynard, Charles A., Springfield, Mass. Rubber tire .....	692,325	Feb. 4	192	44	98	839
Maynard, Harry L., <i>et al.</i> (See Outland, Alonzo P., assignor.) .....						
Maynard, Harry L., <i>et al.</i> (See Love, Samuel, assignor.) .....						
Maynard, Hormisdas, Montreal, Canada. Cinder-sifter .....	709,852	Sept. 23	3574	805	100	2763
Maynard, Wilbur N., Leominster, Mass. Handle .....	700,354	May 20	2435	555	99	1709
Maynes, Hyla F., Corning, N. Y. Changeable gear for bicycles .....	696,349	Mar. 25	3824	853	98	2557
Mayo, Benjamin F., Salem, Mass. assignor, by mesne assignments, to United Shoe Machinery Company. Heel-nailing machine .....	694,656	Mar. 4	606	133	98	1840
Mayo, Benjamin F., Salem, Mass. assignor, by mesne assignments, to United Shoe Machinery Company. Nail-assorting mechanism .....	707,136	Aug. 19	2160	455	100	1593
Mayo, Benjamin F., Salem, Mass. assignor, by mesne assignments, to United Shoe Machinery Company. Nail-assorting apparatus .....	707,137	Aug. 19	2163	455	100	1593
Mayo, Benjamin F., Salem, Mass. assignor, by mesne assignments, to United Shoe Machinery Company. Nail-assorting mechanism .....	707,139	Aug. 19	2175	458	100	1595
Mayo, Benjamin F., Salem, Mass. assignor, by mesne assignments, to United Shoe Machinery Company. Raceway for nail-assorting machines .....	707,142	Aug. 19	2184	489	100	1597
Mayo, Benjamin F., Salem, Mass. assignor, by mesne assignments, to United Shoe Machinery Company. Heel-nailing machine .....	707,144	Aug. 19	2187	490	100	1598
Mayo, Benjamin F., Salem, and A. D. Elliott, Winchester, Mass., assignors to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Nail-assorting mechanism .....	707,138	Aug. 19	2168	487	100	1595
Mayo, David C., assignor to W. G. Moseley, Richmond, Va. Machine for treating tobacco-stems .....	697,511	Apr. 15	2105	467	99	481
Mayo, David C., assignor to W. G. Moseley, Richmond, Va. Machine for drying leaf-tobacco .....	697,512	Apr. 15	2108	468	99	482



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Mayo, Robert D., Frankfort, Mich. Life-boat	690,909	Jan. 7	1021	230	98	213
Mayo, Robert D., Frankfort, Mich. Life-boat	709,417	Sept. 16	2728	612	100	2575
Mayo, Thomas H., Melrose Highlands, Mass. Heel for boots or shoes	691,910	Jan. 28	2919	658	98	659
Mayotte, Philus, assignor to himself and R. McLean, Wells, Mich. Fastening device for driving-horses	701,751	June 3	847	186	99	2285
Mayr, Walter A. (See Carlson and Mayr.)						
Mayr, Walter A., Chicago, Ill. Curtain-stretcher	705,857	July 29	4894	1064	100	1051
Mays, James M., Allegheny, Pa. Spring-clip	701,068	May 27	3502	871	99	2010
Mazey, John T. (See Illingworth, Mazey, and Naylor.)						
McAbee, Joel P., Piedmont, Ala. Foot-warmer	701,756	June 3	852	188	99	2286
McAda, James N. (See Forister, John H., assignor.)						
McAdam, John V., assignor to American Steel-Body Double-Bolster Co., St. Louis, Mo. Car body-bolster	706,680	Aug. 12	1317	291	100	1401
McAdams, Sylvester L., Beaverfalls, Pa. Gas-regulator	702,236	June 10	1715	387	99	2478
McAlister, John, Birwinsdale, Pa. Mining-car	696,070	Mar. 25	3239	732	98	2435
McAll, Henry W., Red Hill, England. Calendar	694,881	Mar. 4	1050	233	98	1994
McAllister, Elbert W., South Bend, Ind., assignor to Bauer & Black, Chicago, Ill. Blister-plaster	716,265	Dec. 16	3135	687	101	2522
McAllister, George A. (See Johnstone, Antoine P., assignor.)						
McAllister, James A., Indianapolis, Ind. Smoke-consuming furnace	711,255	Oct. 14	1656	356	101	359
McAlpin, George L. (See Herrington, Florence L., assignor.)						
McAlpine, Lemuel B., assignor to Climax Road Machine Company, Marathon, N. Y. Road-roller	710,165	Sept. 30	4221	952	100	2910
McAnulty, John A., Hamilton, Ohio. Observation-tower	703,146	June 21	3450	791	99	2870
McArthur, Marshall P. (See Matteson and McArthur.)						
McArthur, Robert, Holland, Canada. Attachment for bob-sleighs	714,389	Nov. 25	3749	827	101	1721
McArthur, W. & A. (See Marsland and Gaut, assignors.)						
McAtee, James A., Mahanoy Plane, Pa. Automatic draft-regulating device	707,789	Aug. 26	3489	736	100	1883
McAuley, Robert C., Pittsburg, Pa. Trap	690,658	Jan. 7	553	121	98	120
McAuliffe, John W., Providence, R. I. Gasket	696,183	Mar. 25	3490	781	98	2187
McAuliffe, John W., Providence, R. I. Waste-trap	705,777	July 29	4753	1030	100	1021
McAuliffe, Thomas. (See Bolton, John T., assignor.)						
McAuley, John S., Edmon, Pa. Steel rail tie and fastener	690,751	Jan. 7	751	167	98	158
McBath, George W., Meridian, Miss. Back-band-making machine	714,012	Nov. 18	2997	667	101	1548
McBee, Randolph, Washington, D. C. Stop-box	704,656	July 15	2400	519	100	517
McBee, Vardry E., Norfolk, Va. Railway-tie plate	709,348	Sept. 16	3576	581	100	2543
McBerty, Frank R., Evanston, assignor to Western Electric Company, Chicago, Ill. Service-meter for telephone-lines	690,453	Jan. 7	129	27	98	29
McBerty, Frank R., Evanston, assignor to Western Electric Company, Chicago, Ill. Glass-working machine	696,467	Apr. 1	135	33	99	34
McBerty, Frank R., Evanston, assignor to Western Electric Company, Chicago, Ill. Selective calling appliance for telephone-lines	710,333	Sept. 30	4514	1017	100	2974
McBerty, Frank R., and P. H. Lovetridge, Evanston, assignors to Western Electric Company, Chicago, Ill. Signal-lamp for telephone-switchboards	709,996	Sept. 30	3888	877	100	2840
McBride, Albert P., Independence, Kans. Pipe-wrench	703,292	June 24	3702	853	99	2021
McBride, Charles C., Redding, Cal. Excavating-machine	716,741	Dec. 23	4063	890	101	2732
McBride, Edward, et al. (See Earl, Charles M., assignor.)						
McBride, John H., Topeka, Kans. Copy-holder	701,599	June 3	577	126	99	2229
McBride, Joseph A., Estherville, Iowa. Pail or package lining	714,320	Nov. 25	3651	800	101	1697
McBride, Robert, Eburne, Canada. Baling-press	715,409	Dec. 9	1434	309	101	2148
McBride, Thomas C., Philadelphia, Pa. Rotary engine, water-meter, or pump	698,539	Apr. 29	4001	884	99	910
McBride, Vincent R., Stillwater, Okla. Ter. Sash-lock	706,845	Aug. 12	1643	367	100	1471
McBride, William C., Hillsboro, Tex. Ventilator and mirror-protector	704,076	July 8	1918	287	100	276
McBroom, Charles H., Corticelli, Mo. Animal-poke	695,323	Jan. 11	1885	419	98	2124
McBurney, John W., Fort Palmer, Pa. Expansion joint-coupling for track-rails	712,320	Oct. 28	3686	805	101	809
McBurney, Joseph, et al. (See Bluff, John T., assignor.)						
McCabe, James T., East Orange, N. J. Thermostatic fire-door apparatus	703,347	June 24	3812	876	99	2945
McCabe, Thomas W. R., Winsted, Conn. Winding-key head	708,243	Sept. 2	456	103	100	2074
McCabe, William L., Tacoma, Wash. Chute	695,329	Mar. 11	1886	419	98	2124
McCabe, William L., Seattle, Wash. Portable conveyor	705,778	July 29	4754	1030	100	1021
McCabe, William L., Seattle, Wash. Endless conveyor	707,613	Aug. 26	3086	695	100	1803
McCabe, William L., Tacoma, Wash. Driving mechanism for portable electric conveyers	707,614	Aug. 26	3087	695	100	1803
McCaffery, John P., et al. (See Strong, Robert H., assignor.)						
McCaffrey, John, Lawrence, Mass. Shipper mechanism	691,960	Jan. 28	3014	677	98	678
McCaffrey, John, Lawrence, Mass. Shipper mechanism	692,468	Feb. 4	432	101	98	887
McCahan, Lewis E., York, Nebr. Harvester	711,335	Oct. 14	1811	393	101	392
McCahon, Alexander, St. Joseph, Mo. Combination air and vapor motor	709,030	Sept. 16	1955	448	100	2410
McCall, John A., Atlanta, Ga. Cotton-planter	705,398	July 29	4843	960	100	958
McCall, Harry M., assignor to Pittsburg Gas Engine Company, Pittsburg, Pa. Air superheater or carburetor	702,374	June 10	1955	444	99	2536
McCall, Harry M., assignor to Pittsburg Gas Engine Company, Pittsburg, Pa. Connecting-rod	711,732	Oct. 21	2571	565	101	567
McCall, Harry M., assignor to Pittsburg Gas Engine Company, Pittsburg, Pa. Needle-valve	717,437	Dec. 30	5508	1196	101	3063
McCall, Harry M., assignor to Pittsburg Gas Engine Company, Pittsburg, Pa. Key-re-mover	717,438	Dec. 30	5508	1196	101	3063
McCall, Harry M., assignor of five-eighths to James Rees Sons' Company, Pittsburg, Pa. Motor vehicle	706,439	Aug. 5	892	193	100	1295
McCall, James O. (See Williams and McCall.)						
McCall, Lyman H. (See Moore, Andrew R., assignor.)						
McCall, Thomas B. (See Brown and McCall.)						
McCallip, William W., Columbus, Ohio. Wire-weaving machine	695,942	Mar. 25	2990	676	98	2984
McCallum, William W., Cincinnati, Ohio. Mechanism for recessing trolley-wires	697,548	Apr. 15	2359	526	99	531
McCallum, William W., Milwaukee, Wis. Edge-trimmer for lawns	715,938	Dec. 16	2272	506	101	2390
McCammon, William M., and C. A. Lee, Formoso, Kans. Grain-elevator	708,576	Sept. 9	1932	233	100	291
McCan, James O., Esplen, Pa. Switch-throwing device	713,905	Nov. 18	2792	620	101	1506

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McCalland, George A. (See Smith, William M., assignor.)						
McCallan, Frank. (See Porter, Charles H., assignor.)						
McCanna, Benjamin T., and T. A. Delaney, assignors to Hills-McCanna Company, Chicago, Ill. Lubricator	694,406	Mar. 4	135	30	98	1741
McCanna, Edward W., Anaconda, Mont. Steam-boiler	705,779	July 29	4756	1030	100	1022
McCanna, John F., assignor to John F. McCanna Company, Chicago, Ill. Lubricating-pump	691,478	Jan. 21	2106	473	98	473
McCarrel, William L., Brazil, Ind. Die for making multiple-orificed clay conduits	696,377	Mar. 25	3962	895	98	2570
McCarter, Charles W., Watertown, N. Y. Coin-holder	715,500	Dec. 9	1615	349	101	2183
McCarthy, Daniel and W. H., North Adams, Mass. Curtain and drapering brush	698,546	Apr. 29	4696	1035	99	1065
McCarthy, James W., deceased, New Bedford, Mass.; S. F. Winsper, administrator. Yarn or thread guide for spinning-machines	694,568	Mar. 4	454	97	98	1809
McCarthy, Laurence A., Brooklyn, N. Y. Multiplex-telegraph circuit	693,530	Feb. 18	2489	546	98	1357
McCarthy, Lawrence A., Brooklyn, N. Y. Multiplex-telegraph circuit	700,800	May 27	3310	760	99	1909
McCarthy, Louis, Boston, Mass. Insulator	706,194	Aug. 5	373	80	100	1198
McCarthy, Patrick J. (See Hird, Charles, assignor.)						
McCarthy, William. (See Haynes, George E., assignor.)						
McCarthy, William B., New Haven, Conn. Car-rack	711,642	Oct. 21	2389	525	101	527
McCarthy, William H. (See McCarthy, Daniel and W. H.)						
McCarty, Charles H., et al. (See Spring, Napoleon C., assignor.)						
McCarty, Eugene J. (See Swinscoe and McCarty.)						
McCarty, Eugene J., Clinton, Mass. Screen	696,250	Mar. 25	3618	599	98	2513
McCarty, Harry C., Williamsport, Pa. Coin-box lid	703,739	July 1	657	148	100	134
McCarty, Harry C., Williamsport, Pa. Dust-guard	711,641	Oct. 21	2387	524	101	526
McCarty, William E. (See Cogan, John R., assignor.)						
McCaskey, Perry A., Lisbon, Ohio. Credit-accounting appliance	717,247	Dec. 31	5177	1122	101	2995
McCasland, James. (See Westbrook and McCasland.)						
McCaslin, William J., Newcastle, Pa. Homying huller and washer	695,330	Mar. 11	1887	420	98	2124
McCaughy, Ralph H., Campbell, Cal. Rotary scraper	712,538	Nov. 4	705	103	101	1043
McCaughy, Robert, Washington, Pa. Device for Artesian wells	706,438	Aug. 5	890	192	100	1295
McCauley, Charles H., Baltimore, Md., assignor to Glen Rock Stamping Company, Glenrock, Pa. Hinge	704,077	July 4	1319	288	100	276
McCaustland, John C., Pittsburg, Pa. Bosh-plate for blast-furnaces	717,248	Dec. 30	5180	1122	101	2995
McCaustland, William, New York, N. Y. Vehicle-tire	698,726	Apr. 29	4428	977	99	1003
McClav, Stevenson & Orr. (See Lynn, Samuel, assignor.)						
McClay, Spencer, Topeka, Kans. Bale-tie	706,195	Aug. 5	371	80	100	1193
McClay, Spencer, Topeka, Kans. Cuff-holder	707,615	Aug. 26	3989	696	100	1803
McClay, Spencer, Topeka, Kans. Sharpener for mower or reaper knives	707,616	Aug. 26	3991	696	100	1804
McClay, Spencer, Topeka, Kans., assignor to F. L. Woodbridge, Newark, Ohio. Wash-board	706,192	Aug. 5	370	79	100	1192
McChesley, Hugh M., Berea, Ohio. Nut-lock	697,520	Apr. 15	2128	473	99	486
McClain, Dow, Kansas City, Kans. Toothpick	710,498	Oct. 7	187	40	101	39
McClain, George M., New York, N. Y. Automatic self-closing fire-door	698,540	Apr. 29	4004	885	99	911
McClain, Sallie G., Philadelphia, Pa. Corset	700,328	Sept. 16	2368	537	100	2438
McClary, Allan W., St. Paul, Minn. Annealing receptacle for castings	708,334	Sept. 2	689	155	100	2121
McClave-Brooks Company. (See McClave, William, assignor.)						
McClave, James M., F. H. Kirby, and E. R. Cumbe, Denver, Colo. Ore-separator	697,351	Apr. 8	1788	401	99	400
McClave, William, assignor to McClave-Brooks Company, Scranton, Pa. Stoking mechanism for furnaces	705,599	July 29	4434	961	100	938
McClave, William, Scranton, Pa., assignor, by mesne assignments, to H. G. Dunham and G. C. Brooks, trustees. Grate and grate-bar	707,790	Aug. 26	3490	1787	100	1884
McClay, David W., Newark, N. J., assignor to Tea Tray Company of Newark, N. J. Catch	708,903	Sept. 9	1085	388	100	2340
McClean, James, and L. E. Phipps, Kansas City, Kans. Hog-belly-rolling machine	709,997	Sept. 30	3890	1877	100	2841
McClean, Robert. (See Roxburgh and McClean.)						
McClean, Samuel N., Cleveland, Ohio. Gun-mount	691,912	Jan. 23	2924	659	98	620
McClean, Samuel N., Cleveland, Ohio. Recoil-check for guns	691,913	Jan. 23	2925	650	98	661
McClean, Samuel N., Cleveland, Ohio. Discharge-actuated breech-loading gun	715,839	Dec. 16	2273	507	101	2339
McCleary, Edgar M., Booneville, Iowa. Damper	698,995	Apr. 29	4945	1095	99	1116
McCleary, William E., Hopedale, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Molding apparatus	697,948	Apr. 15	2901	640	99	646
McClellan, Herman, Cincinnati, Ohio. Bearing for piano-strings	703,708	July 1	613	136	100	121
McClellan, Lewis K., Cedar Rapids, Nebr. Farm-gate	708,244	Sept. 2	457	104	100	2074
McClellan, Stephen, Brooklyn, N. Y. Joist-boring tool	704,657	July 15	2401	519	100	518
McClellan, Stephen, Brooklyn, N. Y. Combined bit-brace and chain and bench-drill	714,939	Dec. 2	599	125	101	1954
McClellan, William F., Seattle, Wash. Apparatus for pulverizing	691,163	Jan. 14	1480	395	98	323
McClelland, Jesse C., Renfrew, Pa. Stop and automatic check valve	713,321	Nov. 11	1691	381	101	1360
McClelland, John A., Chicago, Ill. Dental oven	714,938	Dec. 2	597	125	101	1954
McClelland, John J., London, England. Sand-molding machine	704,075	July 8	1320	288	100	277
McClelland, Robert H., et al. (See Anderson, Albert, assignor.)						
McClellon, James M., Everett, Mass. Boiler	699,338	May 6	393	91	99	1254
McClenanah, Jacob C., Coldwater, Mich. Artificial building-stone	698,727	Apr. 29	4429	977	99	1003
McClenanah, Jacob C., Coldwater, Mich. Manufacturing stone	711,436	Oct. 14	1987	431	101	428
McClintock, Charles E., Albuquerque, N. Mex. Ter. Case for plats, maps, &c	691,288	Jan. 14	1722	392	98	374
McClintock, Frank, Mount Vernon, N. Y., assignor to Empire Machine Corporation. Machine for justifying type	693,145	Feb. 11	1726	379	98	1179
McClintock, Frank, Mount Vernon, assignor, by mesne assignments, to E. C. Hoyt and F. Rosen, New York, N. Y. Type-justifying machine	700,699	May 20	3085	701	99	1847
McClintock, Frank, Mount Vernon, assignor, by mesne assignments, to E. C. Hoyt and F. Rosen, New York, N. Y. Type-justifying machine	700,700	May 20	3087	702	99	1847
McClintock, Frank, Mount Vernon, assignor, by mesne assignments, to E. C. Hoyt and F. Rosen, New York, N. Y. Type-justifying machine	700,701	May 20	3093	702	99	1848
McClintock, Frank, Mount Vernon, assignor, by mesne assignments, to E. C. Hoyt and F. Rosen, New York, N. Y. Key mechanism for type-setting machines	702,457	June 17	2130	484	99	2583
McClintock, Frank, Mount Vernon, assignor, by mesne assignments, to E. C. Hoyt and F. Rosen, New York, N. Y. Machine for setting type	702,458	June 17	2131	484	99	2584
McClintock, Frank, Mount Vernon, assignor, by mesne assignments, to E. C. Hoyt and F. Rosen, New York, N. Y. Type-justifying machine	702,459	June 17	2135	485	99	2585
McClintock, Robert. (See Boyce, Markland H., assignor.)						
McClintock, William, New York, N. Y. Clamp for marble wash bowls or basins	707,153	Aug. 19	2206	494	100	1601
McCloskey, Edward P., Altoona, Pa. Skirt-drier	717,439	Dec. 30	5509	1196	101	3063



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McCloud, Edward H., Columbus, Ohio. Folding door.	702,146	June 10	1553	352	99	2446
McCloy, Washington R., Elwood City, Ind. Finishing-machine for glassware.	697,521	Apr. 15	2129	473	99	486
McCluer, Charles K., assignor of one-half to C. F. Quincy, Chicago, Ill. Combined detector and screen.	706,440	Aug. 5	893	193	100	1396
McClung, James A., Mount Lookout, W. Va. Cultivator.	698,996	Apr. 30	4946	1005	99	1116
McClung, James S., Pueblo, Colo. Pen or pencil holder.	710,293	Sept. 30	4446	1002	100	2959
McClung, Verno B. (See Hill, Terelius A., assignor.)						
McClure, John R., Pittsburg, Pa. Steel tie and rail fastener.	713,906	Nov. 18	2793	621	101	1506
McClure, John W., Richmond, Ind. Bush-chisel.	703,950	July 1	1056	229	100	210
McClure, Marion, Felicity, Ohio. Valve-gear link.	693,051	Feb. 11	1537	334	98	1142
McClure, Napoleon. (See Turcotte, Alexander G., assignor.)						
McClurg, James A. (See Jackson, James B., assignor.)						
McClusky, Mattie M. (See Symms, George Jr., assignor.)						
McColl, Francis P., assignor to American Key Can Company, Chicago, Ill. Metal can.	703,445	July 1	138	31	100	30
McColloch, Catherine E., et al. (See McColloch, Simon L., assignor.)						
McColloch, Millard F., administrator. (See McColloch, Simon L.)						
McColloch, Simon L., deceased; M. F. McColloch, administrator, assignor of two-thirds to C. E. McColloch, Wheeling, W. Va., and J. G. Brant, Allegheny, Pa. Power-transmitting mechanism.						
McCollum, Alfred F., Espy, assignor of three-fifths to J. Magee, 2d, Bloomsburg, Pa. Woven pile fabric.	714,732	Dec. 2	154	31	101	1869
McCollum, Alfred F., Espy, assignor of three-fifths to J. Magee, 2d, Bloomsburg, Pa. Loom for weaving pile fabrics.	690,912	Jan. 7	1029	231	98	215
McCollum, James A., Seligman, Mo. Mane-clipper.	709,447	Sept. 16	2782	626	100	2586
McCollum, James H. K., assignor of one-half to J. W. L. Foster, Toronto, Canada. Turbine-engine.	701,371	June 3	157	34	99	2140
McCollum, Thomas E., Toronto, Canada. Momentum car-brake.	715,410	Dec. 9	1496	310	101	2149
McCombie, Joseph C., assignor of two-thirds to W. S. Jacobs and W. E. Robinson, Malden, Mass. Ladder.	709,323	Sept. 30	3744	843	100	2810
McCombie, Joseph C., assignor of two-thirds to W. S. Jacobs and W. E. Robinson, Malden, Mass. Fire-escape.	700,542	May 20	2800	639	99	1783
McConaghy, James F., and G. G. Duddles, Wellington, New Zealand. Bottle for preventing refilling.	700,543	May 20	2801	640	99	1784
McConnell, Edward, Richmond, Va. Safety-pin.	700,070	May 13	1812	490	99	1561
McConnell, Ellicott, Brooklyn, N. Y. Mechanical stoker.	703,965	July 1	1090	237	100	218
McConnell, Ellicott, Brooklyn, N. Y. Mechanical stoker.	711,668	Oct. 21	2449	538	101	539
McConnell, Ellicott, Brooklyn, N. Y. Mechanical stoker.	711,669	Oct. 21	2452	538	101	540
McConnell, James H., Evanston, Ill. Apparatus for increasing combustion in furnaces.	707,249	Aug. 19	2383	534	100	1646
McConnell, Jesse W., Cornelia, Ga. Dental instrument.	698,997	Apr. 29	4947	1005	99	1110
McConnell, Leslie, Mount, Ala. Nut-lock.	708,385	Sept. 2	692	156	100	2121
McConnell, Louis V., and C. L. Raymond, Rochester, N. Y. Calculating-machine.	699,807	May 13	1307	303	99	1457
McConnell, William, Brooklyn, N. Y. Electric lamp.	695,756	Mar. 18	2641	600	98	2299
McConney, Robert B. (See Ray and McConney.)						
McConney, Robert B., assignor to Mine & Smelter Supply Company, Denver, Colo. Buffer device for rock-drills.						
McConney, Robert B., assignor to Mine & Smelter Supply Company, Denver, Colo. Quick-return spring for rock-drills.	711,998	Oct. 28	3112	681	101	695
McConway & Torley Company. (See Kelson, William, assignor.)						
McConway & Torley Company. (See Mason, Stephen C., assignor.)						
McConway & Torley Company. (See Wright, William, assignor.)						
McCord, Alvin C., assignor to McCord & Company, Chicago, Ill. Spring-cushion.	709,998	Sept. 30	3892	878	100	2841
McCord, Alvin C., assignor to McCord & Company, Chicago, Ill. Spring-cushion.	709,999	Sept. 30	3895	878	100	2842
McCord, Christopher C. P., Centralia, Ill. Binder for trunks or packages.	702,322	June 10	1859	423	99	2506
McCord & Company. (See Denegre, Edward, assignor.)						
McCord & Company. (See McCord, Alvin C., assignor.)						
McCord, James R., Jr., St. Louis, Mo. Balance-book.	704,706	July 15	2482	536	100	585
McCord, Ralph, St. Louis, Mo. Non-refillable bottle.	709,031	Sept. 16	1957	448	100	2411
McCord, William B., Battlet Creek, Mich. Tubular boiler.	690,752	Jan. 7	752	167	98	158
McCormack, George E., assignor to Precision Eyelet Company, East Bridgewater, Mass. Eyelet.	708,577	Sept. 9	1094	234	100	2302
McCormack, John G., Cleveland, Ohio. Valve for engines.	696,691	Apr. 1	555	127	99	121
McCormick, Arthur L., Port Huron, Mich. Miniature theater.	696,835	Apr. 1	830	191	99	175
McCormick, Charles M., U. S. Navy. Navigating-protractor.	692,060	Jan. 28	3203	723	98	715
McCormick, Edwin J., Syracuse, assignor to McCormick Manufacturing Company, New York, N. Y. Expansion-fastener.	702,067	June 10	1434	322	99	2421
McCormick Harvesting Machine Co. (See Pridmore and Webber, assignors.)						
McCormick Harvesting Machine Company. (See Haskins, James H., assignor.)						
McCormick Harvesting Machine Company. (See Johnston, Edward A., assignor.)						
McCormick Harvesting Machine Company. (See Macphail, James, assignor.)						
McCormick Harvesting Machine Company. (See Pridmore and Benjamin, assignors.)						
McCormick Harvesting Machine Company. (See Spaulding, George H., assignor.)						
McCormick, Henry C., et al. (See Stickel, Jacob, assignor.)						
McCormick, James F., Wagon, Kans. Harness attachment.	696,071	Mar. 25	3240	733	98	2435
McCormick, John, Wilmerding, assignor to H. M. Lytle, Wilkesburg, and J. A. Fullmer, Pittsburg, Pa. Water-gate.	716,742	Dec. 23	4070	891	101	2733
McCormick, John J., Bellevue, Pa. Folding box.	690,454	Jan. 7	131	28	98	30
McCormick Manufacturing Company. (See McCormick, Edwin J., assignor.)						
McCormick, Marion F., assignor of one-half to F. E. Dumas, Knox, Ind. Railway-velocity.	695,826	Mar. 18	2775	633	98	2326
McCormick, Thomas, and A. D. Miller, assignors of one-fourth to S. J. Miller, Mount Pleasant, Pa. Carbureting device for explosive-engines.	696,909	Apr. 1	994	222	99	210
McCormick, William E., assignor to International Telephone Manufacturing Company, Chicago, Ill. Electrical call-bell.	715,683	Dec. 9	1949	436	101	2253
McCormick, William E., assignor to International Telephone Manufacturing Company, Chicago, Ill. Multiple switchboard.	716,460	Dec. 23	3527	771	101	2618
McCormick, William W., Santa Rosa, Cal. Bag or satchel lighting device.	690,753	Jan. 7	753	167	98	159
McCormack, Herbert, Westchester, Pa. Mechanical movement.	692,696	Feb. 4	851	195	98	973
McCormack, Herbert, Westchester, Pa. Centrifugal machine.	690,217	May 6	152	38	99	1296
McCormack, Herbert, Westchester, Pa. Centrifugal separator.	706,087	Aug. 5	163	33, 34	100	1150
McCormack, Herbert, Westchester, Pa. Shaft-mounting.	706,088	Aug. 5	164	34	100	1150
McCormack, Herbert, Littlefalls, N. Y. Elastic-fluid turbine.	694,980	Mar. 11	1245	272	98	1993
McCown, Sylvester, Athalia, assignor to Weil, Brodman & Company, Cincinnati, Ohio. Press for packing barrels or other packages.	706,681	Aug. 12	1319	292	100	1401
McCoy, Henry L., Manito, assignor of one-half to C. M. Smith, Peoria, Ill. Automatic feeder or elevator.	690,891	Jan. 7	986	224	98	207

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McCoy, James C. (See Blair, David W., assignor.)						
McCoy, John, assignor of one-half to R. E. Poindexter, Indianapolis, Ind. Gas-engine	713,332	Nov. 11 1692	382		101	1260
McCoy, John F., and T. N. Gilmore, New Orleans, La. Sanitary receptacle and cesspool.	702,811	June 17 2801	644		99	2723
McCoy, John P., and W. V. Lukens, Philadelphia, Pa. Chaperet	713,571	Nov. 11 2158	482		101	1355
McCoy, Josiah R., Marshalltown, Iowa. Heat radiating and tempering screen-drum for stores.	693,423	Feb. 18 2284	501		98	1315
McCracken, George H., Cumberland, Md. Unloading mechanism for coke-ovens.	717,440	Dec. 30 5511	1196		101	3063
McCracken, John W., Logtown, Miss. Non-refillable bottle.	697,352	Apr. 8 1790	401		99	401
McCray, H. L. (See Hixson, Frank, assignor.)						
McCrea, William S., assignor of one-half to H. P. Milbern, Pattenburg, N. J. Non-refillable bottle.	713,186	Nov. 11 1269	288		101	1175
McCreery, Joseph, Toledo, Ohio. Air cleaning and cooling device.	701,074	May 27 3869	873		99	2011
McCrimmon, John D., St. Louis, Mich. Hand-hoe.	701,600	June 3 579	137		99	2229
McCrone, Robert A., Denver, Colo. Insect-destroyer.	694,882	Mar. 4 1052	233		98	1934
McCrosky, William B., Eureka Springs, Ark. Jar-closure.	706,771	Aug. 12 1501	333		100	1439
McCuddy, Frank, et al. (See Dawson, Clarence L., assignor.)						
McCue, Charles T., Hartford, Conn. Axle-center.	710,921	Oct. 7 985	217		101	300
McCue, Charles T., assignor to Premier Manufacturing Company, Hartford, Conn. Vehicle-wheel.	703,075	June 24 3316	762		99	2843
McCuen, James W. (See Heinritz and McCuen.)						
McCulloch, James, Portreath, assignor of one-half to G. J. Smith, Trelliske, Kenwyn, Cornwall, England. Fluid-pressure pump.	701,813	June 3 943	209		99	2306
McCulloch, John H., Newville, Pa. Inhaler.	707,445	Aug. 19 2749	622		100	1716
McCulloch, Maggie G. (See Lowe, Marvel A., assignor.)						
McCullough, Alexander J., Meadville, Pa. Electric switch-operating device.	699,218	May 6 153	38		99	1207
McCullough, Charles H., Jr., and L. C. B. Holmboe, Chicago, Ill. Bessemer-steel plant.	697,740	Apr. 15 2526	563		99	566
McCullough, Charles R., Loop, Pa. Folding crate.	702,237	June 10 1717	358		99	2478
McCullough, James, Rosebank, N. Y., assignor to Schmidt-Perrin Manufacturing Company, Jersey City, N. J. Bilge-black.	704,358	July 8 1865	404		100	394
McCullough, John L., Brooklyn, N. Y. Target.	707,617	Aug. 26 3093	697		100	1894
McCullough, John L., Brooklyn, N. Y., assignor to Automatic Target Machine Company, Target apparatus.	708,245	Sept. 2 459	105		100	2075
McCullough, Paul J., St. Louis, Mo. Brake mechanism.	702,812	June 17 2803	644		99	2723
McCullough, Phelam, Tuebrook, Liverpool, England. Trolley.	699,927	May 13 1558	359		99	1510
McCullough, Phelam, Tuebrook, Liverpool, England; said Blaney and Barron assignors to said McCullough. Pivot connection of current-collecting or trolley poles.	700,544	May 20 2803	640		99	1784
McCullough, Thomas F., Memphis, Tenn. Douche-bench.	692,061	Jan. 28 3295	923		98	715
McCullough, Thomas F., Memphis, Tenn. Indicator.	710,294	Sept. 30 4447	1002		100	2960
McCully, Richard P., Brooklyn, N. Y. Catheter or like instrument.	701,075	May 27 3811	874		99	2011
McCurdy, Arthur W., Washington, D. C., assignor to Eastman Kodak Company, Rochester, N. Y. Apparatus for developing photographic films.	707,791	Aug. 26 3498	787		100	1884
McCurdy, Benjamin F., assignor to E. M. McCurdy, Chicago, Ill. Fish-bait.	713,907	Nov. 18 3794	621		101	1506
McCurdy, Delo. (See Dunn and McCurdy.)						
McCurdy, Edwin M. (See McCurdy, Benjamin F., assignor.)						
McCurley, Charles C., assignor of two-fifths to G. O. Hilton, Detroit, Mich. Damper for stovepipes or drums.	711,066	Oct. 14 1290	279		101	280
McCutchen, Charles W., et al. (See Anderson, Homer, assignor.)						
McCutchen, Charles W., Peekskill, N. Y. Hot-water-appliance heating apparatus.	692,469	Feb. 4 434	102		98	887
McCutcheon, Alexander, Emporia, Kans. Fire-escape.	708,777	Sept. 9 1410	324		100	2281
McDade, Gertrude C., et al. (See Dela Mar, Joseph, assignor.)						
McDaniel, Lewis, Tabor, Iowa. Explosive.	717,441	Dec. 30 5515	101		100	3064
McDaniel, Robert W., Baltimore, Md. Woodworking-machine.	713,908	Nov. 18 2798	621		101	1506
McDaniel, Sanford A., et al. (See Tuttle, William C., assignor.)						
McDaniels, Frank, Minneapolis, Minn. Shade-cloth trimmer.	713,333	Nov. 11 1695	382		101	1260
McDermid, Hugh, Chicago, Ill. Lifting-jack.	692,536	Feb. 4 569	134		98	914
McDermid Manufacturing Company. (See Burlingham, Charles L., assignor.)						
McDermitt, Percy F. (See Knutson, Alfred W., assignor.)						
McDermott, David L., assignor of one-half to J. A. Graham, Carlisle, Pa. Combined plumb-bob, level, &c.	707,518	Aug. 19 2880	653		100	1744
McDermott, John C., Allegheny, Pa. Hat-pin.	715,130	Dec. 2 904	193		101	2022
McDermott, Joseph J., New Brighton, Pa. Rail-joint.	710,000	Sept. 30 3896	578		100	2842
McDermott, Philip H., New York, N. Y. Controller for gas-burners.	695,111	Mar. 11 1478	329		98	2041
McDermott, Walter. (See Brown and McDermott.)						
McDermott, Walter, London, England. Apparatus for screening crushed ores or other materials.	697,353	Apr. 8 1792	402		99	401
McDermott, Walter, et al. (See F. E. Elmore, London, England, assignors to Frue Vanning & Machine Company, Detroit, Mich. Ore-concentrating machine.	695,695	Mar. 18 2544	575		98	2278
McDermott, William, assignor to A. L. Wood, Boston, Mass. Ventilator.	702,581	June 17 2366	540		99	2632
McDevitt, William J., Philadelphia, Pa. Desk.	697,266	Apr. 8 1646	369		99	370
McDevitt, William J., Philadelphia, Pa. Cabinet for graphophones, graphophone-records, or the like.	705,009	July 15 3135	677		100	668
McDivitt, Edward L., Belvidere, Ill. Pencil-sharpener.	700,071	May 13 1813	678		99	1561
McDonald, Alexander, Ashley, Ohio. Folding case or crate.	698,981	Feb. 25 3380	748		98	1556
McDonald, Alonzo. (See McDonald and Tregoung.)						
McDonald & Co., R. L., et al. (See Coon, Charles A., assignor.)						
McDonald, David P., et al. (See Anderson, Tury E., assignor.)						
McDonald, Donald S., Mabou, Canada. Furnace.	709,107	Sept. 16 2108	483		100	2445
McDonald, Frank, Rumford Falls, Me. Electrolytic apparatus.	697,157	Apr. 8 1455	327		99	329
McDonald, Frank, Johnsonburg, Pa. Anode.	715,684	Dec. 9 1950	436		101	2253
McDonald, George, et al. (See Trueblood, Samuel L., assignor.)						
McDonald, George W., assignor of one-half to H. McDonald, Jersey City, N. J. Clothes-line holder.	710,205	Sept. 30 4301	967		100	2929
McDonald, Henry. (See McDonald, George W., assignor.)						
McDonald, Hugh J. (See Jenkins and McDonald.)						
McDonald, James C., Davenport, Iowa. Skirt and waist supporter.	699,339	May 6 395	92		99	1254
McDonald, James C. and M. Brennan, Sidney, N. Y. Raking device for furnace-grates.	695,757	Mar. 18 2642	600		98	2249
McDonald, John F., Carthage, N. C. Apple-crusher for cider-mills.	699,219	May 6 154	38, 89		99	1307
McDonald, John L., St. Joseph, Mo. Belt for overalls or similar garments.	712,571	Nov. 4 214	52		101	942
McDonald, Joseph H., New York, and G. G. Worthington, Brooklyn, N. Y. Steam-boiler.	692,062	Jan. 28 3206	723		98	715



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McDonald, Joseph W., Larimore, N. D. Mechanical telegraph-transmitter.	706,251	Aug. 5	475	101	100	1212
McDonald, Kenneth. (See Galway, John J., assignor.)						
McDonald, Michael B. (See Ware, Erastus A., assignor.)						
McDonald, Morrison, assignor of one-half to A. J. Craig, Pictou, Canada. Nut-lock.	697,870	Apr. 15	2769	614	99	621
McDonald, Mott W., Galion, Ohio. Picture-mount and portfolio therefor	693,052	Feb. 11	1538	335	98	1142
McDonald, Patrick, Camden, assignor to J. M. Carroll, Haddon Heights, N. J. Machine for cutting chenille-cloth	714,646	Nov. 25	4220	933	101	1815
McDonald, Percy Z., Chicago, Ill. Eyeglasses	699,968	May 13	1636	376	99	1526
McDonald, Samuel, Youngstown, Ohio. Manufacturing basic Bessemer steel.	706,089	Aug. 5	167		100	1151
McDonald, Samuel J., Gallatin, Mo. Neck-yoke	714,013	Nov. 18	2998	667	101	1549
McDonald, Silas P., et al. (See Shannon, Lemuel A., assignor.)						
McDonald, Thomas F., Cincinnati, Ohio. Grass or grain cutter	714,232	Nov. 25	3442	757	101	1650
McDonald, Thomas H., Elk Grove, Cal. Fumigator	712,321	Oct. 28	3687	805	101	809
McDonald, Wallace and A., Chicago Park, and C. D. Tregoning, Grass Valley, Cal. Tappet	698,847	Apr. 29	4897	1085	99	1065
McDonald, William N., Havana, Cuba. Corner-strip	710,880	Oct. 7	913	198	101	186
McDonnell, Francis J., New Bedford, Mass. Swinging-machine	701,372	June 3	159	34	99	2141
McDonnell, George P., assignor of forty-nine one-hundredths to O. E. Plochman and R. F. Spencer, St. Louis, Mo. Electric-circuit-regulating device	697,158	Apr. 8	1457	327	99	329
McDonnell, John, et al. (See Bourke, Edward J., assignor.)				328		
McDonnell, Milton E. (See Pease and McDonnell.)						
McDonner, Charly, Wausaukee, Wis., assignor to J. Hrbacek, Bessemer, Mich. Saw jointer and gage	703,348	June 24	3813	876	99	2945
McDonough, Denison, Eau Claire, Wis. Stilt	704,658	July 15	2104	520	100	518
McDonough, James J., Abington, Mass. Bedstead	713,666	Nov. 18	2333	520	101	1407
McDougall, Alexander, Duluth, Minn. Artificial-stone board	709,791	Sept. 23	3463	780	100	2739
McDougall, Barnett, San Francisco, Cal. Roof, ceiling, and floor construction	707,250	Aug. 19	2384	534	100	1640
McDowell, Brice W., New York, N. Y. Railway-signal	693,883	Feb. 25	3168	700	98	1514
McDowell, Harry F., et al. (See Bartley, Milton, assignor.) (Reissue.)						
McDowell, John G. (See Grant and McDowell.)						
McDowell, John G., Pittsburg, Pa. Brick-carrier	705,277	July 23	3721	807	100	801
McDuffie, William. (See Trammell and McDuffie.)						
McEachen, John. (See Dooling, Peter, assignor.)						
McElhany, Eugene C., Kalamazoo, Mich. Bow for violins	710,499	Oct. 7	189	41	101	40
McElheny, William C., et al. (See Cohen, George W., assignor.)						
McElheny, William C., Pittsburg, Pa. Boat	695,758	Mar. 18	2644	001	98	2299
McElheny, William C., Pittsburg, Pa. Brick-machine	716,461	Dec. 23	3528	771	101	2619
McElheny, William C., Pittsburg, Pa. Apparatus for drying and heating sand	716,462	Dec. 23	3538	772	101	2620
McElroy, George, Plain City, Utah. Checkrein	714,014	Nov. 18	3000	773	101	1549
McElroy, George E., New York, N. Y. Speed-changing gear	694,407	Mar. 4	136	667	98	1741
McElroy, George E., assignor to Champion Mfg. Co., Brooklyn, N. Y. Variable-speed gearing	710,500	Oct. 7	190	30	101	40
McElroy-Grunow Electric Railway System. (See Bourne, Frank, assignor.)						
McElroy, James F., assignor to Consolidated Car-Heating Company, Albany, N. Y. Friction-driven truck	702,025	June 10	1334	401	99	2399
McElroy, James F., assignor to Consolidated Car-Heating Company, Albany, N. Y. Valve regulator and governor	702,026	June 10	1335	305		2400
McElroy, James F., assignor to Consolidated Car-Heating Company, Albany, N. Y. Electric radiator	717,442	Dec. 30	5515	1197	101	3064
McElroy, James F., assignor to Consolidated Car-Heating Company, Albany, N. Y. Combined magnetic and mechanical brake	717,443	Dec. 30	5516	1198	101	3064
McEvilly, Thomas F., assignor of one-half to J. F. Malloy, Wilmington, Del. Water-cooler	691,655	Jan. 21	2428	1199	98	540
McEvilly, Thomas F., assignor of one-half to J. F. Malloy, Wilmington, Del. Belt-holder and skirt-support	691,656	Jan. 21	2429	546	98	541
McEvoy, Charles H., Lowell, Mass. Electrical connecting-cord	692,890	Feb. 11	1222	270	98	1076
McEvoy, Frank E., Wheelwright, Mass. Couch-roll attachment for paper-machines	704,079	July 8	1322	288	100	277
McEwan, Nicholas J. (See Curry, Andrew J., assignor.)						
McEwan, William. (See Ryan and McEwan.)						
McFadden, Benjamin B., Binghamton, N. Y. Folding box	696,468	Apr. 1	137	34	99	35
McFadden, Benjamin B., Binghamton, N. Y. Folding box	704,080	July 8	1324	288	100	277
McFadden, Bernard A., New York, N. Y. Exercising device	712,000	Oct. 28	3116	682	101	696
McFadden, Hugh, assignor of one-half to M. McLeod, Rumford Falls, Me. Means for chaining logs	704,903	July 15	2856	619	100	612
McFall, Fountain T., Pana, Ill. Plasterer's trowel	714,223	Nov. 25	3443	757	101	1314
McFarland, Archibald C., Denver, Colo. Monkey-wrench	713,180	Nov. 11	1949	441	101	1314
McFarland, James D., Jr., assignor of one-half to J. Bruckman, San Francisco, Cal. Revolving-cylinder explosive-engine	696,251	Mar. 25	3620	809	98	2513
McFarland, James D., Jr., assignor of one-half to J. Bruckman, San Francisco, Cal. Wrench	700,359	May 20	2448	557	99	1710
McFarland, James D., Jr., assignor of one-half to J. Bruckman, San Francisco, Cal. Adjustable speed-gear	700,970	May 27	3617	558	99	1969
McFarlane, John, assignor of one-half to D. C. Reinhold, Washington, D. C. Hulling cotton-seed	695,476	Mar. 18	2127	479	98	2194
McFarlane, John, and D. C. Reinhold, Washington, D. C. Extracting oil from cotton-seed	695,474	Mar. 18	2124	479	98	2193
McFarlane, John, and D. C. Reinhold, Washington, D. C. Hulling cotton-seed	695,475	Mar. 18	2126	479	98	2194
McFarlane, John, and D. C. Reinhold, Washington, D. C. Means for separating cotton-seed kernels from their hulls and lint	695,477	Mar. 18	2128	479	98	2194
McFarren, Bert, Navarre, Ohio. Electric-wire pole	709,554	Sept. 23	3033	676	100	2651
McFatrach, George W., Chicago, Ill. Educational optical instrument	709,792	Sept. 23	3465	780	100	2740
McGall, William J., West Orange, N. J. Hat-curling machine	692,537	Feb. 4	571	184	98	914
McGarity, James J., and G. R. Hopt, Pittsburg, Pa. Car-fender	694,883	Mar. 4	1054	233	98	1935
McGarry, John A., Chicago, Ill. Wagon-truck	698,213	Apr. 22	3438	755	99	778
McGarvey, Edward, assignor to J. J. Walsh, H. S. Taylor, S. Krumrine, G. C. Linn, E. and pressure recording apparatus	701,757	June 3	854	188	99	2287
McGarry, Alexander, and F. Mulline, Lagrange, Ill. Automatic electric controller	697,267	Apr. 8	1648	180	99	371
McGary, Edward, et al. (See McWhorter, Milton, assignor.)				369		
McGee, James. (See McKenna, David, assignor.)				370		
McGee, John H. (See Whalen, John W., assignor.)						
McGeorge, John. (See Hyatt and McGeorge.)						
McGeorge, John. (See Wellman and McGeorge.)						
McGeorge, Percy A., New York, N. Y. Conduit	695,478	Mar. 18	2130	480	98	2195

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McGeorge, Percy A., New York, N. Y. Conduit and conductor	696,072	Mar. 25	3241	733	98	2435
McHaffert, John R., Duluth, Minn. Log-loader	715,840	Dec. 16	2279	507	101	2340
McGill, George W., Riverdale-on-the-Hudson, N. Y. Fastening device	691,164	Jan. 14	1182	335	98	324
McGill, George W., Riverdale-on-the-Hudson, N. Y. Fastening device	691,165	Jan. 14	1487	336	98	325
McGill, George W., Riverdale, N. Y. Spring-button	711,670	Oct. 21	2355	589	101	541
McGill, George W., Riverdale, N. Y. Button-fastening for garments	716,267	Dec. 16	3137	687	101	2523
McGill, George W., New York, N. Y. Pin	712,952	Nov. 4	929	215	101	1087
McGill, John J., assignor of two-thirds to E. W. Richey and S. A. Johnson, Chicago, Ill. Automatic electromechanical semaphore-signal	706,586	Aug. 12	1137	251	100	1361
McGillvary, Thomas T., assignor of three-fourths to J. R. Williams, Fayetteville, N. C. Picture-exhibitor	700,702	May 20	3094	703	99	1848
McGinnis, John S., Winnipeg, assignor to C. C. Holland, trustee, Montreal, Canada. Acetylene-gas apparatus	692,891	Feb. 11	1224	270	98	1076
McGinnis, Ella. (See Noble, William, assignor.)				271		
McGinnis, Philip, London, Canada. Starting-gate	717,249	Dec. 30	5188	1123	101	2996
McGinnity, John, South Omaha, Nebr. Measuring and discharging apparatus for filling cans	709,793	Sept. 23	3466	781	100	2740
McGinty, Patrick E., assignor to W. H. Coleman, Newark, N. J. Nail-holder for hammers	701,076	May 27	3812	874	99	2012
McGinty, Thomas, Matthews, Ind. Guard-rail	697,532	Apr. 15	2130	474	99	486
McGlinchey, Charles E. (See Stokes and McGlinchey.)						
McGlinchey, John J. (See Auld, Hugh R., assignor.)						
McGorman, James O., assignor to G. Carson, Philadelphia, Pa. Ingrain carpet fabric	702,323	June 10	1860	423	99	2506
McGough, Samuel P., Newark, N. J., assignor to Continuous Rail Joint Company of America. Insulated joint for track-circuits	711,256	Oct. 14	1657	357	101	359
McGowan, Charles R. (See Meats and McGowan.)						
McGowan, Henry L., St. John, Canada. Signaling-machine	708,904	Sept. 9	1686	388	100	2340
McGowan, James F., Camden, Pa. Folding box	695,073	Mar. 11	1417	311	98	2029
McGowan, William L., Philadelphia, Pa. Conduit	703,446	July 1	139	32	100	30
McGowan, William L., Philadelphia, Pa. Conduit	703,447	July 1	142	32	100	31
McGowan, William L., Philadelphia, Pa. Conduit	709,504	Sept. 23	2944	657	100	2633
McGowan, William L., Philadelphia, Pa. Sectional conduit	712,839	Nov. 4	706	164	101	1043
McGrath, John T., Stratford, Canada. Pneumatic drill	694,981	Mar. 11	1247	272	98	1993
McGrath, John T., Fort Grant, Mich. Pneumatic hammer	714,321	Nov. 25	3632	800	101	1098
McGrath, Marian M., Germantown, Pa. Veil-holder	697,323	Apr. 15	2131	474	99	486
McGrath, M., Germantown, Pa. Garment-fastening	714,390	Nov. 25	3749	827	101	1721
McGreal, Anna S., administratrix. (See McGreal, Dominick S., assignor of one-half to J. P. Rapp, Chicago, Ill. Printer's chase	699,404	May 6	528	121	99	1283
McGregor, Charles, assignor of two-thirds to J. C. McGregor, Nashua, and H. W. Blair, Manchester, N. H. Wind-motor	717,110	Dec. 30	4881	1057	101	2930
McGregor, Charles, assignor of two-thirds to J. C. McGregor, Nashua, and H. W. Blair, Manchester, N. H. Wind-engine	717,111	Dec. 30	4884	1057	101	2931
McGregor, James C., et al. (See Austin, David E., assignor.)						
McGregor, John C., et al. (See McGregor, Charles, assignor.)						
McGregor, Robert, New York, N. Y. Rotary engine	712,709	Nov. 4	448	106	101	991
McGrew, Horace M., Pickrell, Nebr. Securing-rod for end-gates	711,336	Oct. 14	1817	394	101	394
McGriff, John C. F., San Jose, Cal. Combination liquid measure and sterilizer	695,167	Mar. 11	1594	354	98	2066
McGuigan, James A., Jr., Philadelphia, Pa. Awning-raising device	715,841	Dec. 16	2284	508	101	2542
McGuiness, Benjamin F. (See Cowan and McGuiness.)						
McGuire, Frank A., Jackson, Mo. Printer's chase	715,685	Dec. 9	1951	436	101	2253
McGuire, Frederick. (See Cherpaw and McGuire.)						
McGuire, George H., Dahlonega, Ga. Wing attachment for plows	709,505	Sept. 23	2946	657	100	2633
McGuire Manufacturing Company. (See Krueger, Max C., assignor.)						
McGuire, Peter J., Blairsville, Pa., assignor to Champion Sanitary Enamel-Ware Co. Water-closet bowl	706,990	Aug. 12	1890	423	100	1519
McGuire, Squire D., assignor of one-half to J. C. Hooker, Guilford, Mo. Ditch-roller	690,893	Jan. 7	903	225	98	206
McGurran, Frank E., Salt Lake City, Utah. Domestic garbage-burner	704,359	July 8	1867	404	100	394
McHale, Martin, Phoenix, and J. Trainor, Eholt, Canada. Rock-drill chuck	704,081	July 8	1826	289	100	278
McHenry, Edwin H., St. Paul, Minn. Weighing-machine	700,072	May 13	1814	420	99	1561
McHenry, Francis J. (See Phillips and McHenry.)				421		
McHenry, John L., and S. Wilson, Rockford, Iowa. Stock-salter	716,743	Dec. 23	4071	891	101	2733
McHenry, William E. (See Dowell and McHenry.)						
McHugh, James M., Boston, Pa. Mining-machine	702,147	June 10	1554	352	99	2446
McHugh, Michael J., Providence, R. I. Printer's galley	691,657	Jan. 21	2430	546	98	541
McIlvrid, William, Jersey City, N. J. Air-lock for caissons	702,324	June 10	1862	423	99	2506
Mellyar, Corwin C., Cambridge, Ohio. Mail-bag catcher	704,904	July 15	2857	620	100	612
McIndoe, George F., assignor of two-thirds to J. W. McIndoe, Boston, and A. E. Whitney, Winchester, Mass. Machine for facilitating the production of intaglio printing-forms	699,220	May 6	156	39	99	1307
McIndoe, George F., assignor of two-thirds to J. W. McIndoe, Boston, and A. E. Whitney, Winchester, Mass. Cylindrical brush	712,322	Oct. 28	3689	806	101	810
McIndoe, James W., et al. (See McIndoe, George F., assignor.)						
McInnemy, Michael, Iowa City, Iowa. Smoke-consuming heating-stove	716,922	Dec. 30	4526	982	101	2855
McInnis, William N., assignor of two-thirds to J. H. Wilson, H. S. C. E., and R. R. Harris, Belvidere, N. J. Brake for railway cars	698,310	Apr. 22	3597	793	99	810
McIntire, Clarence E., assignor to Duplex Roller Bushing Company, Camden, Me. Roller-bushing for sheaves	697,524	Apr. 15	2132	474	99	486
McIntire, John C., Jr. (See Long, Lee, assignor.)						
McIntire, William C., Washington, D. C. Draft-rigging for railway-cars	715,121	Dec. 2	905	193	101	2022
McIntosh, Alexander, et al. (See Heydreich, Alfred, assignor.)				194		
McIntosh, Anderson, Wallace, Canada. Cheese-cutter	693,424	Feb. 18	2286	501	98	1316
McIntosh, Frederick J., and W. Thornburgh, assignors to Seamless Steel Tubes Company, Detroit, Mich. Machinery for producing seamless metallic tubes	693,053	Feb. 11	1559	335	98	1143
McIntosh, John A. and W., assignors to P. Ryan, J. Ruse, and D. J. Johnston, Toronto, Canada. Compensating organ-pipe	709,349	Sept. 16	2377	581	100	2543
McIntosh, John E., and J. A. Seymour, Auburn, N. Y. Adjuster for centrifugal governors	707,792	Aug. 26	3499	789	100	1886
McIntosh, Peter E., New York, N. Y. Electric third rail	702,986	June 24	2147	724	99	2811
McIntosh, William. (See McIntosh, John A. and W.)						
McIntosh, William, Clinton, Mass. Dumping-wagon	707,618	Aug. 26	3095	697	100	1805
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McIntosh, William, Clinton, Mass. Hoisting and conveying mechanism	713,909	Nov. 18	2796	631	101	1507
McIntosh, William, Clinton, Mass. Hoisting and conveying apparatus	714,224	Nov. 25	3443	632	101	1059
McIntyre, Edward F., Lake Phalen, assignor of one-half to O. Roslund, St. Paul, Minn. Car-lock	701,758	June 3	858	190	99	2287
McIntyre, Frank, assignor to Eagle Pencil Company, New York, N. Y. Letter-file	693,301	Feb. 11	2046	446	98	1244
McIntyre, Frank, assignor to Eagle Pencil Company, New York, N. Y. Penholder	703,293	June 24	3703	853	99	2321
McIntyre, Frank F., Philadelphia, Pa. Cushioning device for boots or shoes	690,549	May 6	794	187	99	1339
McIntyre, Joseph J., Brooklyn, N. Y. Projectile	695,378	Mar. 18	2343	531	98	2239
McIntyre, Samuel, Canterbury Station, Canada, assignor of one-fourth to A. D. Annett, Saco, Me. Device for hitching or unhitching horses	690,892	Jan. 7	991	224	98	208
McKague, Joseph H., Columbia Heights, Minn. Hernal truss	707,619	Aug. 26	3098	698	100	1805
McKaig, Eddy T. (See Gilliland and McKaig.)						
McKaig, Eddy T., Chicago, Ill. Gasolene-engine	707,793	Aug. 26	3562	790	100	1886
McKaig, Eddy T., Chicago, Ill. Lubricating apparatus for engines	707,794	Aug. 26	3507	791	100	1887
McKaig, Eddy T., Chicago, Ill. Liquid-supply apparatus	711,671	Oct. 21	2458	540	101	541
McKay, Donald, Prattville, Ala. Ball-bearing hub	697,525	Apr. 15	2333	474	99	487
McKay, Gordon, Newport, R. I. Dredge	706,195	Aug. 5	3174	80	100	1193
McKay, Harry C., Essington, Pa., assignor, by mesne assignments, to American Patent Kid Company. Varnish for making enamel or patent leathers	704,082	July 8	1327		100	278
McKay, Robert, Quebec, Canada. Steam-boiler	715,842	Dec. 16	2286	508	101	2342
McKay, Robert, assignor to McKenney Button Fastening Company, Detroit, Mich. Metallic button	710,991	Oct. 14	1121	247	101	246
McKean, Frank, Lometa, Tex. Mechanical movement	697,100	Apr. 8	1364	303	99	310
McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Winding-machine	716,923	Dec. 30	4528	982	101	2855
McKeachney, Harry E., Rochester, N. Y. Hose-terminal	690,754	Jan. 7	754	168	98	130
McKeechnie, Duncan, Liverpool, England. Recovering metallic copper from copper precipitate	711,173	Oct. 14	1500	323	101	327
McKeechnie, Norman, Cleveland, Ohio. Flanging metallic tubes	698,214	Apr. 22	3440	755	99	779
McKee, A. Hart, <i>et al.</i> (See Cohen, George W., assignor.)						
McKee, Alfred, Beloit, Kans. Clothes-pin	716,924	Dec. 30	4536	983	101	2857
McKee, Emrick C., and T. Matheny, Luhrig, Ohio. Shoe cleaning and polishing machine	693,531	Feb. 18	2491	547	99	1358
McKee, John, Warren, Ohio. Hose-reel	699,221	May 6	159	39	99	1208
McKee, Thomas M., and S. B. Saffell, Indianapolis, assignors to National Adjustable Chair Company, Greenfield, Ind. Swinging chair	695,225	Mar. 11	1704	378	98	2088
McKee, Thomas M., and S. B. Saffell, Indianapolis, assignors to National Adjustable Chair Company, Greenfield, Ind. Automatic adjustable chair	706,991	Aug. 12	1891	424	100	1519
McKee, Ulysses C. (See Dodd, Joseph L., assignor.)						
McKee, William, Charleston, W. Va. Compressed-air water-elevator	712,401	Oct. 23	3837	830	101	844
McKeel, George A., Jackson, Mich. Ferrule for fork-handles	709,108	Sept. 16	2110	484	100	2445
McKeen, Charles W., Bayes, and W. Heyer, Winside, Nebr. Belt-guide	697,354	Apr. 8	1794	402	99	402
McKeen, Thomas L., Easton, Pa. Tandem draft-rigging attachment	696,184	Mar. 25	3490	782	98	2487
McKeen, Thomas L., Easton, Pa. Friction draft-rigging appliance	698,215	Apr. 22	3441	755	99	779
McKeen, Thomas L., Easton, Pa. Draft-rigging for railroad-cars	714,015	Nov. 18	3002	668	101	1549
McKeen, Thomas L., Easton, Pa. Friction draft-gear for railway-cars	714,815	Dec. 2	324	71	101	1903
McKeever, Jacob S., Philadelphia, Pa. Fan attachment for rocking-chairs	708,905	Sept. 9	1688	389	100	2340
McKeever, John P., Knoxville, W. Va. Window-screen	705,378	Aug. 22	3722	807	100	801
McKelvey, Frank A., Wadsworth, Pa. Air-brake	706,252	Aug. 5	478	101	100	1213
McKelvey, Jonathan, assignor of one-fifth to W. H. Stiglitz, Louisville, Ky. Amalgamator	699,550	May 6	795	187	99	1389
McKenna, David, assignor of one-half to J. McGee, Waterbury, Conn. Scissors or shears	702,238	June 10	1718	388	99	2479
McKenna, Edward W., Chicago, Ill. Conveyor system	694,067	Feb. 25	3543	781	98	1599
McKenna, Edward W., Chicago, Ill. Transfer system	705,119	July 22	3364	730	100	731
McKenney Button Fastening Company. (See McKay, Robert, assignor.)						
McKenney, Deborah P., Boston, Mass. Corset and gown stay	714,322	Nov. 25	3633	800	101	1698
McKenney, Fred W., Lisbon Falls, Me. Paper-maker's stuff-chest	714,391	Nov. 25	3750	828	101	1721
McKenzie, Andrew, Providence, R. I. Shade-holder	702,400	June 17	2137	485	99	2585
McKenzie, Andrew, assignor of two-thirds to J. M. Mann and E. C. Beuzard, Jr., Providence, R. I. Lamp-socket for incandescent electric lamps	691,563	Jan. 21	2246	506	98	503
McKenzie, Benjamin, St. Paul, Minn. Shade-roller support	711,582	Oct. 21	2275	494	101	503
McKenzie, Burt, Eaton Rapids, Mich. Horseshoe-calk	694,776	Mar. 4	855	188	98	1892
McKenzie, James S., Birmingham, Ala. Dust and cinder guard for railway coaches or sleepers	697,526	Apr. 15	2135	475	99	487
McKenzie, James S., Birmingham, Ala. Dust and cinder guard for all kinds of railway passenger-coaches	697,527	Apr. 15	2136	475	99	487
McKenzie, Joel B. L., Rahway, N. J. Oil-cup	702,068	June 10	1436	323	99	2421
McKenzie, Joel B. L., Rahway, N. J. Water-gage connection	709,239	Sept. 16	2369	537	100	2498
McKenzie, John W. (See Allen and McKenzie.)						
McKeon, John C. (See Olson, August, assignor.)						
McKeown, Joseph B., Union Hill, N. J. Machine for applying coatings	707,620	Aug. 26	3099	698	100	1805
McKerahan, Charles A., Wilmerding, Pa. Car-coupling	692,063	Jan. 28	3208	724	98	716
McKernan, Frank, and See Rhoads, Samuel M., assignor.)						
McKibben, John F., <i>et al.</i> (See Wright, William J., assignor.)						
McKim, A., Sr., <i>et al.</i> (See McWatters, Thomas, assignor.)						
McKim, Andrew H., <i>et al.</i> (See McWatters, Thomas, assignor.)						
McKim, Catherine P., Newton, N. J. Thread-cutter	691,289	Jan. 14	1724	392	98	375
McKim, James T. (See Miller, Lewis, assignor.)						
McKim, James T., assignor of one-half to L. Miller, Thorntown, Ind. Cement	704,849	July 15	2764		100	592
McKim, James T., and L. Miller, Thorntown, Ind. Burial-vault	704,850	July 15	2764	592	100	592
McKinley, Andrew, New York, N. Y. Nut-lock	703,448	July 1	143	32	100	31
McKinley, George H., <i>et al.</i> (See Morris, George O., assignor.)						
McKinley, Robert E., Carnegie, Pa. Hair-clipper	701,601	June 3	580	127	99	2220
McKinley, Robert W., Ripley, Ohio. Whiffletree	707,735	Aug. 26	3507	791	100	1888
McKinly, William B., Chestnut, Ala. Stalk-puller	716,082	Dec. 16	2776	612	101	2448
McKinney and Company, Walter S. (See McKinney, Walter S., assignor.)						
McKinney, Henry B., <i>et al.</i> (See Moon, Herman, assignor.)						
McKinney, Henry D., Janesville, Wis. Checking device for harness.	708,906	Sept. 9	1689	389	100	2340
McKinney, M. B. (See Arnn, McKenzie, assignor.)						
McKinney, Silas E., Menlo, Kans. Grain-door for cars	713,481	Nov. 11	1951	441	101	1315
McKinney, Walter S., Chicago, Ill. Excavator	692,892	Feb. 11	1229	271	98	1078
McKinney, Walter S., Chicago, Ill. Reducing mechanism	699,551	May 6	797	188	99	1340
McKinney, Walter S., Chicago, Ill. Stamp-stem	701,077	May 27	3815	874	99	2012

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McKinney, Walter S., Chicago, Ill., assignor to W. S. McKinney and Company. Rivet-machine	690,755	Jan. 7	755	168	98	159
McKinnie, Thomas S., Cleveland, Ohio. Muffler for steam or other engines.	701,496	June 3	390	88	99	2188
McKinnon, John A., El Cajon, Cal. Cultivator	708,064	Sept. 2	120	28	100	2006
McKinnon, Manning, Sheboygan Falls, Wis. Cheese-press	690,985	Jan. 14	1170	265	98	260
McKinnon, Manning, Sheboygan Falls, Wis. Cheese-press	698,728	Apr. 29	4430	1977	99	1008
McKisic, Genie, Ardmore, Ind. Ter. Washing and wringing machine	711,672	Oct. 21	2460	540	101	542
McKnight, Alexander C., Brooklyn, N. Y. Tree for boots or shoes.	713,482	Nov. 11	1953	442	101	1315
McKnight, Alexander C., Brooklyn, N. Y., and Alexander C. McKnight, Jr., Orange, N. J. Electrical signaling system	717,112	Dec. 30	4886	1058	101	2391
McKnight, Richard, <i>et al.</i> (See Sauvage, William H., assignor.)						
McKnight, Robert. (See Guiraud, Gustave, assignor.)						
McKnight, Robert, Philadelphia, Pa. Treating ores	696,469	Apr. 1	141		99	35
McKnight, Robert, Philadelphia, Pa., assignor to Metallic Condense Company. Reducing carbonaceous ores	693,982	Feb. 25	3381	743	98	1556
McKnight, Thomas R., assignor to Western Wheeled Scraper Company, Aurora, Ill. Grading-machine	694,661	Mar. 4	621	134	98	1844
McKnight, Thomas R., assignor to Western Wheeled Scraper Company, Aurora, Ill. Dump-car	712,573	Nov. 4	218	53	101	942
McKnight, Thomas R., and H. A. Clapp, assignors to Western Wheeled Scraper Company, Aurora, Ill. Dump-car	712,572	Nov. 4	215	53	101	942
McKone, William, assignor of five-sixths to D. Hamilton, W. P. Johnston, G. A. Dinwoody, H. F. Forrest, and J. H. Howden, Neepawa, Canada. Pneumatic stacker	713,787	Nov. 18	2558	570	101	1457
McLachlan, John W. (See Burkhardt, Charles L., assignor.)						
McLane, Jared B., North Reading, Mass. Power-hammer	708,737	July 1	668	148	100	134
McLaren, Daniel R., Hinckley, Minn. Punching-machine	699,552	May 6	798	188	99	1340
McLaren, Henry. (See McLaren, John and H.)						
McLaren, John and H., Leeds, England. Governing device for engines, &c	692,893	Feb. 11	1231	271	98	1078
McLaughlin, George M., assignor to H. P. Scott, Kansas City, Mo. Plow	715,282	Dec. 9	1300	257	101	2100
McLaughlin, James A., Statesboro, assignor of two-thirds to L. Carter and W. P. Dorough, Voldosta, Ga. Vehicle-axle	705,000	July 29	4437	961	100	058
McLaughlin, Jeremiah K., Ausable Forks, N. Y. Pulp-separator	706,441	Aug. 5	895	193	100	1296
McLaughlin, Milton F., <i>et al.</i> (See Lowe, John L., assignor.)						
McLaughlin, Milton F., assignor of one-half to O. W. Brown, Wakefield, Mass. Sand-valve mechanism	713,910	Nov. 18	2801	622	101	1507
McLaughlin, Neil J., Boston, Mass. Apparatus for repairing vessels at sea.	704,905	July 15	2860	620	100	613
McLaughlin, Robert, Oshawa, Canada. Axle-bearing	709,677	Sept. 23	3238	724	100	2693
McLaughlin, William, Philadelphia, Pa. Glass-grinding machine	711,067	Oct. 14	1392	279	101	281
McLaughlin, Willson L., Clearlake, Iowa, and J. E. Svenson, Lake Crystal, Minn. Automatic car and elevating track	708,386	Sept. 2	692	156	100	2122
McLaurin, Laughlin A., Ralford, N. C. Wrench	712,574	Nov. 4	221	54	101	943
McLay, Kenneth D., Dauphin, Canada. Clothes-pounder	709,109	Sept. 16	2112	484	100	2446
McLean, Andrew, Passaic, N. J. Stiff-finished woven fabric	708,907	Sept. 9	1690	389	100	2340
McLean, Charles A., <i>et al.</i> (See Cuthriell, Alonzo P., assignor.)						
McLean, Clarence S. (See Downs, Edgar S., assignor.)						
McLean, Daniel, <i>et al.</i> (See Hackett, George H., assignor.)						
McLean, Daniel L. (See Lambkin, William L., assignor.)						
McLean, Donald M., Boston, Mass. Buckle	708,387	Sept. 2	695	156	100	2122
McLean, Embury. (See Darrin, David H., assignor.)						
McLean, Embury. (See Darrin and McLean.)						
McLean, Henry H., assignor to Whitin Machine Works, Incorporated, Whitinsville, Mass. Beam-lock for looms	708,246	Sept. 2	463	105	100	2076
McLean, James A., Boston, Mass. Rotary explosive-engine	697,649	Apr. 15	2361	526	99	531
McLean, James W., Joplin, Mo. Water-diverter	701,373	June 3	100	35	99	2141
McLean, James W., deceased, St. Louis, Mo.; L. A. McLean, administrator. Fire-screen gate	698,848	Apr. 29	4698	1086	99	1065
McLean, Lee A., administrator. (See McLean, James W.)						
McLean, Norman J., West Bay City, Mich. Nut-lock	696,998	Apr. 8	1178	264	99	270
McLean, Richard. (See Mayotte, Phillis, assignor.)						
McLellan, Annie M., St. Paul, Minn. Folding go-cart	711,583	Oct. 21	2276	494	101	503
McLellan, Robert K., Rochester, N. Y. Mechanical motor	709,644	Sept. 23	3179	710	100	2681
McLelland, Jacob J. E., Groesbeck, Tex. Destroying stumps of trees	696,836	Apr. 1	832		99	176
McLemore, Walter S., assignor of one-half to R. Wedgeworth, Estabutchie, Miss. Bal-ing-press	693,983	Feb. 25	3383	743	98	1556
McLennan, Donald F., Syracuse, N. Y. Cattle-stanchion	715,843	Dec. 16	2291	509	101	2340
McLeod, Angus and J. H., Marietta, Kans. Automatic grain-weigher	706,442	Aug. 5	896	194	100	1297
McLeod, John C. (See Corneil, Robert F., assignor.)						
McLeod, John H. (See McLeod, Angus and J. H.)						
McLeod, Matthew. (See McFadden, Hugh, assignor.)						
McLeran, Alvord M., Rosedale, Kans. Knife-sharpener	699,890	May 13	1494	343	99	1498
McLery, Robert A., J. W. Wilbur, and A. S. Wooster, Palmyra, Wis. Folding stall for cattle	706,772	Aug. 12	1503	384	100	1499
McLin, Thomas W., Seattle, Wash. Railway-track joint	708,908	Sept. 9	1692	389	100	2341
McLin, Thomas C., assignor to himself and G. Hunter, Seattle, Wash. Letter-box	708,147	June 24	3451	791	99	2871
McLinden, John D., New York, N. Y. Hot-water heater	692,329	Feb. 4	197	47	98	840
McLoon, Albert C., Rockland, Me. Package for lobsters or the like	704,563	July 15	2253	488	100	486
McLoon, Nelson E., <i>et al.</i> (See Dauer, Edward, assignor.)						
McLoon, Peter, <i>et al.</i> (See Dauer, Edward, assignor.)						
McLoughlin, Harry, Stapleton, N. Y., assignor to B. E. Kingman, New York, N. Y. Railway-car	699,340	May 6	397	92, 93	99	1255
McLoughlin, Harry, Stapleton, assignor to B. E. Kingman, New York, N. Y. Tubular pole or shaft for vehicles	705,427	July 22	4034	874	100	866
McLoughlin, John E., Utica, N. Y. Cap	703,606	July 1	407	95	100	81
McLouth, Lewis C., H. J. Hayes, and J. H. Wissman, assignors to Eastman Automobile Company, Cleveland, Ohio. Vehicle-body	717,250	Dec. 30	5194	1123	101	2996
McLure, Charles D., <i>et al.</i> (See Klein, John, assignor.)						
McMahon, Bernard, and P. Lindgren, Spokane, Wash. Attachment for vises	711,068	Oct. 14	1293	280	101	281
McMahon, Edward, Elmira, N. Y. Railway-signal	695,827	Mar. 18	2778	634	98	2326
McMahon, Michael F., Worcester, Mass. Friction-clutch	712,575	Nov. 4	222	54	101	944
McMahon, Patrick J., Keywest, Fla. Motor-vehicle	698,729	Apr. 29	4432	978	99	1004
McMahon, Robert, New York, N. Y. Paper-fastener	692,302	Feb. 11	2046	446	98	1244
McMannon, John J., Atlanta, Ga. Cotton-sweep	710,600	Oct. 7	390	82	101	78



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McMannama, John M., Clarinda, and J. N. Ballon, Osceola, Iowa. Cattle-guard .....	714,940	Dec. 2	602	126	101	1955
McManus, Michael B., Titusville, Pa. Lift for well drilling and pumping rigs .....	696,252	Mar. 25	3623	809	98	2514
McMaster, John, Cambridge, Mass., assignor to A. G. Spalding & Bros., Jersey City, N. J., and New York, N. Y. Training apparatus .....	704,295	July 8	1677	365	100	351
McMasters, James A., Kittanning, Pa. Ice-tongs .....	698,730	Apr. 29	4434	970	99	1004
McMasters, Robert B., Plymouth, N. Y. Mitten .....	709,350	Sept. 16	2579	582	100	2544
McMath, John F. O., assignor to J. M. Gamble and D. R. Van Amringe, Oakland, Cal. Dental instrument .....	712,576	Nov. 4	225	54	101	944
McMeans, Orange E., assignor to Richmond City Mill Works, Richmond, Ind. Support for dust-collector tubes .....	690,455	Jan. 7	132	28	98	30
McMeans, William, Iantaha, Mo. Hay-loader .....	698,998	Apr. 29	4947	1006	99	1116
McMechan, William A., St. Clairsville, Ohio. Bath-brush .....	696,470	Apr. 1	143	34	99	35
McMechen, Benson G., et al. (See Wharfside, Marion A., assignor.)						
McMichael, James G. (See Bain, Forcé, assignor.)						
McMillan, Frank. (See Roebuck and McMillan.)						
McMillan, Hugh P., Baltimore, Md. Fountain-brush .....	717,251	Dec. 30	5185	1124	101	2996
McMillan, James. (See Park, Wey P., assignor.)						
McMillan, John L., Iilon, N. Y. Book-binding .....	708,065	Sept. 2	120	29	100	2006
McMillan, Louis S., et al. (See Peckham, Charles V., assignor.)						
McMillan, William S., et al. (See Daly, Michael J., assignor.)						
McMillen, Samuel, Minneapolis, Minn. Ledger-index .....	695,226	Mar. 11	1706	378	98	2089
McMillin & Lively. (See Denton, John L., assignor.)						
McMonies, Fred J. and W. H. Portland, Oreg. Toe-dip .....	712,953	Nov. 4	931	216	101	1067
McMonies, Walter H. (See McMonies, Fred J. and W. H.)						
McMorrin, Edward E., et al. (See Bryan, George F., assignor.)						
McMullan, Lillian, Jersey Shore, Pa. Box-opener .....	714,816	Dec. 2	327	71	101	1903
McMullen, George W. (See Gathmann, Emil, assignor.)						
McMullen, Joseph B., Howard county, Md., assignor to Vehicle Top Attachment and Protector Company. Front for vehicle-tops .....	714,016	Nov. 18	3004	669	101	1550
McMunn, Samuel W., Chicago, Ill. Car-truck .....	693,984	Feb. 25	3934	744	98	557
McMunn, Samuel W., and E. S. Monies, Chicago, Ill. Roller side bearing for railway-cars .....	705,149	June 24	3451	791	99	2871
McMurrin, Robert L., assignor of one-third to R. S. Marshall, Portsmouth, Va. Syringe-nozzle .....	697,412	Apr. 8	1929	429	99	429
McMyler Manufacturing Co. (See Titcomb, George E., assignor.)						
McMyler Manufacturing Co. (See Williams, Gordon H., assignor.)						
McNaghten, Samuel D., Wichita, Kans. Corn-planter .....	691,321	Jan. 14	1796	408	98	389
McNairy, Amos B., Cleveland, Ohio. Can or like closure .....	693,984	May 13	1496	343	99	1498
McNalley, Micheal, St. Louis, Mo. Vehicle-fastening for harness .....	703,808	July 1	798	175	100	160
McNally, Charles H., Waipahu, Hawaii. Sugar-cane conveyor .....	702,913	June 17	2804	644	99	2724
McNamara, John C., Troy, N. Y. Awning .....	715,501	Dec. 9	1616	350	101	2183
McNamara, William, Boston, Mass. Fan .....	710,235	Sept. 30	4448	1003	100	2960
McNary, William F., and W. P. Wiley, St. Louis, Mo. Stool .....	713,438	Nov. 11	1955	442	101	1315
McNaught, Ira S., assignor of one-half to C. M. Coker, Fort Worth, Tex. Automatic elevator-gate .....	710,601	Oct. 7	3900	82	101	78
McNeal, Joseph N., Brockway, Minn. Governor .....	692,330	Feb. 4	199	47	98	840
McNeal, Luther C., Rochester, N. Y. File .....	690,869	Jan. 7	943	211	98	198
McNeal, Luther C., Rochester, N. Y. File .....	708,388	Sept. 2	696	157	100	2122
McNeely Bros. (See Baumgarten, Albert, assignor.)						
McNeely Brothers. (See Horner, John W., assignor.) (Reissue.)						
McNeely, George W. and H. Marshalltown, Iowa. Flexible metal floor-mat .....	705,601	July 29	4438	962	100	959
McNeely, Henry. (See McNeely, George W. and H.)						
McNeil, Chester, assignor to Union Special Sewing Machine Company, Chicago, Ill. Seam for sewed articles .....	702,668	June 17	2526	578	99	2696
McNeil, Chester, assignor to Union Special Sewing Machine Company, Chicago, Ill. Covered seam for sewed articles .....	703,966	July 1	1100	237	100	218
McNeil, William, Boston, Mass. Smoke-consuming attachment .....	703,149	June 24	3454	791	99	2871
McNeill, Knowlton C., Chandlersville, Ill. Car .....	701,759	June 3	358	190	99	2288
McNeill, William D. (See Ray and McNeill.)						
McNerney, Thomas H., assignor of two-thirds to S. D. Lawton and T. F. Daley, Fall River, Mass. Harness-controlling mechanism for looms .....	706,335	Aug. 5	665	144	100	1249
McNicol, Archibald, Ypsilanti, Mich. Hook and eye .....	694,777	Mar. 4	856	189	98	1892
McNiece, Robert L., Chicago, Ill. Penholder .....	702,739	June 17	2659	612	99	2693
McNish, Thomas T., Allegheny, Pa. Closing container vessels .....	695,756	Mar. 18	2044	601	98	2250
McNorton, Orville, Jr., Glen Jean, W. Va. Switch-operating device .....	714,392	Nov. 25	3751	828	101	1721
McNutt, John F., Cincinnati, Ohio. Controlling mechanism for motor-vehicles .....	690,756	Jan. 7	757	169	98	160
McNutt, John F., Cincinnati, Ohio. Motor-vehicle .....	692,064	Jan. 28	3210	725	98	716
McNutt, John F. Warren, assignor to Harris Automatic Press Company, Niles, Ohio. Numbering-machine .....	694,408	Mar. 4	137	30	98	1741
McNutt, Maxwell, San Francisco, Cal. Safety carriage-pole and neck-yoke .....	710,501	Oct. 7	191	42	101	40
McOsker, John J., Woonsocket, R. I. Flier .....	694,884	Mar. 4	1055	233	98	1985
McQuat, Eugene, Malden, Mass. Incandescent lamp .....	694,068	Feb. 25	3545	782	98	1590
McPartland, James H., Houlton, Me. Fire-escape with water-tower attachment .....	713,911	Nov. 18	2802	623	101	1503
McPhail, Duncan, et al. (See Bedell, William F., assignor.)						
McPhee, John H. A., Dunedin, New Zealand. Metallic separator .....	698,311	Apr. 22	3598	793	99	810
McPhee, John H. A., Dunedin, and J. E. L. Cull, Christchurch, New Zealand. Apparatus for removing tailings .....	716,268	Dec. 16	3140	687	101	2523
McPherson, Charles J., South Framingham, Mass., assignor to American Cotton Improvement Company, Phoenix, Ariz. Roller cotton-gin .....	701,814	June 3	946	210	99	2307
McPherson, Charles J., South Framingham, Mass., assignor to American Cotton Improvement Company, Phoenix, Ariz. Roller cotton-gin. (Reissue) .....	12,042	Oct. 7	1006	222	101	205
McPherson, Columbus B., Birmingham, Ill. Telephone-switch .....	709,351	Sept. 16	2580	582	100	2544
McPherson, Donald, Palmyra, N. Y. Game device .....	714,017	Nov. 18	3007	669	101	1550
McPherson, Frank G., Beaverfalls, Pa. Mandolin attachment .....	702,987	June 24	3148	724	99	2812
McPherson, Frank G., Beaverfalls, assignor to J. W. Hoffman, M. D. Youtes, and J. F. Bell, Rochester, Pa. Savings-bank .....	697,268	Apr. 8	1651	370	99	371
McPherson, Alice Novelty Company. (See Weaver, Charles D., assignor.)						
McPherson, Thomas, et al. (See English, Edwin E., assignor.)						
McPherson, William C. (See Himmam, Charles E., assignor.)						
McPherson, William R. (See Leazer and McPherson.)						
McPherson, William R., and H. E. Eulich, Tarentum, Pa. Washboard .....	707,861	Aug. 26	3632	819	100	1911

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McQuaid, John H., Goodhope, W. Va. Necktie-fastener	698,341	May 6	402	93	99	1256
McQuaig, Samuel, assignor to himself and J. H. Muller, New York, N. Y. Non-refillable bottle.	714,018	Nov. 18	3008	670	101	1550
McQueen, Daniel P., Saratoga Springs, N. Y. Steam-boiler	711,783	Oct. 21	2673	589	101	587
McQueen, Finlay R., Superior, Wis. Fireproof grain-bin	692,894	Feb. 11	1233	272	98	1078
McQuiston, James, Pittsburg, Pa. Supporting device for lengths of hoop-iron	708,440	July 1	145	32	100	31
McRae, James, London, assignor of one-half to J. C. Broadbent, Huddersfield, Yorkshire, England. Apparatus for use in refrigerating, heating, drying, impregnating, or otherwise treating goods.	705,279	July 22	3723	807	100	802
McRae, John D., Oswego, N. Y. Steam-condensing system	700,223	May 20	2162	495	99	1652
McRae, John D., Oswego, N. Y. Centrifugal pump	700,224	May 20	2169	496	99	1654
McRae and Keeler. (See Keeler, Charles P., assignor.)				497		
McReynolds, Andrew L., assignor of one-half to C. F. Thomas, Cleveland, Ohio. Mason's plumb and level	700,971	May 27	3619	881	99	1970
McRoberts, William S., Findlay, Ohio. Pump	717,252	Dec. 30	5186	1124	101	2997
McRorie, Colin, and D. J. Hunter, County of Surrey, England. Tool for cutting metal.	705,695	July 29	4066	999	100	992
McShane, Charles W., Zanesville, Ohio. Bottle for medicine, &c	710,708	Oct. 7	587	124	101	120
McTammany, John, Worcester, Mass. Automatic musical instrument	692,207	Jan. 28	3458	781	98	768
McTammany, John, Spencer, Mass. Mechanical musical instrument	692,208	Jan. 28	3462	788	98	769
McTammany, John, Spencer, Mass. Mechanical musical instrument	705,952	July 29	5063	1102	100	1084
McTear, Balfour F., Rainhill, England. Manufacture of seamless and weldless tubes or hollow bodies	691,727	Jan. 21	2560	573	98	569
McTear, Balfour F., Rainhill, England. Manufacture of steam-generator shells, cylinders, &c	700,360	May 20	2444	558	99	1711
McTear, Balfour F., Rainhill, England. Machine for making seamless tubes or hollow articles	700,361	May 20	2446	559	99	1711
McTear, Balfour F., Rainhill, England. Metal-piercing machinery for making hollow bodies	705,780	July 29	4757	1081	100	1022
McTighe, Thomas J., New York, N. Y. Railway-track special	696,837	Apr. 1	832	191	99	176
McVean, Donald. (See Irvine, Thomas A., assignor.)						
McVeety, Charles, and J. F. Ford, Philadelphia, Pa. Ship's ventilator	699,928	May 13	1560	359	99	1511
McVey, John, Longue Pointe, Canada. Nut-lock	705,120	July 22	3367	730	100	731
McVicar, Philip H., Livermore, Cal. Door-closer for hay-presses	710,166	Sept. 30	4225	952	100	2910
McVickar, Edward. (See Behrman, Martin, assignor.)				953		
McVicker, Edward, et al. (See Brown, Thomas R., assignor.)						
McVoy, Martin, Jr. (See Locke, Sylvanus D., assignor.)						
McWain, W. J. (See Doyle and Kimball, assignors.)						
McWane, Henry E., et al. (See Wiley, Edgar C., assignor.)						
McWaters, Thomas, Swissvale, assignor of two-thirds to J. M. Flannery, Braddock, A. H. and A. McKim, Sr., Swissvale, Pa. Signal-lamp	705,280	July 22	3725	800	100	802
McWhorter, Allen, Norfolk, Va., assignor to McWhorter Manufacturing Company. Fertilizer-distributor	705,858	July 29	4896	1065	100	1051
McWhorter, Allen, Riverton, N. J., assignor to McWhorter Manufacturing Company. Seed-drill	712,323	Oct. 25	3690	806	101	810
McWhorter Manufacturing Company. (See McWhorter, Allen, assignor.)				807		
McWhorter, Milton, assignor of seven-tenths to J. U. Hastings, E. McGary, and U. L. Davies, San Francisco, Cal. Tire-repairing compound and preparing same	716,083	Dec. 16	2777		101	2449
McWilliams, Joseph. (See Atkins, Charles H., assignor.)						
McWilliams, William H., Watonga, Okla. Ter. Wind-stacker	704,906	July 15	2861	620	100	613
McWillie, William, Canton, Miss. Rail-fastener	695,112	Mar. 11	1480	330	98	2041
Meacher, George W., Houston, Tex. Furnace	713,473	Nov. 11	1940	499	101	1312
Meal, Albert G., Medford, assignor of one-half to C. J. Addy and J. T. Huggins, Malden, Mass. Shoe-fastening	702,665	June 17	2522	577	99	2665
Mead, Charles B., East Palestine, Ohio. Rail-joint	699,966	May 13	1634	375	99	1525
Mead, Edwin R. (See Russell and Mead.)						
Mead, Edwin R., Fort Scott, Kans. Fob for jumpers	702,021	June 10	1326	303	99	2398
Mead, Egbert S., Winona, Minn. Hay-baling press	707,709	Aug. 26	3287	735	100	1844
Mead, James A., Corry, Pa. Holder for dental devices	694,021	Feb. 25	3454	762	98	1571
Mead, James R., assignor of one-half to W. E. Veasey, Lewes, Del. Signaling apparatus	708,487	Sept. 2	880	199	100	2159
Mead, Joseph A., Cleveland, Ohio. Station-indicator	696,464	Apr. 1	129	31	99	33
Mead, Marvin, Pueblo, Colo. Combined wheeled scraper and dumping device	710,592	Oct. 7	377	79	101	75
Mead, Merritt E., Lisle, N. Y. Pencil-sharpener	716,732	Dec. 23	4060	887	101	2730
Mead, Winthrop L., South Orange, N. J. Steering device for automobiles or other vehicles	714,501	Nov. 25	3951	876	101	1759
Mead, Arthur H., New Richmond, Mich. Chopper and thinner for plants	691,282	Jan. 14	1709	387	98	372
Meade, Cyrus L., Jr. (See Smith and Meade.)						
Meade, Edward S., Philadelphia, Pa. Briquet and producing same	701,365	June 3	150	59	99	2139
Meade, Henry R., assignor of one-half to J. L. Wood, Greeneville, Tenn. Measuring-machine for rolled goods	709,231	Sept. 16	2345	531	100	2494
Meador, George, Fowler, Ind. Railway-track and car-truck	690,597	Jan. 7	148	95	98	96
Meador, Edgar T., Giles, Tex. Cattle-guard	699,925	May 13	4556	388	99	1510
Meakin, George C. (See Summers, John T., assignor.)						
Mealer, Charles L., Dayton, Tenn. Handcuffs	711,778	Oct. 21	2662	587	101	585
Mealey, Elizabeth A. and G. M., Chatham, N. Y. Window-cleaner	695,070	Mar. 11	1413	310	98	2028
Mealey, George M. (See Mealey, Elizabeth A. and G. M.)						
Meals, Samuel W., Waynesburg, Pa. Oil-well pump	708,897	Sept. 9	1674	385	100	2386
Means, Thomas H., Waitsburg, Wash. Meat needle and larder	711,578	Oct. 21	2270	492	101	502
Means, William L., Elko, Ga. Cotton-basket	711,440	Oct. 14	1939	422	101	418
Mears, Charles F., Silver City, Iowa. Electric clock-synchronizer	702,666	June 17	2523	578	99	2665
Mease, Frank R., Freeport, Ill. Window-shade support	705,955	July 29	4430	900	100	957
Mease, Frank R., Freeport, Ill. Checker	714,930	Dec. 2	581	123	101	1952
Meats, John T., and C. R. McGowan, assignors to Mason Machine Works, Taunton, Mass. Stop-motion for drawing machines	704,704	July 15	2478	535	100	534
Mechanical Improvements Company. (See Hess, Edward B., assignor.)						
Mechanical Improvements Company. (See Hess and Stoughton, assignors.)						
Mechlin, Francis O., Washington Court-House, Ohio. Cutter-head	706,078	Aug. 5	149	31	100	1147



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Mechlin, Francis O., Washington Court-House, Ohio. Means for cutting saddle-seat bottoms for chairs	706,079	Aug. 5	150	31	100	1147
Mecklan Wagon Company. (See Mecklan, Walter N., assignor.)						
Mecklan, Walter N., Olean, assignor to Mecklan Wagon Company, New York, N. Y. Running-gear for vehicles	708,488	Sept. 2	883	200	100	2160
Mecom, M. L., administrator. (See Mecom, William H.)						
Mecom, William H., deceased, Columbia, La.; M. L. Mecom, administrator. Cotton-press	710,931	Oct. 7	1001	221	101	204
Mecredy, James, London, England. Evaporating apparatus	692,465	Feb. 4	426	100	98	880
Mecum, Francis M., Chico, Cal. Disk-plov attachment	702,022	June 10	1327	303	99	2398
Medbery, Nelson H., Providence, R. I. Bushing for bung-holes	694,769	Mar. 4	843	186	98	1890
Medearis, Lorain C. (See Pollard, Amos E., assignor.)						
Medicated Poultry Perch Company. (See Harrod, Orrian L., assignor.)						
Medina, Albert A., East San Jose, Cal. Running-gear for automobiles	707,340	Aug. 19	2562	578	100	1677
Medley, Granville E., assignor of one-half to G. Watkins, Gracey, Ky. Clutch	710,593	Oct. 7	380	80	101	76
Meech, Harrison B., New York, N. Y. Steam-burner furnace	704,353	July 8	1832	401	100	332
Meehan, Patrick, Lowellville, Ohio. Blast-furnace top	700,363	May 27	3644	829	99	1367
Meehan, Patrick, Lowellville, Ohio. Furnace-top down-corner and explosion-pipe	704,536	July 15	3240	485	100	484
Meehan, Patrick, Lowellville, Ohio. Casting apparatus	706,841	Oct. 12	1629	366	100	1468
Meehan, Patrick, Lowellville, Ohio. Metallurgical furnace	711,062	Aug. 14	1272	276	101	277
Meek and Beach Company. (See Beach, Harry L., assignor.)						
Meek, Joseph, Toronto, Canada, assignor to Lever Brothers, Limited, Port Sunlight, England. Mechanism for removing selvage from box or carton blanks	709,789	Sept. 23	3460	779	100	2739
Meeker, De Witt C., Cincinnati, Ohio. Door-guard	700,436	May 20	2592	593	99	1740
Meeker, De Witt C., and W. A. Blackman, Cincinnati, Ohio. Safety-gate for hatchway doors	699,544	May 6	778	184	99	1335
Meeker, George H., Media, Pa. Electric meter	690,450	Jan. 7	121	26	98	28
Meeker, Henry C., Deshler, Ohio. Churn	716,566	Dec. 23	3759	817	101	2667
Meeker, William P., Newark, N. J. Tile-faced surface and constructing same	691,791	Jan. 28	2715	610	98	618
Meeker, William P., Newark, N. J. Tile-press	708,241	Sept. 2	453	100	100	2074
Meeker, Jacob A., et al. (See Miller, Jacob B., assignor.)	715,831	Dec. 16	2261	503	101	2337
Meem, James C., assignor of one-half to Borough Construction Company, Brooklyn, N. Y. Tunnel-roof	715,406	Dec. 9	1430	308	101	2147
Mefford, Fred E., Parkland, Okla. Ter. Computing-scale	697,098	Apr. 8	1362	303	99	309
Megill, Edward L., Brooklyn, N. Y. Feed-gage for printing-presses	703,734	July 1	665	147	100	133
Megill, Edward L., Brooklyn, N. Y. Feed-gage for printing-presses	711,779	Oct. 21	2663	587	101	586
Megill, Edward L., Brooklyn, N. Y. Feed-gage for printing-presses	712,198	Oct. 28	3476	763	101	765
Megonigal, James. (See Gleason, William J., assignor.)						
Mehlfeld, Wilhelmme, assignor to P. Barthels, Barmen, Germany. Skirt-holder or skirt-suspender	709,823	Sept. 23	3529	795	100	2753
Mehlhorn, Alfred, Dietrichsdorf, Germany. Water-tube steam-boiler	707,440	Aug. 19	2742	620	100	1714
Meier, Frank J., Weiland, Nebr. Warmer	705,267	July 22	3703	803	100	798
Meier, Georg, Berlin, Germany. Gas-lighting device	701,211	June 10	1831	418	99	2502
Meier, Hugh D. (See Raders and Meier.)						
Meier, Hugh D., Brooklyn, N. Y. Variable-movement-controlling mechanism	710,302	Sept. 30	4289	966	100	2927
Meier, Johann, Bremen, Germany. Espagnolette-lock	695,520	Mar. 18	2418	547	98	2254
Meighan, George A., Providence, R. I. Bicycle-saddle	694,875	Mar. 4	1039	230	98	1932
Meigs, John F., Bethlehem, assignor to Bethlehem Steel Company, South Bethlehem, Pa. Shield attachment for guns	697,862	Apr. 15	2759	611	99	619
Meigs, John F., and S. A. S. Hammar, assignors to Bethlehem Steel Company, South Bethlehem, Pa. Breech-loading gun	696,063	Mar. 25	3321	729	98	2432
Meigs, John F., and S. A. S. Hammar, South Bethlehem, Pa., assignors, by mesne assignments, to Bethlehem Steel Company. Breech-loading gun	700,217	May 20	2144	492	99	1649
Meigs, John F., South Bethlehem, and S. A. S. Hammar, Bethlehem, assignors to Bethlehem Steel Company, South Bethlehem, Pa. Breech mechanism	704,898	July 15	2850	617	100	611
Meigs, John F., and E. P. Stout, assignors to Bethlehem Steel Company, South Bethlehem, Pa. Gun carriage or mount	696,064	Mar. 25	3326	730	98	2433
Meigs, William D., Pittsfield, Mass. Locking device for drawers	711,994	Oct. 28	3107	680	101	694
Meikleham, William J., Denver, Colo. Cup-cake-dropping apparatus	702,576	June 17	2358	538	99	2680
Meinecke, Christian W. (See Hogan and Meinecke.)						
Meinecke, Christian W., Jersey City, N. J., assignor to Meinecke and Company, New York, N. Y. Bottle-stopper	709,418	Sept. 16	2730	613	100	2576
Meinecke, Christian W., Jersey City, N. J., and D. Hogan, assignors to Meinecke & Co., New York, N. Y. Bed-pan	712,700	Nov. 4	433	101	101	987
Meinecke & Co. (See Hogan and Meinecke, assignors.)						
Meinecke & Co. (See Meinecke and Hogan, assignors.)						
Meinecke & Company. (See Klauber, Charles, assignor.)						
Meinecke and Company. (See Meinecke, Christian W., assignor.)						
Meinecke, Fritz K. T., assignor to A. Schoenhut, Philadelphia, Pa. Toy figure	715,106	Dec. 2	882	188	101	2017
Meininghaus, Eduard, Dusseldorf, assignor to J. Leinberger, Darmstadt, Germany. Apparatus for making iron or steel	697,213	Apr. 8	1552	348	99	349
Meinl, William, New York, N. Y. Clarinet	691,646	Jan. 21	2413	543	98	537
Meischke-Smith, Georgius F. (See Meischke-Smith, William and G. F.)						
Meischke-Smith, William and G. F., Dresden, Germany. Driving-gear for varying speed and reversing	706,580	Aug. 12	1128	249	100	1350
Meisel, Francis, Boston, Mass., assignor to Kidder Press Company, Dover, N. H. Machine for printing and scoring box-blanks	701,493	June 3	384	86, 87	99	2187
Meiser, Georg W., assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Aromatic derivative of amido compounds of the fatty series and producing same	715,880	Dec. 9	1946	618	101	2252
Meiser, William H., Lincletown, Pa. Metallic railway-tie	691,647	Jan. 21	2414	543	98	537
Meisner, Anthony M., Chicago, Ill. Horseshoe	700,667	May 20	3005	689	99	1828
Meissner, Otto W., assignor to Rodger Ballast Car Company, Chicago, Ill. Dumping-car	716,075	Dec. 16	2766	611	101	2446
Meister, Albert R., Sacramento, Cal. Rotary grooving-tool	705,268	July 22	3705	803	100	798
Meister, Herman C., St. Louis, Mo. Extracting zinc from zinc-skimmings	714,502	Nov. 25	3952	618	101	1760
Meister, Herman C., St. Louis, Mo. Extracting zinc from zinc-skimmings	714,503	Nov. 25	3953	618	101	1760
Meister, Louis F., Troy, Mo. Incubator	711,433	Oct. 14	1982	430	101	427
Meitzler, Charles D., Anacostia, D. C. Horseshoe-culk	713,322	Nov. 11	1678	377	101	1257
Melanowski, Leo, Cleveland, Ohio, assignor to Winton Motor Carriage Company. Brake	716,076	Dec. 16	2768	611	101	2446

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Name, residence, and invention	No.	Date.	Monthly volume.		Official Gazette.	
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Melanson, Thomas F., Upper Charlo, Canada. Car-coupling	708,571	Sept. 9	1024	231	100	2200
Melavin, John H., Cambridge, assignor of one-fourth to C. F. Brown, Reading, Mass. Cushioned heel	699,111	Apr. 29	5132	1135	99	1154
Melish, Thomas G., Cincinnati, Ohio. Corn-popper	694,657	Mar. 4	615	134	98	1843
Melish, Thomas G., Cincinnati, Ohio. Flour-sifter	695,575	Mar. 18	2398	530	98	2328
Mellem, Edwin G., St. Paul, Minn. Suspenders	702,902	June 17	2968	654	99	2757
Mellen, Charles B., Hartford, Conn. assignor to John Thomson Press Company, New York, N. Y. Changer for inking apparatus for printing-presses	717,293	Dec. 30	5162	1119	101	2092
Mellen, Edward J., Newark, assignor to H. Berg, Orange Valley, N. J. Hat-brim stretcher	709,643	Sept. 23	3179	709 710	100	2681
Mellen, Edwin D. (See Davis, Isaac H., assignor.)						
Mellen, Edwin D. (See Davis and Mellen.)						
Mellen, Emery E. (See Anthony, Daniel E., assignor.) (Reissue.)						
Mellen, George E., Chicago, Ill. Window-fastener	699,696	May 13	1097	257	99	1414
Meller, Frederick A., assignor of one-half to F. J. O'Reilly, Woonsocket, R. I. Flier	694,876	Mar. 4	1041	230	98	1932
Mellet, Lemuel, Somerville, assignor to American Otophone Company, Boston, Mass. Telephone-receiver	707,441	Aug. 19	2743	621	100	1715
Mellinger, Curtis L., Plain, Ohio. Box-fastener	713,233	Nov. 11	1458	331	101	1212
Mellinger, Pearl. (See McGary and Mellinger.)						
Mellor, Laurence B., Germantown, Pa. Device for measuring and recording variable diameters of tubing or similar structures	713,784	Nov. 18	2553	569	101	1456
Mellors, John H., Pittsburg, Pa. Guide for rolling-mills	716,259	Dec. 16	3123	685	101	2521
Melody, James F., et al. (See Grant, Max, assignor.)						
Meloon, Jonathan C., Providence, R. I., assignor to General Fire Extinguisher Company, New York, N. Y. Electric attachment	708,155	Sept. 2	289	69	100	2041
Melrose Milling Company et al. (See Cameron, John S., assignor.)						
Melville, George W., Washington, D. C. Aerial toy	692,297	Feb. 11	2040	445	98	1243
Melvin, David N., Linoleumville, N. Y. Machine for the manufacture of inlaid linoleum	704,068	July 8	1293	281 282	100	272
Melvin, David N., Linoleumville, N. Y. Machine for the manufacture of inlaid linoleum	704,069	July 8	1303	283 284	100	274
Melvin, David N., Linoleumville, N. Y. Machine for the manufacture of inlaid linoleum	704,070	July 8	1309	284 285 286	100	275
Melvin, William, New York, N. Y. Sink-cleaning device	715,107	Dec. 2	883	188	101	2017
Membery, George D., Hamilton, Canada. Fountain-brush	714,814	Dec. 2	323	71	101	1903
Menahan, Patrick J., Brooklyn, N. Y. Corset	696,465	Apr. 1	132	32	99	34
Ménard, Benjamin, Farnham, Canada. Trap-valve	714,006	Nov. 18	2987	665	101	1546
Mende, Arthur, New York, N. Y., assignor to Pan American Light Company, of New Jersey. Hydrocarbon-burner	702,449	June 17	2117	481	99	2581
Mendel, Moritz, St. Johann, Germany. Rosette for forming crossed joints for metal bars	690,598	Jan. 7	449	95, 96	98	96
Mendels, Eugene E. (See Keane, Maxwell, assignor.)						
Mendelsohn, Lewis, New York, N. Y. Gauntlet	699,802	May 13	1302	301	99	1456
Mendenhall, Aaron E., Anderson, Ind. Door-fastener	707,858	Aug. 26	3629	818	100	1910
Mendenhall, Albert, assignor of one-half to B. V. Seavers, Oskaloosa, Iowa. Thill-coupling	710,365	Sept. 30	4570	1030	100	2985
Mendenhall, Clarence M. (See Lindstrom, Charles, assignor.)						
Mendenhall, John C., assignor of one-half to W. F. Williams, Indianapolis, Ind. Storm-apron	713,899	Nov. 18	2782	618	101	1503
Menefee, George W., Berkeley, Cal. Hoister and conveyer	709,547	Sept. 23	3022	672	100	2649
Menefee, Lee B., et al. (See Wilkinson, John A., assignor.)						
Menefee, Oscar R., et al. (See Wilkinson, John A., assignor.)						
Mengelbier, Rudolf, Andernach, Germany. Rolling-mill	711,927	Oct. 21	2964	652 653	101	648
Menges, Charles L. R. E., The Hague, Netherlands. Galvanometer	706,982	Aug. 12	1875	420	100	1516
Menges, Edward E., assignor to Seamless Rubber Co., New Haven, Conn. Package for water-bottles, water-bags, &c.	706,330	Aug. 5	656	143	100	1247
Menges, Edward E., assignor to Seamless Rubber Co., New Haven, Conn. Nipple	710,114	Sept. 30	4113	928	100	2886
Menges, Edward E., assignor to Seamless Rubber Co., New Haven, Conn. Stopper for hot-water bags	713,234	Nov. 11	1459	331	101	1213
Menne, Hermann A. E., assignor to Cöln-Müsener Bergwerks Actien Verein, Creuzthal, Westphalia, Germany. Fusion of metals	709,940	July 1	1039	225	100	207
Menne, Hermann A. E., Creuzthal, assignor to Cöln-Müsener Bergwerks Actien Verein, Creuzthal, Westphalia, Germany. Burner for the removal of hardened masses in furnaces or the like	705,418	July 22	4021	871	100	864
Menessier, Joseph E., Paris, France. Variable-speed and reversing gear for motor-cars, tools, or other apparatus	714,504	Nov. 25	3954	876	101	1760
Menns, Albert W., Revere, and A. T. Van Horn, Malden, Mass., assignors to Menns-Van Horn Motor Company, Portland, Me., and Boston, Mass. Engine-support	709,445	Sept. 16	2779	625 626	100	2586
Menns-Van Horn Motor Company. (See Menns and Van Horn, assignors.)						
Mensching, Carl. (See Levinstein and Mensching.)						
Mensing, Louis C. H., London, England. Electric arc lamp	712,947	Nov. 4	921	213 214	101	1085
Mentwig, Otto, Neustadt, Germany. Box of building material	707,446	Aug. 19	2750	622 623	100	1716
Mentzer, John P., assignor to Atkinson & Mentzer, Chicago, Ill. Ink-well	706,329	Aug. 5	635	142	100	1247
Menz, Rudolph, Adelaide, South Australia. Cooling safe or chamber	691,401	Jan. 21	1978	443 444	98	447
Menzie, Harry R., and J. E. Rogers, Minneapolis, Minn. Lantern	717,012	Dec. 30	4712	1051	101	2894
Menzies, James, London, England. Waterproofing fabrics	690,808	Jan. 7	942	192	98	198
Menzies, Robert C., Musselburgh, Scotland. Bleaching paper-pulp	714,216	Nov. 25	3432	755	101	1657
Menzies, William G., Plumstead, England. Safety-brake for elevator cars or lifts	717,240	Dec. 30	5163	1119	101	2992
Mercatoris, Morris. (See Saum and Mercatoris.)						
Mercer, Frank L., Columbus, Ohio. Bag or wrapper printing device	697,513	Apr. 15	2111	468	99	488
Mercer, William H., Portland, Oreg. Office-indicator	717,241	Dec. 30	5165	1119	101	2992
Merches, Nicholas, Oldham, S. D. Draft attachment	706,248	Aug. 5	470	100	100	1211
Mercic, Henri A. (See Bené and Mercic.)						
Merck, Firm of E. (See Blum, Ferdinand, assignor.)						
Merck, Firm of E. (See Smith, Watson, assignor.)						
Merck, Walter B., Ocala, Fla. Horseshoe	711,063	Oct. 14	1276	277	101	278
Meredith, Charles T., San Diego, Cal. Music-chart	714,316	Nov. 25	3624	798	101	1696
Meredith, Washington, Cincinnati, Ohio, assignor of one-half to D. G. Coppin, Newport, Ky. Valve	715,108	Dec. 2	884	189	101	2017



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Mergenthaler Linotype Co. (See Bates, George A., assignor.)						
Mergenthaler Linotype Co. (See Daley, Daniel F., assignor.)						
Mergenthaler Linotype Company. (See Bean, Alfred, assignor.)						
Mergenthaler Linotype Company. (See Cotsworth, Alfred G., assignor.)						
Mergenthaler Linotype Company. (See Dodge, Philip T., assignor.)						
Mergenthaler Linotype Company. (See Elliott and Hollivell, assignors.)						
Mergenthaler Linotype Company. (See Hollivell, Charles, assignor.)						
Mergenthaler Linotype Company. (See Place and Lewis, assignors.)						
Mergenthaler Linotype Company. (See Rogers, John R., assignor.)						
Mergenthaler Linotype Company. (See Whittaker, Matthew H., assignor.)						
Mergenthaler, Marie H., and A. Selkirk, Albany, N. Y. Device for connecting wearing articles to each other	714,317	Nov. 25	3024	799	101	1696
Mergenthaler, Ottmar, deceased, (Safe Deposit and Trust Company of Baltimore City and A. Greenleaf, executors) and W. T. Hooftagle; said Hooftagle assignor to Ott. Mergenthaler Linotype Company, Baltimore, Md. Linotype-machine	707,645	Aug. 28	3154	709	100	1816
Meridith, J. E. (See Kennedy, Erastus L., assignor.)						
Meriwether, Charles S. (See Mansfield, William, assignor.)						
Merkel, James, Weathersville, Ohio. Feathering paddle-wheel	701,595	June 3	571	125	99	2227
Merkel, James B., Hattiesburg, Miss. Window-shade hanger	708,156	Sept. 2	291	70	100	2041
Merker, William, New York, N. Y. Swing	693,040	Feb. 11	1510	328 329	98	1137
Merkert, Ernst, Kertzdorf, near Lauban, Germany. Device for forming continuous rolls of tobacco	711,639	Oct. 21	2385	524	101	526
Merle, George, Brooklyn, N. Y. Fish-trap	708,380	Sept. 2	685	154	100	2120
Merley, Adam J. (See Warstler, Levi, assignor.)						
Merley, Nicholas, Canton, Ohio. Building-block die	708,725	Sept. 9	1316	300	100	2260
Merlin, Sidney L. W., Paris, France. Type-writing machine	708,821	Sept. 9	1521	348	100	2304
Merling, Georg, Frankfort-on-the-Main, assignor to Farbwerke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Trimethyl hexahydroöxybenzylanilin and making same	691,157	Jan. 14	1463		98	320
Merling, Georg, Frankfort-on-the-Main, assignor to Farbwerke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Hydrobenzaldehyde and making same	714,931	Dec. 2	583		101	1952
Mern, John P., Brooklyn, N. Y. Hydrant-cap	694,170	Feb. 25	3740	826	98	1628
Merralls, William A., San Francisco, Cal. Stamp-mill mortar	709,104	Sept. 16	2104	482	100	2444
Merrick, Frank A., Johnstown, assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Electric switch	706,581	Aug. 12	1129	249	100	1360
Merrick, Frank A., Johnstown, assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Trolley	709,168	Sept. 16	2230	507	100	2469
Merrick, Frank A., Johnstown, assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Circuit-breaker	709,232	Sept. 16	2348	532	100	2494
Merrick, Frank A., and J. D. Forrer, Johnstown, Pa., assignors to Lorain Steel Company. Circuit-breaker	693,416	Feb. 18	2273	497 498	98	1313
Merrick, Frank A., and J. D. Forrer, Johnstown, assignors, by mesne assignments, to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Operating mechanism for motor-controllers	708,724	Sept. 9	1314	300	100	2260
Merrick, Frank A., and E. W. Stull, Johnstown, Pa., assignors to Lorain Steel Company. Control of electric motors	702,981	June 24	3137	732	99	2809
Merrick, Frank A., and E. W. Stull, Johnstown, Pa., assignors to Lorain Steel Company. Controller for electric motors	708,157	Sept. 2	292	70	100	2042
Merrick, Frank A., and E. W. Stull, Johnstown, assignors, by mesne assignments, to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Controller for electric motors	708,158	Sept. 2	295	71	100	2043
Merrick, Frank W., Boston, Mass. Sewing-machine needle	703,941	July 1	1041	226	100	207
Merrick, Frank W., Boston, Mass. Take-up for sewing-machines	707,145	Aug. 19	2189	490 491	100	1598
Merrick, Frank W., Boston, Mass. Photographic camera	711,064	Oct. 14	1276	277	101	278
Merrick, Hugh, and A. E. Burnett, Jr., Cincinnati, Ohio. Overflow attachment for bathtubs or the like	706,983	Oct. 12	1878	420	100	1517
Merrifield, Leonard L., assignor to E. J. Checkley, trustee, and Economical Gas Apparatus Construction Company, Limited, Toronto, Canada. Gas-producer	707,146	Aug. 19	2193	491 492	100	1599
Merrifield, Leonard L., assignor to E. J. Checkley and Economical Gas Apparatus Construction Company, Limited, Toronto, Canada. Producing gas from peat	716,455	Dec. 23	3519	769 770	101	2617
Merrill, Alvin M., Brooklyn, N. Y. Safety attachment for gas-cocks	705,419	July 22	4022	872	100	864
Merrill, Bela G. (See Turk and Merrill.)						
Merrill, Bela G. (See Turk and Merrill.)						
Merrill, Bela G. (See Turk and Merrill.)						
Merrill, Bela G. (See Turk and Merrill.)						
Merrill, Benjamin J. (See Henry, Edward G., assignor.)						
Merrill, Charles A. and F. L. Nora Springs, Iowa. Mail-bag fastener	715,495	Dec. 9	1606	347	101	2182
Merrill, Charles E., et al. (See Moore, Frank M., assignor.)						
Merrill, Emerson C., New York, N. Y. Toboggan-slide	702,982	June 24	3142	722	99	2810
Merrill, Frank H., Plainfield, and F. Hickman, Danbury, N. J. Acetylene-gas generator	698,732	Apr. 29	4422	975 976	99	1001
Merrill, Frank L. (See Merrill, Charles A. and F. L.)						
Merrill, George N. (See Johnston and Merrill.)						
Merrill, Harrison W., et al. (See Pratt, Charles C., assignor.)						
Merriman Mattress Manufacturing Company. (See Hutchison and Leighton, assignors.)						
Merriman, Alvin F., Jr., Oakland, Cal. Dental obtunder	696,652	Apr. 1	465	108	99	100
Merriman, Alvin F., Jr., Oakland, assignor of one-half to J. W. Edwards, San Francisco, Cal. Hot-water obtunder handpiece	712,701	Nov. 4	434	102	101	987
Merriman, George and H. Allegheny, Pa., assignors to Toledo Asphalt Patcher Company. Portable asphalt-paving plant	711,327	Oct. 14	1794	388 389	101	388
Merriman, George and H. Toledo, Ohio, assignors to Toledo Asphalt Patcher Company. Sand-drier	711,328	Oct. 14	1796	389	101	389
Merriman, Herman. (See Merriman, George and H.)						
Merriman, Leonard J. (See Ivanhoe, N. C. Plant-protector.)						
Merritt, Arthur A. (See Onderdonk and Merritt.)						
Merritt, George M., Newark, N. J., assignor to L. Schlesinger, Milwaukee, Wis. Check-punch	707,247	Aug. 19	2380	533	100	1639
Merritt, James S., Philadelphia, Pa. Slide-scale	713,323	Nov. 11	1679	378	101	1257
Merritt, Louis G., Lockport, N. Y. Veneer-cutting machine	703,437	July 1	125	28	100	27
Merritt, Louis G., Lockport, N. Y. Veneer-cutting machine	699,545	May 6	779	184	99	1335
Merritt, Louis G., Lockport, N. Y. Veneer-cutting machine	699,546	May 6	780	184 185	99	1337
Merritt, Louis G., Lockport, N. Y. Lathe	699,547	May 6	788	185 186	99	1338
Merritt, Louis G., Lockport, N. Y. Veneer-cutting machine	706,381	Aug. 5	657	143	100	1248
Mersfelder, William L., Norwood, Ohio. Burner for burning coal-oil or other similar hydrocarbons	716,918	Dec. 30	4320	980	101	2854

*Alphabetical list of patentees—Continued.*

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Mershon, Edward C., East Saginaw, Mich. Planer-bed.	693,559	Feb. 18	2389	550	98	1368
Mersing, Arthur G., Thomas, W. Va. Pipe-coupling.	716,290	Dec. 16	3130	686	101	2521
Mersinger, John B., et al. (See Leighton, Joseph, assignor.)						
Mertens, Frederick, et al. (See Nelson, William H., assignor.)						
Merton, Albert J., Kansas City, Mo. Display-stand.	716,261	Dec. 16	3130	686	101	2521
Merton, Thomas D., Spottiswoode, Victoria, Australia. Ore-roasting furnace.	697,863	Apr. 15	2761	612	99	619
Mertz, Henry J., Beardstown, Ill. Nut-lock.	695,941	Nov. 28	2990	675	98	2384
Mertz, Lewis, Geneseo, Ill. Box-lid holder.	712,702	Nov. 4	435	102	101	987
Mervin, Charles B., assignor of one-half to J. M. Bell. Markato, Kans. Door-catch.	704,651	July 15	2392	517	100	516
Mertz Capsule Company. (See Heineman, Solomon E., assignor.)						
Mesick, Charles W., Chicago, Ill. Supporting means for garments.	698,037	Apr. 22	3070	676	99	770
Meslans, Maurice, Paris, France. Apparatus for producing fluorin.	692,688	Feb. 4	830	190	98	971
Messer, Miller, Mount Pleasant, Iowa. Adjustable metallic screen-frame.	690,569	Jan. 7	450	96	98	96
Messer, William F., assignor to Lambert Company, Chicago, Ill. Apparatus for reproducing phonograms.	705,772	July 29	4744	1027	100	1019
Messier, Edwin H., San Luis Potosi, Mexico. Furnace-twyer.	706,332	Aug. 5	659	143	101	1248
Messler, Eugene L. (See Mann and Neemes, assignors.)						
Messmann, Helmut, (See Jansen and Messmann.)						
Messner, David A. (See Downie and Messner.)						
Messner, Oskar, Berlin, Germany. Taking-up apparatus for kinetographs.	698,125	Apr. 22	3265	715	99	741
Mészáros, Alexander, Székesfehérvár, Austria-Hungary. Preserving organic substances.	691,042	Jan. 21	1980	444	98	447
Metal Dust Guard Company of Baltimore City. (See Fatten, James S., assignor.)						
Metal Plated Car and Lumber Company. (See Appleyard, William F., assignor.)						
Metal Stamping Company. (See Worrest, Alfred H., assignor.)						
Metallic Condense Company. (See McKnight, Robert, assignor.)						
Metallic Heel and Counter Company. (See Gordon and Warren, assignors.)						
Metallic Heel and Counter Company. (See Warren, George E., assignor.)						
Metallic-Platen-Gesellschaft, M. B. H. (See Abrie, Carl F. H., assignor.)						
Metcalf, Charles E. (See Radcliffe, Thomas D., assignor.)						
Metcalf, Charles W., Tucson, Ariz. Ter. Acetylene-gas generator.	709,344	Sept. 16	2569	579	100	2542
Metcalf, David. (See Hoxie, George L., assignor.)						
Metcalf, Foster M., assignor to American Steam Pump Company, Battlecreek, Mich. Air-compressor valve.	713,661	Nov. 18	2326	519	101	1406
Metcalf, George A., and R. K. Hall, Woonsocket, R. I. Spraying-machine.	694,106	Feb. 25	3606	798	98	1601
Metcalf, Joseph, et al. (See Pratt, Charles C., assignor.)	700,964	May 27	3606	829	99	1967
Metcalf, James C. (See Metcalfe, Richard D. and J. C.)						
Metcalf, John, and T. Bell, Roscoe, Pa. Thread-holder.	695,332	Mar. 11	1875	417	98	2122
Metcalf, John, and T. Bell, Roscoe, Pa. Cable-grip.	698,842	Apr. 29	4691	1033	99	1064
Metcalf, John T., Quincy, Pa. Igniter for explosive-engines.	691,561	Jan. 21	2243	505	98	502
Metcalf, John T., Quincy, Pa. Spray-pump for explosive-engines.	701,069	May 27	8203	506	99	2010
Metcalf, Richard D. and J. C., Manchester, England. Injector.	714,217	Nov. 25	3433	755	101	1657
Metcalf, Thomas L. (See Martin, Van Buren, assignor.)						
Metteven, Angus A., Minneapolis, Minn. Rotary engine.	711,730	Oct. 21	2567	565	101	566
Mette, William W., Aiken, S. C. Vehicle attachment.	715,100	Dec. 2	896	189	101	2018
Metterhausen, Carl, Chicago, Ill. Brake mechanism for vehicles.	710,877	Oct. 7	907	197	101	184
Mettewie, Louis, L. Rochet, and A. Beek, assignors to La Société Anonyme de Machines Industrielles, Brussels, Belgium. Match-box-filling machine.	697,514	Apr. 15	2113	470 471 472	99	483
Mettler, Adolf. (See Mettler, Caspar W. and A.)						
Mettler, Caspar W., Hartford, and F. C. Rockwell, West Hartford, Conn. Portable stove.	717,242	Dec. 30	5166	1120	101	2993
Mettler, Caspar W., and A., Hartford, assignors to F. C. Rockwell, West Hartford, Conn. Spinning device.	696,900	Apr. 8	1165	220	99	267
Metz, Andrew, assignor to A. Metz & Company, Chicago, Ill. Balanced puppet-valve.	690,979	Jan. 14	1163	263	98	268
Metz & Company, A. (See Metz, Andrew, assignor.)						
Metz, Frank C., Allegheny, Pa. Screw-propeller.	691,792	Jan. 28	2716	610	98	618
Metz, Herman A. (See Fourneauux, Emile A., assignor.)						
Metzger, Isbn, Winfield, Iowa. Journal-bearing.	697,864	Apr. 15	2762	612	99	619
Metzger, Isbn, Winfield, Iowa. Journal-bearing.	707,147	Aug. 19	2196	492	100	1599
Meulemeester, Emile De, Brussels, assignor to Force, Société Anonyme, Antwerp, Belgium. Preparation of yeast.	717,519	Dec. 30	5649		101	3092
Meurant, Jules, Liege, Belgium. Electrolytic process.	694,658	Mar. 4	617		98	1843
Meuser, William L., Anson, Kans. Eaves-trough protector.	706,333	Aug. 5	662	144	100	1249
Mevis, George B., et al. (See Mitchell, James E., assignor.)						
Meyenborg, August. (See Bennett and Thatcher, assignors.)						
Meyer, August, Milwaukee, Wis. (See Jahuz, Ervin H., assignor.)						
Meyer, Arthur, Geneva, Switzerland. Cartridge-belt.	691,403	Jan. 21	1981	444	98	448
Meyer, August F., Buffalo, N. Y. Means for supporting pipe-coils for liquid-cooling boxes.	714,218	Nov. 25	3435	756	101	1658
Meyer, Dominick J., Allegheny, Pa. Metallic railway-tie and rail-fastening.	692,689	Feb. 4	841	191	98	972
Meyer, Edwin O. (See Euker, George W., assignor.)						
Meyer, Elizabeth, Springfield, Vt. Puzzle or game apparatus.	705,269	Apr. 22	3706	804	100	798
Meyer, Emil, assignor of one-half to J. M. A. Millhagen, Jersey City, N. J. Electrical clock.	698,985	Jan. 29	4930	1090	99	1113
Meyer, Francis T., Montclair, N. J., assignor to Meyer-Sniffen Company, Limited, New York, N. Y. Waste-fixture for bath-tubs or the like.	704,705	July 15	2481	535	100	535
Meyer, Frank, Paterson, N. J. Braiding-machine.	695,469	Mar. 18	2119	477	98	2193
Meyer, Frederick W., Louisville, Ky. Flushing-valve.	694,107	Feb. 25	3608	798	98	1602
Meyer, George, New York, N. Y. Apparatus for securing rubber tires to wheels.	693,879	Feb. 25	3160	699	98	1512
Meyer, George, assignor to E. A. Atkins & Company, Indianapolis, Ind. Butcher's saw.	701,896	June 3	151	32	99	2189
Meyer, George C., Milwaukee, Wis. Wood-working machine.	708,060	Sept. 2	115	27	100	2005
Meyer, George J., Milwaukee, Wis., assignor to Gould & Eberhardt, Newark, N. J. Cross-head feed for shaping-machines.	715,832	Dec. 16	2962	504	101	2337
Meyer, Henry, St. Louis, Mo. Swinging door.	708,966	Sept. 9	1801	414	100	2362
Meyer, Henry A., Cincinnati, Ohio. Motor-driven device or mechanism.	702,371	June 10	1948	443	99	2524
Meyer, Henry A., assignor to Wolf Electrical Promoting Company, Cincinnati, Ohio. Machine for cutting and grinding.	701,910	June 10	1122	257	99	2359
Meyer, Henry L., assignor of two-thirds to J. F. Donnell and G. O. Biedermann, Festus, Mo. Combined rolling-pin, potato-masher, and biscuit-cutter.	694,066	Feb. 25	3342	781	98	1389
Meyer, John. (See Vanderoock, Frank E., assignor.)						
Meyer, John, Yuton, Ill. Gate.	709,548	Sept. 23	3024	672	100	2649
Meyer, John A., San Francisco, Cal. Crude-oil burner.	703,706	July 1	611	136	100	121
Meyer, John B. (See Miller, George J., assignor.)						
Meyer, John C. W., St. Louis, Mo. Counter measuring device.	714,219	Nov. 25	3436	756	101	1658
Meyer, John E., New York, N. Y. Wine-cooler.	705,270	July 22	3707	804	100	799
Meyer, Oluf E., Milwaukee, Wis. Marine propulsion.	713,785	Nov. 18	2555	569	101	1185



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Meyer, Otto, Richmond, Va. Electrolytic solution .....	691,158	Jan. 11	1468		98	320
Meyer, Otto G. (See Meyer, William and O. G.)						
Meyer, Ralph J., assignor of one-half to L. S. and J. S. Doddridge and J. B. Dowd, Red-cliff, Colo. Mail-bag catching and delivering mechanism .....	703,074	June 24	3313	762	99	2843
Meyer, Richard, et al. (See English, Edwin E., assignor.)						
Meyer, Richard E., Detroit, Mich. Jar-closure .....	711,452	Oct. 14	2024	439	101	436
Meyer, Rudolf, Mulheim-on-the-Ruhr, Germany. Valve .....	711,780	Oct. 21	2966	588	101	586
Meyer-Sniffen Company. (See Meyer, Francis T., assignor.)						
Meyer, Svend M., Brooklyn, N. Y. Device for lighting lamps by electricity .....	705,773	July 29	4747	1028	100	1020
Meyer, Svend M., assignor of one-half to F. C. Kohart, Brooklyn, N. Y. Electric-arc lamp .....	693,041	Feb. 11	1511	329	98	1137
Meyer, Svend M., assignor of one-half to F. C. Kohart, Brooklyn, N. Y. Electric-arc lamp .....	693,063	Feb. 18	2740	606	98	1410
Meyer, Theodor, Buergei, assignor to K. Oehler, Anilin- & Anilinfarben-Fabrik, Offenbach-on-the-Main, Germany. Making hydrogen chloride and sodium sulfate .....	702,877	June 17	2917		99	2747
Meyer, William, assignor to Stromberg-Carlson Telephone Manufacturing Company, Chicago, Ill. Switchboard apparatus .....	698,038	Apr. 22	3071	676	99	701
Meyer, William and O. G., Sheboygan, Wis. Rule .....	696,687	Apr. 1	547	125	99	119
Meyer, William C. (See French and Meyer.)						
Meyers, Henry. (See Stumpf, Emil, assignor.)						
Meyers, Henry E., Butte, Mont. Portable electric welding-machine .....	691,404	Jan. 21	1982	444	98	443
Meyers, Henry E., Butte, Mont. Incandescent lamp .....	708,159	Sept. 2	297	71	100	2043
Meyers, John C., Centerville, Mich. Bob-sled .....	696,901	Apr. 8	1166	260	99	268
Meygret, Achille, Paris, France. Making plates for storage batteries .....	698,030	Apr. 22	3073	677	99	701
Meyncke, William C., Buffalo, N. Y. Can-opener .....	702,228	June 10	1703	384	99	2475
Meyrick-Jones, Leonard M., East Dereham, England. Motor attachment for cycles .....	709,549	Sept. 23	3026	673	100	2649
Meyrick-Jones, Leonard M., East Dereham, England. Motor attachment for cycles .....	709,550	Sept. 23	3026	674	100	2649
Meyrowitz, Emil B., New York, N. Y., assignor to Meyrowitz Manufacturing Co. Electrical tap-socket .....	699,205	May 6	136	34, 35	99	1203
Meyrowitz, Emil B., New York, N. Y., assignor to Meyrowitz Manufacturing Company. Ophthalmoscope .....	709,790	Sept. 23	3462	780	100	2739
Meyrowitz, Emil B., assignor to Meyrowitz Manufacturing Company, New York, N. Y. Eyeglass nose-guard .....	710,594	Oct. 7	382	80	101	76
Meyrowitz Manufacturing Company. (See Meyrowitz, Emil B., assignor.)						
Mezger, Charles A., assignor to M. Mezger, Brooklyn, N. Y. Sparking-plug .....	700,147	May 13	1989	456	99	1594
Mezger, Minnie. (See Mezger, Charles A., assignor.)						
Michael, Clement W., assignor to Stoddard Manufacturing Company, Dayton, Ohio. Corn-planter .....	712,564	Nov. 4	202	47, 48	101	939
Michael, William B., Chattanooga, Tenn. Scraper for reversible-disk plows .....	693,042	Feb. 11	1514	329	98	1137
Michael, William B., Chattanooga, Tenn. Adjusting device for wheel-plows .....	710,987	Oct. 14	1110	245	101	243
Michaelis, Karl, Charlottenburg, Germany. Magazine plate-holder .....	711,515	Oct. 21	2151	467	101	477
Michaelis, Moses, New York, N. Y. Telephone call-list .....	701,596	June 3	574	125	99	2228
Michaely, Peter. (See Stemper, John F., assignor.)						
Michailoff, Ssemom, Odessa, Russia. Casting-mold .....	694,566	Mar. 4	452	97	98	1809
Michailoff, Ssemom, Odessa, Russia. Casting solid or hollow circular bodies .....	698,531	Apr. 29	3996	881	99	907
Michalka, Joseph, Cameron, Tex. Shovel-plow .....	698,303	Apr. 22	3586	791	99	808
Michalka, Joseph, Cameron, Tex. Plow .....	703,803	July 1	790	174	100	159
Michalke, Carl, Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Switching apparatus .....	704,202	July 8	1573	389	100	329
Michalke, Carl J. A., Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. System of electric distribution .....	704,484	July 8	2092	453	100	489
Michalowski, Titus von. (See Laszczyński, Stanislaw, assignor.)						
Michalski, John F., Chicago, Ill. Arch for boiler-furnaces .....	697,737	Apr. 15	2523	562	99	565
Michaud, Jane M., La Garita, Colo. Floor-mop .....	716,262	Dec. 16	3131	686	101	2522
Michaud, Onesime E., St. Louis, Mo. Clothes-washing machine .....	715,496	Dec. 9	1607	348	101	2182
Michaux, Henry, New York, N. Y. Knife-cleaning machine .....	706,677	Aug. 12	1313	290	100	1400
Michel, Albert J., Scranton, Pa. Car-replacer .....	698,986	Apr. 29	4932	1091	99	1113
Michel, Leonard, Brooklyn, N. Y. System of ventilating the fermenting-rooms of breweries .....	710,731	Oct. 7	762	163	101	156
Michelson, Hans A., Duluth, Minn., assignor to Belmont Stable Supply Company, Brooklyn, N. Y. Device for holding blocks of compressed salt or feed for cattle .....	711,170	Oct. 14	1493	322	101	325
Michelstädter, Heinrich, and H. Christian, Vienna, Austria-Hungary. Shoe-straining device .....	700,065	May 13	1802	418	99	1559
Michener, William B., Oakland, Cal. Check-valve .....	704,537	July 15	2243	486	100	484
Micheroux, Albert D. de, Marseilles, France. Manufacturing artificial fuel-blocks .....	711,995	Oct. 28	3108		101	695
Michigan Malleable Iron Co. et al. (See Handiges, Philip T., assignor.)						
Michigan Specialty Company. (See Hodges, Chauncy W., assignor.)						
Michigan Steel Boat Company. (See Bullard and Chambers, assignors.)						
Michigan Steel Boat Company. (See Chambers and Bullard, assignors.)						
Michigan Stove Company. (See Keep, William J., assignor.)						
Michigan Washing Machine Company. (See Howe, Eugene L., assignor.)						
Mickle, Philip, Troy, N. Y. Fiber-croser .....	698,304	Apr. 22	3588	791	99	809
Middlebrook, William D., assignor to Oakville Company, Waterbury, Conn. Machine for sticking safety-pins .....	693,978	Feb. 25	3370	739 740	98	1554
Middlebrooks, Thaddeus J., Pinckard, Ala. Tie structure .....	713,235	Nov. 11	1460	331	101	1213
Middleton, George W., assignor of one-half to J. J. Serr, Corunna, Mich. Removable boiler-flue .....	692,298	Feb. 11	2042	445	98	1243
Midgley Manufacturing Company. (See Midgley, Thomas, assignor.)						
Midgley, Thomas, assignor to Midgley Manufacturing Company, Columbus, Ohio. Metallic vehicle-wheel .....	713,786	Nov. 18	2556	599 570	101	1456
Miehle, Robert, Chicago, Ill. Fly-finger for printing-presses .....	693,043	Feb. 11	1515	330	98	1138
Miehle, Robert, Chicago, Ill. Offset mechanism for printing-presses .....	693,044	Feb. 11	1516	330	98	1138
Miehle, Robert, Chicago, Ill. Printing-press .....	703,438	July 1	128	29	100	28
Miehle, Robert, Chicago, Ill. Gripper mechanism for printing-presses .....	703,005	July 1	406	95	100	80
Mielek, Heinrich, New York, N. Y., assignor to Mielek's Stone and Terra Cotta Company. Composition for artificial stone .....	711,251	Oct. 14	1655		101	350
Mielek, Heinrich, New York, N. Y., assignor to Mielek's Stone and Terra Cotta Company. Preparation of artificial stone .....	711,329	Oct. 14	1798		101	390
Mielek's Stone and Terra Cotta Company. (See Mielek, Heinrich, assignor.)						
Mies, August H., Jr., Badesheim, and A. Cöbenzl, Bingen, Germany. Sensitized material and making same .....	713,474	Nov. 11	1941		101	1313

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Miesse, Americus, assignor of one-half to G. Hall, Lima, Ohio. Rural-delivery box.	713,662	Nov. 18	2327	519	101 1406
Miles, Jonathan B., Reading, Pa. Automatic fire-extinguisher.	711,707	Oct. 21	2521	554	101 555
Mietasch, Otto, Wiesenthal, Germany. Means for automatically coupling or uncoupling trucks.	698,040	Apr. 22	3074	677	99 702
Mietz, August. (See Weiss, Carl W., assignor.)					
Migliardi, Giovanni, Cleveland, Ohio. Cartridge-box.	695,576	Mar. 18	2340	530	98 2238
Miks, Walter, Mayfield, Kans. Band-cutter and feeder.	716,919	Dec. 30	4522	981	101 2854
Milam, Robert H., assignor to P. Harris, Columbus, Ga. Guano-distributor.	698,627	May 6	946	219	99 1370
Milam, Young M., assignor of one-fourth to R. Krause, Lake Charles, La. Syringe.	693,470	Mar. 18	2120	477	98 2193
Milans, Joseph H., Washington, D. C., assignor to Curtin Supply Company, Jersey City, N. J., and Chicago, Ill. Spring-actuated curtain-holding device.	690,980	Jan. 14	1164	268	98 258
Milans, Joseph H., Washington, D. C., assignor to Curtin Supply Company, Jersey City, N. J., and Chicago, Ill. Holding fixture for spring-actuated shades.	693,664	Feb. 18	2747	606	98 1410
Milans, Joseph H., Washington, D. C., assignor to Curtin Supply Company, Jersey City, N. J., and Chicago, Ill. Holding-fixture for curtains or shades.	695,692	Mar. 18	2539	574	98 2277
Milans, Joseph H., Washington, D. C., assignor to Curtin Supply Company, Jersey City, N. J., and Chicago, Ill. Device for holding spring-actuated curtains.	707,609	Aug. 26	3079	698	100 1801
Milbank, Robert. (See Latham, James R., assignor.)					
Milbauer, Joseph. (See Lemcke, Charles F., assignor.)					
Milbern, Horatio P. (See McCrea, William S., assignor.)					
Miles, Charles H. (See Felt, Erick P., assignor.)					
Miles, Eustace H., Cambridge, England. Captive-ball apparatus.	708,573	Sept. 9	1029	232	100 2201
Miles, Frank D. (See Yearont, James A., assignor.)					
Miles, George, Boston, Mass. Drop.	708,726	Sept. 9	1317	300	100 2260
Miles, Henry D., Detroit, Mich., assignor to Union Switch and Signal Company, Swissvale, Pa. Motor for railway devices.	692,690	Feb. 4	842	191	98 972
Miles, Horine, Old Orchard, and C. H. Blanchard, St. Louis, Mo. Thill-coupling.	701,367	June 3	132	32	99 2140
Miles, John W. (See Conover and Miles.)					
Miles, Willis C., Jersey City, N. J. Lock water-closet seat.	697,364	Apr. 8	1643	298	99 370
Miley Colour Photograph Company. (See Miley, Michael and H. M., assignors.)					
Miley, Henry M. (See Miley, Michael and H. M.)					
Miley, Michael and H. M., Lexington, Va., assignors to Miley Colour Photograph Company, New York, N. Y. Color photograph and making same.	711,875	Oct. 21	2851	630	101 626
Milichand, Frederick E., Brooklyn, N. Y. Linotype-galley.	701,368	June 3	133	33	99 2140
Milichon, assignor to American Tool Works Company, Cincinnati, Ohio. Friction-clutch.	709,918	Sept. 30	3734	840	100 2808
Millan, Thomas, Streator, Ill. Tamping-bar.	708,388	June 24	3696	852	99 2620
Millar, Charles W., Columbus, Ohio. Stamp and envelop moistener.	701,911	June 10	1127	257	99 2359
Millar, Robert, Dunedin, New Zealand. Water-motor.	702,577	June 17	2360	330	99 2631
Millard, Alfred. (See Patten, Simon R., assignor.)					
Millard, Fred D. (See Sutherland and Millard.)					
Millard, James W., et al. (See Griffin, Albert B., assignor.)					
Millard, John E., Poughkeepsie, N. Y. Motor-vehicle.	712,829	Nov. 4	681	158	101 1037
Millea, John D., et al. (See Clinton, John, assignor.)					
Millea, Thomas D., et al. (See Clinton, John, assignor.)					
Millea, Thomas D., Springfield, Mass., assignor to Springfield Engine Stop Company, New York, N. Y. Stop mechanism for engines.	694,877	Mar. 4	1042	1230	98 1932
Millea, Thomas D., Springfield, Mass., assignor to Springfield Engine Stop Company, New York, N. Y. Shut-off device for motors.	702,109	June 10	1496	337	99 2433
Miller, A. R. T., St. Clair Heights, Mich. Cigar-cutter and match-igniter.	710,792	Oct. 7	763	163	101 156
Miller, Adam H., assignor to Shaw Walker Company, Muskegon, Mich. Card-index-filing tray.	701,752	June 3	848	187	99 2286
Miller, Adolph N., North Milwaukee, Wis. Bicycle.	695,164	Mar. 11	1591	353	98 2065
Miller, Albert, et al. (See Carson, George C., assignor.)	701,912	June 10	1127	258	99 2360
Miller, Albert W. (See Bryan, Edgar J., assignor.)					
Miller, Albert W., W. South Orange, N. J., assignor to American Electric Company. Incandescent electric lamp.	708,653	Sept. 9	1172	267	100 2230
Miller, Alexander C. (See Price and Miller.)					
Miller, Alexander H., and F. A. England, Philadelphia, Pa. Grocer's bin.	708,822	Sept. 9	1523	349	100 2304
Miller, Alma C., McKeesport, Pa. Window-curtain bracket.	708,351	Sept. 2	686	154	100 2120
Miller, Ananias D. (See McCormick and Miller.)					
Miller, Ananias D., Mount Pleasant, Pa. Fluxing and separating compound.	700,529	May 20	2779	—	99 1779
Miller, Ananias D., Mount Pleasant, Pa. Treating ores.	700,530	May 20	2780	635	99 1779
Miller, Anderson, Shelbyville, Ind. Lifting-gate.	706,984	Aug. 12	1880	421	100 1517
Miller, Anne E. (See Miller, Frederick S. and A. E.)					
Miller, Arthur C., Newton, Mass. Honeycomb-uncapping machine.	711,223	Oct. 14	1601	943	101 347
Miller, Arthur K., New York, N. Y. Acetylene-gas lamp.	710,203	Sept. 30	4295	965	100 2928
Miller, Arthur K., Waterbury, Conn. Acetylene-gas lamp.	710,204	Sept. 30	4299	967	100 2929
Miller, Arthur P. (See Miller, Harry S., A. P., and W. F.)					
Miller, Athol M. (See Dunn, William A., assignor.)					
Miller, August, St. Louis, Mo. Grain-car door.	695,165	Mar. 11	1592	353	98 2066
Miller, August, et al. (See Bokop, Henry D., assignor.)					
Miller, August F., et al. (See Weaver, Cornelius, assignor.)					
Miller, August J. F., assignor of one-half to C. P. Marshall, Centralia, Ill. Furnace.	695,750	Mar. 18	2639	598	98 2297
Miller, Benjamin F. D., assignor to F. Herman and C. C. Adams, Wooster, Ohio. Music-leaf turner.	699,548	May 6	793	186	99 1339
Miller and Brother, James A. (See Erickson and Miller, assignors.)					
Miller, Carl F., Janesville, Wis. Fountain-pen.	708,572	Sept. 9	1028	232	100 2201
Miller, Carl E. M., Newton, and F. D. Masterson, assignors to Chase-Shawmut Company, Boston, Mass. Junction-box.	716,643	Dec. 23	3905	853	101 2699
Miller, Carl O. H., Williamsport, Pa. Rail-joint.	715,110	Dec. 2	887	189	101 2018
Miller, Charles, Binghamton, N. Y. Cushion-tire.	710,595	Oct. 7	384	80,81	101 76
Miller, Charles A., et al. (See Cahill, Thomas H., assignor.)					
Miller, Charles A., Marshalltown, Iowa. Elliptical spring.	697,865	Apr. 15	2763	612	99 620
Miller, Charles A., Reading, Pa. Adjustable ratchet device.	698,212	Apr. 22	4347	754	99 778
Miller, Charles J., Philadelphia, Pa. Finishing the surface of leather.	702,450	June 17	2119	481	99 2381
Miller, Charles J., Minneapolis, Minn. Store-service apparatus.	712,398	Oct. 28	3831	837	101 843
Miller, Charles S., and E. C. Austin, Hampton, Nebr. Running-gear for traction-engines and tenders.	711,330	Oct. 14	1799	390	101 390
Miller, Conrad, Leadville, Colo. Sled.	705,943	July 29	5045	1099	100 1080
Miller, Daniel W. (See Pugh, Jesse H., assignor.)					
Miller, Darwin V., Weedsport, N. Y. Nest for hens, &c.	701,494	June 3	386	87	99 2187



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Miller, David N. (See Wheeler, Samuel D., assignor.)						
Miller, Du Brul and Peters Manufacturing Co. (See Du Brul, Cyriac and L. J., assignors.)						
Miller, Du Brul & Peters Manufacturing Company. (See Follows, George H., assignor.)						
Miller, Duncan N., Hamilton, Canada. Railway-car sander.	710,489	Oct. 7	173	37	101	37
Miller, Edward F., Lanark, Ill. Washing-machine.	704,071	July 8	1313	286	100	275
Miller, Edwin L., Williamsport Pa. Folding money holder or envelop.	709,496	Sept. 23	2916	650	100	2627
Miller, Edwin W., Ottawa, Kans. Governor for band-cutters and feeders.	714,932	Dec. 2	559	123	101	1952
Miller, Francis J., Washington, D. C. Door-check.	690,600	Jan. 7	450	96	98	97
Miller, Frank C., Attleboro, Mass. Lock.	711,516	Oct. 21	2152	469	101	477
Miller, Frank P., Downingtown, Pa. Beating-engine.	706,985	Aug. 12	1881	421	100	1517
Miller, Frederic S., deceased, Brooklyn; W. B. Davenport, executor, assignor to H. W. Johns Manufacturing Company, New York, N. Y. Roofing material.	690,526	Jan. 7	311	62	98	68
Miller, Frederick C. H. (See Lund, Joel, assignor.)						
Miller, Frederick L., Des Moines, Iowa. Combined cigar tip-cutter and lighter.	711,171	Oct. 14	1494	322	101	325
Miller, Frederick S., and A. E. Chicago, Ill. Shirt-waist holder.	715,833	Dec. 16	3264	504	101	2337
Miller, George C. (See Ruhlman and Miller.)						
Miller, George F. (See Fraley and Miller.)						
Miller, George H., Holyoke, Mass., assignor to American Thread Company, New York, N. Y. Bobbin-carrier.	715,407	Dec. 9	1432	309	101	2148
Miller, George J., assignor of one-half to J. B. Meyer, Baltimore, Md. Rolling-pin.	695,411	Mar. 11	2016	453	98	2153
Miller, George M., Kimball, S. D. Colt or calf weaner.	716,733	Dec. 23	4052	888	101	2730
Miller, Gideon D., Tub, Pa. Traction-engine.	704,652	July 15	2302	517	100	516
Miller, Gideon D., Tub, Pa. Steam-boiler.	704,753	July 15	2577	556	100	553
Miller, H. C., et al. (See Jester, John W., assignor.)						
Miller, Harold L., Pasadena, Cal. Automatically-controlled rheostat for use in electric-motor circuits.	696,065	Mar. 25	3229	780	98	2433
Miller, Harry S., Westfield, Mass. Paper box.	709,345	Sept. 16	2572	580	100	2542
Miller, Harry S., and A. A. Deles Centre, Iowa, and W. F. Miller, Kenmare, N. D. Flexible partitions and means for operating them.	710,490	Oct. 7	174	38	101	37
Miller, Harry W. (See Hammack, Martin V., assignor.)						
Miller, Henry C., Jr., assignor of one-half to P. J. Miller, Hazleton, Pa. Grinding or polishing cone.	691,066	Jan. 14	1320	298	98	290
Miller, Henry J. (See Irwin and Miller.)						
Miller, Henry R. (See Heffley, William, assignor.)						
Miller, Henry S., Norman, Okla. Ter. Fruit-grate.	695,471	Mar. 18	2123	478	98	2193
Miller, Herbert S., and G. C. Marx, Elizabeth, N. J., assignors to Diehl Manufacturing Company. Electric-motor power-transmitting device.	703,942	July 1	1043	226	100	207
Miller, Herman R., Milwaukee, Wis. Photographic instrument.	697,738	Apr. 15	2524	562	99	505
Miller, Irvin R., St. Paul, Minn. Portable propelling device for boats.	712,081	Oct. 28	3277	718	101	727
Miller, Jacob B., assignor of three-fifths to J. A. Meeks, R. M. Ball, W. H. Moreland, and J. Lotz, and W. H. Hickman, Muncie, Ind. Pump-operating mechanism.	691,957	Jan. 28	3009	675	98	677
Miller, Jacob C., Milwaukee, Wis. Metallic packing.	693,046	Feb. 11	1524	332	98	1140
Miller, Jacob W. (See Huber and Miller.)						
Miller, James A., New Haven, Conn. Mechanism for covering bicycle-grips, &c.	706,249	Aug. 5	471	100	100	1212
Miller, James B., Kent, Ohio. Escutcheon-plate.	695,472	Mar. 18	2123	478	98	2193
Miller, James T., Rochester, N. Y. Package for carbon or other thin paper.	704,558	July 15	2244	486	100	485
Miller, John A. (See Bickerstaff, James P., assignor.)						
Miller, John A., Omaha, Nebr. Guiding device for trolleys.	698,305	Apr. 22	3589	791	99	809
Miller, John C., Canton, Ohio. Cooling and aerating device.	700,531	May 20	2782	636	99	1779
Miller, John D., and R. Yates, Coatbridge, Scotland. Apparatus for controlling railway wagons in loading or unloading.	704,354	July 8	1856	401	100	392
Miller, John E., Denver, Colo. Badge-medallion.	702,737	June 17	2556	611	99	2692
Miller, John H., Jr., Irwin, Pa. Gas-producing apparatus.	703,943	July 1	1046	227	100	206
Miller, John K., Wilmington, Del. Leather-working machine.	702,023	Jan. 10	1329	308	99	2308
Miller, John M., Baldwin, Kans. Heating and ventilating apparatus.	692,161	Jan. 28	3376	764	98	750
Miller, John M., Crestline, Kans. Holder for dust-pans, brooms, and dust-brushes.	698,967	Apr. 29	4093	1091	99	1114
Miller, John S., assignor of one-half to J. B. Barrand and H. A. Pequignat, Fort Wayne, Ind. Stave-column.	694,320	Feb. 25	4064	904	98	1687
Miller, John Z., et al. (See Paca, William S., assignor.)						
Miller, Joseph B., Richmond, Ind. Fire-extinguishing compound.	697,641	Apr. 15	2349		99	529
Miller, Kempster B., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Combined jack and drop.	697,515	Apr. 15	2120	472	99	484
Miller, Kempster B., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone-receiver.	717,428	Dec. 30	5494	1192	101	3060
Miller, Kempster B., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone-receiver.	717,429	Dec. 30	5496	1192	101	3060
Miller, Lafayette A., Marion, Ohio. Cistern-filter.	716,794	Dec. 23	4054	888	101	2730
Miller, Lee R., and E. T. Bess, Akron, Ohio. Supporting-bandage.	713,930	Nov. 18	2763	618	101	1504
Miller, Leonard, et al. (See Into, John M., assignor.)						
Miller, Lewis. (See McKim, James T., assignor.)						
Miller, Lewis. (See McKim and Miller.)						
Miller, Lewis, assignor of one-half to J. T. McKim, Thorntown, Ind. Burial-vault and constructing same.	704,899	July 15	2851	618	100	611
Miller, Lewis A., Lake City, Fla. Combined cotton chopper and cultivator.	714,505	Nov. 25	3936	877	101	1760
Miller Lock Company. (See Soley, Frank, assignor.)						
Miller, Lucian O., Cincinnati, Ohio. Trousers-supporter.	706,493	Aug. 5	978	215	100	1314
Miller, Ludvic M., assignor of one-half to G. Marin, Winneconne, Wis. Saw-filing device.	699,206	May 6	138	35	99	1204
Miller, Lula S., Elizabeth, Colo. Package-wrapper.	710,332	Sept. 30	4513	1017	100	2973
Miller, Martin B., Omaha, Nebr. Automatic ice-cooler.	700,148	May 13	1990	457	99	1595
Miller, Martin L., assignor of one-third to W. I. Hill, Sealy, Tex. Cattle-guard.	709,105	Sept. 16	2105	488	100	2444
Miller, Matthew. (See Macke and Miller.)						
Miller, Morton G., Summit Grove, Ind. Speed-regulator.	716,456	Dec. 23	3522	770	101	2617
Miller, Nicholas C., Dodgeville, Wis. Hay-distributor.	691,405	Jan. 21	1983	445	98	448
Miller, Oliver A. (See Batchelder, Charles A., assignor.)						
Miller, Oliver A. (See Brown, Jonathan T., assignor.)						
Miller, Oliver A. (See Reynolds, Jonathan E., assignor.)						
Miller, Peter J. (See Miller, Henry C., Jr., assignor.)						
Miller, Philip S., Seattle, Wash. Plastering-trowel.	696,066	Mar. 25	3231	731	98	2433
Miller, Richard, Appleton, Wis. Car-mover.	710,491	Oct. 7	175	38	101	37
Miller, Robert, Cortland, N. Y. Needle-holder.	697,866	Apr. 15	2764	613	99	630
Miller, Robert B. (See Erickson and Miller.)						
Miller, Robert E., Russellville, Ark. Adjustable gravity-latch.	712,145	Oct. 28	3892	743	101	750
Miller, Robert R., Toledo, Ohio. Boring-machine.	706,582	Aug. 12	1131	250	100	1360

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Miller, Robert W. (See Miller, William H. and R. W.)						
Miller, Samuel, New York, N. Y. Power-transmitter.	700,582	May 20	2783	696	99	1780
Miller, Samuel C., Louisville, Ky. Bottle-filling machine.	711,781	Oct. 21	2697	588	101	586
Miller, Samuel J. (See McCormick and Miller, assignors.)						
Miller, Sidney W., Chicago, Ill. Device for charging or discharging liquid-tanks.	702,066	June 10	1431	332	99	2420
Miller, Sidney W., Chicago, Ill. Liquid distributing or dosing tank and mechanism.	709,293	Sept. 16	2350	532	100	2495
Miller, Sidney W., Chicago, Ill. Automatic siphon.	710,703	Oct. 7	577	121	101	118
Miller Signal Company. (See Price, Jonathan D., assignor.)						
Miller, Stanley G., assignor to J. Wanamaker, Philadelphia, Pa. Time-stamp.	702,229	June 10	1704	384	99	2476
Miller, Stephen S., and L. E. Clough, Akron, Ohio. Machine for smoothing rubber vehicle-tires.	708,967	Sept. 9	1803	414	100	2362
Miller, Tellus T. (See Wilson, James M., assignor.)						
Miller, Thomas B. (See Dravo and Miller.)						
Miller, Thomas O., St. Louis, Mo., assignor of forty-nine one-hundredths to S. J. Wimberly, Houston, Tex. Coin-holder.	693,047	Feb. 11	1526	332	98	1140
Miller, Thomas S. (See Delaney and Miller.)						
Miller, Thomas S., South Orange, N. J. Conveying apparatus.	691,911	Jan. 28	2921	658	98	660
Miller, Thomas S., South Orange, N. J. Conveying apparatus.	710,492	Oct. 7	177	38	101	38
Miller, Thomas S., South Orange, N. J. Hoisting and conveying apparatus.	712,565	Nov. 4	204	48, 49	101	940
Miller, Thomas S., South Orange, N. J. Friction-drum.	715,111	Dec. 2	888	189	101	2018
Miller, Thomas S., South Orange, N. J. Fall-rope-supporting device.	716,457	Dec. 23	3523	770	101	2517
Miller, W. H., et al. (See Mauzer, Eugene N., assignor.)	696,992	Apr. 8	1167	260	99	238
Miller, W. Storm, et al. (See Robert, Clayton, assignor.)						
Miller, Walter H. (See Aylsworth and Miller.)						
Miller, Warren, Murphysboro, Ill. Baling-press.	693,729	Feb. 18	2873	632	98	1486
Miller, Warren, Murphysboro, Ill. Harvester-reel.	710,878	Oct. 7	910	198	101	185
Miller, Worth F. (See Miller, Harry S. A. P., and W. F.)						
Miller, William. (See Atkinson, Henry C., assignor.)						
Miller, William, Falkirk, Scotland. Circular sawing machine.	706,770	Aug. 12	1500	332	100	1439
Miller, William H. and R. W., Henry Clay, Del. Burner-cap.	704,653	July 15	2394	518	100	516
Miller, William N., et al. (See Kreitz, Forrest M., assignor.)						
Miller, Liberty, Hagerman, Idaho. Strengthening clay hydraulic pipe, vases, crockery-ware, &c.	697,642	Apr. 15	2349	524	99	529
Millhagen, John M. A. (See Meyer, Emil, assignor.)						
Millhiser, Charles, Richmond, Va. Implement used in the manufacture of cigars, cheroots, &c.	714,728	Dec. 2	150	30	101	1868
Millhiser, Charles, Richmond, Va. Knife for cutting tobacco-leaves.	714,729	Dec. 2	151	30	101	1868
Millhiser, Clarence, and C. L. A. Doepe, assignors to Millhiser Manufacturing Company, Richmond, Va. Pouch-making machine.	692,887	Feb. 11	1215	269	98	1074
Millhiser, Clarence, and C. L. A. Doepe, assignors to Millhiser Manufacturing Company, Richmond, Va. Pouch-making machine.	693,045	Feb. 11	1519	331	98	1139
Millhiser Manufacturing Company. (See Millhiser and Doepe, assignors.)						
Milligan, James W., and H. Rallings, Birmingham, England. Machine for grinding and polishing steel or other metallic pens.	697,383	Apr. 8	1854	415	99	415
Millikan, Frank A., Warren, Ohio. Chair-support.	702,983	June 24	3143	723	99	2810
Milliken, John A., Flushing, N. Y., assignor to E. Doig, executrix of W. S. Doig, deceased.	691,725	Jan. 21	2557	572	98	568
Millis, Card-cloth.	692,326	Feb. 4	193	44	98	839
Millis, Melvin M., Cooperstown, N. Y. Anticribbing device.						
Millroy, Peter D., Buffalo, assignor to Automatic Trolley Catcher and Controller Company, Syracuse, N. Y. Trolley-controller.	698,532	Apr. 29	3989	882	99	907
Mills, Anson C., Jackson, and G. R. Lamb, Hudson, Mich. Wire-fence machine.	698,533	Apr. 29	3993	883	99	908
Mills, Charles, and R. W. Hunton, assignors to Saco & Pettie Machine Shops, Newton, Mass. Card-cloth.	693,817	Feb. 18	3024	669	98	1467
Mills, Charles J., et al. executors. (See Quimby, Edward E.)						
Mills, Charles W., Rumford Falls, Me. Gas-separator for digesters.	691,958	Jan. 28	3011	676	98	677
Mills, Francis A., assignor of one-half to G. B. Emmons, Methuen, Mass. Picker-stick buffer for looms.	700,965	May 27	3608	880	99	1968
Mills, Francis A., assignor of one-half to G. B. Emmons, Methuen, Mass. Shuttle-lock for looms.	706,190	Aug. 5	367	79	100	1192
Mills, George E., et al. (See Pennington, Edward J., assignor.)						
Mills, Harry New York, N. Y. Rotary engine.	713,663	Nov. 18	2328	520	101	1406
Mills, Henry D., Fishs Eddy, assignor of one-half to P. H. Lawless, Eastbranch, N. Y. Window-screen.	709,346	Sept. 16	2573	580	100	2543
Mills, Herbert S., Chicago, Ill. Blow-testing machine.	710,704	Oct. 7	580	121	101	119
Mills, Herbert S., Chicago, Ill. Blow-testing machine.	710,705	Oct. 7	582	122	101	119
Mills, Herbert S., Chicago, Ill. Door-register for mail-boxes.	713,325	Nov. 11	1633	373	101	1258
Mills, James, Wilmington, Del. Molding-flask.	710,331	Sept. 30	412	1016	100	2973
Mills, John E., Chicago, Ill. Lathe attachment.	697,265	Apr. 8	1644	368	99	370
Mills, John F., Jr. (See Graves, George W., assignor.)						
Mills, John F., Jr. (See Graves and Mills.)						
Mills, John F., Jr., and C. Freund, Jr., Port Chester, N. Y. Mail catcher and deliverer.	694,878	Mar. 4	1045	232	98	1933
Mills, Matthew W. (See Scott, Mills, and Ormerod.)						
Mills, Mortimer B., Chicago, Ill. Permutation-lock.	712,830	Nov. 4	684	159	101	1038
Mills, Mortimer B., Chicago, Ill. Vending-machine.	713,324	Nov. 11	1631	378	101	1257
Mills, Robert W., Benton Harbor, Mich. Music-rack.	696,993	Apr. 8	1168	281	99	268
Milne, Wand A., Osceola, Nebr. Hand tenoning-machine.	707,889	Aug. 26	3630	818	100	1910
Mills, Warren F., assignor of one-half to J. H. Bennett, San Francisco, Cal. Device for loading vessels.	712,948	Nov. 4	922	214	101	1085
Mills, William, assignor to Eastern Carbon Works, Jersey City, N. J. Carbon brush and making same.	701,369	June 3	154	33	99	2140
Milmine, Alfred. (See Huber and Milmine.)						
Milne, William A., Brown's Corners, Canada. Peat-press.	708,574	Sept. 9	1030	232	100	2201
Milne, William A., Brown's Corners, Canada. Peat-drier.	713,128	Nov. 11	1260	236	101	1173
Milne, William A., Brown's Corners, Canada. Peat-collecting machine.	713,129	Nov. 11	1261	286	101	1173
Milner, Albert R., assignor to A. R. Milner Seating Co., Canal Dover, Ohio. Folding opera-chair.	702,451	June 17	2120	481	99	2581
Milner, Henry K., Birmingham, Ala. Automatic fire-extinguisher.	691,233	Jan. 14	1710	357	98	372



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Milner, Henry K., and J. M. Lansden, Jr., Birmingham, Ala. Transmission-frame for automobiles	717,430	Dec. 30	5498	1192 (1193)	101	3061
Milner, J. K. (See Watkins, Orla H., assignor.)						
Milner, Thomas J., Denver, Colo. Conduit	701,214	May 27	4064	934	99	2065
Milner, William. (See Grosvenor and Milner.)						
Milo Bar Bell Company. (See Calvert, Alan, assignor.)						
Milton, John L. (See Conklin and Milton.)						
Milward, George H., Nottingham, England. Machinery for spinning and doubling fibrous substances	705,774	July 29	4749	1028 (1029)	100	1020
Milwaukee Valve Company. (See Huck, Albert, assignor.)						
Mims, Giles D. (See Pope and Mims.)						
Mims, John C., assignor of one-half to Q. Kohnke, New Orleans, La. Refining asphaltic mineral oils	713,475	Nov. 11	1942	439	101	1313
Minard, Theresa, Scio, Ohio. Catamenial appliance	715,112	Dec. 2	890	190	101	2019
Minck, Harry, and H. L. Droste, Richmond, Ind. Rail-joint	710,290	Sept. 30	4439	1001	100	2958
Minder, Johann, assignor to Oxylin-Werke Actien-Gesellschaft, Piesteritz, Germany. Preparing and treating rubber-coated materials	708,823	Sept. 9	1524		100	2305
Mine & Smelter Supply Company. (See McConney, Robert B., assignor.)						
Miner, Benjamin F., Montague, Mass. Combination stopper and brush for bottles	705,271	July 27	3909	804	100	799
Miner, James H., Lumberton, Miss. Device for holding saws	712,703	Nov. 4	436	102	101	987
Miner, Willard M., Plainfield, N. J. Electric synchronous apparatus	702,452	June 17	2121	482	99	2582
Miner, Willard M., Plainfield, N. J. Electric synchronous apparatus	702,453	June 17	2123	482	99	2582
Miner, Willard M., Plainfield, N. J. Electric synchronous apparatus	702,454	June 17	2126	483	99	2582
Miner, Willard M., Plainfield, assignor to Sun Electric Manufacturing Company, Camden, N. J. Telephone receiver	711,640	Oct. 21	2386	524	101	526
Miner, William C., Stanton, Mich., assignor of one-third to J. W. Toklas, Aberdeen, Wash. Railway-spike	698,843	Apr. 29	4692	1034	99	1064
Miner, William H. (See Hennessey and Moore, assignors.)						
Miner, William H., Chicago, Ill. Tandem-spring draft-rigging for railway-cars	716,458	Dec. 23	3525	770	101	2618
Minford, Iowa L., et al. (See Wilcox, Edward M., assignor.)						
Minges, Richard, and J. Ewell, Jr., Denver, Colo. Nut-lock	705,420	June 22	4023	872	100	864
Minier, Peter G., assignor of one-fourth to I. R. Titus, Huntington, W. Va. Door-hanger	701,597	July 3	575	126	99	2228
Miningan, Philip W., et al. (See Dear, James W., assignor.)						
Miniszewski, Josef, Lutz, Russia. Draining-drum	701,913	June 10	1128	258	99	2360
Miniszewski, Josef von, Petrikau, assignor of one-half to T. von Mohl, Wyszki, Russia. Pneumatic picker for looms	691,736	Jan. 21	2558	572 (573)	98	508
Mink, Benjamin A. (See Walters, Edward E., assignor.)						
Mink, Peter, Niederleuzheim, Germany. Barrel-closure	694,171	Feb. 25	3742	826	98	1628
Minkus, Ferdinand, New York, N. Y. Swimming-appliance	693,615	Feb. 18	2861	587	98	1392
Minnas, Arthur E., Brooklyn, N. Y. Ventilator for fire-surfaces of ranges	693,988	Apr. 29	4994	1091	99	1114
Minogue, Martin T., Springfield, Ohio, assignor of one-half to S. F. Pierce, St. Paul, Minn. Motive-power engine	706,494	Aug. 5	979	215	100	1314
Minto, Thomas. (See Enderton, William H., assignor.)						
Minton, Charles. (See Minton, Francis, assignor.)						
Minton, Daniel J. (See Searies and Minton.)						
Minton, Francis, assignor to C. Minton, London, England. Device for gathering balls	704,848	July 15	2763	597	100	502
Mintwegen, John J., Chicago, Ill. Nursing-bottle	701,070	May 27	3804	872	99	2010
Miracle, Meridith W., Springdale, Ark. Cheese-knife	711,908	Oct. 21	2927	644	101	640
Mirth, Joseph, Allentown, Pa. Take-up for looms	712,831	Nov. 4	687	159	101	1099
Mishler, Phares M., Hagerstown, Md. Wire-fence machine	703,804	July 1	792	174	100	159
Misko-Cutlery Company. (See Miskolczy, Joseph, assignor.)						
Miskolczy, Joseph, assignor to Misko-Cutlery Company, New York, N. Y. Grinding or polishing metals	698,126	Apr. 22	3266	715 (716)	99	741
Missotten, Manuel L., Saltillo, Mexico. Canteen	699,697	May 13	1099	257 (258)	99	1414
Mistletoe Cream Company. (See Snell, George D., assignor.)						
Mitch, Joseph, et al. (See Polmeteer, Andrew J., assignor.)						
Mitchell, Abbott S., et al. (See Roberts, Henry P., assignor.)						
Mitchell, Alexander, Oxbow, Canada. Churn	709,497	Sept. 23	2917	650 (651)	100	2627
Mitchell, Alexander I., Rumford Falls, Me. Self-playing mandolin	693,417	Feb. 18	2276	498	98	1313
Mitchell, Charles F., Baltimore, Md. Non-refillable bottle	703,944	July 1	1047	227	100	308
Mitchell, Charles W., Brooklyn, N. Y., assignor to Twisted Wire Box Strap Company of New York. Pail-hook	709,919	Sept. 30	3735	841	100	2809
Mitchell, Dean C. (See Salmon and Mitchell.)						
Mitchell, Eugene E., Washington, D. C., assignor to M. Ingraham, Wabasha County, Minn. Toy boat	707,148	Aug. 19	2198	492 (493)	100	1600
Mitchell, Ferris A., New York, N. Y. Metallic lathing	704,072	July 8	1314	286	100	275
Mitchell, Frank, London, England. Pneumatic tire	710,793	Oct. 7	765	163 (164)	101	157
Mitchell, Frank A., Washington, D. C. Roofing compound	707,710	Dec. 26	3288		100	1844
Mitchell, Frank W., Leaf River, Ill. Tire-setter	706,583	Aug. 12	1132	250	100	1360
Mitchell, Fred L., New York, N. Y. Combined box or chest and table	700,355	May 20	2436	555 (556)	99	1709
Mitchell, Fred L., New York, N. Y. Collapsible camp-stove	700,356	May 20	2438	556 (557)	99	1709
Mitchell Gas Generator and Burner Company. (See Mitchell, Willis, assignor.)						
Mitchell, George. (See Copeland, Lucius D., assignor.)						
Mitchell, George, Los Angeles, Cal. Copper-smelting furnace	691,648	Jan. 21	2417	543	98	538
Mitchell, George, Naco, Ariz. Ter. Pipe-cutter	391,649	Jan. 21	2418	544	98	538
Mitchell, George, Naco, Ariz. Ter. Reducing copper matte to refined copper	705,109	July 22	3348		100	727
Mitchell, George, Naco, Ariz. Ter. Slag steam-generator	711,392	Oct. 14	1804	391	101	391
Mitchell, George, Westminster, London, England. Extracting gutta-percha or the like from leaves or twigs containing it	695,751	Mar. 18	2637		98	2297
Mitchell, George, Naco, Ariz. Ter., assignor of one-half to L. D. Copeland, Los Angeles, Cal. Slag steam-generator	711,331	Oct. 14	1800	390 (391)	101	390
Mitchell, George, Naco, Ariz. Ter., and L. D. Copeland, Los Angeles, Cal. Generating steam from hot slag, &c.	711,333	Oct. 14	1806	391 (392)	101	391
Mitchell, George E., Chicago, Ill., and W. Link, New York, N. Y. Portable bicycle-track	697,643	Apr. 15	2350	524	99	529
Mitchell, George L., assignor of one-half to J. M. Glenn, Cincinnati, Ohio. Wire-coupling	698,127	Apr. 22	3270	715	99	741
Mitchell, George M., Earlham, Iowa. Hood for pneumatic straw-stackers	711,116	Oct. 14	1370	298	101	298
Mitchell, George R. (See Mitchell, William H. and G. R.)						
Mitchell, George R. (See Turner and Mitchell.)						
Mitchell, Gibb E., assignor of one-fourth to E. R. O'Neal, Forsyth, Ga. Combination blast-furnace	713,012	Nov. 4	1023	239	101	1105

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Mitchell, Harry S. (See Porterfield, John C., assignor.)						
Mitchell, J. Vessey, Ottawa, Kans. Poultry-coop.....	694,970	Mar. 11	1235	270	98	1901
Mitchell, James. (See Xorocross and Mitchell.)						
Mitchell, James, and S. W. Vaughan, Lorain, Ohio. Balanced valve.....	715,113	Dec. 2	891	190	101	2019
Mitchell, James A., New York, N. Y. Milk-modifying gate.....	696,834	Apr. 1	828	190	99	175
Mitchell, James A., Hillsdale, Mich. Fence-post.....	702,230	June 10	1707	384	99	2476
Mitchell, James E., assignor of three-fourths to G. B. Mevis, G. F. Stiles, and C. Fredericks, Lowell, Mass. Buckle.....	706,080	Aug. 5	152	32	100	1147
Mitchell, James H., Philadelphia, Pa. Differential and reversing gear.....	698,128	Apr. 22	3271	716	99	741
Mitchell, John, Ponsonby, New Zealand. Leg-guard.....	693,730	Feb. 18	2877	633	98	1488
Mitchell, John E., St. Louis, Mo. Dust-collector.....	702,312	June 10	1833	419	99	2592
Mitchell, John E., St. Louis, Mo. Dust-collector.....	704,900	July 15	2852	1619	100	611
Mitchell, John E., St. Louis, Mo. Dust-collector.....	705,944	July 29	5050	1100	100	1082
Mitchell, John E., St. Louis, Mo. Making flour.....	716,920	Dec. 30	4523	981	101	2854
Mitchell, John H., Washington, D. C., assignor of one-half to M. K. and M. A. Emery and W. V. Cox, executors and trustees of M. G. Emery, deceased. Antislipping hoof-pad.....	700,149	May 13	1992	457	99	1595
Mitchell, Joseph A., Brooklyn, N. Y. Screw-conveyer.....	710,679	Oct. 7	3123	108	101	185
Mitchell, Joseph A., Brooklyn, N. Y. Gas-producer.....	714,008	Nov. 18	2991	665	101	1547
Mitchell, Robert, Cincinnati, Ohio. Grate for boiler-furnaces.....	693,880	Feb. 25	3164	699	98	1513
Mitchell, Robert J. C. (See Eaton, John, assignor.)						
Mitchell, Thomas W., Omaha, Nebr. Car-journal box.....	697,947	Apr. 15	2809	639	99	646
Mitchell, Thomas W., Omaha, Nebr. Rod-packing.....	702,578	June 17	2361	539	99	2631
Mitchell, William S., (See Clarke, John S., assignor.)	712,949	Nov. 4	924	215	101	1086
Mitchell, William T., and C. S. Sewell, Ridgely, Md. Corn-thinner's vehicle.....	716,735	Dec. 23	4055	888	101	2730
Mitchell, Willis, Malden, assignor to Mitchell Gas Generator and Burner Company, Boston, Mass. Vapor-heated smoothing-iron.....	694,770	Mar. 4	844	186	98	1890
Mitchell, Willis, Malden, assignor to Mitchell Gas Generator and Burner Company, Boston, Mass. Vapor-burning torch.....	706,842	Aug. 12	1835	366	100	1469
Mittag, Carl, Essex, N. Y. Vertical bearings of shafts.....	710,679	Oct. 7	3123	665	101	1546
Mittinger, George E., Paris, assignor to W. Dunbar, Cleveland, Ohio. Cleansing pipes.....	695,323	Mar. 11	1875	418	98	2122
Mix, Edgar W., Jr., France, assignor to General Electric Company. Maintaining synchronous rotation of dynamo-electric machines.....	713,326	Nov. 11	1686	380	101	1259
Mix, Edward H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Cylinder for locks.....	696,067	Mar. 25	3231	731	98	2434
Mixsell, Leighton N. D., Bethlehem, assignor to Bethlehem Steel Company, South Bethlehem, Pa. Breech mechanism for guns.....	702,453	June 17	2128	483	99	2583
Mize, William P., Mesa, Tex. Fertilizer-distributor.....	704,533	May 20	2784	636	99	1780
Moate, John T., Adelaide, South Australia, Australia. Non-reverting water-wheel.....	699,844	May 13	1395	322	99	1475
Moberg, Carl J., Jersey City, N. J., assignor to A. E. Schatz, Mount Vernon, N. Y. Electric clock.....	709,234	Sept. 16	2354	534	100	2496
Mobile Spring Bed Co. (See Lawhon, Lawrence H., assignor.)						
Mock, George, assignor of one-half to C. T. Stewart, Bardstown, Ky. Wagon-standard.....	708,968	Sept. 9	1845	415	100	2363
Mock, George, assignor of one-half to C. T. Stewart, Bardstown, Ky. Wagon-standard.....	711,434	Oct. 14	1984	430	101	427
Mock, Hugo, assignor, by mesne assignments, to W. A. Albrecht and A. C. Davenport, St. Paul, Minn. Ink-eradiator.....	716,567	Dec. 23	3760	.....	101	2668
Mock, Severin, Pawtucket, and C. D. Robinson, Crompton, R. I.; said Robinson assignor to said Mock. Cleaner for spinning-machines.....	708,061	Sept. 2	116	28	100	2005
Möckel, Emil O., Crottendorf, Germany. Machine for cleaning playing-cards.....	695,577	Mar. 18	2342	531	98	2239
Model Gas Engine Company. (See Casner, Thaddeus S., assignor.)						
Modern Telescope Company. (See Phillips, Edwin U., assignor.)						
Modern Telescopic Company. (See Phillips and McHenry, assignors.)						
Modersohn, Paul, Fruitvale, Cal. Lawn-sprinkler.....	706,986	Aug. 12	1883	421	100	1518
Modjeski, Ralph. (See Tullock, Modjeski, and Carter.)						
Modlin, Thomas B., and W. H. Buhl, Hurdland, Mo. Railway-tie plate.....	709,169	Sept. 16	2231	507	100	2469
Modrell, John H. (See Wilcox, Reuben O., assignor.)						
Modry, August M., Brooklyn, N. Y. Electric elevator.....	696,994	Apr. 8	1170	261	99	268
Moe, Samuel A., Minneapolis, Minn. Combination-tool.....	699,207	May 6	140	35	99	1204
Moehle, Frederick, Sheffield, Iowa. Bed-spring.....	695,732	Mar. 18	2637	599	98	2297
Moehring, Christ, and W. Fetzner, Middletown, Ohio; said Moehring assignor to said Fetzner. Seeder.....	700,966	May 27	3610	830	99	1968
Moeller, Julius, Moscow, Russia. Carrying device.....	707,610	Aug. 26	3081	693	100	1802
Moeller, Louis K., et al. (See Forney, Elwood W., assignor.)						
Moeller, John, assignor of one-half to W. Rosenberg, Baltimore, Md. Pocket for garments.....	712,199	Oct. 23	3479	763	101	766
Moesser, Albert H. (See Moesser, Henry, assignor.)						
Moesser, Henry, assignor of one-half to A. H. Moesser, Allegheny, Pa. Tunnel.....	715,497	Dec. 9	1608	348	101	2182
Moesser, Ludwig T., and W. E. Eidmann, Giessen, assignors to Firm of Chemische Fabrik Griesheim Electron, Frankfurt-on-the-Main, Germany. Production of the metals of the alkalies.....	710,493	Oct. 7	178	.....	101	38
Moessinger, Traugott, Brooklyn, N. Y. Feeder for cigarette-machines.....	709,920	Sept. 30	3737	841	100	2809
Moffat, George, Philadelphia, Pa., assignor to James Smith and Company, Incorporated, Charleston, W. Va. Steam-trap.....	697,349	Apr. 8	1785	100	99	400
Moffats, Limited. (See Hutchings, James, assignor.)						
Moffett Bearing Company. (See Camp, Robert D., assignor.)						
Moffett Bearing Company. (See Perkins, Julius A., assignor.)						
Moffett, George E. (See Schermerhorn and Moffett.)						
Moffett, Marcus H., assignor to National Carbon Company, Cleveland, Ohio. Sparking-coil.....	690,750	Jan. 7	750	167	98	158
Moffitt, Alexander, California, Pa. Car-window.....	698,980	Apr. 29	4936	1091	99	1114
Moffitt, Samuel B., and C. O. Weisenburger, Sharon, Pa. Valve.....	704,634	July 15	2398	518	100	517
Mohl, Theofil von. (See Miniszewski, Josef von, assignor.)						
Mohr, Henry F. W., Toledo, Ohio. Adjustable mail-distributing case.....	714,220	Nov. 25	3437	756	101	1658
Mohr, William T., Gladerun, Pa. Bone-black kiln.....	708,898	Sept. 9	1676	385	100	2337
Mohrer, Paul F. v., J. P. and J. Hopp, Philadelphia, Pa. Acetylene-gas generator.....	698,306	Apr. 22	3300	792	99	809
Mohrroff, Charles F., Oak Station, Pa. Title-plate for binders.....	698,616	Feb. 18	2692	588	98	1392
Mohs, Julius, Brandenburg, Germany. Machine for molding bricks.....	704,754	July 15	2578	556	100	553
Moineaux, Alfred V., Des, Silverplume, Colo. Miners' safety loading-tool.....	692,637	Feb. 4	740	171	98	951
Molden, Frederick W., Huron, S. D. Vehicle-curtain attachment.....	699,967	May 13	1635	375	99	1526



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Mole, John G., Batavia, Ill. Clothes-line prop-head	704,073	July 8	1316	287	100	276
Molet, Alfred, Buenos Ayres, Argentina. Apparatus for mixing gas	709,498	Sept. 23	2919	651	100	2628
Molinari, Anton, Woodridge, N. J. Stopper for bottles.	703,735	July 1	666	147	100	133
Moline Plow Company. (See Lindgren, Alexis C., assignor.)						
Moline Plow Company. (See Lindgren, August, assignor.)						
Mollitor, Charles, Chicago, Ill. Lighting implement	704,559	July 15	2245	486	100	485
Mollitor, Frederick W., Cleveland, Ohio. Case for holding bottles	713,130	Nov. 11	1262	286	101	1174
Möller, Georg, Copenhagen, Denmark. Party-line telephone apparatus	698,307	Apr. 22	3592	792	99	809
Möller, Herman, New York, N. Y. Playing-cards	712,566	Nov. 4	208	49	101	941
Moller, Jacob A., Jr., Brooklyn, N. Y. Stopper for bottles	692,058	Jan. 28	3200	722	98	714
Moller, Jacob A., Jr., New York, N. Y. Granulating attachment for salt-shakers	700,534	May 20	2786	637	99	1780
Möller, Max. (See Hoelt and Schultz, assignors.)						
Mollitor, Joseph A., Chicago, Ill. Metal bedstead	709,551	Sept. 23	3028	674	100	2650
Nolloy, Edmond, Philadelphia, Pa. Sheet-metal I-beam	693,560	Feb. 18	2540	559	98	1368
Molloy, James F., Westhaven, Conn. Cast-off for suspenders	716,736	Dec. 33	4057	888	101	2731
Molloy, James F., Westhaven, Conn., assignor to A. A. Aston, Brooklyn, N. Y. Buckle	713,569	Nov. 11	2153	482	101	1354
Molnár, Sándor, assignor of one-half to J. Marmorstein, New York, N. Y. Valved stopper for receptacles, &c.	702,810	June 17	2800	643	99	2723
Moloney, James A. (See Moloney, Michael J., assignor.)						
Moloney, Michael J., assignor of one-half to J. A. Moloney, Rochester, N. Y. Shoe	691,284	Jan. 14	1712	388	98	373
Molyneux, Barton S., Buffalo, N. Y. Coin-controlled tire-inflator	700,796	May 27	3301	757 758	99	1907
Monaco, Giuseppe del, Trieste, Austria-Hungary. Electric signaling device for preventing railway collisions	692,533	Feb. 4	565	133	98	913
Monahan, Louis J., and C. Kieren, Oshkosh, assignors of one-third to E. H. Steiger, Fremont, Wis. Machine for making twine	697,411	Apr. 8	1925	428	99	428
Monahan, Robert P., Buffalo, N. Y. Bicycle-frame	709,718	Sept. 23	3310	743	100	2708
Monash, Charles P. (See Leuthesser, Fred W., assignor.)						
Monash-Youcker Company. (See Leuthesser, Fred W., assignor.)						
Monath, Victor, Vienna, Austria-Hungary. Electrically-heated apparatus	693,144	Feb. 11	1725	378	98	1179
Monch, Leopold F., New York, N. Y. Buttonhole-cutter	705,945	July 29	5052	1100	100	1062
Moncrieff, Robert W., Newport Pagnell, England. Apparatus for spinning and doubling.	714,933	Dec. 2	591	124	101	1533
Mond, Ludwig, Regents Park, London, England. Gas-producer	697,867	Apr. 15	2765	613	99	620
Mond, Ludwig, London, England. Obtaining zinc by electrolysis	701,215	May 27	4065	934 935	99	2066
Mond, Ludwig, London, England. Apparatus for obtaining zinc by electrolysis	701,216	May 27	4067	935	99	2066
Mondran, Frederick S. de. (See Belledin-Gras and Mondran.)						
Monahan, Michael, and P. Dörner, Dixon, Ill. Fruit-can opener	699,803	May 13	1303	301	99	1456
Monfort, Abram C., East Providence, R. I. Track-sanding device for railways	702,221	June 10	1707	385	99	2476
Monjeau, Cleophas, Middletown, Ohio. Sand-screen for well-tubes	707,611	Aug. 26	3082	694	100	1302
Monjo, Edward A., Elizabeth, N. J. Gas-heater	700,535	May 20	2787	637	99	1781
Monnerat, Pierre E., Alexandria, Egypt. Ground-scraper	717,013	Dec. 30	4713	1022	101	2894
Monneret, Léon F. A., Paris, France. Machine for cutting helicoidal gear-teeth	709,235	Sept. 16	2358	534 535 536	100	2497
Monroe, Charles R., Washington, D. C. Brick-making machinery	713,570	Nov. 11	2155	482	101	1354
Monroe, William E., assignor of one-third to C. Whitehead, Newport, Ky. Telescopic fire-scape and convertible scaffolding	694,771	Mar. 4	846	187	98	1890
Monshausen, Nicholas, Milwaukee, Wis., assignor to Enameled Steel Roofing Company. Roofing-tile	691,650	Jan. 21	2419	544	98	538
Monson, Philip T. J. (See Harwood, Gedge, and Monson.)						
Montague, John R., assignor to Hydraulic Car-Brake Company, Syracuse, N. Y. Car-brake	705,946	July 29	5054	1100 1101	100	1062
Montague, Thomas D., Mawglen, Pa. Ironing-board	695,324	Mar. 11	1878	418	98	2122
Montel, Leo, New York, N. Y., assignor to Acetylene Manufacturing Company, New York, N. Y., and Jersey City, N. J. Acetylene-gas generator	699,337	May 6	392	91	99	1254
Montel, Leo, New York, N. Y., assignor to Acetylene Manufacturing Company, New York, N. Y., and Jersey City, N. J. Acetylene-gas generator	705,272	July 22	3711	804 805	100	799
Montgomery, Boughy W. D. (See Taylor, Cooke, and Montgomery.)						
Montgomery, Frank W., assignor to W. R. Montgomery, Louisville, Ky., and T. H. Montgomery, Chicago, Ill. Clutch mechanism	710,494	Oct. 7	179	38	101	38
Montgomery, Franklin M. (See Terrell and Montgomery.)						
Montgomery, Harry C., assignor to S. W. Parsons, Cleveland, Ohio. Automatic fire-extinguisher	700,218	May 20	2154	494	99	1651
Montgomery, James E., Saltsburg, Pa. Nut-lock	717,431	Dec. 30	5500	1193	101	3061
Montgomery, John, Simcoe, Canada. Grain-car door	693,979	Feb. 25	3375	741	98	1535
Montgomery, John, Simcoe, Canada. Grain-car door	713,476	Nov. 11	1943	439 440	101	1313
Montgomery, John H., assignor of one-half to R. T. Brown, St. Louis, Mo., and C. E. Neely, Little Rock, Ark. Apparatus for making white lead	714,009	Nov. 18	2992	666	101	1547
Montgomery, Marshall, Philadelphia, Pa. Flexible hose adapted for couplings, &c.	702,738	June 17	2657	612	99	2692
Montgomery, Marshall, Philadelphia, Pa. Piston-packing	716,737	Dec. 23	4058	889	101	2731
Montgomery, Roberta F., Barrie, Canada. Dress-supporter	702,456	June 17	2129	484	99	2583
Montgomery, Thomas H. (See Montgomery, William W., assignor.)						
Montgomery, Thomas H., et al. (See Montgomery, Frank W., assignor.)						
Montgomery, Walter R., Shreveport, La. Coffee or tea pot attachment	693,418	Feb. 18	2277	499	98	1314
Montgomery, Walter R., assignor of one-half to J. H. Shepherd, Shreveport, La. Banana-crate	708,654	Sept. 9	1174	268	100	2231
Montgomery, Walter S., Arlington, N. J. Automatic relief and condenser valve	691,067	Jan. 14	1321	299	98	290
Montgomery, William G., assignor of one-half to F. Shields, Erie, Pa. Crank-pin oil-cup	692,186	Jan. 28	3419	774	98	759
Montgomery, William R., et al. (See Montgomery, Frank W., assignor.)	702,313	June 10	1835	419	99	2502
Montgomery, William W., assignor of one-half to T. H. Montgomery, Chicago, Ill. Conductor for concrete	702,372	June 10	1351	443	99	2525
Montreuil, Charles J., Honfleur, France. Apparatus for elliptical turning and boring	701,217	May 27	4068	936	99	2066
Moody, George W., Newmire, Colo. Calf-weaner	703,945	July 1	1048	228	100	209
Moody, Robert A., Selma, Ind. Axle-nut wrench	707,248	Aug. 19	2362	533	100	1640
Moody, Rufus N., Aberdeen, Wash. Marking-machine	701,071	May 27	3805	872	99	3010
Moody, Walter S., Schenectady, N. Y., assignor to General Electric Company. Insulation	691,733	Jan. 28	2717	610	98	618
Moody, Walter S., Schenectady, N. Y., assignor to General Electric Company. Fan-motor attachment	701,914	June 10	1129	258	99	2360
Moody, Walter S., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution	707,150	Aug. 19	2200	493	100	1600
Moody, Walter S., Schenectady, N. Y., assignor to General Electric Company. Transformer	713,327	Nov. 11	1687	380	101	1259

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Moody, Walter S., Schenectady, N. Y., assignor to General Electric Company. Trans-						
former.	713,901	Nov. 18	2784	619	101	1504
Moody, Walter S., Schenectady, N. Y., assignor to General Electric Company. Means						
for preventing breakdown of high-potential windings.	714,934	Dec. 2	592	124	101	1953
Moody, William W. (See Watkins, James T., assignor.)						
Moody, Winfield H., assignor to T. J. Halstead, Dallas, Tex. Burglar-alarm.	701,753	June 3	848	187	99	2286
Mooers, Alton H., Eyrina, Ohio. Sofa-bed.	715,114	Dec. 2	892	190	101	2019
Mooers, Louis P., assignor to Peerless Manufacturing Company, Cleveland, Ohio. Steering						
mechanism for motor-vehicles.	695,232	Mar. 11	1700	377	98	2087
Mooers, Louis P., assignor to Peerless Manufacturing Company, Cleveland, Ohio. Friction-						
clutch.	706,081	Aug. 5	133	32	100	1148
Mooney, Joseph G., Erie, Pa. Article of manufacture having an elastic portion and a se-						
curing portion.	709,993	Sept. 30	3384	876	100	2339
Mooney, Joseph G., Erie, Pa. Tip for ends of pneumatic-tire tubes.	709,994	Sept. 30	3385	876	100	2340
Moon, Edward W., et al. (See Hartog, Stephen D., assignor.)						
Moon, Edward W., St. Louis, Mo. Brake for motor-shafts of elevators.	707,442	Aug. 19	2744	621	100	1715
Moon, George R., Columbus, Ohio. Heating-stove.	702,984	June 24	3144	723	99	2811
Moon, George R., Columbus, Ohio. Gas heating-stove.	710,162	Sept. 30	4212	942	100	2908
Moon, Herman. Grove City, Pa. Clutch.	705,273	July 22	3714	805	100	800
Moon, Herman, assignor to H. B. McKinney, F. K. Squier, W. W. Van Eman, and C. W.						
Forrest, Grove City, Pa. Clutch.	691,320	Jan. 14	1794	407	98	389
Moon, Joseph S., Nevada, Mo. Animal-trap.	704,355	July 8	1857	402	100	393
Moon, William E. (See Hunt and Moon.)						
Mooney, Herman O., Farmington, N. H. Pipe-coupling.	695,071	Mar. 11	1414	310	98	2028
Mooney, Marvin H., Gault, Mo. Hay-stacker.	716,738	Dec. 23	4058	889	101	2731
Mooney, Timothy. (See Covo, Joseph T., assignor.)						
Moore, Alfred L., Moline, Ill. Wagon-skein.	698,344	Apr. 29	4693	1034	99	1064
Moore, Andrew J., Lebanon, Pa. Incubator.	704,560	July 15	2246	486	100	485
Moore, Andrew R., assignor of one-half to L. H. McCall, Charlotte, Mich. Brake.	707,149	Aug. 19	2199	493	100	1600
Moore, Andrew R., assignor of one-half to L. H. McCall, Charlotte, Mich. Friction-power.	708,655	Sept. 9	1176	280	100	2231
Moore, Bernard M., and G. F. Ebert, Chicago, Ill. Horseshoe-pad.	716,739	Dec. 23	4061	890	101	2732
Moore, Brady W. (See Wall and Moore.)						
Moore, Charles A. (See Moore, Frederick W., assignor.)						
Moore, Charles B., Newton Center, and G. B. Totman, Wollaston, Mass. Feed-regula-						
tor.	700,219	May 20	2156	494	99	1651
Moore, Charles E., Chicago, Ill., and C. J. Reilly, Syracuse, Ind. Apparatus for elec-						
trically operating tools.	700,437	May 20	2594	593	99	1740
Moore, Charles J., assignor of one-half to F. A. Thompson, Varina, Iowa. Door or gate						
latch.	712,318	Oct. 28	3684	805	101	809
Moore, Charlie F., Ormondville, N. C. Tobacco-truck.	695,412	Mar. 11	2017	453	98	2158
Moore, Clifton M., Monroe, Me. Car-fender.	692,691	Feb. 4	844	191	98	972
Moore, Daniel M., Newark, N. J. Electric-tube lighting.	702,314	June 10	1836	419	99	2503
Moore, Daniel M., Newark, N. J. Electric-tube lighting.	702,315	June 10	1839	420	99	2503
Moore, Daniel M., Newark, N. J. Electric-tube lighting.	702,316	June 10	1844	420	99	2504
Moore, Daniel M., Newark, N. J. Electric-tube lighting.	702,317	June 10	1846	421	99	2504
Moore, Daniel M., Newark, N. J. Automatic circuit-interrupter.	702,318	June 10	1848	421	99	2504
Moore, Daniel M., Newark, N. J. Electric-tube lamp.	702,319	June 10	1852	422	99	2505
Moore, Daniel M., Newark, N. J. Electric-tube lamp.	702,320	June 10	1854	422	99	2505
Moore, Daniel M., Newark, N. J. Electric-tube lighting.	702,321	June 10	1857	423	99	2505
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y.						
Vacuum-tube sign.	699,208	May 6	141	36	99	1204
Moore, David C. (See Moore, George J. and D. C.)						
Moore, Earnest G., Fort Wayne, Ind. Steam-boiler indicator.	716,568	Dec. 23	3761	818	101	2668
Moore, Edward J., Philadelphia, Pa. Steam-boiler.	700,066	May 13	1804	419	99	1559
Moore, Edward T. (See Brown and Moore.)						
Moore, Edward Y., Cleveland, Ohio, assignor, by mesne assignments, to Chicago Pneu-						
matic Tool Company. Engine-brake.	694,403	Mar. 4	130	29	98	1740
Moore, Edward Y., Cleveland, Ohio, assignor, by mesne assignments, to Chicago Pneu-						
matic Tool Company. Hoisting system.	696,181	Mar. 25	3486	780	98	2486
Moore, Edward Y., Cleveland, Ohio, assignor, by mesne assignments, to Chicago Pneu-						
matic Tool Company. Engine-brake.	712,833	Nov. 4	695	161	101	1041
Moore, Edward Y., Cleveland, Ohio, assignor, by mesne assignments, to Chicago Pneu-						
matic Tool Company. Hoist.	717,243	Dec. 30	5167	1120	101	2993
Moore, Edwin A. (See Heywood, William A., assignor.)						
Moore, Elbert K., assignor to Crown Cork Company, Limited, London, England. Appa-						
atus for filling and closing bottles with aerated or other liquids.	712,832	Nov. 4	688	160	101	1039
Moore Electrical Company. (See Moore, Daniel M., assignor.)						
Moore Electrolytic Company. (See Allen and Moore, assignors.)						
Moore Electrolytic Company. (See Moore, Hugh K., assignor.)						
Moore, Eli W., assignor of one-half to P. W. Moore, Ann Arbor, Mich. Hay-press.	700,697	May 20	3081	700	99	1846
Moore, Elmer E., et al. (See Barr, Addison, assignor.)						
Moore, Emerson V. (See Harrison, Walter S., assignor.)						
Moore, Enos L., Portsmouth, Ohio. Building-block for flues.	695,822	Mar. 18	2770	632	98	2325
Moore, Enos L., Chicago, Ill. Boiler.	690,888	May 13	1489	342	99	1497
Moore, Ethelbert A., assignor to Stanley Works, New Britain, Conn. Antifriction-						
washer for hinges.	711,731	Oct. 21	2570	565	101	566
Moore, Eugene H. (See Shade, Albert A., assignor.)						
Moore, Fernando C., San Bernardino, Cal. Bicycle.	704,901	July 15	2854	619	100	612
Moore, Frank M., Providence, R. I. Acetylene-gas generator.	714,318	Nov. 25	3628	799	101	1696
Moore, Frank M., Providence, R. I., assignor of five-sixths to B. J. White, Westfield,						
Mass., and C. E. Merrill, Providence, R. I. Acetylene-gas generator.	714,319	Nov. 25	3628	799	101	1697
Moore, Frank W. (See Gerlach and Moore.)						
Moore, Frederick W., Lynn, Mass., assignor to C. A. Moore, New York, N. Y. Splitting						
skins.	708,382	Sept. 2	687	100	2121	
Moore, Gales P., assignor to Controller Company of America, St. Louis, Mo. Telephone-						
lock.	712,950	Nov. 4	925	215	101	1066
Moore, George, Salt Lake City, Utah. Apparatus for leaching ores, &c.	706,334	Aug. 5	663	144	100	1349
Moore, George A., Brookline, Mass. Phonograph.	713,477	Nov. 11	1944	440	101	13
Moore, George A., Brookline, Mass., assignor to Moore Talking Scale Company. Weigh-						
ing-machine.	702,985	June 24	3145	723	99	2811
Moore, George A., Brookline, assignor to Moore Talking Scale Company, Boston, Mass.						
Phonographic record.	713,328	Nov. 11	1688	380	101	1259



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Moore, George A., Brookline, assignor to Moore Talking Scale Company, Boston, Mass. Phonographic sounder	715,115	Dec. 2	893	191	101	2019
Moore, George B., St. Louis, Mo. Display-rack	702,232	June 10	1709	385	99	2477
Moore, George F., Jr., Jacksonville, Fla. Spark-arrester	692,165	Jan. 28	3377	765	98	750
Moore, George F., West Wilkensburg, Pa. Brake mechanism for vehicles	693,731	Feb. 18	2879	633	98	1438
Moore, George J. and D. C., Graham, Mo. Apparatus for demonstrating the phenomena of electrical storms	700,536	May 20	2789	637	99	1781
Moore, George M., Buffalo, N. Y. Safety appliance for elevators	698,041	Apr. 22	3075	677	99	702
Moore, George R., Erie, Pa. Mail-bag catching and delivering mechanism	691,285	Jan. 14	1714	388	98	373
Moore, Gilbert C., Guntown, Miss. Cut-off device for train-lines	706,433	Aug. 5	885	191	100	1294
Moore, Harvey A. (See Fouts, Albert, assignor.)						
Moore, Herman, Moundsville, W. Va. Water-level-testing device for boilers	705,421	July 22	4025	872	100	864
Moore, Hiram C., Springfield, Mass. Photographic screen or canopy	694,172	Feb. 25	3743	826 827	98	1629
Moore, Hugh K. (See Allen and Moore.)						
Moore, Hugh K., Lynn, Mass., assignor to Moore Electrolytic Company, Portland, Me., and Boston, Mass. Producing caustic	703,289	June 24	3697	852	99	2929
Moore, Isaac, et al. (See Williams, Joseph H., assignor.)						
Moore, James, Hanover, Ill. Machine for handling barbed wire	694,404	Mar. 4	132	29	98	1740
Moore, James F., Fairland, Ind. Ter. Chair	700,067	May 13	1841	419	99	1560
Moore, James R., Newcastle-upon-Tyne, England. Frame for velocipedes	694,567	Mar. 4	453	97	98	1804
Moore, Jehu C., Brooklyn, N. Y. Overseaming attachment for sewing-machines	708,824	Sept. 9	1525	349	100	2395
Moore, Jemerson, Harrison, Ark. Type-writing machine	711,517	Oct. 21	2153	468 469 470 471	101	478
Moore, Jennie. (See Wimmer, Charles L., assignor.)						
Moore, John D., New York, and F. M. Martin, Brooklyn, N. Y.; said Moore assignor to Clayton Fire Extinguishing & Disinfecting Company. Apparatus for generating sulfur dioxide	700,537	May 20	2792	638	99	1782
Moore, John D., New York, and F. M. Martin, Brooklyn, N. Y.; said Moore assignor to Clayton Fire Extinguishing & Disinfecting Company. Charging compartments with gas	700,538	May 20	2794	638	99	1782
Moore, John D., New York, and F. M. Martin, Brooklyn, N. Y.; said Moore assignor to Clayton Fire Extinguishing & Disinfecting Company. Extinguishing fires	700,967	May 27	3613	830	99	1968
Moore, John T., Trenton, N. J. Lavatory	712,834	Nov. 4	698	161 162	101	1042
Moore, John W. (See White, Joseph A., assignor.)						
Moore, John W., and J. A. White, Philadelphia, Pa. Paper-making machine	694,772	Mar. 4	848	187	98	1891
Moore, John W., and J. A. White, Philadelphia, Pa. Fourdrinier paper-making machine	695,753	Mar. 18	2638	599	98	2297
Moore, Joseph D. (See Sleigh, Milton W., assignor.)						
Moore, Kingman C., Macon, Ga. Clothes-drier	704,561	July 15	2249	487	100	486
Moore, Leather Machine Company. (See Moore, William H., assignor.)						
Moore, Leugenia, Council Grove, Kans. Cook-bucket	700,968	May 27	3614	830	99	1969
Moore, Lloyd D., Macon, Ga. Combined seeder and fertilizer-distributor	711,996	Oct. 28	3109	681	101	695
Moore & Lorenz. (See Forslund, Hugo W., assignor.)						
Moore, Marcus D., assignor of one-half to J. W. Gilliland, Waveland, Ind. Railway signaling apparatus	714,505	Nov. 25	4120	911	101	1797
Moore, Matthew R., assignor to Atlas Engine Works, Indianapolis, Ind. Dash-pot	697,644	Apr. 15	2351	525	99	529
Moore, Miles F. (See Lee and Moore.)						
Moore, Morris. (See Morris, John O., assignor.)						
Moore, Moses B., Pennington, N. J., and G. W. Leddon, Philadelphia, Pa., assignors to Pennington Foundry and Heater Company, Pennington, N. J. Hot-air heater	705,422	July 22	4027	873	100	865
Moore, Noble L. (See Smith, Thomas A., assignor.)						
Moore, Orville H., assignor of one-half to E. G. Murphy, Sandyhill, N. Y. Pulp-screen	695,754	Mar. 18	2639	599 600	98	2298
Moore, Otho C., assignor of one-half to J. Barkley, Norfolk, Va. Nut-lock	715,498	Dec. 9	1610	348	101	2182
Moore, Peter N. (See Hennessey and Moore.)						
Moore, Pusey W. (See Moore, Eli W., assignor.)						
Moore, Robert B., San Francisco, Cal. Hoop-lug	702,024	June 10	1331	304	99	2399
Moore, Robert B., deceased, Yarellton, Tex.; T. F. Moore, administrator. Well-drilling machine	714,111	Nov. 18	3191	705 706	101	1590
Moore, Robert C., Kansas City, Mo. Electric switch	694,977	Mar. 11	1236	271	98	1991
Moore, Samuel B., and W. Tatam, assignors of one-third to R. F. Kimmons, Watervalley, Miss. Hay-press	695,109	Mar. 11	1475	329	98	2040
Moore, T. F., administrator. (See Moore, Robert B.)						
Moore Talking Scale Company. (See Moore, George A., assignor.)						
Moore, Walter B., et al. (See Pierce, John, assignor.)						
Moore, Walter T. (See Simmons and Moore.)						
Moore, Willard T. (See Porter and Beaumont, assignors.)						
Moore, William A. (See Talbert, Lindley A., assignor.)						
Moore, William E., and F. R. Clark, Augusta, Ga. Welt-replenishing loom	704,485	July 8	2094	454 455	100	440
Moore, William H., Salem, Mass. Leather-staking machine	711,172	Oct. 14	1496	322 323 324	101	326
Moore, William H., Salem, Mass., assignor to Moore Leather Machine Company, Kittery, Me. Leather-coloring machine	693,561	Feb. 18	2541	561	98	1369
Moore, William H. S., West Chicago, Ill. Combination-lock	699,845	May 13	1397	323	99	1476
Moore, William L., Lacie, Ky. Tobacco-fork	705,775	July 29	4751	1029	100	1020
Moore, William N., et al. (See Taber, Mott B., assignor.)						
Moore, William N., Joliet, Ill. Mail-box	706,843	Aug. 12	1639	367	100	1470
Moore, William N., Joliet, Ill. Cooking stove	708,062	Sept. 2	117	28	100	2006
Moore, William R., Eden, N. Y. Combined advertising match-box and cigar-tip cutter	706,987	Aug. 12	1885	421	100	1518
Moore, Willis L., Washington, D. C. Air cooling, drying, and purifying apparatus	705,947	Nov. 29	3056	1101	100	1083
Moore, Winfield S., Indianapolis, Ind. Sheet-metal studding	713,132	Nov. 11	1264	287	101	1174
Moore, Winfield S., assignor of one-half to J. E. Sullivan, Indianapolis, Ind. Lathing-tool	713,131	Nov. 11	1263	286	101	1174
Moore, Wm. R. (See Washburn, Henry L., assignor.)						
Moore, James W. (See Smith, William A., assignor.)						
Moore, William, New York, N. Y. Nasal distender	690,527	Jan. 7	312	62	98	68
Moorhouse, Joseph, Ashton-under-Lyne, England. Pulley-and-band power-transmitting appliance	704,293	July 8	1575	340	100	330
Mooring, James W., Dunstable, England. Spring-tire for vehicle-wheels	713,664	Nov. 18	2330	520	101	1407
Moorman, Eli H., deceased, Winterset, Iowa; S. M. Moorman, administratrix. Duplex hook for hitching-straps, &c.	706,678	Aug. 12	1314	291	100	1400

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Moorman, Sarah M., administratrix. (See Moorman, Eli H.)						
Moorwood, Hedley S. (See Bennett and Moorwood.)						
Moradelli, Carl. (See Cerebotani, Luigi, assignor.)						
Moran, Daniel E., Mendham, N. J. Air-lock	694,978	Mar. 11	1243	271	98	1993
Moran, James, New York, N. Y. Combination furniture	702,233	June 10	1710	1385	99	2477
Moran, James, New York, N. Y. Fluid-fuel burner	712,885	Nov. 4	699	162	101	1042
Moran, John, Bradley, Ill. Potato-digger	708,707	July 1	612	186	100	121
Moran, John B. (See Cummings, Matthew, assignor.)						
Moran, Katherine V., assignor to J. B. De Lery, New York, N. Y. Incandescent gas-mantle	692,692	Feb. 4	845	192	98	973
Moran, Mary C., Newton, Mass. Adjustable sleeve-form	700,539	May 20	2796	638	99	1782
Moran, Matthew E. (See Wolfersperger and Moran.)						
Moran, Patrick I. (See Donohue, James S., assignor.)						
Moran, Patrick J., Memphis, Tenn. Railway bed or tie	695,823	Mar. 18	2771	632	98	2335
Moran, Peter G., Springfield, Ill. Apparatus for sinking shafts	715,834	Dec. 16	2266	504 505	101	2337
Moran, Stephen W., Boston, assignor of one-half to S. H. Hellen, Wakefield, Mass. Dispensing apparatus for liquids	710,291	Sept. 30	4440	1001 1002	100	2598
Moran, Thomas W., Louisville, Ky. Pivot-joint for pipes	694,321	Feb. 25	4065	964	98	1687
Moran, Thomas W., Louisville, Ky. Feed-water regulator and high or low water alarm for steam-boilers	695,325	Mar. 11	1878	418	98	2123
Moran, Thomas W., Louisville, Ky. Safety fuel-tank for automobiles	701,754	June 3	850	187	99	2286
Moran, William, South Norwalk, Conn. Ventilating-tunnel	714,985	Dec. 2	593	124	101	1953
Morani, Fausto, Rome, Italy. Electric furnace	701,218	May 27	4070	936 937	99	2066
Mordan and Company, S. (See Little, Charles E., assignor.)						
Moreau, Eugene, assignor to Britelite Lamp Company, New York, N. Y. Acetylene-gas generator	716,569	Dec. 23	3763	818	101	2668
Moreau, Eugene, assignor to Britelite Lamp Company, New York, N. Y. Acetylene-gas generator	716,570	Dec. 23	3765	819	101	2669
Morehead, John, Detroit, Mich. Steam-trap	709,347	Sept. 16	2574	580 581	100	2543
Morehouse, John W., Salt Lake City, Utah. Track-wrench	696,579	Apr. 1	333	79	99	74
Morehouse, Harrie. (See Griffith and Morehouse.)						
Morehouse, William H., Wasco, Oreg. Hammock-support	711,579	Oct. 21	2271	493	101	502
Morel, Louis A., Paris, France. Manufacturing gluten	698,584	Apr. 29	3996	883	99	900
Moreland, William A., and H. B. Redding, Pittsburg, Pa. Car-coupling	716,571	Dec. 23	3766	819	101	2669
Moreland, William H., et al. (See Miller, Jacob B., assignor.)						
Moreno, Charles A., et al. (See Frei, Zölestin, assignor.)						
Morenus, William H., Lakeview, Iowa, assignor to F. C. Austin, Chicago, Ill. Grading and ditching machine	690,451	Jan. 7	125	36, 27	98	28
Morenus, William H., Lakeview, Iowa, assignor to F. C. Austin, Chicago, Ill. Grading and excavating machine	709,921	Sept. 30	3738	842 843	100	2809
Moresi, Agricole P., and H. J. Bergeron, Jeanerette, La. Steam-engine	709,719	Sept. 23	3312	743 744	100	2708
Moreton, James A. M., et al. (See Rock, Frederick W., assignor.)						
Moretta, Lorenzo, Turin, Italy, assignor to Thornton Pickard Manufacturing Company, Limited, Altrincham, England. Focal-plane shutter	697,350	Apr. 8	1787	401	99	400
Morford, Milvern J., and G. E. Ambrose, Skidmore, Mo. Vermin-exterminator	698,723	Apr. 29	4424	976	99	1002
Morgal, Lewis E., assignor of one-half to C. B. Copley, Washington, D. C. Milk-aerator	694,296	Feb. 25	3962	882	98	1674
Morgal, Lewis E., assignor of one-half to C. B. Copley, Washington, D. C. Smoke-consumer	707,341	Aug. 19	2564	578	100	1677
Morgan, Alfred W., Urbana, Ill., assignor of one-half to F. Girty, administrator of G. I. Girty, deceased. Flying top	692,328	Feb. 11	2096	459	98	1256
Morgan, Charles E., Portland, Oreg., assignor to Automatic Street Indicator Company. Street-indicator for railway-cars	709,236	Sept. 16	2363	536	100	2407
Morgan, Charles H., assignor to Morgan Construction Company, Worcester, Mass. Furnace for heating billets	694,022	Feb. 25	3455	763	98	1571
Morgan, Charles H., assignor to Morgan Construction Company, Worcester, Mass. Hoisting and conveying apparatus for long metal bars or for similar purposes	710,920	Oct. 7	981	216 217	101	199
Morgan, Charles O., Redwood Falls, Minn. Metal-sawing apparatus	708,946	July 1	1050	228	100	209
Morgan Construction Company. (See Edwards, Victor E., assignor.)						
Morgan Construction Company. (See Edwards and Morgan, assignors.)						
Morgan Construction Company. (See George, Jerome R., assignor.)						
Morgan Construction Company. (See George and Edwards, assignor.)						
Morgan Construction Company. (See Morgan, Charles H., assignor.)						
Morgan, Daniel F., Toledo, Ohio. Hand-protector	703,211	June 24	3576	821	99	2895
Morgan, Daniel F., Toledo, Ohio. Glove	708,160	Sept. 2	2398	71	100	2043
Morgan, David E., Phenix, Ala. Foot and head supporter	707,860	Aug. 26	3331	818	100	1911
Morgan, David H., Cleveland, Ohio. Hoist	693,881	Feb. 25	3165	699	98	1513
Morgan, David J., Pittsburg, Pa. Ram	696,068	Mar. 25	3233	731 732	98	2434
Morgan, David J., Barry, England. Hand-power brake for railway-wagons	699,209	May 6	143	36	99	1205
Morgan, Edward M., Westmount, Canada. Inhaler	702,144	June 10	1551	351	99	2445
Morgan Engineering Company. (See Taylor, Clarence L., assignor.)						
Morgan-Gardner Electric Company. (See Cartledge, Frank, assignor.)						
Morgan, George J., and G. Tillotson, Shipley, England. Coin-operated vending-machine	696,742	Apr. 1	660	149 150	99	141
Morgan, George O., et al. (See Cohen, George W., assignor.)						
Morgan, Henry, assignor of one-half to J. O. Riley, Applecreek, Colo. Bar mixing-glass	698,732	Feb. 18	2880	634	98	1498
Morgan, Henry W., Rochester, N. Y. Nailing-machine	696,466	Apr. 7	133	32, 33	99	34
Morgan, Henry W., Lestershire, N. Y. Bicycle-lock	704,655	July 15	2399	519	100	57
Morgan, James, Ellwood City, Pa. Trolley	714,506	Nov. 25	3957	877	101	1700
Morgan, John E. (See Wallace, John G., assignor.)						
Morgan, John W., Detroit, Mich. Cabinet for displaying merchandise	695,473	Mar. 18	2123	478	98	2193
Morgan, John W., Jr., McKeesport, Pa. Manufacture of car-wheels	709,446	Sept. 16	2781	626	100	2586
Morgan, John W., San Antonio, Tex., assignor to Tennessee Felt Manufacturing Company, West Nashville, Tenn. Cotton-picker for forming mattress-bats	698,585	Apr. 29	3997	883	99	909
Morgan, Joseph, Johnstown, Pa. Apparatus for metal-rolling	691,159	Jan. 14	1468	333	98	321
Morgan, Lewis H., Plainfield, N. J. Stud setting and extracting tool	631,406	Jan. 21	1986	445	98	419
Morgan, Marshal W., Mount Vernon, Ind. Hydrocarbon-burner	705,948	July 29	5059	1101	100	1084
Morgan, Paul B. (See Edwards and Morgan.)						
Morgan, Ralph L. (See Dannenberg and Morgan.)						
Morgan, Ralph L., Toledo, Ohio, assignor to American Bicycle Company, Jersey City, N. J., and New York, N. Y. Boiler	630,981	Jan. 14	1166	264	98	259



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Morgan, Ralph L., Toledo, Ohio, assignor to American Bicycle Company, Jersey City, N. J., and New York, N. Y. Pump for vehicles	697,099	Apr. 8	1364	203	99	309
Morgan, Thomas M. (See Quarrie, Morgan, Gibson, and Coatsworth.)						
Morgan, Thomas R. (See Wellman, Seaver, and Morgan.)						
Morgan, William A., Dublin, Ind. Rotary engine or pump	717,244	Dec. 30	5170	1120 1121	101	2908
Morgan, William J., and M. M. Krepper, Owensboro, Ky. Hook and eye	715,594	Dec. 9	1703	898	101	2219
Morgan, William L., Burlington, Iowa. Toy paddle	692,693	Feb. 4	846	192	98	973
Morgan, William L., Burlington, Iowa. Detonating toy	692,694	Feb. 4	847	192	98	973
Morgans, William, Chelsea, England. Steam-generator	691,286	Jan. 14	1716	389 390 391	98	373
Moriarty, Harry. (See Folger, Moriarty, and Jacobson.)						
Moriarty, Thomas J., assignor of one-half to J. T. Reagan, Newport, R. I. Torpedo boat	691,160	Jan. 14	1470	333 334	98	321
Morin, Henry P. (See Loppé, Morin, Griner, and Martin.)						
Morin, Joseph F., Lawrence, Mass. Barrel-cover	699,804	May 13	1304	302	99	1456
Morin, Joseph F., Lawrence, Mass. Barrel-cover	699,805	May 13	1305	302	99	1456
Morison, Alexander, Saginaw, Mich., assignor of one-half to B. W. Gublit. Beet-digger.	712,951	Nov. 4	927	215	101	1980
Morison, Donald B., Hartlepool, England. Feed-water cleaner	700,068	May 13	1860	419	99	1590
Morison, Donald B., Hartlepool, England. Corrugated furnace for steam-boilers.	717,432	Dec. 30	5501	1193	101	3061
Morison, John. (See Wrightson and Morison.)						
Morith, Joseph G., Buffalo, N. Y. Pipe-wrench	705,596	July 29	4430	960	100	957
Moritz, Emil, L. N. Frymire, and S. Koons, Watstown, Pa. Radiator	705,110	July 22	3351	726	100	727
Mork, Harry S., Boston, A. D. Little, Brookline, and W. H. Walker, Newton, assignors, by mesne assignments, to Chemical Products Company, Boston, Mass. Making cellulose esters	709,922	Sept. 30	3742		100	2810
Mork, Harry S., Boston, A. D. Little, Brookline, and W. H. Walker, Newton, assignors, by mesne assignments, to Chemical Products Company, Boston, Mass. Artificial silk	712,200	Oct. 28	3480		101	767
Morlan, Eben T., Pittsburg, Pa. Compound truss-rail	702,579	June 17	2362	539	99	2631
Morley, Albert, assignor to S. M. Sutherland, trustee, Chicago, Ill. Folding sewing-machine table	693,419	Feb. 18	2279	499	98	1314
Morley, Alfred J., Victoria, Canada. Chair	702,234	June 10	1712	386	99	2477
Morley Button Manufacturing Company. (See Bennett, Walter E., assignor.)						
Morley Button Manufacturing Company. (See Eilers, Robert L., assignor.)						
Morley, Charles O., assignor of one-half to J. J. May, Brooklyn, N. Y. Rotary engine	705,274	July 22	3716	805 806	100	800
Morley, Frederic A., Brooklyn, N. Y. Parallel extensible ruler	692,794	Feb. 4	1033	232	98	1007
Morley, Joseph D., Lake Pleasant, N. Y. Dish-washing apparatus	707,443	Aug. 19	2746	621	100	1715
Moroney, Daniel M., et al. (See Howe, John C., assignor.)						
Morrell, Edward J., Quincy, Mass. Carpenter's folding square	704,074	July 8	1816	287	100	276
Morrell, James A., Lansdale, Pa., assignor of two-thirds to H. C. Stuart, Denver, Colo., and S. B. Allison, deceased, New Orleans, La.; C. A. Dorrestein, administrator. Apparatus for the manufacture of sugar	703,439	July 1	129	29,30	100	28
Morrill, Arthur J., and L. W. Northfield, Minneapolis, Minn.; said Morrill assignor to said Northfield. Milk-pail supporter	700,220	May 20	2157	494	99	1651
Morrill, Charles. (See Pearson, George F., assignor.)						
Morrill, Charles, deceased; S. C. Morrill, New York, N. Y., executrix. Hand-punch	699,210	May 6	144	36	99	1305
Morrill, Charles, deceased; S. C. Morrill, New York, N. Y., executrix. Saw-set	703,440	July 1	131	30	100	29
Morrill, Frank E., San Francisco, Cal. Game-board	705,776	July 29	4752	1029	100	1021
Morrill, George H., Jr. (See Saylor, Franklin G., assignor.)						
Morrill, Marcus T. (See Reed and Morrill.)						
Morrill, Roland, Benton Harbor, Mich. Sprayer	691,651	Jan. 21	2420	544	98	539
Morrill, Roland, Benton Harbor, Mich. Pump	691,652	Jan. 21	2423	544	98	539
Morrill, Sarah C., executrix. (See Morrill, Charles.)						
Morrill, William C., New York, N. Y. Bolt or spike extractor	712,082	Oct. 28	3278	718	101	727
Morrill, William C., New York, N. Y. Spike-extractor	712,083	Oct. 28	3278	718 719	101	728
Morrin, Thomas, San Francisco, Cal. Adjustable-handle socket	716,077	Dec. 16	2670	386 387	101	2447
Morris, Albert, Reedville, Va. Fish-drying apparatus	702,235	June 10	1713	387 1092 1093	99	2478
Morris, Alexander G., Tyrone, Pa. Crusher	698,990	Apr. 29	4938	1092 1093	99	1114
Morris, Anselmo P., Parma, Mich. Tank-mold	710,596	Oct. 7	385	81	101	77
Morris, Archie, et al. (See Clark, Spencer, assignor.)						
Morris, Calvin A., et al. (See Lockhart, Horatio J., assignor.)						
Morris, Calvin S., St. Louis, Mo. Sample-display case	695,326	Mar. 11	1882	419	98	2123
Morris, Calvin S., St. Louis, Mo. Folding sample-case	708,189	Sept. 2	885	200	100	2161
Morris, Calvin S., St. Louis, Mo. Folding display box or tray	708,490	Sept. 2	886	200	100	2161
Morris, Calvin S., St. Louis, Mo. Folding display-case	717,433	Dec. 30	5502	1193 1194	101	3062
Morris, Charles A., Glenridge, N. J. Hoisting and dumping apparatus	690,806	May 13	1306	302	99	1456
Morris, Charles E., et al. (See Avery, Edward R., assignor.)						
Morris, Charles I., et al. (See Morris, Margaret E., assignor.)						
Morris, Charles L., Fairbury, Nebr. Cream-separator	697,645	Apr. 15	2354	525	99	530
Morris, Charles W., Philadelphia, Pa. Salt-cellar	692,466	Feb. 4	429	101	98	887
Morris & Company. (See Morris and Staples, assignors.)						
Morris, Edgar H. (See Morris and Schmucker.)						
Morris Electric Company. (See Morris, Elmer P., assignor.)						
Morris, Elmer P., East Orange, N. J., assignor to Morris Electric Company, New York, N. Y. Rail-bond	710,794	Oct. 7	768	164	101	157
Morris, Emanuel S., St. Louis, Mo. Nut-lock	699,926	May 13	1558	359	99	1510
Morris, Francis E., et al. (See Morris, Margaret E., assignor.)						
Morris, George O., assignor of two-thirds to S. S. Crompton and G. H. McKinley, Moline, Ill. Device for automatically inflating pneumatic tires	690,601	Jan. 7	451	97	98	97
Morris, Harry P., assignor of one-half to J. C. Long, Chicago, Ill. Oil-atomizer	700,797	May 27	3305	738	99	1908
Morris, Henry B., Michigan City, Ind. Making chair-seats	711,580	Oct. 21	2272	493	101	502
Morris, Henry B., Michigan City, Ind. Chair-seat and making it	714,730	Dec. 2	152	30	101	1868
Morris, Henry S. (See Straus, Elise, assignor.)						
Morris, Ison, Humboldt, Iowa. Metal-shears	711,435	Oct. 14	1866	430	101	428
Morris, Jackson A. M., Leeper, Mo. Pencil	701,072	May 27	3807	872	99	2011
Morris, John, Jr., Eccles, England. Coupling for hose-pipes, &c	700,798	May 27	3307	758 759	99	1908
Morris, John B., et al. (See Hayward, Eugene, assignor.)						
Morris, John O. (See Phelps and Morris.)						
Morris, John O., Richmond, assignor of three-fifths to M. Moore, Danville, Va. Tobacco-stemmer	711,334	Oct. 14	1869	392 393	101	391

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Morris, John O., Richmond, assignor of three-fifths to M. Moore, Danville, Va. Tobacco-steamer	717,484	Dec. 30	5508	1184	101	3062
Morris, Joseph L., Lawrence, Kans. Condenser for ammonia-gas	712,704	Nov. 4	437	103	101	2822
Morris, Lewis E. and E. H., and C. L. Schuncker, Dixon, Ill. Oil or gasoline can	701,753	June 3	851	187	99	2286
Morris, Margaret E., assignor of six-sevenths to C. I. F. E., W. J., and R. M. Morris, C. J. Kennedy, and C. Ruemmler, St. Louis, Mo. Machine for packing shoe-uppers	715,210	Dec. 2	1072	280	101	2566
Morris, Nathan E., Jr. (See Maney, William H., assignor.)						
Morris, R. M., et al. (See Morris, Margaret E., assignor.)						
Morris, Robert, La Crosse, Wis. Yoke and draft-bar for couplings	700,357	May 30	2441	557	99	1710
Morris, Thomas G., Chicago, Ill. Floor-hinge	700,321	May 20	2158	494	99	1652
Morris, W. J., et al. (See Morris, Margaret E., assignor.)						
Morris, Warren L., and E. D. Smith, Woodland, Cal. Olive crusher and pitter	717,245	Dec. 30	5174	1121	101	2094
Morris, William L., Cleveland, Ohio. Blow-off valve	694,773	Mar. 4	850	188	98	1891
Morris, William L., Cleveland, Ohio. Pot for containing shellac, &c.	704,204	July 8	1576	340	100	330
Morris, William L., assignor to Austin Cartridge Company, Cleveland, Ohio. Printing device	709,552	Sept. 23	3028	674	100	2650
Morris, William M., Yardville, and E. M. Staples, Elizabeth, N. J., assignors to Morris & Company. Basket of textile material	701,495	June 3	380	87	99	2188
Morris, William M., and E. M. Staples, assignors to Morris & Company, Yardville, N. J. Canvas basket	715,116	Dec. 2	895	191	101	2020
Morris, William R., Cripplecreek, Colo. Ore or grain sack	695,693	Mar. 18	2541	575	98	2277
Morrissey, James H., San Francisco, Cal. Hydrocarbon-burner	713,962	Nov. 18	2787	619	101	1505
Morrison, Alexander G. (See Hepburn and Morrison.)						
Morrison, Andrew G., Pittsburgh, Pa. Rail	714,010	Nov. 18	2994	666	101	1348
Morrison, Andrew, Pittsburgh, Pa. Rail	714,011	Nov. 18	2995	666	101	1348
Morrison, Eugene T. (See Andrews and Morrison.)						
Morrison, Ezra L., et al. (See Deviese, John T., assignor.)						
Morrison, Fred C., Chicago, Ill. Can-labeling machine	709,499	Sept. 23	2921	651 652 653 654	100	2628
Morrison, James, Toronto, Canada. Compression-valve	702,878	June 17	2918	674	99	2747
Morrison, John C., et al. (See Deviese, John T., assignor.)						
Morrison, John H., Kingsbridge, N. Y. Skate-clamp	702,145	June 10	1552	351	99	2446
Morrison, Joseph B., assignor to Morrison Manufacturing Company, Fort Madison, Iowa. Harrow	693,882	Feb. 25	3166	700	98	1513
Morrison Manufacturing Company. (See Morrison, Joseph B., assignor.)						
Morrison, Thomas, Braddock, Pa. Chimney-valve for hot-blast stoves	691,478	Jan. 21	2103	472	98	472
Morrison, Thomas, Braddock, Pa. Feed-table mechanism	704,890	July 15	2836	614	100	607
Morrison, Willard A., and F. L. Bryant, Chicago, Ill. Clamp for metal bedsteads	693,562	Feb. 18	2547	561	98	1370
Morrison, William, assignor to Helios-Upton Company, Chicago, Ill. Forming secondary-battery electrodes	701,915	June 10	1130	258	99	2360
Morrison, William, assignor to Helios-Upton Company, Chicago, Ill. Saw for making secondary-battery grids	701,916	June 10	1131	259	99	2360
Morrison, William, assignor to Helios-Upton Company, Chicago, Ill. Secondary battery	701,917	June 10	1132	259	99	2361
Morrison, William, assignor to Helios-Upton Company, Chicago, Ill. Means for preventing the distortion of secondary-battery plates during forming	701,918	June 10	1134	260	99	2361
Morrison, William, Chicago, Ill., assignor to Helios-Upton Company. Forming electric accumulators	711,997	Oct. 28	3110	-----	101	695
Morrison, William, assignor to K. Upton, Chicago, Ill. Secondary battery	717,107	Dec. 30	4879	-----	101	2380
Morrison, William, assignor to K. Upton, Chicago, Ill. Secondary battery	717,108	Dec. 30	4880	-----	101	2380
Morrison, William, Lansingburg, assignor to Universal Brush Company, Troy, N. Y. Brush	717,014	Dec. 30	4714	1023	101	2394
Morrison, William O. N., Belvidere, Ill. Bread-cutter	709,553	Sept. 23	3032	676	100	2651
Morrison, William W., Ellsworth, Me., assignor to Wagner Typewriter Company, New York, N. Y. Type-writing machine	705,423	July 22	4028	873	100	865
Morrissey, Thomas F., West Orange, N. J., assignor of two-thirds to J. M. and D. D. Schwartz, New York, N. Y. Button-machine	704,256	July 8	1859	1402 1403	100	393
Morrissey, William L., Summit, N. J. Horse-hopple	708,063	Sept. 2	118	28	100	2006
Morrow, Alexander P., Elmira, N. Y. Bicycle	693,299	Feb. 11	2043	445	98	1244
Morrow, David J. and J. C., Peoria, N. Y. Bean-harvester	717,435	Dec. 30	5505	1195	101	9362
Morrow, Henry W. (See Britton and Morrow.)						
Morrow, Isaac, Manheim, assignor to C. N. Hostetter, Penn township, Pa. Incubator	714,596	Nov. 25	4122	912	101	1797
Morrow, John. (See Markham, Andrew J., assignor.)						
Morrow, John C. (See Morrow, David J., and J. C.)						
Morrow, Norman, et al. (See Dempster, Robert, assignor.)						
Morrow, Oliver A., Whitehall, Ill. Gate	715,117	Dec. 2	898	192	101	2020
Morrow Protective Process Company. (See Curtiss, George W., assignor.)						
Mors, Emile L. P., Paris, France. Speed and direction changing mechanism	701,073	May 27	3808	873	99	2011
Mors, Emile L. P., assignor to Société Anonyme d'Electricité et d'Automobiles Mors, Paris, France. Carburetor for explosive-motors	714,597	Nov. 25	4124	913	101	1797
Morse, Alfred B., Boston, Mass. Assignments, to Universal Winding Company, Boston, Mass. Winding machine	695,645	Mar. 18	2463	558	98	2263
Morse, Annie E., Montreal, Canada. Cap	690,982	Jan. 14	1167	264	98	259
Morse Chain Company. (See Morse, Frank L., assignor.)						
Morse, Charles N., et al. (See Priest, Louis, assignor.)						
Morse, Clyde S., Shabbona, Ill. End-board for farm-wagons	706,434	Aug. 5	885	161	100	1249
Morse, Dathan, and N. J. Lampan, Pittsford, Pa. Vehicle-hub	715,335	Dec. 16	2268	505	101	2338
Morse, Edward H., New Orleans, La. Folding magazine hand-camera	709,995	Sept. 30	3885	877	100	2840
Morse, Edward R., Birmingham, Ala. Ice-cream freezer	692,059	Jan. 28	3202	722	98	714
Morse, Everett F., Trumansburg, N. Y. Gaging temperatures of heated substances	696,878	Apr. 1	909	210	99	192
Morse, Everett F., Trumansburg, N. Y. Apparatus for gaging temperatures of heated substances	696,916	Apr. 1	1006	224	99	212
Morse, Frank L., assignor to Morse Chain Company, Trumansburg, N. Y. Chain-wheel	698,961	Apr. 29	4939	1093	99	1115
Morse, Frank W., Boston, Mass. Incandescent-lamp support	695,646	Mar. 18	2466	559	98	2264
Morse, James M. (See Morse, Walter, assignor.)						
Morse, James W., Barron, Wis. Nailless horseshoe	697,155	Apr. 8	1452	326	99	328
Morse, John E., Lynn, Mass. Medium for polishing parts of boots or shoes	699,628	May 6	948	219	99	1370
Morse, Stephen A., Oklahoma, Okla. Ter. Inhaler	717,436	Dec. 30	5507	1195	101	3063
Morse, Stephen B., Rahway, N. J. Hydrocarbon-lamp	691,068	Jan. 14	1323	299	98	291
Morse, Stephen B., Rahway, N. J. Combined curb and gutter	691,794	Jan. 28	2713	611	98	618
Morse, Stephen M., Pigeon Cove, Mass. Door-latch	691,797	Nov. 4	209	49	101	941
Morse Twist Drill and Machine Company. (See Abraham, Thomas, assignor.)						
Morse, Walter, assignor of one-half to J. M. Morse, Sharon, Md. Can-cap-soldering iron	713,605	Nov. 18	2331	520	101	1407



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Morse, Williams and Company. (See Harvey, Minor, assignor.)						
Morsehead, William, Yale, Mich. Safety-gust for railways	714,507	Nov. 25	3959	877	101	1761
Morsell, Arthur L. Milwaukee, Wis. Revolving chair	699,889	May 13	1491	343	99	1497
Morss, Leonidas W. (See Doney, Alfred, assignor.)						
Morss, Stephen B. Rahway, N. J. Lamp-burner	701,919	June 10	1135	260	99	2361
Morss, Stephen B. Rahway, N. J. Ore-heater	715,836	Dec. 16	2270	505	101	2388
Morten, Alexander, New York, N. Y. Moisture-proof cigar-box	704,962	July 15	2855	619	100	612
Mortenson, Morten. (See Nolan and Mortenson.)						
Mortimer, Charles G. Brooklyn, N. Y. Printing-press	696,145	Mar. 25	3423	768	98	2175
Morton, Ephraim S., Brockton, Mass. Last	694,659	Mar. 4	619	134	98	1843
Morton, Henry E. See Morton, Matthew and H. E.)						
Morton, Isaac W., St. Louis, Mo. Sleeping-bag	713,339	Nov. 11	1689	381	101	1259
Morton, James R. U. (See Morton, William U. and J. R. U.)						
Morton Manufacturing Company. (See Morton and Evans, assignors.)						
Morton, Matthew and H. E., Muskegon Heights, Mich. Counterbalance for traveling head-shapers, &c.	713,903	Nov. 18	2789	619	101	1505
Morton, Philancy D., Lemoyne, Ohio. Spool-holding frame	691,287	Jan. 14	1720	391	98	374
Morton, Robert L. (See Morton and Evans.)						
Morton, Samuel S., W. S., and R. L. W., and W. H. Evans, York, Pa., assignors, by mesne assignments, to Morton Manufacturing Company. Traction-engine	706,191	Aug. 5	368	79	100	1192
Morton Trust Company, trustee. (See Maxim, Hiram P., assignor.)						
Morton Trust Company, trustee. (See Riker, Andrew L., assignor.)						
Morton, Walter S. (See Morton and Evans.)						
Morton, William C., Barnes, England. Wheel	714,231	Nov. 25	3439	756	101	1659
Morton, William J., New York, N. Y. Dispersing fluids	705,691	July 20	4591	996	100	989
Morton, William Q. (See Leach, Eugene W., assignor.)						
Morton, William U. and J. R. U., Glasgow, Scotland. Eyelet-sewing machine	696,069	Mar. 25	3237	732	98	2435
Mosbaugh, Henry, Wilkensburg, Pa. Palm-rest for firearms	703,964	July 1	1098	236	100	2176
Mosbach, Jr., Philadelphia, Pa. Ice-cream freezer	701,370	June 3	1135	334	99	2140
Moseley, Charles S., assignor of one-half to C. S. Perry, Chicago, Ill. Time-stamp	690,910	Jan. 7	1025	241	98	214
Moseley, W. Gray. (See Mayo, David C., assignor.)						
Moseley, William M., Elgin, Ill. Exercising device	708,242	Sept. 2	455	103	100	2074
Moseley, Maurice E. (See Lion, Moseley, and Sproule.)						
Moser, Fred, assignor of one-half to F. A. Harmon, Auburn, N. Y. Nut-lock	710,795	Oct. 7	769	164	101	157
Moser, Fred J., Kane, Pa. Head for oil-wells	714,508	Nov. 25	3961	878	101	1761
Moser, Jakob. (See Papper, Moser, and Beckle.)						
Moser, Thomas G., Elon College, N. C. Handle for a number of implements	696,995	Apr. 8	1171	262	99	269
Moses, Alfred H., assignor to J. N. Moses & Co., St. Louis, Mo. Masonry wall and bricks for same	707,444	Aug. 19	2747	632	100	1716
Moses & Co., J. N. (See Moses, Alfred H., assignor.)						
Moses, Edward F., Moberly, Mo., and J. Lange, Litchfield, Ill. Train-signal lamp	697,868	Apr. 15	2766	613	99	630
Moses, John, Youngstown, Iowa. Car-dump for elevators in mines	692,888	Feb. 11	1221	270	98	1076
Mosher, Charles D., New York, N. Y. Motor-vehicle	697,646	Apr. 15	2356	525	99	630
Mosher, Charles P., Philadelphia, Pa. Cherry-stoner	690,983	Jan. 14	1168	264	98	259
Mosher, Charles P., Philadelphia, Pa. Liquid-measuring pump	712,836	Nov. 4	701	162	101	1042
Mosher, De Witt C., Colorado City, assignor to C. M. MacNeill, Colorado Springs, Colo. Barrel filter	699,211	May 6	145	37	99	1205
Mosher, De Witt C., Colorado City, assignor to C. M. MacNeill, Colorado Springs, Colo. Barrel filter	699,212	May 6	147	37	99	1205
Mosher, Frank B., M. J. Scheel, and E. H. H. Marting, Cleveland, Ohio. Changeable directory-board	705,275	July 22	3718	806	100	801
Mosher, George A., Troy, N. Y. Button-setting machine	693,048	Feb. 11	1527	333	98	1141
Mosher, John A. (See Hamm and Mosher.)						
Mosher, John A., Chicago, Ill. Rheostat	705,112	July 22	3354	727	100	738
Mosher, John A., Chicago, Ill., assignor to Adams and Westlake Company. Acetylene-gas generator	701,598	June 3	577	126	99	2228
Mosher, John A., Chicago, Ill., assignor to Adams & Westlake Company. Electric gas-igniting device	705,111	July 22	3352	727	100	728
Mosher, John A., Chicago, Ill., assignor to Adams & Westlake Company. Safety device for water-gages	705,113	July 22	3355	727	100	728
Mosher, John A., Chicago, Ill., assignor to Adams & Westlake Company. Gas-storage tank	705,114	July 22	3357	727	100	729
Mosher, John A., Chicago, Ill., assignor to Adams & Westlake Company. Acetylene-gas generator	705,115	July 22	3358	728	100	729
Moskowitz, Morris, Brooklyn, assignor to J. H. Young, trustee, New York, N. Y. Automatic pole-reverser	706,082	Aug. 5	155	32	100	1148
Moskowitz, Morris, Brooklyn, assignor to J. H. Young, trustee, New York, N. Y. Automatic switch	706,083	Aug. 5	157	32	100	1148
Moskowitz, Morris, Brooklyn, assignor to J. H. Young, trustee, New York, N. Y. Automatic switch	706,084	Aug. 5	158	33	100	1148
Moskowitz, Morris, Brooklyn, assignor to J. H. Young, trustee, New York, N. Y. Electrical system for lighting and power	706,085	Aug. 5	159	33	100	1149
Mosler, Arthur R., New York, N. Y. Electric ignition device	698,042	Apr. 22	3078	678	99	702
Mosley, John H., Dob, Ark. Harrow	698,536	Apr. 29	3998	884	99	909
Mosley, William H., and H. G. Robb, Midland, Canada. Porcelain facing for crown and bridge work	712,705	Nov. 4	429	103	101	968
Moss, Beverly G., Washington, N. C. Lumber-measurer	694,405	Mar. 4	133	29	98	1740
Moss, Eric, Port Arthur, Tex. Bicycle-support	702,892	June 17	2890	669	99	2742
Moss, Leon F. (See Bell, Walter J., assignor.)						
Moss, Myer H., Chicago, Ill. Adjustable mirror	707,151	Aug. 19	2202	493	100	1601
Moss, William H., Port Huron, Mich. Lawn-trimmer	695,166	Mar. 11	1593	354	98	2066
Mossberg, Frank, Attleboro, Mass. Wrench	695,072	Mar. 11	1416	310	98	2029
Mossberg, Frank, Attleboro, Mass. Apparatus for sharpening pencils	715,499	Dec. 9	1612	349	101	2182
Mossberg & Granville Manufacturing Company. (See Arnold, Lucius F., assignor.)						
Mossberg, Oscar F., assignor to M. E. Johnson, Fitchburg, Mass., executrix of Iver Johnson, deceased. Firearm-lock	697,516	Apr. 15	2123	472	99	485
Mossberg, Oscar F., assignor to M. E. Johnson, Fitchburg, Mass., executrix of Iver Johnson, deceased. Revolving firearm	697,517	Apr. 15	2125	472	99	485
Mossberg, Wendell C., (See Wardwell and Ricker, assignors.)						
Mossman, James, Westerville, Ohio. Combined wire stretcher, cutter, splicer, and staple-puller	699,213	May 6	148	37	99	1205
Most, John, Jersey City, N. J., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Plait-folder for sewing-machines	712,390	Oct. 28	3833	837	101	843
Mosterts, Franz, Berlin, Germany. Comb	715,837	Dec. 16	2271	505	101	2389

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Mothander, John J., <i>et al.</i> (See Darwin, Frank L., assignor.)						
Motsinger Device Manufacturing Company. (See Motsinger, Homer N., assignor.)						
Motsinger, Homer N., Pendleton, Ind. Engine	695,824	Mar. 18	2772	632 633	98	2325
Motsinger, Homer N., Pendleton, Ind., assignor of one-half to J. B. Bartholomew, Peoria, Ill. Muffler	706,844	Aug. 12	1641	367	100	1471
Motsinger, Homer N., assignor to Motsinger Device Manufacturing Company, Pendleton, Ind. Speed-controlling governor	710,597	Oct. 7	387	81	101	77
Mott, Charles P., Milford, Pa. Portable house	696,906	Apr. 8	1172	262 263	99	269
Mott, Jordan L., Jr., assignor to J. L. Mott Iron Works, New York, N. Y. Ship's water-closet	712,146	Oct. 28	3393	744	101	750
Mott, Kirk A., Avalon, Mo. Skiascope	696,350	Mar. 25	3826	833	98	2558
Mott, Laurence, New York, N. Y. Speed-indicator	716,263	Dec. 16	3132	686	101	2522
Mott, Samuel D., Passaic, N. J., assignor, by mesne assignments, to Standard Power Company, New York, N. Y. Hydrocarbon-burner	695,223	Mar. 11	1702	377	98	2088
Motter, William H., Denver, Colo. Combined ore-roasting and fume-saving apparatus	708,977	Sept. 9	1827	420 421	100	2367
Motz, Emanuel, Jefferson, S. C. Cotton-baling machine	696,743	Apr. 1	663	150	99	142
Mouat, Thomas. (See Hyson and Mouat.)						
Moulton, Carrie E., Washington, D. C. Book-holder	697,518	Apr. 15	2126	473	99	485
Moulton, Carrie E., Washington, D. C. Window-bracket	699,214	May 6	150	37	99	1206
Moulton, Edward C., San Jose, Cal. Car-fender	708,899	Sept. 9	1679	386	100	2338
Moulton, Susan P., Salem, Mass. Car-coupling	693,733	Feb. 18	2881	634	98	1438
Mounce, Joseph L. (See Smith and Mounce.)						
Mount, E. E., <i>et al.</i> (See Byars, Edgar, assignor.)						
Mount, S. H., <i>et al.</i> (See Byars, Edgar, assignor.)						
Mount, T. S., <i>et al.</i> (See Byars, Edgar, assignor.)						
Mountford, Clarence E. (See Seybold and Mountford.)						
Mountford, Sidney, Newark, N. J. Tape-holder	700,698	May 20	3063	701	99	1846
Mountford, Sidney, assignor to Whitehead & Hoag Company, Newark, N. J. Cigar-perforator	706,679	Aug. 12	1315	291	100	1401
Mousseette, Oliver J., Rockaway Beach, N. Y. Acetylene-gas generator	698,308	Apr. 22	3305	732 733	99	810
Moussier, Lucie. (See Pottin and Moussier.)						
Mowat, Oliver M., McKeesport, Pa. Drill and lathe chuck	713,478	Nov. 11	1946	110	101	1314
Mower, Charles W. (See Griffiths, Hitzrot, and Mower.)						
Mowery, William R., <i>et al.</i> (See Loffi, George, assignor.)						
Moxie Nerve Food Company of New England. (See Thompson and Young, assignors.)						
Moyer, Harry V., <i>et al.</i> (See Raff, James E., assignor.)						
Moyer, Horace D., Hazelton, Pa. Salting peanuts	692,327	Feb. 4	194	45	98	839
Moyer, Jacob T., Milford Square, Pa. Drawer attachment	715,681	Dec. 9	1947	435	101	2252
Moyer, James C., Burlington, Iowa. Combined fire poker and tongs	703,947	July 1	1052	228	100	209
Moyer, Wilson E., Richland Station, Pa. Tin sealing-wax can	704,075	July 8	1317	287	100	276
Moyers, William R., assignor of one-half to M. Cary, Chattanooga, Tenn. Feeding mechanism for presses	712,400	Oct. 28	3835	837 838	101	844
Moyle, Leigh, assignor, by mesne assignments, to Handlan-Buck Manufacturing Company, St. Louis, Mo. Hose or pipe coupling	692,795	Feb. 4	1034	232	98	1007
Moyle, Richard L., assignor of one-third to J. H. Warner, New York, N. Y. Tile floor	695,621	Mar. 18	2419	547	98	2254
Moyle, Richard L., assignor of one-third to J. H. Warner, New York, N. Y. Combination-tile for floors	695,647	Mar. 18	2468	559	98	2264
Mrsny, Charley J., Clarkson, Nehr. Horse-detacher	699,546	May 13	1399	323	99	1476
Muehnic, Charles M., Philadelphia, Pa. Compound locomotive-engine	705,602	July 29	4594	997	100	989
Muck, Ulysses G. (See Mann and Muck.)						
Muckle, John S., <i>et al.</i> (See Muckle, Mark R., Jr., assignor.)						
Muckle, Mark R., Jr., assignor of one-third to J. S. Muckle and T. C. Smith, Philadelphia, Pa. Locking device for elevators	702,373	June 10	1954	444	99	3526
Mudd, Almira A., St. Louis, Mo. Garment-supporter	710,292	Sept. 30	4445	1002	100	2659
Mudd, George V., Moberly, Mo. Rotary shears	709,106	Sept. 16	2107	483	100	2444
Mudd, William R., Cincinnati, Ohio. Metal window and window-frame	709,237	Sept. 16	2396	587	100	2498
Muddiman, Henry C. (See Ransdell and Muddiman.)						
Muddox, H. C. (See Sears, Robert B., assignor.)						
Muehlberg, Karl O., Braddock, Pa. Center-square	694,774	Mar. 4	851	188	98	1892
Mueller, Adolph, <i>et al.</i> (See Savage, Thomas A., assignor.)						
Mueller, Carl P., Dallas, Tex. Easel	694,979	Mar. 11	1244	272	98	1693
Mueller, Charles F., Elizabeth, N. J. Bevel	695,110	Mar. 11	1477	329	98	2041
Mueller, Herman C., and E. Laugenbeck to J. Zanesville, Ohio. Glazing tile	693,220	Feb. 18	2280	499	98	1314
Mueller, John, Lisbon, N. D. Tool-handle	691,562	Jan. 21	2345	506	98	502
Mueller, Joseph E., Cairo, Ill. Sifter	696,997	Apr. 8	1175	263 264	99	269
Mueller, Karl. (See Biersach, Louis, assignor.)						
Mueller, Samuel, Jersey City, N. J. Apparatus for cleaning dies or forms	716,459	Dec. 23	3525	771	101	2618
Mueller, William P. (See Schmidt and Mueller.)						
Muenger, Fredrick, assignor of one-half to C. von Woehrmann, Hill City, S. D. Drift-pin for drilling-machines	693,049	Feb. 11	1534	334	98	1142
Mues, Joachim D. (See Bergstraesser, Handel, and Mues.)						
Muffy, Sidney T., Bowdree, Ga., assignor of one-half to R. Pyatt, New York, N. Y. Apparatus for treating ores	710,495	Oct. 7	181	39	101	38
Muffy, Sidney T., Bowdree, Ga., assignor of one-half to R. Pyatt, New York, N. Y. Treating ores	710,496	Oct. 7	184	39, 40	101	39
Muffy, Sidney T., Bowdree, Ga., assignor of one-half to R. Pyatt, New York, N. Y. Apparatus for separating metals from solutions containing same	714,598	Nov. 25	4126	912	101	1797
Muffy, Sidney T., Bowdree, Ga., assignor of one-half to R. Pyatt, New York, N. Y. Precipitating metals from solutions containing same	714,599	Nov. 25	4128	913	101	1798
Mugnier, Joseph, Lyons, France. Fabric	692,467	Feb. 4	431	101	98	887
Muir, Alexander, Joliet, Ill. Boiler-furnace	709,005	Sept. 23	3117	694	100	2669
Muir, Hugh, Chicago, Ill. Friction-clutch	710,988	Oct. 14	1112	245	101	244
Mulder, Jelte R., Roselawn, Ind. Attachment for corn-planters	700,540	May 20	2797	638 639	99	1783
Mules, William, Penarth, England. Golf-club	708,575	Sept. 9	1082	233	100	2201
Mulford, Harry K., Philadelphia, Pa. Vaccination-shield	708,290	June 24	3700	852	99	2921
Mulholland, John. (See Malmstrom and Ackerman, assignors.)						
Mulholland, Richard, Dunkirk, N. Y. Rubber-tired wheel	696,688	Apr. 1	549	126	99	119
Mulkey, David F., Soddy, Tenn. Circuit-closer	706,435	Aug. 5	886	191	100	1294



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Mullan, Arthur, San Francisco, Cal. Apparatus for unloading ships' cargoes.....	700,799	May 27	3308	759	99	1908
Mullany, Patrick W., Amberg, Wis. Tool for banding boxes.....	708,161	Sept. 2	3808	71	100	2043
Mullen, Clarence R. (See String, Benjamin T., assignor.)						
Mullen, Daniel J., Middletown, Ohio. Bag-making machine.....	692,695	Feb. 4	848	192 193 194	98	97
Mullen, James A., and E. J. Pope, Holyoke, Mass. Machine for treating paper-stock.....	712,837	Nov. 4	704	163	101	1043
Mullen, Michael. (See Dean and Thomas, assignors.)						
Mullen, William G., Pomona, Cal. Shoe-duster.....	700,069	May 13	1611	420	99	1560
Müllendorff, Eugen, Berlin, Germany. Mechanism for justifying lines composed of types or matrices.....	705,693	July 29	4597	997 998 999	100	990
Müller, Carl, Bretten, Germany. Hat-block.....	697,214	Apr. 8	1554	348	99	350
Müller, Carl L. and E. Schmid, assignors to Badische Anilin & Soda Fabrik, Ludwigs-hafen-on-the-Rhine, Germany. Acridin dye.....	716,264	Dec. 16	3134		101	2522
Müller, Caroline, New Orleans, La. Lifter and carrier for bath-tubs, &c.....	693,300	Feb. 11	2044	446	98	1244
Müller, Charles A., New York, N. Y. Photographic-shutter mechanism.....	709,500	Sept. 23	2930	654	100	2680
Müller, Charles E., Paterson, and J. E. Jackson, North Haledon, N. J. Stop-motion for looms.....	700,969	May 27	3615	831	99	1269
Müller, Eduard, Thoun, Switzerland, assignor to F. Krupp, Essen, Germany. Maga-zine for fixed ammunition.....	710,706	Oct. 7	584	123 124	101	120
Müller, Edward A., Springfield, Ohio. Hand and power screw-press.....	693,980	Feb. 25	3377	742	98	1555
Müller, Edward J., Brooklyn, N. Y. Water-heater.....	694,660	Mar. 4	620	134	98	1844
Müller, Ejnar J., Pittsburg, Pa., assignor to Pressed Steel Car Company, Jersey City, N. J. Car-door mechanism.....	707,342	Aug. 19	2565	578	100	1677
Müller, Ernest W., assignor to H. Krantz, Brooklyn, N. Y. Electrical outlet-box.....	699,215	May 6	151	38	99	1206
Müller, Ernest W., assignor to H. Krantz, Brooklyn, N. Y. Electrical-panel-board at-tachment.....	705,424	July 22	4031	874	100	866
Müller, Ernest W., assignor to H. Krantz, Brooklyn, N. Y. Outlet-box.....	714,600	Nov. 25	4131	914	101	1798
Müller, Frank, Philadelphia, Pa. Lock for milk-receptacles.....	700,358	May 20	2442	557	99	1710
Müller, Frank J., Philadelphia, Pa. Pen-wiper.....	716,740	Dec. 23	4062	890	101	2732
Müller, Frederick C., Brooklyn, N. Y. Electric railway-signal.....	713,145	June 24	3447	790	99	2670
Müller, Gustav, Düsseldorf, assignor to Firm Rheinische Metallwaren-und Maschinen-fabrik, Düsseldorf-Derendorf, Prussia, Germany. Cartridge.....	705,949	July 29	5060	1102	100	1084
Müller, Henry. (See Reinhold, Charles, assignor.)						
Müller, Hermann, Leipzig, Germany. Power-indicator.....	700,150	May 13	1993	457	99	1595
Müller, Hugo, and W. A. Jackson, Oakland, Cal. Interchangeable fork-crown.....	714,936	Dec. 2	504	124	101	1953
Müller, John D., New York, N. Y. Clothes-line fastener.....	698,992	Apr. 29	4940	1093	99	1115
Müller, John P., assignor to E. M. Gubsch & Co., New York, N. Y. Charring-tool for ornamenting wood.....	695,884	Mar. 18	2883	653	98	2350
Müller, Josef. (See Guhl and Müller.)						
Müller, Joseph, Allegheny, Pa. Dipping-tank.....	715,682	Dec. 9	1948	436	101	2252
Müller, Louis, Chicago, Ill. Cigar-holder.....	692,026	Jan. 28	3132	705	98	700
Müller, Otto, Charlottenburg, Germany. Boot or shoe cleaning machine.....	715,118	Dec. 2	899	192 193	101	2021
Muller, Paul, Newark, N. J., assignor to Sprague Electric Company, New York, N. Y. Brake-controller.....	706,066	Aug. 5	162	33	100	1150
Müller-Rau, Bernhard. (See De Meulemeester, Emile, assignor.)						
Muller, Tage, New York, N. Y., assignor to Auto-Electric Air Pump Company. Electric switch.....	713,133	Nov. 11	1266	287	101	1174
Müller, Teile H., New York, N. Y. Apparatus for producing gas.....	703,580	June 17	2364	540	99	2632
Müller, Theodore J. F., Portland, Oreg. Nonrefillable bottle.....	713,226	Nov. 11	1461	331	101	1213
Müller-Thym, Lambert A., J., New York, N. Y. Sign.....	716,078	Dec. 16	2770	611	01	2447
Müller, Walter J., Aurora, assignor to Bauer & Black, Chicago, Ill. Adhesive shield.....	706,250	Aug. 5	474	101	100	1212
Mulhigan, Bartley T., Brooklyn, N. Y. Pencil.....	694,879	Mar. 4	1048	232	98	1033
Mulikin, Levin H., Trappe, Md. Combined lock and latch.....	697,156	Apr. 8	1454	337	99	328
Mullins, John L., assignor of one-half to M. S. Nelms, Greenfield, Ark. Holder for pens or pencils.....	713,134	Nov. 11	1267	287	101	1175
Mulloy, William H., St. Louis, Mo. Mail-package box.....	716,921	Dec. 30	4525	982	101	2855
Mulroney, Anna M., et al., executors. (See Harvey, Isaac, assignor.)						
Mulroney, J. R., et al., executors. (See Harvey, Isaac, assignor.)						
Mulroney, John P., Plaza, Wash. Plow.....	709,028	Sept. 16	1951	447	100	2410
Mulvaney, John P. (See Gray, Christian N. E., assignor.)						
Mumford, Edgar H., Plainfield, N. J. Stripping-plate.....	694,489	Mar. 4	280	64	98	1771
Mumford, Frank T., Kalgoorlie, Western Australia, Australia. Apparatus for the elec-trolytical treatment of ores or minerals.....	706,496	Aug. 5	887	191	100	1294
Mumford, Joseph A., Roslyn, N. Y. Sand-drier.....	696,580	Apr. 1	335	80	99	74
Mumford, Joseph A., Roslyn, N. Y. Self-loading bucket for dredging.....	696,581	Apr. 1	337	80	99	74
Mumford, Joseph F., Philadelphia, Pa. Making brushes.....	696,104	Mar. 25	3323	750	98	2454
Mumford, Joseph F., Philadelphia, Pa. Machine for making brushes.....	711,065	Oct. 14	1280	278 279	101	279
Mumma, Abraham L., Mechanicsburg, Ohio. Mail-carrier.....	703,441	July 1	133	30	100	29
Mummendey, Ernst, Berghausen-on-the-Erft, Germany. Pipette.....	697,647	Apr. 15	2358	526	99	531
Munch, Arthur, St. Paul, Minn. Traveling lawn-sprinkler.....	693,421	Feb. 18	2281	500	98	1314
Munch, Arthur, St. Paul, Minn. Flue-expander.....	711,581	Oct. 21	2274	494	101	502
Muncie Gas Engine and Supply Company. (See Guthrie, George H., assignor.)						
Munckton, Sidney, Bournemouth, England. Apparatus for cleaning or polishing si-phones.....	695,735	Mar. 18	2641	600	98	2208
Mund, Chas. (See Mund, Samuel, assignor.)						
Mund, Mamie E. (See Mund, Samuel, assignor.)						
Mund, Samuel, St. Joseph, Mo., assignor to M. E. Mund. Combination hat conformator, stretcher, &c.....	717,109	Dec. 30	4880	1037	101	2930
Munday, James F., et al. (See Norton, James A., assignor.)	703,442	July 1	135	31	100	29
Mundheim, Samuel, Fall River, Mass. Bandbox-stay.....	696,182	Mar. 25	3489	781	98	2487
Mundy, Joseph S. (See Campbell, Colin, assignor.)						
Munzer, Ernie, Dallas, Tex. Stop and waste cock.....	694,880	Mar. 4	1050	232	98	1934
Municipal Lighting Company. (See Proskye, Winfield S., assignor.)						
Munkwitz, Edward H. (See Leiden, Nicolaus, assignor.)						
Munn, Daniel J., et al. (See Kellington, John, assignor.)						
Munns, Edsey A. (See Burns, Henry B., assignor.)						
Munro, James H., Newark, N. J. Setting tiles.....	706,474	Aug. 5	950	267	100	1308
Munro, R. E. (See West, Louis G. M., assignor.)						
Munson, Harvey S., New Haven, Conn. Machine for refolding paper tubes.....	709,501	Sept. 23	2934	651 655	100	2631

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Munson, Harvey S., New Haven, Conn. Machine for refolding paper tubes .....	709,502	Sept. 23	2088	655	100	2632
Munson, Harvey S., New Haven, Conn. Machine for refolding paper tubes .....	709,503	Sept. 23	2341	656	100	2632
Munson, Swaney, Alliance, Nebr. Compound-engine valve .....	691,161	Jan. 14	1478	834	98	322
Munton, James. (See Hermanson, Gustaf A., assignor.)						
Muntz, Louis M. A., Winona, Minn. Respirator .....	708,948	July 1	1053	220	100	209
Muntz, William C., San Antonio, Tex. Siphon .....	710,598	Oct. 7	388	81	101	77
Munz, Charles W., Detroit, Mich. Extension table .....	700,222	May 20	2160	495	99	1652
Murch, William W., assignor of one-half to J. R. Parker, Brooklyn, N. Y. Emergency-gear for locomotives .....	706,988	Aug. 12	1885	422	100	1518
Murdoch, James M., et al. (See Bartley, Milton, assignor.) (Reissue.)						
Murdoch, Denny, Philadelphia, Pa. Steam-trap .....	714,500	Nov. 25	3962	878	101	1761
Murdoch and Geb Company. (See Murdoch, Thomas J., assignor.)						
Murdoch, Horace B., Detroit, Mich. Casket-lowering device .....	703,949	July 1	1054	229	100	210
Murdoch, Horace B., Detroit, Mich. Shaft-coupling .....	713,135	Nov. 11	1268	287	101	1175
Murdoch, Horace B., Detroit, assignor to Wonder Plow Company, St. Clair, Mich. Plow attachment .....	700,541	May 20	2799	639	99	1783
Murdoch, Horace B., Detroit, assignor to Wonder Plow Company, St. Clair, Mich. Plow attachment .....	715,119	Dec. 2	902	193	101	2022
Murdoch, James, Jr., Cincinnati, Ohio. Hand-press .....	693,050	Feb. 11	1535	334	98	1142
Murdoch, James, Jr. and L. S., Cincinnati, Ohio. Metal shell-band and cap .....	698,537	Apr. 29	3999	884	99	909
Murdoch, John P., San Diego, Cal. Fountain attachment for pens .....	710,599	Oct. 7	389	82	101	78
Murdoch, Luke S. (See Murdoch, James, Jr., and L. S.)						
Murdoch Parlor Grate Co. (See Emerson, Frederic M., assignor.)						
Murdoch, Robert L. (See Forster and Murdoch.)						
Murdoch, Thomas J., assignor to Murdoch and Geb Company, Franklin, Mass. Bobbin-holder .....	691,162	Jan. 14	1479	335	98	323
Murdoch, Tracy, assignor to Graton and Knight Manufacturing Company, Worcester, Mass. Apparatus for stretching leather .....	712,706	Nov. 4	440	104	101	988
Murgatroyd, Frank, Cleveland, Ohio. Revolving steam connection .....	708,900	Sept. 9	1681	387	100	2339
Murnick, Alexandre, St. Petersburg, Russia. Incandescent gas-burner .....	705,950	July 29	5061	1102	100	1084
Murmann, Ernst, Vienna, Austria-Hungary. Aluminium alloy .....	699,216	May 6	151		99	1206
Murmann, Henry, et al. (See Sullivan, Daniel, assignor.)						
Murphy, Albert C., East St. Louis, Ill. Assignor to Standard Railway Equipment Company, Clutch for pneumatic mechanism .....	698,538	Apr. 29	4000	884	99	910
Murphy, Andrew J., New York, N. Y. Valve device .....	691,477	Jan. 21	2104	473	98	473
Murphy, Barney, assignor of one-half to H. P. Downes, New Haven, Conn. Sash-fastener .....	695,327	Mar. 11	1583	419	98	2123
Murphy, Bruce, Orillia, Canada. Collar-button .....	714,937	Dec. 2	395	125	101	1954
Murphy, Charles R., Decatur, Ill. Box for packing garments .....	692,534	Feb. 4	567	133	98	913
Murphy, Daniel H., Hartford, Conn. Water-closet for conveyances .....	710,989	Oct. 14	1114	246	101	244
Murphy, E. G. (See Moore, Orville H., assignor.)						
Murphy, Earle W., Cambridge, Mass. Book-holder .....	694,490	Mar. 4	283	64	98	1772
Murphy, Edward E., assignor, by mesne assignments, to Palatable Water Still Company, Boston, Mass. Apparatus for distilling water .....	698,724	Apr. 29	4425	976	99	1002
Murphy, Edwin J., Lynn, Mass., assignor to General Electric Company. Recording electric wave forms .....	713,479	Nov. 11	1947	441	101	1314
Murphy, Everett J., Alvarado, Va. Hand-truck .....	693,422	Feb. 18	2283	500	98	1315
Murphy, James, Belleville, Ill. Car-coupling .....	712,919	Oct. 28	3635	805	101	809
Murphy, John. (See Ardizzone, Thomas, assignor.)						
Murphy, John. (See Thompson, Walter, assignor.)						
Murphy, John, Columbus, Ohio. Composition of matter .....	707,788	Aug. 26	3488		100	1883
Murphy, John A., et al. (See Crandall, Frederick E., assignor.)						
Murphy, John D., Chicago, Ill. Flooring-set .....	695,224	Mar. 11	1703	1377	98	2088
Murphy, John F., Adrian, Mich. Dress-shield .....	702,667	June 17	2525	578	99	2065
Murphy, John F., assignor of one-half to G. B. M. Seager and H. R. Clark, Adrian, Mich. Dress-shield holder .....	696,689	Apr. 1	552	126	99	120
Murphy, Nicholas F., Bakersfield, Cal. Spike-puller .....	703,143	July 1	136	31	100	29
Murphy, Robert, Canisteo, N. Y. Planter .....	707,152	Aug. 19	2203	1493	100	1601
Murphy, Thomas, Detroit, Mich. Furnace .....	705,276	July 22	3719	896	100	801
Murphy, Thomas, Detroit, Mich. Furnace .....	710,707	Oct. 7	586	124	101	120
Murphy, Thomas J., Montreal, Canada. System of armature-winding for electric motors .....	699,764	May 13	1230	286	99	1440
Murphy, W. H., et al. (See Bernardin, Frank, assignor.)						
Murphy, Walter F., Murdoch, Minn. Machine for cutting leather straps .....	711,518	Oct. 21	2159	471	101	478
Murphy, William B., New York, N. Y. Glove-fastener .....	691,653	Jan. 21	2425	545	99	540
Murphy, William B., New York, N. Y. Glove-fastening .....	697,829	Apr. 15	2267	613	99	620
Murphy, William B., Lynn, Mass. Washboard .....	705,116	July 22	3360	728	100	730
Murphy, William B., assignor to L. N. Littauer, New York, N. Y. Glove-fastener .....	691,709	Jan. 21	2527	566	98	561
Murphy, William B., New York, N. Y., assignor to United States Fastener Company, Portland, Me., and Boston, Mass. Socket member .....	717,246	Dec. 30	5175	1122	101	2994
Murphy, William F., Iowa City, Iowa. Loading device .....	703,444	July 1	136	31	100	30
Murphy, William M., New York, N. Y., assignor of one-half to O. R. Hayes, Boston, and J. F. Gooding, Brookline, Mass. Cable-joint .....	712,568	Nov. 4	210	50	101	941
Murray, Alexander W., Chicago, Ill. Ball-cock .....	703,805	July 1	793	175	100	159
Murray, Benjamin F., Cleveland, N. C. Quilting-frame .....	695,413	Mar. 11	2018	453	98	2153
Murray, Benjamin V., Maud, Pa. Fire-escape .....	708,825	Sept. 9	1527	349	100	2305
Murray, Daniel D. (See Cameron, Murdick, assignor.)						
Murray, Donald, New York, N. Y. Actuating mechanism for key-operated machines .....	698,845	Apr. 29	4694	1084	99	1064
Murray, Donald, New York, N. Y. Keyboard-perforator .....	710,163	Sept. 30	4213	950	100	2908
Murray, Edward B. (See Cleland and Murray.)						
Murray, Edward B., Jersey City, N. J. Nut-lock for rail-joints .....	716,079	Dec. 16	2171	612	101	2447
Murray, George C., Chicago, Ill. Bolster for railway-cars .....	701,920	June 10	1137	260	99	2361
Murray, George C., Chicago, Ill. Car-truck .....	706,584	Aug. 12	1133	250	100	1360
Murray, George C., Chicago, Ill. Car-truck .....	706,585	Aug. 12	1135	251	100	1361
Murray, James, Boston, Mass. Water-heating apparatus .....	694,775	Mar. 4	853	188	98	1892
Murray, James H. (See Hill, George S., assignor.)						
Murray, John E., Washington, Pa. Educational device .....	696,690	Apr. 1	555	127	99	120



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Murray, John E., Washington, Pa. Insulator for telegraph-lines.....	713,904	Nov. 18	2791	620	101	1506
Murray, John E., and J. J. Hoover, Washington, Pa. Mantle-support.....	708,383	Sept. 2	688	155	100	2121
Murray, John S. (See Sherman, Richard E., assignor.)						
Murray, Maurice M., Baxter, Cal. Wrench.....	710,161	Sept. 30	4220	951	100	2910
Murray, Michael J., assignor to Consolidated Dental Manufacturing Company, New York, N. Y. Mold for forming artificial teeth.....	713,390	Nov. 11	1690	381	101	1290
Murray, Michael W., Milton, Mass. Separable screw-hinge.....	689,698	May 13	1100	258	99	1414
Murray, Stephen D., Dallas, Tex. Cotton-gin feeder.....	695,825	Mar. 18	2773	633	98	2325
Murray, Thomas E., New York, N. Y. Electric sign.....	705,597	July 29	4132	960	100	957
Murray, Thomas E., and J. Van Vleck, New York, N. Y. Electric railway.....	708,656	Sept. 9	1177	268	100	2231
Murray, Thomas E., and J. Van Vleck, New York, N. Y. Electric railway.....	708,969	Sept. 9	1806	416	100	2363
Murray, Thomas S., and E. E. Jackson, Arkansas City, Kans. Cistern, tank, or reservoir cleaner.....	715,408	Dec. 9	1432	309	101	2148
Murray, Thomas W. L., Newbern, Tenn. Stovepipe-ventilator.....	702,879	June 17	2919	674	99	2747
Murray, William A., Cincinnati, Ohio. Spring-seat.....	692,535	Feb. 4	568	133	98	914
Murray, William A., Cincinnati, Ohio. Framework for spring beds or seats.....	705,694	July 29	4605	909	100	991
Murray, William D., Detroit, Mich. Box or bagot pile.....	697,519	Apr. 15	2127	473	99	486
Muriagh, E. J., et al. (See Doering, August, assignor.)						
Musiaco, Augusto, Berlin, Germany. Apparatus for delivering equal quantities of liquid.....	692,328	Feb. 4	195	45,46	98	840
Musiaco, Augusto, Berlin, Germany. Transportable device for drawing constant quantities of liquids of varying densities.....	698,993	Apr. 29	4941	1094	99	1115
Musgrave, Frank E., Bolton, England. Tramway-rail.....	708,901	Sept. 9	1683	387	100	2339
Musgrave, Herbert E., and G. A. Barnes, Bolton, England. Means for cutting cloth, leather, &c.....	698,994	Apr. 29	4942	1094	99	1115
Musgrave, Robert B., New York, N. Y. Pad for treating shoe-boils on horses.....	708,902	Sept. 9	1684	388	100	2339
Musker, Arthur. (See Musker and Hay.)						
Musker, Charles and A., and W. G. Hay, Liverpool, England. Controlling the generation of steam.....	701,921	June 10	1198	260	99	2362
Musker, Charles and A., and W. G. Hay, Liverpool, England. Steam-generator.....	704,089	July 15	2452	523	100	528
Muslar, Nelson, assignor of one-half to J. E. Hackett, Worcester, Mass. Bottle-labeling machine.....	700,438	May 20	2600	595	99	1742
Musorotti, Rocco, New York, N. Y. Bread, &c., and making same.....	692,889	Feb. 11	1222		98	1076
Musser, Benjamin, New Whatcom, Wash. Pump-actuating mechanism.....	705,425	July 22	4032	874	100	866
Musser, C. R., et al. (See Boos, Joseph B., assignor.)						
Mussinan, Oscar, New York, N. Y., assignor to Dennison Manufacturing Company, Boston, Mass. Paper clip or fastener.....	714,388	Nov. 25	3748	827	101	1721
Musso, Giuseppe, S. Angelo dei Lombardi, Italy. Page-printing telegraph.....	707,612	Aug. 26	3083	694	100	1802
Mutschler, Albert. (See Hutchings, Robertson, and Mutschler.)						
Mutton, John W., Boston, Mass. Device for untying hard knots.....	704,357	July 8	1863	403	100	394
Mutton, Thomas. (See Hupton, Horace E., assignor.)						
Mutual Electric Trust. (See Wright, Arthur, assignor.)						
Muus, Arthur H., assignor to Beaton and Corbin Manufacturing Company, Southington, Conn. Ceiling-plate attachment.....	704,562	July 15	2252	488	100	486
Muzzy, William H., Dayton, Ohio. Motor-cycle.....	700,151	May 13	1994	458	99	1595
Myer, John H. (See Cook, George W., assignor.)						
Myer, Sydney, and G. Naylor, Hereford, England. Stopper and fitting for bottles.....	703,291	June 24	3701	882	99	2921
Myers, A. Harry. (See Edmison and Myers.)						
Myers, Alfred, Dryden, N. Y. Acetylene-gas generator.....	691,959	Jan. 28	3012	676	98	678
Myers, Alfred H., Continental, Ohio. Carpet-fastener.....	712,569	Nov. 4	211	50	101	911
Myers Amusement Company. (See Myers, George F., assignor.)						
Myers, Benjamin R. (See Myers, Joseph B., and B. R.)						
Myers, Bennett, Groveport, Ohio. Wire-stretcher.....	716,080	Dec. 16	2773	612	101	2447
Myers and Bro., F. E. (See Myers, Philip A., assignor.)						
Myers, Charles S., Columbus, Ohio. Adjustable shade and curtain fixture.....	695,694	Mar. 18	2542	575	98	2278
Myers, Cornelius H., South Bend, Ind. Inhaler.....	705,117	July 22	3361	728	100	730
Myers, Daniel, et al. (See Donovan, Alfred, assignor.)						
Myers, Dean E., Maumee, Ohio. Mechanical power.....	712,117	Oct. 28	3398	744	101	751
Myers, Emma E., Pittsburg, Pa. Metallic tie and rail-fastener.....	696,582	Apr. 1	1	339	99	75
Myers, Emma E., Pittsburg, Pa. Railway-rail.....	696,583	Apr. 1	1	339	81	99
Myers, Ephraim, Murray, assignor of one-half to C. C. Bancroft, Barney, Iowa. Swing-ing animal-chute.....	705,118	July 22	3363	729	100	730
Myers, Frank R. (See Schies, John, assignor.)						
Myers, George E. and J. S., St. Joseph, Mo. Machine for handling vehicles.....	706,437	Aug. 5	889	192	100	1295
Myers, George F., Pittsburg, Pa., assignor to Myers Amusement Company. Pleasure-railway.....	712,570	Nov. 4	212	51	101	941
Myers, George F., Pittsburg, Pa., assignor to Myers Amusement Company. Pleasure-railway.....	712,707	Nov. 4	444	104	101	989
Myers, George F., Pittsburg, Pa., assignor to Myers Amusement Company. Pleasure-railway.....	712,708	Nov. 4	446	105	101	991
Myers, Helen T., Colorado Springs, Colo. Cooling-tub.....	698,725	Apr. 29	4427	977	99	1002
Myers, Helen T., Colorado Springs, Colo. Refrigerator-building.....	716,344	Dec. 16	3298	718	101	2552
Myers, Henry R., Covington, Ky. Liquid-container.....	698,309	Apr. 22	3596	793	99	810
Myers, Jacob, et al. (See Donovan, Alfred, assignor.)						
Myers, Jesse C., Wilt, Pa. Snap-hook.....	710,497	Oct. 7	186	40	101	39
Myers, Jesse S. (See Myers, George E. and J. S.)						
Myers, John M., Louisville, Ky. Horseshoe.....	690,984	Jan. 14	1169	264	98	290
Myers, John T., Culmersville, Pa. Cutter-bar for mowing-machines.....	703,806	July 1	795	175	100	169
Myers, Joseph R., and B. R., Chicago, Ill. Hat-tip.....	714,731	Dec. 2	154	31	101	1808
Myers, Matthew J., Syracuse, N. Y. Device for locating breaks and grounds on electric circuits.....	710,990	Oct. 14	1116	246	101	245
Myers, Morris B., et al. (See Zander, William A. H., assignor.)						
Myers, Philip A., assignor to F. E. Myers & Bro., Ashland, Ohio. Force-pump.....	691,654	Jan. 21	2426	545	98	540
Myers, Philip A., assignor to F. E. Myers and Bro., Ashland, Ohio. Track for door-hangers.....	709,029	Sept. 16	1955	447	100	2410
Myers, Richard A., Dayton, assignor to Hoover & Gamble Company, Miamisburg, Ohio. Twine-spinning machine.....	706,989	Aug. 12	1888	423	100	1519
Myers, Samuel A., Boston, Mass. Trousers.....	716,081	Dec. 16	2775	612	101	2448
Myers, Samuel C., Millintown, Pa. Plow-point.....	703,807	July 1	796	175	100	160

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Myers, Sim. (See Fountain and Myers.)						
Myers, Thomas, New York, N. Y. Cooling explosive-motors	693,529	Feb. 18	2487	546	98	1357
Myers, W. E. (See Williamson, William B., assignor.)						
Myers, William D., Humboldt, Iowa, assignor to Warder, Bushnell & Glessner Company, Springfield, Ohio. Means for adjusting finger-bars of mowing-machines.	690,452	Jan. 7	127	27	98	29
Mygatt, Otis A., New York, N. Y. Display-light.	705,426	July 22	4033	874	100	806
Nykolashch, Charles, Southbend, Wash. Lifting-jack	711,782	Oct. 21	2671	589	101	587
Myrick, Gilbert S., Philadelphia, Pa., assignor to Creswell & Waters Co. Adjustable plane-bed.	705,540	July 22	4311	933	100	919
Mystic Reduction Company. (See Louis, Frederic H., assignor.)						
N. Stafford Company. (See Stafford, Nelson, assignor.)						
N. Tire Company. (See Blodgett, John W., assignor.)						
N. Y. Metal Specialty Manufacturing Company. (See Hoffmann, Alfred W., assignor.)						
N. Z. Graves & Co. (See Briggs, Irving L., assignor.)						
Nabb, Charles W., assignor of one-half to D. Davenport, Charleston, Mo. Wagon-bod-lifter.	711,337	Oct. 14	1819	395	101	394
Naber, Moses H., assignor to E. G. Pauling, Chicago, Ill. Spring	710,502	Oct. 7	192	42	101	40
Naber, Moses H., assignor to E. G. Pauling, Chicago, Ill. Spring	714,225	Nov. 25	3446	758	101	1660
Nabours, William F., Solgohachia, Ark. Plow	693,233	Mar. 25	3624	810	98	2514
Nace, Florence M., San Francisco, Cal. Calendar	702,988	June 24	3149	724	99	2812
Nacke, Francis, San Francisco, Cal. Hair-picker	693,302	Feb. 18	2992	661	98	1460
Nadeau, Adelo, Fitchburg, Mass. Combined chair and cradle	700,545	May 20	2804	640	99	1784
Nadeau, Alphonse, South Point, Anticosti Island, Canada. Permutation-padlock	712,084	Oct. 28	3280	719	101	728
Nadeau, Theodore. (See Phelps, Edward W., assignor.)						
Nadel, David, Berlin, Germany. Embroidering-machine	697,269	Apr. 8	1652	370	99	371
Nadel, David, Berlin, Germany. Pattern mechanism for embroidering-machines.	697,270	Apr. 8	1654	371	99	372
Nadel, David, Spindlershof, Germany. Pattern mechanism for embroidering-machines.	714,817	Dec. 2	328	72	101	1904
Nadowski, Johannes, Dresden, Germany. Turbine wheel	702,461	June 17	2138	486	99	2585
Naef, Paul, Argentine, Kans. Apparatus for lixiviating ores	700,972	May 27	3620	831	99	1970
Naef, Paul, New York, N. Y. Apparatus for the manufacture of coke	701,219	May 27	4072	937	99	2067
Naef, Paul, New York, N. Y. Revolving furnace for roasting ores	711,338	Oct. 14	1821	395	101	394
Naef, Paul, New Brighton, N. Y. Making coke	706,443	Aug. 5	903	195	100	1298
Naething-Leslie Tiling Company. (See Leslie, Benjamin P., assignor.)						
Nagel, Charles, assignor to M. A. Nagel, Portsmouth, Ohio. Trace-fastener	710,992	Oct. 14	1122	247	101	247
Nagel, Friedrich, assignor to F. Krupp, Essen, Germany. Freight-car	697,650	Apr. 15	2366	526	99	532
Nagel, John P., Chicago, Ill. Carbureter	717,444	Dec. 30	5519	1199	101	3065
Nagel, Mary A. (See Nagel, Charles, assignor.)						
Nagel, Oskar, New York, N. Y. Making spelter	699,069	May 13	1638	376	99	1526
Nagengast, Henry S., Gardenville, Md. Shield and drip-catcher for candles	703,809	July 1	798	176	100	160
Nagle, Augustus F., Montclair, N. J., assignor to E. H. Gowing, Reading, Mass. Steam-engine indicator	695,227	Mar. 11	1707	378	98	2069
Nagle, Augustus F., Montclair, N. J., assignor to E. H. Gowing, Reading, Mass. Mechanical stoker	701,602	June 3	581	127	99	2229
Nagle, Augustus F., Montclair, N. J., assignor to E. H. Gowing, Reading, Mass. Mechanical stoker	703,450	July 1	147	33	100	32
Nahr, Emil, Budapest, Austria-Hungary. Artificial tooth-crown and making same	693,884	Feb. 25	3170	700	98	1514
Nahrwolt, William, Fort Wayne, Ind. Reversing mechanism	692,895	Feb. 11	1234	273	98	1079
Naillless Lid Box Company. (See Davis, Edward H., assignor.)						
Naillless Lid Box Company. (See Fletcher, Edward, assignor.)						
Nakashjian, Stephen T., Worcester, Mass. Curtain-fixture	704,205	July 8	1577	340	100	330
Nalence, Charles, Cranford, N. J. Water-heater and steam-generator	700,546	May 20	2805	641	99	1784
Namack, Thomas H. (See Hartley, Namack, and Newhall.)						
Nance, Turner H., Talladega, Ala. Ladle	692,697	Feb. 4	853	195	98	974
Napier, Edward, Westport, Md. Wheel-clamp	707,711	Aug. 26	3288	736	100	1844
Napier, Frank L., St. Joseph, Mich. Puzzle	703,076	June 24	3317	762	99	2844
Nares, Ralph W., trustee. (See Livingstone, Edward L., assignor.)						
Naret, Charles C. (See Coomber, James, assignor.)						
Nash, Arthur J., New York, N. Y. Means for pressing, perforating, and cutting glass in shapes	696,254	Mar. 25	3624	810	98	2515
Nash, Camille A. (See Lewis, George W., assignor.)						
Nash, F. W., et al. (See Smith, Edward A., assignor.)						
Nash, Francis H., New York, N. Y. Tape-measure	712,148	Oct. 28	3399	744	101	751
Nash, George D., et al. (See Holland, Joseph R., assignor.)						
Nash, George D., assignor to I. M. Gray, Binghamton, N. Y. Horseshoe	713,137	Nov. 11	1270	288	101	1175
Nash, Harvey W., assignor, by mesne assignments, to C. Stoecker, Amsterdam, N. Y. Refrigerator	713,237	Nov. 11	1462	332	101	1213
Nash, Lewis H., Milwaukee, Wis. Abrasing mechanism	707,621	Aug. 26	3101	699	100	1806
Nash, Lewis H., South Norwalk, Conn., and F. S. King, Brooklyn assignors to National Meter Company, New York, N. Y. Water-meter	696,692	Apr. 1	557	127	99	121
Nash, Michael J., St. Louis, Mo. Soldering-iron heater	711,584	Oct. 21	2277	494	101	503
Nash, Michael J., St. Louis, Mo., assignor to National Biscuit Company, Jersey City, N. J.	714,393	Nov. 25	3754	828	101	1722
Nash, Morris M., Lowell, Mass. Sleet-cleaning device for trolley-arms	690,757	Jan. 7	759	169	98	160
Nash, Oliver M., East Pepperell, Mass. Laundry gloss	715,844	Dec. 16	2292	522	101	2344
Nash, Richard G., Lucan, near Dublin, Ireland. Aerating and preserving milk	714,510	Nov. 25	3964	878	101	1762
Nash, Richard G., Lucan, near Dublin, Ireland. Bottle filling and stoppering machine.	714,511	Nov. 25	3966	878	101	1762
Nash, William C. (See Gilbert and Nash.)						
Nashwan, Mfg. Co. (See Barnet, Henry E., assignor.)						
Nason, Frank A., and B. Smith, Clearfield, Pa. Neck-yoke	705,428	July 22	4036	875	100	867
Nast, Georg, Munich, Germany. Applying cork strips to cigarette-paper	714,601	Nov. 25	4132	914	101	1799
Nastvogel, Oscar, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Co., New York, N. Y. Yellow acridin dye and making same	716,084	Dec. 16	2778	623	101	2449
Nathan, Benjamin, New York, N. Y. Combined ankle-protector and arch-support	713,912	Nov. 18	2806	623	101	1508
Nathan, Frederic L., J. M. Thomson, and W. Rintoul, Waltham Abbey, England. Apparatus for the manufacture of nitroglycerin	702,325	June 10	1864	424	99	2507
Nathan, Louis, et al. (See Okey, George B., assignor.)						
Näther, Oswald, assignor, by mesne assignments, to Firm C. Zeiss, Jena, Germany. Curtain-shutter	708,727	Sept. 9	1320	300	100	2261



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Nathorst, Chas. E., <i>et al.</i> (See Johnson, Lafayette W., assignor.)						
National Acme Manufacturing Company. (See Henn, Edwin C., assignor.)						
National Addograph Company. (See Marshall, Holmes, assignor.)						
National Adjustable Chair Company. (See McKee and Saffell, assignors.)						
National Battery Company. (See Hassler, Robert H., assignor.)						
National Battery Company. (See Sperry, Elmer A., assignor.)						
National Biscuit Company. (See Armstrong, Harry Y., assignor.)						
National Biscuit Company. (See Johnston and Merrill, assignors.)						
National Biscuit Company. (See Nash, Michael J., assignor.)						
National Biscuit Company. (See Wetzel, Frederick L., assignor.)						
National Bread Company. (See Lee, Joseph, assignor.)						
National Burial Device Company. (See Kinney, Richard R., assignor.)						
National Carbon Company. (See Fishell and Clymer, assignors.)						
National Carbon Company. (See Laughlin, Robert D., assignor.)						
National Carbon Company. (See Moffett, Marcus H., assignor.)						
National Carbon Company. (See Zellers, Mahlon M., assignor.)						
National Cash Register Co. (See Thompson, Ralph P., assignor.) (Reissue.)						
National Cash Register Company. (See Barnard, Fayette B., assignor.)						
National Cash Register Company. (See Bell, Walter H., assignor.)						
National Cash Register Company. (See Bickford, Frank H., assignor.)						
National Cash Register Company. (See Bickford and Lock, assignors.)						
National Cash Register Company. (See Carney, Thomas, assignor.)						
National Cash Register Company. (See Carroll, Thomas, assignor.)						
National Cash Register Company. (See Cleal, Joseph P., assignor.)						
National Cash Register Company. (See Green, George S., assignor.)						
National Cash Register Company. (See Guest, George H., assignor.)						
National Cash Register Company. (See Harr, Alexander W., assignor.)						
National Cash Register Company. (See Osborn, Francis C., assignor.)						
National Cash Register Company. (See Oswald, Jacob A., assignor.)						
National Cash Register Company. (See Yoe, Philip, assignor.)						
National Casket Company. (See Rappleyea and Sparks, assignors.)						
National Computing Scale Company. (See Culmer, John W., assignor.)						
National Drill Company. (See Claiborn and Smith, assignors.)						
National Dry Kiln Company. (See Gerard, Edward, assignor.)						
National Electric Hose Signaling Company. (See Weitz, George G., assignor.)						
National Electric Improvement Company. (See Greil and Audiger, assignors.) (Reissue.)						
National Enameling & Stamping Co. (See Knapp, George W., assignor.)						
National Enameling & Stamping Co. (See Marter, Richard, assignor.)						
National Enameling & Stamping Co. (See Wagandt, Charles L., assignor.)						
National Fibre Board Company. (See Cummings, Henry H., assignor.)						
National Filter Company. (See Davidson, John A., assignor.)						
National Folding Box & Paper Company. (See Lynch and Hibson, assignors.)						
National Foundry and Machine Company. (See Reeder and Freville, assignors.)						
National Hotel Register Company. (See Klee, Frederick C., assignor.)						
National Knitting Co. (See Stoll, Heinrich, assignor.)						
National Lock Washer Company. (See Hoyt, Daniel, assignor.)						
National Machine Company. (See Hogan, James T., assignor.)						
National Malleable Castings Company. (See Carroll, John J., assignor.)						
National Malleable Castings Company. (See Coffin, Walter E., assignor.)						
National Malleable Castings Company. (See Krakau, Harry T., assignor.)						
National Malleable Castings Company. (See Stephenson, John W., assignor.)						
National Malleable Castings Company. (See Tower, Clinton A., assignor.)						
National Malleable Castings Company. (See Whitlock, Frederick B., assignor.)						
National Malleable Castings Company. (See Willison, John, assignor.)						
National Manufacturing Company. (See Brown, Walter, assignor.)						
National Metal Weather Strip Company. (See Bricker, Samuel P., assignor.)						
National Meter Company. (See Nash and King, assignors.)						
National Newspaper Distributing Company. (See Overpeck, Lucien C., assignor.)						
National Phonograph Company. (See Aylsworth and Miller, assignors.)						
National Pneumatic Service Company. (See Churchill, William L., assignor.)						
National Roller and Ball Bearing Company. (See Brewer, William J., assignor.)						
National Safety Third Rail Company. (See Young, Walter D., assignor.)						
National Self Winding Clock Company. (See Crook, Charles M., assignor.)						
National Specialty Manufacturing Co. (See Piper, Robert H., assignor.)						
National Steel Refining Company. (See Jamison, Benton K., assignor.)						
National Tag Company. (See Kuhns, John P., assignor.)						
National Tube Company. (See Baehr, George, assignor.)						
National Tube Company. (See Boax, John J., assignor.)						
National Tube Company. (See Boyd, Henry E., assignor.)						
National Tube Company. (See Boyd, Peter, assignor.)						
National Tube Company. (See Heggie, David, assignor.)						
National Tube Company. (See Patterson, Peter, assignor.)						
National Tube Company. (See Patterson, Peter C., assignor.)						
National Tube Company. (See Patterson and Boax, assignors.)						
National Tube Company. (See Quimby, Edward E., assignor.)						
National Ventilating Company. (See Jacobson, Samuel H., assignor.)						
National Wire Fence Company. (See Brown, Charles T., assignor.)						
Natterer, Joseph, Jersey City, assignor to Perfection Music Box Company, Newark, N. J.	696,910	Apr. 1	997	222	90	211
Note-sheet or music-disk						
Natural Body Brace Company. (See Rosh, Howard C. and L. C., assignors.)						
Natural Food Company. (See Perky, Henry D., assignor.)						
Natural Power Co. (See Neumann, Christian, assignor.)						
Nau, John B., New York, N. Y. Furnace for heating ingots or billets	694,569	Mar. 4	455	98	98	1810
Nauen, Charles J., Paterson, N. J. Loom	695,622	Mar. 18	2120	548	98	9254
Naufts, George A., Halifax, Canada. Automatic oil-feed cup	693,734	Feb. 18	2882	694	98	1438
Naumann, Robert, New York, N. Y. Printing-press attachment	692,065	Jan. 28	3212	735	98	716
Nawon, N. L., <i>et al.</i> (See Carroll and Roberts, assignors.)						
Nay, J. C. (See Dotts, Hiram S., assignor.)						
Naylor, George. (See Myer and Naylor.)						
Naylor, Arthur. (See Naylor, Thomas F. and A.)						
Naylor, Charles, Mexico. Picture or design and making same	704,564	July 15	2254	488	100	487
Naylor, Charles E. (See Hitt, Addison W., assignor.)						
Naylor, George. (See Illingworth, Mazey, and Naylor.)						
Naylor, Thomas F. and A., Kidderminster, England. Woven chenille	704,083	July 8	1328	289	100	278

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Naysmith, Robert, and B. F. Reese, Kittanning, Pa. Leer	707,343	Aug. 19	2566	579 580	100	1678
Neahr, Jacob E., Buffalo, assignor to Wagner Typewriter Company, New York, N. Y. Type-writing machine	700,973	May 27	3623	832	99	1971
Neahr, Jacob E., Buffalo, assignor to Wagner Typewriter Company, New York, N. Y. Type-writing machine	705,281	July 22	3726	809 810	100	802
Neahr, Jacob E., Buffalo, assignor to Wagner Typewriter Company, New York, N. Y. Type-writing machine	709,678	Sept. 23	3210	724	100	2604
Neal, C. C. (See Darnell, Carter C., assignor.)						
Neal, Charles E., New York, N. Y. Running-gear for automobiles	715,411	Dec. 9	1439	310	101	2149
Neal, George P., Evansville, Ind. Automatic unbitching device for animals, and fire escape and extinguisher	700,225	May 20	2177	498	99	1656
Neal, John N. (See Tripp, Darius N., assignor.)						
Neal, William S., Brewton, Ala. Rein-support	716,925	Dec. 30	4537	983 984	101	2837
Neale, Charles C., Minneapolis, Minn. Grain-flow indicator	690,999	Apr. 8	1179	265	99	270
Neale, David, Fort Calhoun, Nebr. Burglar-proof safe	707,344	Aug. 19	2568	580	100	1678
Neale, David, Fort Calhoun, Nebr. Combination brake, fender, and step	707,345	Aug. 19	2569	580 581	100	1678
Neale, David, Fort Calhoun, Nebr. Fire-escape	707,346	Aug. 19	2570	581	100	1679
Neale, David, Fort Calhoun, Nebr. Mud-chamber	716,372	Dec. 23	3768	820	101	2603
Neumann, Robert H., New York, N. Y. Pendant soap-holder	706,992	Aug. 12	1893	424	100	1520
Neary, John, assignor to Kokomo Rubber Company, Kokomo, Ind. Apparatus for applying rubber tires to vehicle-wheels	697,000	Apr. 8	1180	265	99	270
Neave, John H., Macclesfield, England. Making hats and articles produced thereby	699,222	May 6	160	40	99	1208
Nedo Company. (See Price, Corwin T., assignor.)						
Neeb, William, Dressy, Tex. Wire-fence tool	701,760	June 3	850	190	99	2288
Neederman, Stephen, et al. (See Madas, Louis, assignor.)						
Needham, Henry C., Los Angeles, Cal. Combination kitchen implement	694,491	Mar. 4	283	65	98	1772
Neely, Charles E., et al. (See Montgomery, John H., assignor.)						
Neely, Joseph P., Centralia, Wash. Adjustable fire-box for stoves	698,312	Apr. 22	3599	794	99	811
Neely, Charles W., Philadelphia, Pa. Index-card for duplicate whist	698,541	Apr. 29	4007	885	99	912
Neely, Ira L., Fairmount, Ind. Gas and water separator	690,886	Jan. 14	1171	265	98	260
Neely, Samuel M., Chester, S. C. Cotton-press	698,043	Apr. 22	3070	673 670	99	703
Neemes, Norwell C. (See Mann and Neemes.)						
Neese, William H. (See Herr, Samuel, assignor.)						
Neff, Charles A., Brooklyn, assignor to Standard Oil Company of New York, New York, N. Y. Stove-grate	715,288	Dec. 9	1201	237	101	2100
Negraal, Louis A., Jersey City, N. J., assignor to Frank & Gutmann, New York, N. Y. Lady's hose-supporter	709,606	Sept. 23	3119	695	100	2609
Neher, John F., Saginaw, Tex., and N. N. Neher, Stockton, Kans. Sash-fastener	699,223	May 6	162	40	99	1208
Neher, Noah N. (See Neher, John F. and N. N.)						
Nehls, William A. (See Wilkening and Nehls.)						
Nehring, Ulrich, New York, N. Y. Camera and focusing-finder therefor	703,294	June 24	3704	833	99	2922
Neider, Fred A. (See Margraff, Frederick, assignor.)						
Neild, William J., New Britain, Conn. Combination-lock	697,631	Apr. 15	2367	527	99	532
Neilsen, Jacob E., New Orleans, La. Knockdown box	705,953	July 29	5066	1104	100	1085
Neil, James M. (See Browne and Neil.)						
Neil, John W., Cincinnati, Ohio. Automatic pressure-governor	696,471	Apr. 1	143	34	99	35
Neil, John W., Cincinnati, Ohio. Engine	716,463	Dec. 23	3538	773	101	2620
Neil, William, Newark, N. J. Air-brake connection	701,272	May 27	4176	959	99	2085
Neil, William, and A. J. Bredlow, Chicago, Ill. Carburetor	711,519	Oct. 21	2160	471	101	478
Neill, Arthur B., assignor to T. F. Armstrong, Philadelphia, Pa. Numbering or marking machine	712,324	Oct. 28	3694	807 808	101	811
Neill, James W. (See Officer, Neill, and Burfeind.)						
Neill, James W., and J. H. Burfeind, Salt Lake City, Utah. Recovering metals from ores	702,582	June 17	2368	540 541	99	2633
Neill, Samuel F., Bradford, Pa. Electric igniting apparatus for explosive-engines	694,409	Mar. 4	144	32, 33	98	1743
Neilsen, Christen. (See Ellis and Neilsen.)						
Neilsen, Thor H. (See Jacobson, Edward B., assignor.)						
Neilsen, Henry, assignor to Osborn Manufacturing Company, Cleveland, Ohio. Broom	705,602	July 29	4430	962	100	959
Neilsen, John, Larchmont, N. Y. Range-finder	700,547	May 20	2806	641	99	1785
Neilsen, Walter, Bridgeport, Conn. Wrench	704,659	July 15	2405	320	100	519
Neiszer, György, Lugos, Austria-Hungary. Beehive	697,741	Apr. 15	2530	564	99	560
Neik, Carl N., Palofato, Cal. Carburetor for explosive-engines	716,573	Dec. 23	3768	820	101	2609
Nellenbogen, Isidor, New York, N. Y. Handle-fastening	717,024	Dec. 30	4733	1028	101	2599
Neller, Albert H., Mapleton, Minn. Cord-cutting knife for grain-binders	699,553	May 6	800	189	99	1341
Nelms, M. S. (See Mullins, John L., assignor.)						
Nelson, Abiel W., New London, Conn. Disinfectant	696,105	Mar. 25	3325		98	2454
Nelson, Albert, San Francisco, Cal. Checking apparatus for restaurants and the like	715,122	Dec. 2	907	194 195	101	2022
Nelson, Andrew G. (See Huffman, Datus E., assignor.)						
Nelson, Andrew M., Little York, Ill. Fly-screen attachment	704,084	July 8	1329	289	100	278
Nelson, Arne, Chicago, Ill. Wave-motor	717,113	Dec. 30	4891	1058 1059	101	2932
Nelson, August G., Bradford, Pa. Alarm-bell	691,961	Jan. 28	3016	677	98	678
Nelson, Charles O., assignor of eleven-fifteenths to H. M. Capron, Winnetka, Ill. Bridging for joists	702,462	June 17	2139	486	99	2585
Nelson, Christ. (See Christensen, Robert, assignor.)						
Nelson, Clinton D., San Dimas, Cal. Fruit-sorting table	713,484	Nov. 11	1956	442	101	1315
Nelson, Edgar, Lima, Ohio. Treating animal tendons	709,352	Sept. 16	2581		100	2544
Nelson, Frederick L., Alta, Iowa. Shingle-gage	698,054	Feb. 11	1542	336	98	1143
Nelson, George C., Cincinnati, Ohio. Paper-bag machine	691,795	Jan. 28	2719	611 612	98	618
Nelson, Isabel H., et al. (See Allen, James M., assignor.)						
Nelson, James E., et al. (See Birtels, John M., assignor.)						
Nelson, John, et al. (See Johnson, Alfred, assignor.)						
Nelson, John A., Salina, Kans. Scrubbing-machine	695,479	Mar. 18	2131	480	98	2195
Nelson, John C., Dayton, Tenn. Car-coupling	702,239	June 10	1719	388	99	2479
Nelson, John P., San Antonio, Tex. Scraper for asphalt-cooking drums	705,954	July 29	5068	1104	100	1085



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Nelson, John P., Waltham, Mass. Tent	707,347	Aug. 19	2571	581	100	1679
Nelson, John T., Sioux Falls, S. D. Corner-support for picture-frames.	700,548	May 29	2807	642	99	1785
Nelson, Jonathan, Warsaw, Ind. Garment-scale	717,253	Dec. 30	5187	1125	101	2397
Nelson, Knud, Chicago, Ill. Negative-plate holder for cameras	698,731	Apr. 29	4435	979	99	1004
Nelson & Kreuter. (See Andree, William E., assignor.)						
Nelson, Lars P. A., Poysippi, Wis. Siding-gage	694,023	Feb. 25	3457	753	98	1572
Nelson, Lyman H., Portland, Me. Support for ping-pong nets	712,577	Nov. 4	226	55	101	944
Nelson, Lyman H., Portland, Me. Ping-pong racket	716,464	Dec. 23	3539	773	101	2320
Nelson, Martin, Emerson, Iowa. Jointed pole	709,924	Sept. 30	3745	844	100	2310
Nelson, Nels P., Ashtab, Minn. Wire-stretcher	715,846	Dec. 16	2244	509	101	2344
Nelson, Nelse D., Ann Arbor, Mich. Receptacle-filling device	704,565	July 15	2256	488	100	487
Nelson, Peter C. (See Eliassen and Nelson.)						
Nelson, Peter J. (See Marquette and Nelson.)						
Nelson, Peter J., Mountville, Ga. Cultivator	690,753	Jan. 7	760	169	98	161
Nelson, Peter J., Baltimore, Md. Construction of forts	701,922	June 10	1140	361	99	2362
Nelson, Richard, Monkon, Md. Apparatus for scrubbing milk-cans	695,828	Mar. 18	2780	634	98	2327
Nelson, Robert D., assignor of one-half to M. Drew, Akron, Ohio. Tool for truing balance-wheels of watches	715,123	Dec. 2	910	195	101	2023
Nelson, Robert L. (See Blyth, Herbert K., assignor.)						
Nelson, William E., et al. (See Thurmond, William, assignor.)						
Nelson, William H., Hazelton, Iowa. Sash-fastener	705,282	July 22	3728	810	100	803
Nelson, William H., assignor of two-thirds to C. W. Ridley and F. Mertens, Washington, D. C. Mold for paving-bricks	690,987	Jan. 14	1173	265	98	261
Nelson, William H., assignor of two-thirds to C. W. Ridley and F. Mertens, Washington, D. C. Paving-brick for track paving and fastening purposes	690,988	Jan. 14	1175	266	98	261
Nelson, William H., assignor to C. W. Ridley and F. Mertens, Washington, D. C. Nut-lock	716,085	Dec. 16	2778	613	101	2449
Neptune, Joseph, Brooklyn, N. Y. Piston-rod packing	711,117	Oct. 14	1377	298	99	838
Neracher, Adolph, Cleveland, Ohio. Making eaves-troughs	692,331	Feb. 4	240	47	98	240
Neri, Aristide, Hoboken, N. J. Telephone	697,528	Apr. 15	2137	475	98	487
Nernst Electric Light. (See Sheppard, Eustace G., assignor.)						
Nernst, Walther. (See Potter and Nernst.)						
Nernsmith, John J., assignor of one-half to J. J. Taylor, 2nd, Warren, Pa. Prescription-cabinet	710,001	Sept. 30	3897	879	100	2842
Nestius, Olof E., Stockholm, Sweden. Engine	717,445	Dec. 30	5520	1199	101	3065
Nestor, John, Tacoma, Wash. Portable bake-oven	704,660	July 15	2406	520	100	519
Netherland, William H., Louisville, Ky. Standard for measuring horses	707,262	Aug. 26	3633	819	100	1911
Nethery Hydraulic Valve Company. (See Nethery, Joseph W., assignor.)						
Nethery, Joseph W., Indianapolis, Ind., assignor to Nethery Hydraulic Valve Company, Indianapolis, Ind.; New York, N. Y., and Jersey City, N. J. Valve	702,326	June 10	1865	424	99	2507
Nethery, Joseph W., Indianapolis, Ind., assignor to Nethery Hydraulic Valve Company, Indianapolis, Ind.; New York, N. Y., and Jersey City, N. J. Flow-reducing device	707,712	Aug. 26	3289	736	100	1844
Nethery, Joseph W., Indianapolis, Ind., assignor to Nethery Hydraulic Valve Company, Indianapolis, Ind.; New York, N. Y., and Jersey City, N. J. Automatically-acting valve	713,138	Nov. 11	1271	288	101	1175
Nethery, Joseph W., Indianapolis, Ind., assignor to Nethery Hydraulic Valve Company, Indianapolis, Ind.; New York, N. Y., and Jersey City, N. J. Fluid-flow-controlling device	713,788	Nov. 18	2560	571	101	1457
Nettles, James M., Shubuta, Miss. Can-opener	717,254	Dec. 30	5188	1125	101	2397
Nettleton, Charles, Des Moines, Iowa. Boiler-cleaning composition	711,876	Oct. 21	2853	621	101	625
Nettleton, John L., Waterbury, assignor of one-half to R. Marsh, Thomaston, Conn. Window-shutter	702,148	June 10	1556	353	99	2447
Neubauer, Carl E., Buhl, assignor of one-half to H. Krause and M. L. Fay, Virginia, Minn. Projectile	693,329	Feb. 11	2099	459	98	1257
Neubauer, Carl E., assignor of one-half to A. Burke, I. Krause, J. Karl, Virginia, and F. J. Dahlberg, Buhl, Minn. Rail-support	705,955	July 29	5069	1104	100	1085
Neubauer, Edward A., Iron Mountain, Mich. Recorder	706,682	Aug. 12	1920	292	100	1402
Neubecker, Jean, Offenbach-on-the-Main, Germany. Apparatus for cooling or heating liquids	707,363	Aug. 26	3635	819	100	1911
Neuendorf, Wilhelm, Erfurt, Germany. Stamping or punching tool	714,602	Nov. 25	4133	914	101	1799
Neuendorfer, Carl, New York, and B. Witsch, Brooklyn, N. Y. Book-cover	705,839	Sept. 29	4897	1065	100	1051
Neuhaus, Michael W., assignor to Western Implement Company, Port Washington, Wis. Grinding-machine	700,226	May 20	2178	498	99	1656
Neuhaus, Michael W., assignor to Western Implement Company, Port Washington, Wis. Grinding-machine	705,232	July 24	3578	822	99	2895
Neuhs, Werner, Cleveland, Ohio. Flat-iron	705,918	June 22	3729	810	100	803
Neuman, Herman, Painesdale, Mich. Crib	710,115	Sept. 30	4113	928	100	2880
Neumann, Albrecht B., Joliet, Ill. Mechanism for feeding blast-furnaces	692,698	Feb. 4	855	196	98	974
Neumann, Arno V., Mansfield, Ohio. Triplicate-order book	715,505	Dec. 9	1795	398	101	2219
Neumann, Christian, assignor to Natural Power Co., St. Louis, Mo. Blower and compressor	704,360	July 8	1808	404	100	394
Neumann, Frank G., Paterson, N. J. Article-lifting device	704,661	July 15	2408	521	100	519
Neumann, John W., Louisville, Ky. Hydrocarbon-burner	708,360	Sept. 2	699	157	100	2123
Neumann, John W., assignor of one-half to J. E. Norris, Louisville, Ky. Liquid-fuel burner	698,408	Apr. 22	3762	830	99	845
Neumann, John W., assignor of one-half to J. E. Norris, Louisville, Ky. Liquid-fuel burner	702,880	June 17	2920	674	99	2747
Neumann, Perez, Nuremberg, Germany. Stud	696,472	Apr. 1	145	35	99	36
Neumeier, Joseph, La Crosse, Wis. Well-tube lifter	713,485	Nov. 11	1959	448	101	1316
Neumeier, Horace F., Macungie, Pa. Hose-nozzle	699,554	May 6	801	189	99	1341
Neumiller, John, Jonesville, Wis. Table-fastener	705,839	Sept. 29	4897	1065	100	2661
Neuray, Thomas, Liege, Belgium. Oil-filter	702,814	June 17	2805	645	99	2724
Neureuther, Andrew H., Peru, assignor to Western Clock Manufacturing Company, LaSalle, Ill. Lantern-pinion	712,325	Oct. 28	3699	808	101	813
Neuser, Henry. (See Neuser, John, assignor.)						
Neuser, John, Woden, Iowa, assignor to H. Neuser, Manitowoc, Wis. Windmill	698,409	Apr. 22	3763	830	99	845
Neville, Frank V., New York, N. Y. Piano	893,885	Feb. 25	3173	701	98	1514
Nevigold, Frederick, Portland, Oreg. Reversatory smelting-furnace	695,568	Mar. 18	2851	687	98	2343
Neville, Joseph F., Woodruff, Utah. Load-binder	706,090	Aug. 5	168	34	100	1151
Neville, Wilkinson D., assignor to Walworth & Neville Manufacturing Company, Bay City, Mich. Machine for shaping cross-arms of telegraph-poles	696,255	Mar. 25	3626	810	98	2515

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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New Broom and Supply Company. (See Brown, Theodore H., assignor.)						
New Button Sewing Machine Company. (See Mathison, Joseph, assignor.)						
New Domestic Sewing Machine Company. (See Todd, George M., assignor.)						
New England Automatic Weighing Machine Company. (See Nickerson, William E., assignor.)						
New England Electric Company. (See Lawrence, Harry W., assignor.)						
New England Electric Manufacturing Company. (See Proctor, Guy H., assignor.)						
New England Fire Supply Company. (See Holbrook, Frank, assignor.)						
New England Telephone & Telegraph Company. (See Farnham, Isaiah H., assignor.)						
New England Telephone and Telegraph Company. (See Howell, Martin H., assignor.)						
New Era Machinery Company. (See Pierce, George H., assignor.)						
New Era Machinery Company. (See Wallace, Charles, assignor.)						
New Haven Car Register Company. (See Gierding, Charles E., assignor.)						
New Haven Clock Company. (See Porter, Wilson E., assignor.)						
New Haven Novelty Machine Company. (See Luke, Charles, assignor.)						
New Hiett Machines Manufacturing Company. (See Hiett, De Kernen J. T., assignor.)						
New Idea Printing Machine Company. (See Williams, John F., assignor.)						
New Jersey Wire Cloth Company. (See Orr, William, assignor.)						
New Jersey Zinc Company. (See Stone, George C., assignor.)						
New Process Lighting Company. (See Little, Thomas J., Jr., assignor.)						
New Process Manufacturing Company. (See Ray, Samuel W., assignor.)						
New Process Reduction Company. (See Collins, William F., assignor.)						
New Standard Concentrator Co. (See Look, Luther, assignor.)						
New York Continental Jewell Filtration Company. (See Jewell, Omar H. and W. M., assignors.)						
New York Labelling Machine Company. (See Giffilan and McKaig, assignors.)						
New York-Pittsburgh Manufacturing Company. (See Fefel, Henry H., assignor.)						
New York Shipbuilding Company. (See Cooke, John C., assignor.)						
New York Shipbuilding Company. (See Lovekin, Luther D., assignor.)						
New York State Saw Filers Association. (See Cole, Dwight S., assignor.)						
New York Stencil Works. (See Bartusch, Oswald G., assignor.)						
New York Stone, Brick & Terra-Cotta Renovating Company. (See Saum, David F., assignor.)						
New York Supply Company. (See Whittington, Joseph H., assignor.)						
Newark Cornice and Skylight Works. (See Schwing, George, assignor.)						
Newark Machine Company. (See Kinney, Clement L. V., assignor.)						
Newberry, Spencer B. (See Reilly and Newberry.)						
Newberry, Spencer B., assignor to Sandusky Portland Cement Company, Sandusky, Ohio. Measured-feed apparatus	699,609	May 13	1101	258	99	1415
Newberry, Thomas J., and J. V. Ericson, Chicago, Ill. Gondola freight-car	695,623	Mar. 18	2422	548	98	2254
Newbold, John P., trustee. (See Faulkner, Alban H., assignor.)						
Newbold, John P., Philadelphia, Pa. Vapor-stove	694,173	Feb. 25	3745	827	98	1629
Newbold, Sidney. (See Taylor and Newbold.)						
Newburg, John I., Vicksburg, Miss. Hydraulic motor	703,451	July 1	148	33	100	32
Newburg, John I., Vicksburg, Miss. Metallic sleeper or tie	706,587	Aug. 12	1141	253	100	1362
Newby, Howard H. (See Burgess, James C., assignor.)						
Newby, William H., Indianapolis, Ind. Three-handed dial	695,074	Mar. 11	1418	311	98	2029
Newcomb, Edward C., Jamaica Plain, Mass. Generating steam or vapor	704,908	July 15	2890	622	100	622
Newcomb, Edward C., Jamaica Plain, Mass., assignor of three-fifths to P. Van Volkenburgh, New York, N. Y. Apparatus for generating steam or vapor	704,907	July 15	2862	621	100	613
Newcomb, Morris S. (See Zaukeberg, Anton E., assignor.)						
Newdigate, James T., Flemingsburg, Ky. Gate	696,256	Mar. 25	3628	811	98	2515
Newell, Augustus, Pasadena, assignor to Perfect Sliding Door Company, Los Angeles, Cal. Lock for sliding doors	700,227	May 20	2180	499	99	1657
Newell, Augustus W., Bradford, Pa. Portable heating and cooking shelf	694,174	Feb. 25	3746	827	98	1629
Newell, Charles E., Cleveland, Ohio. Hook and lock for iron bedsteads	714,783	Dec. 2	156	31	101	1869
Newell, Ebenezer J., et al. (See Bryant, John M., assignor.)						
Newell, Edgar G., Glenridge, N. J. Automatic machine for making packing-rings	693,886	Feb. 25	3174	701	98	1515
Newell, Frank, Leonia, N. J., assignor of three-fourths to G. S. and F. E. Stanton, New York, N. Y. Apparatus for producing fabric having bias weave	704,566	July 15	2258	489	100	487
Newell, Frank C., Wilkinsburg, assignor to Westinghouse Air Brake Company, Pittsburgh, Pa. Automatic regulator for electric circuits	696,473	Apr. 1	146	35	99	26
Newell, Ralph O., Venus, Neb. Well-auger	708,247	Sept. 2	464	106	100	2076
Newfield, Ira L., Austin, Tex. Follower for packing sauer-kraut, &c	691,479	Jan. 21	2108	473	98	473
Newhall, Henry B. (See Cook, John H., assignor.)						
Newhall, Henry B. (See Tripp, Jacob W., assignor.)						
Newhall, John. (See Hartley, Namack, and Newhall.)						
Newha use, Oscar, San Francisco, Cal. Means for preserving and rendering sharp cutting edges, &c	693,146	Feb. 11	1743	382	98	1182
Newhouse, Oscar, San Francisco, Cal. Rendering sharp and even cutting edges of implements	697,529	Apr. 15	2139	476	99	487
Newhouse, Oscar San Francisco, Cal. Car-axle box	701,085	July 8	1330	290	100	278
Newhouse, Ray C., Columbus, Ohio. Sand-blast	699,405	May 6	530	122	99	1284
Newlin, Harvey, Brooklyn N. Y. Bib	704,206	July 8	1578	341	100	331
Newlin, Stranda L., and J. Mathisen, Kingriver, Cal.; said Newlin assignor to said Mathisen. Acetylene gas generator	707,796	Aug. 26	3508	791	100	1888
Newman, Frederick S., Springfield, Mass. Illustrating apparatus	701,374	June 3	161	35	99	2141
Newman, George T., Bonaparte, Iowa. Telephone attachment	712,402	Oct. 28	3841	840	101	845
Newman, Henry C., Columbus, Ohio. Brick or stone mason's gage	713,789	Nov. 18	2561	571	101	1457
Newman, John W., assignor to Newman Manufacturing Company, Elizabeth, N. J. Exhaust-water trap	715,284	Dec. 9	1203	257	101	2101
Newman, Leopold, Braddock, Pa. Apparatus for hemming garments	710,503	Oct. 7	193	44	101	40
Newman, Leopold, Braddock, Pa. Machine for hemming garments	710,504	Oct. 7	205	46	101	43
Newman Manufacturing Company. (See Newman, John W., assignor.)						
Newman, Marshall J., Watertown, Mass. Hinge	698,216	Apr. 22	3443	756	99	779
Newman, Samuel, Cincinnati, Ohio. Automatic liquid vending apparatus	711,069	Oct. 14	1294	280	101	281
Newman, Samuel, and M. Borsodi, assignors to Auto Construction Co., Cincinnati, Ohio. Coin-controlled vending apparatus	691,564	Jan. 21	2247	506	98	503
Newman, William, Alexandria, S. D. Post-securing device	691,658	Jan. 21	2131	547	98	541



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Newman, William, Alexandria, S. D. Belt-gearing	694,175	Feb. 25	3747	827 828	98 1629
Newman, William D., Patoka, Ill. Bed-brace	701,923	June 10	1141	262	99 2362
Newport, Rodman B., Philadelphia, Pa. Treating garbage	703,235	June 24	2705	811	99 2322
Newsom, George W., Sachse, Tex. Washboard	705,284	July 22	3730	176 177	100 803
Newsom, Joseph N., St. Louis, Mo. Telegraphically-operated signal system	703,810	July 1	799	177 178	100 161
Newsom, Joseph N., and L. Malone, St. Louis, Mo. Vehicle-wheel guide and track	712,578	Nov. 4	227	55	101 944
Newton, Albert S., Providence, R. I. Sanitary trap	698,217	Apr. 22	3444	756	99 780
Newton, Charles L., Pueblo, Colo. Bell	695,829	Mar. 18	2786	695	98 2328
Newton, Charles W., Baltimore, Md. Locomotive-boiler	692,896	Feb. 11	1236	274	98 1070
Newton, George W., Hubbard, Ohio. Car-wheel-flange lubricator	710,709	Oct. 7	588	124	101 121
Newton, Guy D., Cleveland, Ohio. Pumping power for oil-wells	701,497	June 3	392	88	99 2189
Newton, Herbert B. (See Ayer, Albert E., assignor.)					
Newton, Herbert B. (See Hebert, Arsene, assignor.)					
Newton, Herbert B. (See Webster, Harold A., assignor.)					
Newton, Nelson A., Kalamazoo, Mich. Vehicle-wheel	705,121	July 22	3369	780	100 731
Newton, Robert W., Providence, R. I. Automatic fire-extinguisher	703,003	July 1	532	120	100 104
Newton, William J., New York, N. Y. Electrical flush-switch	702,980	June 24	3150	724	99 2312
Newton, William J., assignor to F. M. Dyer, New York, N. Y. Snap push-button switch	707,622	Aug. 26	3103	699	100 1806
Ney, Jacob, assignor to V. L. Ney Company, Canton, Ohio. Sling lock trip	690,659	Jan. 7	561	122	98 120
Ney, Jacob, assignor to V. L. Ney Company, Canton, Ohio. Hay-elevator	690,660	Jan. 7	562	122	98 121
Neylon, William A., Allegheny, and J. Gouldsbary, McKees Rocks, Pa. Boring-bar	709,275	Sept. 16	2442	552	100 2514
Niagara Machine and Tool Works. (See Wolfe, Arthur H., assignor.)					
Nice, George P., and E. F. Loelein, Williamsport, Pa. Fire-escape	704,086	July 8	1333	290	100 279
Nicely, Robert R., Denver, Colo. Electromagnetic tool	713,486	Nov. 11	1960	443	101 1316
Nichol, Thomas and W. H., Chatham, Canada. Cartridge-loading machine	695,075	Mar. 11	1418	311 312	98 2029
Nichol, William H. (See Nichol, Thomas and W. H.)					
Nicholas, John M., New York, N. Y. Copying-bath	714,512	Nov. 25	3968	879	101 1763
Nicholas, Joseph W., New York, N. Y. Reversible garden-plow	716,744	Dec. 23	4072	892	101 2734
Nicholas, William F., Chicago, Ill. Flat-iron heater	699,760	May 13	1102	258	99 1415
Nichols, Reuben, Auckland, New Zealand. Fire-escape and fire-alarm folding ladder	700,073	May 18	1815	421	99 1562
Nichols, Samuel, Sr., Kenesaw, Neb. Board-setting instrument	716,465	Dec. 23	3540	774	101 2620
Nicholls, William T., Welsburg, W. Va. Manufacture of glass tiles and sheets	716,086	Dec. 16	2779	613	101 2449
Nichols, Aaron S., Chicago, Ill. Veneer-drier	717,255	Dec. 30	5189	1125	101 2097
Nichols, Anckney D., Patoka, Ill. Car-coupling	715,124	Dec. 2	92	135 136	101 2023
Nichols, Blanche S., New Britain, Conn. Collar-foundation	699,847	May 13	1400	323	99 1476
Nichols, Charles H., St. Louis, Mo. Flash-light apparatus	708,909	Sept. 9	1692	390	100 2341
Nichols, Edward A. (See Nichols and Schad.)					
Nichols, Elmer P., assignor of one-half to L. A. Cogswell, Manchester, N. H. Evening and grading machine	711,585	Oct. 21	2279	495	101 503
Nichols, Eugene M., Philadelphia, Pa. Trap	714,323	Nov. 25	3635	801	101 1698
Nichols, Frank H., Lynn, Mass. Ice-cream freezer	706,773	Aug. 12	1504	334	100 1440
Nichols, Frank L., Washington, D. C., assignor to C. A. Withers, Augusta, Ga. Deflector and ventilator for passenger-cars	695,168	Mar. 11	1596	354 355	98 2066
Nichols, Frank L., assignor of one-half to W. W. Bostwick, Brooklyn, N. Y. Gas-engine	702,375	June 10	1957	445	99 2526
Nichols, Harvey E., et al. (See Wahan and Rehberg, assignors.)					
Nichols, Henry B., Philadelphia, Pa. Railway-track structure	694,176	Feb. 25	3749	828 829	98 1630
Nichols, Henry B., Philadelphia, Pa. Interlocking rail connection and crossing	694,982	Mar. 11	1249	273	98 1994
Nichols, Henry B., Philadelphia, Pa. Railway-track structure	713,790	Nov. 18	2563	571 572	101 1458
Nichols, Henry B., assignor of one-half to C. B. Vovnow, Philadelphia, Pa. Rail-joint	717,025	Dec. 30	4734	1026	101 2899
Nichols, J. J., et al. (See Chincock, George H., assignor.)					
Nichols, Seth A., Powdersville, Mich. Hay-fork	697,742	Apr. 15	2531	564	99 567
Nichols and Shepard Company. (See Flagg, Eli W., assignor.) (Reissue.)					
Nichols, Walter B. and E. A., and F. X. Chad, Gainesville, Tex. End-gate fastener	691,480	Jan. 21	2109	473	98 473
Nichols, William H., assignor of one-half to E. L. Larabee, Bennington, Vt. Insulator	697,001	Apr. 8	1183	265	99 271
Nicholson, Ellis H., Santa Maria, Cal. Hay-loading apparatus	691,659	Jan. 21	2432	547	98 541
Nicholson, Frank E. (See Underwood, George W., assignor.)					
Nicholson, Frank E., and G. I. Blanchard, Kansas City, Kans. Hog-killing bed	712,579	Nov. 4	2284	35,56	101 945
Nicholson, Frank W., Jackson, Mich. Shade for photographic lenses	698,999	Apr. 29	4949	1096	99 1117
Nicholson, James M. (See Horton and Nicholson.)					
Nickel, David, assignor to Nickel Manufacturing Company, Morris, Ill. Caster	706,336	Aug. 5	666	145	100 1250
Nickel, David, and P. B. Peterson, assignors to Nickel Manufacturing Company, Morris, Ill. Caster	706,337	Aug. 5	668	145	100 1250
Nickel Manufacturing Company. (See Nickel, David, assignor.)					
Nickel Manufacturing Company. (See Nickel and Peterson, assignors.)					
Nickell, Charles W., Jamesport, Mo. Hay-stacker	716,745	Dec. 23	4073	892 893	101 2734
Nickerson, Freeman, Jr., Fall River, Mass. Tail-board spring	699,342	May 6	403	93	99 1256
Nickerson, Walter A., Houlton, Me. Fire-extinguishing and life-saving apparatus	710,069	Sept. 30	4013	906	100 2867
Nickerson, William E., Cambridge, Mass., assignor to New England Automatic Weighing Machine Company, Portland, Me. Apparatus for feeding weighing-machines	706,588	Aug. 12	1144	233 234 235	100 1363
Nickey, Charles F., Clay City, Ind. Lifting and conveying apparatus	691,962	Jan. 28	3017	677 678 679	98 678
Nickey, Oscar E., Bigspring, Tex. Lock	710,505	Oct. 7	214	47	101 44
Nicklaus, Charles W., Elgin, Iowa. Can-straightener	694,177	Feb. 25	3751	829	98 1630
Nicola, Charles D. (See Campbell, Howard S., assignor.)					
Nicolay, Peter, assignor of one-half to P. W. Cornelius, Minneapolis, Minn. Means for supporting and operating distributing-spouts	716,087	Dec. 16	2780	613	101 2449
Nicolet, Albert, Newark, N. J. Overflow-alarm	693,425	Feb. 18	2288	501 502	98 1316
Nicolet, John, Canton, Ohio. Shoe-blasting machine	706,091	Aug. 5	170	34	100 1151
Nieda, Joseph S., von, Sharonhill, Pa. Pipe-stopper and tobacco-tamper	716,269	Dec. 16	3141	688	101 2523
Niederauer, Edward, Hamilton, Ohio. Undergarment	700,801	May 27	3312	760	99 1099
Niedermayer, George. (See Spaulding, George H., assignor.)					
Niederer, Lizzie L., St. Louis, Mo. Skirted undergarment	711,877	Oct. 21	2851	631	101 626
Niehau, Otto, West Berkeley, Cal. Adjustable window-screen	700,362	May 20	2452	562	99 1712
Niehaus, Otto, West Berkeley, Cal. Rail-joint	713,334	Nov. 11	1697	383	101 1061

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Nielsen, Anton E., Brooklyn, assignor to Sterling Supply & Manufacturing Company, New York, N. Y. Fare-register	700,708	May 20	3097	704	99	1849
Nielsen, Anton E., Brooklyn, assignor, by mesne assignments, to F. Bentsen, New York, N. Y. Fare-register	710,796	Oct. 7	770	164 165 166	101	158
Nielsen, Anton E., and F. Bentsen, assignors to G. Haas, Brooklyn, N. Y. Curved-hat-stay-dangling machine	697,871	Apr. 15	2370	614	99	621
Nielsen, Carl, A. C. and L. S. Andersen, Odense, Denmark. Automatic pump	713,667	Nov. 18	3334	521	101	1707
Nielsen, Christian, Sr., and Christian, Jr., Chicago, Ill. Game	697,652	Apr. 15	2369	527	99	533
Nielsen, D. L. (See Martin, Herman, assignor.)						
Nielsen, Frederik V., San Francisco, Cal. Hoisting-gear	695,830	Mar. 18	2788	635	98	2329
Nielsen, Frederik V., San Francisco, Cal. Boom-rigging	710,334	Sept. 30	4517	1018	100	2974
Nielsen, Friedrich G., Sonderburg, Germany. Apparatus for raising sunken vessels	695,391	Mar. 11	1889	420	98	2125
Nielsen, George P., Whitestone, N. Y. Rotary engine	693,055	Feb. 11	1543	336 337	98	1143
Nielsen, Herman, assignor of one-half to F. W. Ofeldt and Sons, South Brooklyn, N. Y. Pumping-engine	700,974	May 27	3626	833	99	1971
Nielsen, Johannes, Giesegaard, by Ringsted, Denmark. Variable mechanism for transmitting motion	701,603	June 3	582	128	99	2230
Nielsen, Lars C., Frederiksberg, Denmark. Burner for oil-lamps having incandescent mantles	692,470	Feb. 4	436	102	98	888
Nielsen, Stefanus, Brooklyn, N. Y. Reversing mechanism	705,693	July 29	4440	962	100	959
Nieman, John H., Petersburg, Neb. Cloth or paper measuring machine	694,983	Mar. 11	1250	273	98	1994
Niemeyer, William H., Los Angeles, Cal. Bicycle-lock	692,538	Feb. 4	573	131	98	915
Niendorf, Louis W., New York, N. Y. Scaffold-chair	710,602	Oct. 7	391	83	101	78
Nierhaus, Ernst, and P. Kaiser, Barmen, Germany. Loom	694,108	Feb. 25	3610	798 799	98	1602
Nierker, Hermann, Zurich, Switzerland. Elastic anesthetic apparatus	707,623	Aug. 26	3107	699	100	1807
Niese, Henry E., assignor to American Sugar Refining Company, New York, N. Y. Storage-tank	698,129	Apr. 22	3273	716	99	742
Nielsen, Joseph M., Elkhorn, Wis. Sign-board	705,781	July 29	4761	1082	100	1023
Nieters, Joseph J., St. Louis, Mo. Brick-press	708,778	Sept. 9	1411	324	100	2281
Niewerth, Hermann, Berlin, Germany. Reducing ores	692,539	Feb. 4	574	134 135	98	915
Niggli, Emil, San Antonio, Tex. Cheese-cutter	701,924	June 10	1142	262	99	2362
Niggli, Emil, San Antonio, Tex. Cheese-cutter	717,416	Dec. 30	5521	1199 1200	101	8065
Nighman, Charles A., Jersey City, N. J. Rod-rolling mill	706,993	Aug. 12	1894	424 425	100	1520
Nighman, Charles A., Jersey City, N. J. Rolling rods	706,994	Aug. 12	1898	425	100	1521
Nightingale, Alvin E., Plymouth, Mass. Cranberry-sorting apparatus	702,583	June 17	2372	541	99	2633
Nightingale, Henry H., Moundridge, Kans. Speed-governor	715,845	Dec. 16	2298	509	101	2344
Nightingale, Josiah E., Danvers, Mass. Machine for measuring the areas of surfaces	701,498	June 3	392	88	99	2189
Niles-Bement-Pond Company. (See Cockburn, Francis B., assignor.)						
Niles, Cleveland P., Chinoek, Mont. Field-gate	706,683	Aug. 12	1322	292	100	1402
Niles, George A., assignor to Standard Harrow Company, Utica, N. Y. Tooth-fastener for weedeers	707,624	Aug. 26	3108	700	100	1807
Niles Tool Works Company. (See De Leeuw, Adolph L., assignor.)						
Niles, William E., Chicago, Ill. Can-opener	711,733	Oct. 21	2572	566	101	567
Nilson, Albert A., Denison, Tex. Jeweler's tool	698,732	Apr. 23	1438	980	99	1005
Nilson, Axel H., and M. Olson, assignors to A. H. Nilson Machine Company, Bridgeport, Conn. Wire straightening and cutting machine	701,375	June 3	406	36	99	2142
Nilson, Lars G., assignor to S. M. and H. S. Fischer, New York, N. Y., and H. Anderson, Des Moines, Iowa. Oil-feeder	702,815	June 17	2806	645	99	2724
Nilson, Lars G., assignor to S. M. and H. S. Fischer, New York, N. Y., and H. Anderson, Des Moines, Iowa. Axle	714,019	Nov. 18	3010	670	101	1551
Nilson, Lars G., assignor to S. M. and H. S. Fischer, New York, N. Y., and H. Anderson, Des Moines, Iowa. Electric interrupter	714,020	Nov. 18	3011	670	101	1551
Nilson, Lars G., assignor to S. M. and H. S. Fischer, New York, N. Y., and H. Anderson, Des Moines, Iowa. Controller for electric motors	714,021	Nov. 18	3012	670	101	1551
Nilson, Lars G., assignor to S. M. and H. S. Fischer, New York, N. Y., and H. Anderson, Des Moines, Iowa. Driving mechanism for vehicles	715,597	Dec. 9	1797	398	101	2220
Nilson, Nils, Wayzata, Minn. Automatic weighing-scale	702,463	June 17	2140	486 487	99	2536
Nilson, Nils, San Francisco, Cal. Ink-fountain for printing-presses	707,625	Aug. 26	3109	700	100	1807
Nilson, Oscar M., Mansfield, La. Evaporating apparatus	698,733	Apr. 23	1439	980	99	1005
Nilson, Peter F., Jerome, Ariz. Ter. assignor, by mesne assignments, to Union Type-writer Company, Jersey City, N. J. Inking device for type-writing machines	702,740	June 17	2650	612 613	99	2693
Nilson, Sven, Boston, Mass. Boat-lashing device	703,664	July 1	534	120	100	105
Nimmo, Nelson J., New York, N. Y. Soap cake	717,256	Dec. 30	5180	1195	101	2998
Nimmo, Andrew, Groton, Mass. Treating animals	716,574	Dec. 23	3771	890	101	2676
Nimon, George W. (See Ferguson and Nimon.)						
Nims, Frank B., Lake Odessa, Mich. Car-starting device	711,878	Oct. 21	2855	631	101	626
Nippert, John W., Forsyth, Mont. Fastening means for doors or windows	706,995	Aug. 12	1900	426	100	1521
Nisbett, William P., and P. Andrews, Big Rapids, Mich. Machine for cutting stereotype plates	694,297	Feb. 25	3963	883	98	1674
Niss, Christian F. J., Hincley, Ill. Photographic camera	702,464	June 17	2143	487	99	2536
Niss, Christian F. J., Hincley, Ill. Camera	715,125	Dec. 2	914	196	101	2024
Nistle, George W., assignor of two-thirds to R. L. Gifford and E. W. Brooks, Chicago, Ill. Radiator attachment	691,796	Jan. 28	2721	612	98	619
Nivison, William E., Britton, assignor of one-half to C. N. Goodman, Algansee Township, Branch county, Mich. Folding chair	703,077	June 24	3318	763	99	2844
Nivols, Victor. (See Goldfaden, Sam, assignor.)						
Nixon, Moses C., Fort Wayne, Ind. Mechanism for converting motion	700,363	May 20	2453	562	99	1712
Noack, Adolph G., Cleveland, Ohio. Water-filter	705,696	July 29	4607	999 1000	100	992
Noble, Andrew, assignor to W. G. Armstrong, Whitworth & Company, Limited, New-castle-upon-Tyne, England. Automatic gun	702,240	June 10	1721	389	99	2479
Noble, Daniel H., Sheridan, Mont. Rail-joint	707,447	Aug. 19	2752	623	100	1717
Noble, Donald, Finsbury, London, England, assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Eyelet-sewing machine	706,253	Aug. 5	479	103	100	1213
Noble, Edward T., Chicago, Ill. Box	708,578	Sept. 9	1035	234	100	2302
Noble, John O., Trenton, N. J. Basin-clamp	709,170	Sept. 16	2233	507	100	2469
Noble, Ralph E., Chicago, Ill. Mining-machine	711,643	Oct. 21	2391	525	101	527
Noble, William J., Philadelphia, Pa. assignor of one-half to E. McGinnis, Princeton, N. J. Mail delivering and catching device	708,390	Sept. 2	700	157 158	100	2123



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Nodon, Albert, Paris, France. Rectifier for single or polyphase alternating currents	715,126	Dec. 2	916	196	101	2024
Noechel, Frank J., Rochester, N. Y. Feed mechanism for grain-drills	694,069	Feb. 25	3546	782	98	1590
Noel, Sylvester D., Indianapolis, Ind. Crest-tile for roofs	701,376	June 3	169	36	99	2142
Noiseless and Draughtless Door and Window Cushion Company. (See Tschieky, Oscar, assignor.)						
Nolan, Edward, Wolf Summit, W. Va. Wheel-hub	710,002	Sept. 30	3899	870	100	2843
Nolan, Louis C., St. Paul, Minn. Trolley-wire finder	706,338	Aug. 5	670	146	100	1250
Nolan, Michael R., Mount Oliver, Pa. Nut-tapping machine	695,760	Mar. 18	2646	602	98	2300
Nolan, Oliver, assignor of one-half to M. Layman, Minneapolis, Minn. Mold	710,881	Oct. 7	914	198	101	186
Nolan, Patrick E., and M. Mortenson, assignors of three-fifths to D. E. Roberts, T. H. Wolford, and W. H. Locke, Superior, Wis. Dredging apparatus	697,215	Apr. 8	1556	348	99	350
Nolder, James B. (See Long and Nolder.)						
Nolen, James G., Chicago, Ill. Telephone-receiver	692,897	Feb. 11	1237	274	98	1079
Nolen, James G., Chicago, Ill. Combination telephone instrument	697,002	Apr. 8	1184	266	99	271
Nolen, James G., Chicago, Ill. Thermo-electric switch	697,530	Apr. 15	2140	476	99	487
Nolen, William J. (See Yundt and Nolen.)						
Nolte, Fletcher, Moorepark, Mich. Angle-measure for builders	717,257	Dec. 30	5191	1126	101	2998
Noite, Augustus B. (See Shawver, Charles L., assignor.)						
Nolty, Augustus J., Memphis, Tenn. Folding crate	697,355	Apr. 8	1796	402	99	402
Nonnemacher, Clyde S., assignor of one-half to E. S. Richardson, Philadelphia, Pa. Garment-supporter	703,349	June 24	3815	876	99	2946
Nonnemacher, Clyde S., assignor of one-half to E. S. Richardson, Philadelphia, Pa. Garment-supporter	703,350	June 24	3816	877	99	2946
Norballo, Hans J., et al. (See Radiguet, Arthur, assignor.)						
Norcross, Frank C., and J. Mitchell, Lorain, Ohio. Blast-furnace	700,549	May 20	2809	642	99	1785
Norcross, Orlando W., Worcester, Mass. Flooring for buildings	698,542	Apr. 29	4009	886	99	912
Norcross, Orlando W., Worcester, Mass. Flooring for buildings	698,543	Apr. 29	4012	886	99	912
Norcross, Orlando W., Worcester, Mass. Concrete column	701,377	June 3	170	37	99	2143
Nord, Olof N., assignor to J. H. Leslie, Chicago, Ill. Wrapping-machine	711,586	Oct. 21	2232	496	101	504
Nordblom, Emil G., East Syracuse, N. Y. Match-box	716,088	Dec. 16	2782	613	101	2450
Norddeutscher Lloyd. (See Hoppe, Paul, assignor.)						
Norden-Bittner Electric Company. (See Norden, Mortimer, assignor.)						
Norden, Jacob. (See Spies, Peter H. F., assignor.)						
Norden, Mortimer, assignor to Norden-Bittner Electric Company, New York, N. Y. Electric-lamp socket	698,218	Apr. 22	3445	756	99	780
Norden, Mortimer, assignor to Norden-Bittner Electric Company, New York, N. Y. Electric-light sign	705,429	July 22	4038	875	100	867
Norden, Mortimer, assignor to Norden-Bittner Electric Company, New York, N. Y. Adjustable frame for holding articles	710,797	Oct. 7	778	166	101	159
Norden, Mortimer, assignor to Norden-Bittner Electric Company, New York, N. Y. Signal for traveling cables	712,201	Oct. 28	3481	764	101	767
Norden, Mortimer, assignor to The Norden-Bittner Electric Company, New York, N. Y. Switchboard for illuminating electric-light signs	713,668	Nov. 18	2335	521	101	1408
Norden, Mortimer, assignor to The Norden-Bittner Electric Company, New York, N. Y. Electric-lamp socket	714,032	Nov. 18	3014	671	101	1552
Norden, Mortimer, New York, and L. S. Crandall, Brooklyn, N. Y. Switchboard for illuminating electric-lamp signs	702,149	June 10	1557	353	99	2447
Nordenfelt, Per de, and E. Ternström, Paris, France. Gun-carriage	717,258	Dec. 30	5192	1127	101	2998
Nordin, Charles J., Rice Lake, Wis. Milk-can	692,066	Jan. 28	3213	726	98	717
Nordin, Olof, Södertelje, Sweden. Rail-joint connection	699,234	May 6	164	40	99	1208
Nordling-Charlton Fireworks Company. (See Bidwell, Charles B., assignor.)						
Nordman, Ed. F., et al. (See Walker, John B., assignor.)						
Nordstrom, Gerhart, Kearsarge, Mich. Pipe-machine	695,480	Mar. 18	2133	481	98	2195
Nordvall, Charles J., Evanston, Ill. Mail-bag crane	696,257	Mar. 25	3630	811	98	2516
Nordyke & Marmon Company. (See Brantingham, Allen C., assignor.)						
Nordyke & Marmon Company. (See Marmon, Daniel W., assignor.)						
Norfolk, Napoleon B., San Francisco, assignor of two-thirds to R. Marsh and G. Howard, Los Angeles, Cal. Bevel	691,728	Jan. 21	2563	574	98	569
Norgate, Charles P., Orrell, England. Motor-car saddle and handle-bar support	712,580	Nov. 4	231	56	101	945
Norlin, Charles F., et al. (See Stenersen, Rudolph, assignor.)						
Norling, John E., et al. (See Brownrigg and Norstrom, assignors.)						
Norling, Peter O., et al. (See Brownrigg and Norstrom, assignors.)						
Norman, John W., Dyersburg, Tenn. Nut-lock	694,178	Feb. 25	3752	829	98	1630
Norman, Thomas E., Fall River, Mass. Top-roll saddle	715,502	Dec. 9	1617	350	101	2184
Norman, Thomas W., Boston, Mass. Machine for making ropes	691,797	Jan. 28	2723	612	98	619
Norman, Thomas W., Boston, Mass. Machine for making cords or ropes	691,798	Jan. 28	2728	615	98	620
Norman, Thomas W., Boston, Mass. Cord or rope machine	693,887	Feb. 25	3176	702	98	1515
Norman, William C., Smithton, Ark. Calendar	700,364	Sept. 16	2382	582	100	2344
Norman, William F., and J. H. Berghauer, Nevada, Mo. Metallic roof-cresting	700,364	May 20	2455	562	99	1713
Normand, Joseph E., Watertown, N. Y. Air-brake	697,003	Apr. 8	1186	266	99	271
Normand, Joseph E., Hoboken, N. J., assignor of one-half to J. R. Ellicott, Nyack, and C. A. Ball, Brooklyn, N. Y. Air-brake. (Reissue.)	12,047	Oct. 28	3975	889	101	872
Normand, Joseph M., assignor to United States Tool Holder Company, Springfield, Ohio. Tool-holder	714,942	Dec. 2	604	126	101	1956
Norment, William M., Whiteville, Tenn. Storm-curtain for vehicles	695,332	Mar. 11	1890	420	98	2125
Norres, Wilhelm, Schalke, Germany. Electric mine-explorer	707,626	Aug. 26	3110	700	100	1808
Norrington, Henry H., West Bay City, Mich. Manifold duplicating device	709,853	Sept. 23	3575	806	100	2764
Norrington, Henry H., West Bay City, Mich. Score-indicator	710,993	Oct. 14	1123	247	101	217
Norrington, Nova Z., Hammond, Ind. Valve	704,087	July 8	1834	291	100	279
Norris, Albert N., Rushville, Ind. Grain-drill	713,335	Nov. 11	1698	383	101	1201
Norris, Almon E., Cambridgeport, Mass. Friction-clutch	697,371	Apr. 8	1636	371	98	372
Norris, Almon E., Cambridge, Mass. Automatic brake. (Reissue.)	12,040	Sept. 30	4642	1049	100	2993

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Norris, Almon E., Cambridge, Mass. Lubricator	714,941	Dec. 2	603	126	101	1955
Norris, Almon E., assignor to Rawson & Morrison Manufacturing Company, Cambridge, Mass. Hoisting-bucket	699,343	May 6	404	93, 94	99	1256
Norris, Almon E., Cambridge, and J. Roughan, Boston, assignors to Rawson & Morrison Manufacturing Company, Cambridge, Mass. Hoisting-bucket	699,000	Apr. 29	4951	1096	99	1117
Norris, Arthur J., London, England. Rotary cutter	695,113	Mar. 11	1482	330	98	2042
Norris, Arthur J., Midway Grove, London, England. Woodworking-machine	712,710	Nov. 4	450	107	101	991
Norris, Fred, <i>et al.</i> (See Thompson, Thomas C., assignor.)						
Norris, George E., Detroit, Mich. Edge-ironing machine	689,001	Apr. 29	4955	1097	99	1118
Norris, H. C., <i>et al.</i> (See Hubbell, Thomas J., assignor.)						
Norris, John E. (See Neumann, John W., assignor.)						
Norris, John W., Creston, Ill. Grapple	698,544	Apr. 29	4014	887	99	913
Norris, Mary E. (See Stewart, Frank, assignor.)						
Norris, William, assignor to T. Coulthard & Company, Limited, Preston, England. Motor-vehicle	699,808	May 13	1309	303, 304	99	1457
Norris, William, assignor to T. Coulthard & Company, Limited, Preston, England. Motor-vehicle	711,118	Oct. 14	1372	299	101	298
Norris, William, Blackpool, and H. Spurrier, St. Annes-on-the-Sea, England. Steam-generator	708,066	Sept. 2	124	29	100	2007
Norrman, Godfrey L., Atlanta, N. J. Boiler-setting	690,870	Jan. 7	947	212	98	199
Norstrom, John K. (See Brownrigg and Norstrom.)						
Norstrom, Nils E., Chicago, Ill., assignor of two-thirds to J. Anderson, Salina, and M. E. Richardson, Sterling, Kans. Automatic telephone-exchange	701,496	June 3	394	80	99	2189
North, Lester C., <i>et al.</i> (See Furbish, Zachry T., assignor.)						
North, Edgar M., Brooklyn, N. Y. Electric block-signal	714,734	Dec. 2	158	32	101	1869
North, Edward, Los Angeles, Cal. Combined swage and casing-spear	695,169	Mar. 11	1600	355	98	2067
North, Edward, Los Angeles, Cal. Well-casing swage	716,466	Dec. 23	3541	774	101	2621
North, James A., Lowry City, Mo. Fruit-stemmer	707,154	Aug. 19	2207	494, 495	100	1601
North & Judd Manufacturing Company. (See Smith, Clarence E., assignor.)						
North, Paul, <i>et al.</i> (See Fulford, Elijah D., assignor.)						
North-Row, Kent. (See Schaefer, Carl, assignor.)						
North, Theodore, assignor to Wilcox Manufacturing Company, Aurora, Ill. Trolley-cross-over	701,925	June 10	1143	262	99	2363
North, Thomas M., Brooklyn, N. Y., assignor to R. Hoe and Company. Printing-press	703,665	July 1	535	121	100	105
North, Thomas M., Plainfield, N. J., assignor, by mesne assignments, to Aluminum Press Company, Plainfield, N. J., and New York, N. Y. Variable cam mechanism	694,570	Mar. 4	457	98, 99	98	1810
North, Thomas M., Plainfield, N. J., assignor to Aluminum Plate and Press Company, Plainfield, N. J., and New York, N. Y. Plate-clamping device for printing-presses	695,414	Mar. 11	2019	454	98	2154
North, Thomas M., assignor to R. Hoe and C. W. Carpenter, New York, N. Y. Inking mechanism for printing-machines	715,847	Dec. 16	2295	510	101	2344
North, Thomas M., assignor to R. Hoe and C. W. Carpenter, New York, N. Y. Inking mechanism for printing-machines	716,089	Dec. 16	2784	614	101	2440
North, West Shoe Company. (See Sleeper, Frank H., assignor.)						
Northall, William H., Elwood, Ind. Cord for arc-lamps	711,236	Nov. 25	3448	758	101	1600
Northcraft, Ambro J., St. Louis, Mo. Registering-magazine for firearms	693,665	Feb. 18	2749	606	98	1411
Northern Electrical Manufacturing Company. (See Duncan, Frederick B., assignor.)						
Northern Electrical Manufacturing Company. (See Kragh, Christian W., assignor.)						
Northfield, Luke W. (See Morrill and Northfield.)						
Northrop, Frank L., Saco, Me., assignor to Union Water Meter Company, Worcester, Mass. Disk water-meter	700,975	May 27	3628	833	99	1972
Northrop, Hamilton F., New York, N. Y. Variable-speed gear	702,241	June 10	1724	389	99	2480
Northrop, Henry H., Chicago, Ill. Vibrato-sostenuto attachment for pianos	707,936	Aug. 26	3775	847	100	1940
Northrop, Herbert N., West Somerville, assignor of one-half to M. Anthony, Wakefield, Mass. Garment-supporter	696,474	Apr. 1	147	35	99	36
Northrop, James H. (See Quinn, Thomas, assignor.)						
Northrop, Jonas, assignor to Draper Company, Hopedale, Mass. Filling-replenishing loom	702,816	June 17	2808	646	99	2725
Northrop, Jonas, assignor to Draper Company, Hopedale, Mass. Filling-replenishing loom	691,481	Jan. 21	2111	474	98	474
Northrop, Jonas, assignor to Draper Company, Hopedale, Mass. Self-threading loom-shuttle	697,004	Apr. 8	1188	267	99	272
Northrop, Jonas, assignor to Draper Company, Hopedale, Mass. Self-threading loom-shuttle	697,005	Apr. 8	1193	267	99	272
Northrop, Sanford. (See Liethenger, Henry, assignor.)						
Northrop, Sanford. (See Steinbrenner, Andrew G., assignor.)						
Northrop, Sanford, and A. G. Steinbrenner, St. Louis, Mo. Side bearing for railway-cars	704,088	July 8	1335	291	100	279
Northwestern Grass Twine Company. (See Fleckenstein, Valentine, assignor.)						
Norton, Alfred L. (See Eaton and Norton.)						
Norton, C. E., <i>et al.</i> (See Hubbell, Thomas J., assignor.)						
Norton, Charles E., Lewiston, Me. Sterilizer for surgeons' use	690,759	Jan. 7	761	169, 170	98	161
Norton, Edwin, assignor to American Can Company, New York, N. Y. Metallic keg for white lead or other heavy materials	691,166	Jan. 14	1491	336	98	326
Norton, Edwin, New York, N. Y., assignor to American Can Company, Jersey City, N. J. Rolling metal ingots into thin plates or sheets	691,565	Jan. 21	2290	507	98	503
Norton, Edwin, Maywood, Ill., assignor, by mesne assignments, to American Can Company, Jersey City, N. J. Machine for soldering or uniting seams of sheet-metal cans	693,803	Feb. 18	2956	661, 662, 446	98	1461
Norton, Edwin, New York, N. Y., and J. G. Hodgson, Maywood, assignors to Automatic Vacuum Canning Company, Chicago, Ill. Automatic double-seaming machine	693,803	Feb. 11	2048	447, 448	98	1245
Norton, Edwin, and A. P. Kennedy, Maywood, Ill., assignors, by mesne assignments, to American Can Company, Jersey City, N. J. Machine for automatically sweating or uniting without solder the side seams of sheet-metal can-bodies	693,804	Feb. 18	3000	663, 664	98	1462
Norton, Frank E., Sidney, N. Y. Thread-cutting attachment for spools	711,784	Oct. 21	2674	589	101	587
Norton, Frederick L., Racine, Wis. Pneumatic stacker	697,633	Apr. 15	2370	528	99	533
Norton, Frederick L., Racine, Wis. Pneumatic stacker	703,078	June 24	3320	763	99	2844
Norton, Gerrit, assignor to M. M. Norton, New York, N. Y. Machine for capping bottles	710,396	Sept. 30	4449	1003, 1004	100	2960
Norton, Horatio N. (See Hodgson and Norton.)						
Norton, Horatio N., Maywood, Ill., assignor, by mesne assignments, to American Can Company, Jersey City, N. J. Can-head delivering apparatus	704,266	July 8	1678	365, 366	100	352
Norton, Horatio N., Maywood, Ill., assignor, by mesne assignments, to American Can Company, Jersey City, N. J. Can-testing machine	704,267	July 8	1679	366	100	352
Norton, James A., Odebolt, Iowa. Expansive-fluid motor	715,285	Dec. 9	1206	258	101	2101



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Norton, James A., assignor of one-half to M. C. Malloy and J. F. Munday, Wilkesbarre, Pa. Trolley-pole catch	706,092	Aug. 5	172	35	100	1152
Norton, James P., Portland, Conn. Package-box for stationery	715,127	Dec. 2	917	197	101	2024
Norton, Lawrence A., Maywood, Ill., assignor, by mesne assignments, to American Can Company, Jersey City, N. J. Hemmed-cap machine	702,376	June 10	1960	446 447 448	99	2527
Norton, Martha M. (See Norton, Gerrit, assignor.)						
Norton, Reuben H. (See Tucker, Holling G., assignor.)						
Norton, Sheldon, assignor of one-half to W. L. Sims, Catasauqua, Pa. Molding slag	710,882	Oct. 7	915	199	101	186
Norton, Wendell P., Torrington, Conn. Speed changing and reversing mechanism	691,963	Jan. 28	3023	679 680	98	680
Norton, William T., Sr. (See Du Perow, Silas, assignor.)						
Norton, William T. et al. (See Dudley, Charles T., assignor.)						
Norwalk, Mary M., Denver, Colo. Combined folding bed and lounge	716,746	Dec. 23	4076	898	101	2735
Norwich Nickel & Brass Company. (See Sweet, George C., assignor.)						
Norwood, George A., Jr., et al. (See Taylor, James W., assignor.)						
Norwood, John E., assignor to Baltimore Ball Bearing Co., Baltimore, Md. Side bearing for cars	697,531	Apr. 15	2142	476	99	488
Norwood, John E., assignor to Baltimore Ball Bearing Company, Baltimore, Md. Car bolster and bearing	717,114	Dec. 30	4892	1059	101	2392
Norwood, Richard B., assignor to himself and P. J. Simmons, Plainfield, N. J. Street-car spittoon	715,128 715,286 713,139	Dec. 2 Oct. 9 Nov. 11	918 1208 1274	197 259 289	101	2025 2102 1176
Nosek, Joseph, Prague, Austria-Hungary. Street-car fender						
Nosker, Orren G., Paris, Tex. Bag-holder						
Nossian, Wilhelm, assignor of part to Mayer, Vienna, and S. Winter, Ungarisch Ostra, Austria-Hungary. Cart or car discharging device	691,167	Jan. 14	1493	337	98	326
Notman, Robert L., Flint, Mich. Spoke-chipping machine	711,237	Nov. 25	3448	759	101	1669
Nott, John H. (See Kinsey, Challenger, and Nott.)						
Notter, Harry L., Chicago, Ill. Glass cutter and marker	717,259	Dec. 30	5194	1127	101	2998
Nottingham, Julian R. (See Manuel and Nottingham.)						
Nourse, Walter A. (See Thenan and Nourse.)						
Noizaret, Jean, Brussels, Belgium, assignor to Compagnie Continentale d'Incandescence et de Chauffage (Système Frank Poitrimol.) Apparatus for generating acetylene gas	698,044	Apr. 22	3082	679	99	708
Novák, Andreás, assignor of one-half to S. Zeisler, Trenton, N. J. Train-signal	697,654	Apr. 15	2371	528 529	99	533
Novák, Alexandre M. J., Grenoble, France. Safety-hook	712,085	Oct. 28	3283	719	101	728
Novin, Brandt, Cambridgeport, Mass. Ratchet-drill stock and screw-driver	699,701	May 13	1103	259	99	1415
Novy, Joseph M., et al. (See Harter, Stephen D., assignor.)						
Nowack, John W., Pittsburgh, Pa. Rail-joint	713,913	Nov. 18	2908	623	101	1508
Nowlin, Thomas B., Saxton, Pa. Shade-holder	706,093	Aug. 5	174	35	100	1152
Nowotny, Franz, Bernburg, Germany. Tube-cleaner	710,738	Oct. 7	779	166	101	160
Nowotny, John S., Madisonville, Ohio, assignor to General Electric Company. Electric arc lamp	699,225	May 6	165	40, 41	99	1209
Nowotny, John S., Madisonville, Ohio, assignor to General Electric Company. Electric arc lamp	705,122	July 22	3371	730 731	100	732
Nowotny, John S., Madisonville, Ohio, assignor to General Electric Company. Electric arc lamp						
Noxon, Jonathan W., Valley City, N. D. Magazine heating-stove	705,541	July 22	4313	933	100	939
Noyes, Arthur H., Boston, Mass. Safety locking-hook	693,735	Feb. 18	2883	634	98	1439
Noyes, Emma B., Chicago, Ill. Tape-needle	708,910	Sept. 9	1694	390	100	2341
Noyes, Henry F., Indianapolis, Ind. Saw-filing machine	696,185	Mar. 25	3492	782	98	2488
Noyes, Horatio J., Ashtabula, Ohio. Heating-furnace	698,985	Feb. 25	3385	744 745	98	1557
Nüesch, Arnold, Flawil, Switzerland. Cable-probe	701,802	May 27	3313	761	99	1910
Nugent, Daniel D., Harrison, N. J. Cord and pulley brake	703,296	June 24	3706	853	99	2022
Nugent, Edgar A., Unionville, N. Y. Can	692,540	Feb. 4	577	135	98	915
Nugent, Edgar A., Unionville, N. Y. Cow-milker	699,002	Apr. 29	4957	1067	99	1118
Nugent, Edgar A., Unionville, N. Y. Cow-milker	712,326	Oct. 28	3699	808	101	813
Nuhring, Charles, Cincinnati, Ohio. Fire-extinguishing apparatus	697,006	Apr. 8	1194	268	99	278
Null, William H., Philoah, W. Va. Stove	706,589	Aug. 12	1147	254	100	1363
Numerograph Manufacturing Company. (See Dudley, George W. and A. L., assignors.)						
Nussbaumer, William O., Sheboygan, Wis. Folding table	709,171	Sept. 16	2233	567	100	2469
Nutrizio, Henry, Henderson, N. C. Coffee-pot	707,937	Aug. 28	3776	847	100	1940
Nutry, John, Brooklyn, N. Y. Instrument for indicating and recording the speed of vehicles	702,110	June 10	1498	337	99	2434
Nutry, John, Midlandpark, N. J., assignor of two-thirds to C. P. and R. Lenk, New York, N. Y. Driving-gear	708,579	Sept. 9	1036	234 235	100	2302
Nyberg, Carl G., Worcester, Mass. Pump	716,090	Dec. 16	2790	615	101	2452
Nyeum, Joseph W. S., Pittsburg, Pa. Pipe-coupling	704,909	July 15	2908	624	100	626
Nyswonger, Elijah, Hanford, Cal. Fruit corer and seeder	699,226	May 6	160	41	99	1209
O. A. Albrecht Company. (See Albrecht, Oscar A., assignor.)						
O. K. Tool Company. (See Grant, Charles W., assignor.)						
O'Brien, Joshua H., New Brighton, Pa. Puzzle	704,089	July 8	1336	291	100	279
O'Brien, Andrew P., Richmond, Va. Niter-oven	694,024	Feb. 25	3459	763	98	1572
O'Brien, Denis F., Newark, N. J. Hydrocarbon apparatus	694,179	Feb. 25	3733	829	98	1639
O'Brien, Denis F., Newark, N. J. Hydrant	694,180	Feb. 25	3737	830	98	1631
O'Brien, Denis F., Newark, N. J. Hydrant	694,218	Feb. 25	3965	883	98	1674
O'Brien, Frank C., Chicago, Ill. Ore-separator	702,990	June 24	3152	723 726	99	2812
O'Brien, Henry D. (See Forester, Berton, assignor.)						
O'Brien, Hugh, Chicago, Ill. Punch-chuck	696,745	Apr. 1	665	151	99	142
O'Brien, James, and J. Mattimore, Staten Island, N. Y. Apparatus for transposing electric-circuit wires so as to equalize induction	710,206	Sept. 39	4392	967	100	2930
O'Brien, James J., Boston, Mass. Knitting-machine	698,045	Apr. 22	3084	679 680	99	704
O'Brien, John D., Boston, Mass. Garment-holder. (Reissue)	12,063	Dec. 16	3314	723	101	2557
O'Brien, Joseph, Brooklyn, assignor of one-half to A. H. Buttlig, New York, N. Y. Wrench	705,860	July 29	4899	1065	100	1652
O'Brien, Patrick J., Buffalo, N. Y. Revolving bar or counter	706,094	Aug. 5	174	35, 36	100	1152
O'Brien, Thomas F., Naraburi West, New South Wales, Australia. Drilling-machine	704,567	July 15	2399	489	100	488
O'Brien, Thomas J., Buffalo, N. Y. Street-receiver	705,697	July 29	4610	1000	100	992
O'Brien, Thomas J., and H. L. Allen, Cairo, Ill. Clutch-pulley	698,313	Apr. 22	3662	795	99	871
O'Brien, Timothy, Paris, Canada. Charcoal-heater	700,228	May 20	2183	499	99	1637

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O'Byrne, William, assignor of one-half to W. Winters, New York, N. Y. Pencil-sharpener	703,967	July 1	1101	237	100	218
O'Byrne, William J., Catonsville, Ind. Ter. Elevator	695,334	Mar. 11	1893	421	98	2125
O'Connell, David, Brooklyn, N. Y. Air-compressor	694,885	Mar. 4	1056	234	98	1985
O'Connell, Joseph J., assignor to Western Electric Company, Chicago, Ill. Coin-collector for telephone toll-lines	704,268	July 8	1681	366	100	352
O'Connor, James, East Cambridge, Mass. Chair	708,911	Sept. 9	1695	390	100	2441
O'Connor, Jeremiah, Leavenworth, Kans. Lock	716,270	Dec. 16	3142	688	101	2524
O'Connor, John, assignor of one-half to J. Goodchild, guardian, New York, N. Y. Bottle	709,419	Sept. 16	2731	613	100	2576
O'Connor, John M., assignor to Concorite Manufacturing Company, Port Washington, Wis. Treating scrap metal	715,211	Dec. 2	1073	-----	101	2057
O'Connor, Michael J., Hartford, Conn. Stone-ripping machine	693,617	Feb. 18	2663	588	98	1898
O'Connor, Timothy F., Sauk Center, Minn. Safety ash-pan	708,162	Sept. 2	301	72	100	2044
O'Connor, Eugene J., Westport, New Zealand. Truss	712,711	Nov. 4	452	107	101	992
O'Day, Granville D. (See Groves and O'Day.)						
O'Doherty, George J., et al. (See Reynolds, James H., assignor.)						
O'Donnell, Edmond G., assignor to American Hat Sweat Sewing Machine Company, Fall River, Mass. Combined presser-foot and needle-bar lifting mechanism for sewing-machines	709,354	Sept. 16	3584	582 583	100	2545
O'Donnell, Felix, Pawtucket, R. I. Weft-replenishing mechanism for looms	695,696	Mar. 18	2546	576	98	2278
O'Donnell, James, Rhinelander, Wis. Sash stop and fastener	690,073	Mar. 25	3243	734	98	2186
O'Donnell, Terence, Kansas City, Mo. Warning-bag	703,351	June 24	3517	877	99	2946
O'Duffy, Henry W., New York, N. Y. Water-hammer	703,738	July 1	669	148	100	134
O'Hara, Irving A. (See Dieter and O'Hara, assignors.)						
O'Hara, William J., Bridgeport, assignor of one-third to C. F. Tucker, Hartford, Conn. Device for drying hair	697,743	Apr. 15	2533	565	99	567
O'Keefe, Patrick, and J. H. Whellehen, Orange, Mass. Rail-block clamp	698,314	Apr. 22	3603	795	99	811
O'Keefe, William H., Lockport, N. Y. Broom	690,871	Jan. 7	948	212	98	199
O'Lally, James E., assignor to P. K. O'Lally, Boston, Mass. Faucet	695,997	Mar. 18	2548	577	98	2279
O'Lally, Patrick E. (See O'Lally, James E., assignor.)						
O'Leary, John, assignor of five-sixths to L. Vermilyea, Cohoes, N. Y. Convertible car. (Reissue)	11,992	May 20	3137	712	99	1856
O'Leary, Michael, Syracuse, N. Y. Garbage-can	697,655	Apr. 15	2373	529	99	533
O'Loan, Charlotte A., Detroit, Mich. Corset	706,096	Aug. 5	177	36	100	1153
O'Meara, Denis H., Worcester, Mass. Vehicle-wheel	701,379	June 3	172	37	99	2143
O'Neal, Isaac N., assignor of one-half to H. H. Hatgrove, Kokomo, Ind. Wire fence	708,391	Sept. 2	703	158	100	2124
O'Neal, Reuben E. (See Mitchell, Gibb B., assignor.)						
O'Neil, Cornelius F., Paterson, N. J. Sewer basin and trap	696,475	Apr. 1	150	86	99	37
O'Neil, Cornelius F., Paterson, N. J. Sand-sprinkling machine	699,004	Apr. 29	4959	1098	99	1119
O'Neil, John, New York, N. Y. Temporary center	710,506	Oct. 7	218	47	101	44
O'Neil, John F., assignor of one-half to Fulton Iron Works, St. Louis, Mo. Engine-governor	701,762	June 3	863	191	99	2288
O'Neill, Charles W., Peoria, Ill. Water-heater	716,271	Dec. 16	3143	688	101	2546
O'Neill, Edward J., Ada, Ohio. Railway-crossing	712,404	Oct. 28	3843	841	101	834
O'Neill, George S. (See O'Neill, William J. and G. S.)						
O'Neill, Richard J., Lafayette, Ind., and T. Byrne, Bloomington, Ill. Pipe-cutter	695,482	Mar. 18	2136	482	98	2196
O'Neill, Wesley, and W. H. Gordon, Russellville, Pa. Water distribution	707,448	Aug. 19	2753	623 624	100	1717
O'Neill, William F. (See Wright and O'Neill.)						
O'Neill, William J. and G. S., Philadelphia, Pa. Coin-receptacle	712,067	Oct. 28	3235	720	101	729
O'Reilly, Francis J. (See Meller, Frederick A., assignor.)						
O'Reilly, John J., et al. (See Hehr, John G., assignor.)						
O'Riley, John. (See Morgan, Henry, assignor.)						
O'Rourke, John F., New York, N. Y. Air-lock for caissons	691,069	Jan. 14	1325	299	98	291
O'Rourke, John F., New York, N. Y. Subaqueous tunnel construction	708,249	Sept. 2	466	106 107	100	2076
O'Shea, James J. (See Wright, Charles, assignor.)						
O'Shea, James J., St. Louis, Mo. Ironing-machine	700,439	May 20	2603	595	99	1742
O'Sullivan, Annie, Washington, N. Y. Curtain-pole	716,747	Dec. 23	4079	893	101	2735
O'Sullivan, Edward F. (See Turvey and O'Sullivan.)						
Oakley, Jesse R., Homestead, Pa. Woodworking-machine	695,228	Mar. 11	1711	379	98	2089
Oakman, Angeline C. (See Oakman, Samuel, assignor.)						
Oakman, Samuel, assignor to A. C. Oakman, Cheshire, Mass. Preserve-jar	693,056	Feb. 11	1546	337	98	1144
Oakville Company. (See Boden, George, assignor.)						
Oakville Company. (See Ingraham, Edwin S., assignor.)						
Oakville Company. (See Middlebrook, William D., assignor.)						
Oastler, William C., New York, N. Y. Scraper or cleaner for wheels	705,123	July 22	3376	731	100	733
Oates, George P. (See Packham and Oates.)						
Oates, Randolph M., Paris, France, assignor to Francis Eyre Company, New York, N. Y. Steam-generator	717,260	Dec. 30	5195	1127 1128	101	2999
Oatman, George E., McKeesport, Pa. Rail-support	697,101	Apr. 8	1366	303	99	31
Ober, Charles L. W., Waberton, D. C. Curtain-fixture	691,799	Jan. 28	2734	617	98	621
Ober, Franklin H., Seattle, Wash. Ice-vehicle	711,587	Oct. 31	2230	499	101	506
Oberjohann, Henry, Toledo, Ohio. Tube-drawing grip	701,926	June 10	1144	263	99	2363
Oberlander, Carl, Aarstrå, Colo. Windmill-power	691,168	Jan. 14	1494	337	98	327
Oberlin, Israel. (See Atkinson, Edward E., assignor.)						
Oberly, John L., et al. (See Hall, Edward W., assignor.)						
Obermaier, Julius O., Lambrecht, Rheinpfalz, Germany. Dyeing apparatus	716,926	Dec. 30	4538	984	101	2857
Obermeyer, Nicholas J., and J. F. Ambacher, St. Louis, Mo. Window-screen	696,744	Apr. 1	665	150	99	142
Oberteuffer, Robert F., assignor to A. J. Holman & Company, Philadelphia, Pa. Loose leaf album	702,027	June 10	1337	305	99	2400
Oberwalder, William C., New York, N. Y. Composition for cleaning and preserving metals	705,956	July 29	5071	-----	100	1086
Oblinger, Barrett C., and A. H. C. Beatty, Independence, Mo. Heat-reflector for stoves	706,996	Aug. 12	1901	426	100	1521
Oblinger, Barrett C., and A. H. C. Beatty, Independence, Mo. Stovepipe-cleaner	707,713	Aug. 26	3390	736	100	1845
O'Brien, Heretage, N. Y. Valve	695,333	Mar. 11	1892	421	98	2125
Ocala Foundry and Machine Works. (See Clinch, Elmer E., assignor.)						
Ochs, Milton T. J., Allentown, Pa. Plaster composition	705,542	July 22	4319	-----	100	921
Ochs, Peter. (See Weaver, Albert S., assignor.)						
Ochsner, Anton, assignor of one-half to R. Ochsner, New Haven, Conn. Carriage-door lock	695,335	Mar. 11	1894	421	98	2126
Ochsner, Robert. (See Ochsner, Anton, assignor.)						
Octomobile Company. (See Andres, George S., assignor.)						
Ocuppaugh, Charles H., Rochester, N. Y. Bicycle	709,679	Sept. 23	3243	725	100	2694
Ocuppaugh, Charles H., Rochester, N. Y. Spring-hinge	713,669	Nov. 18	2338	521	101	1408



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Ocuppaugh, Charles H., Rochester, N. Y. Nozzle	713,670	Nov. 18	2339	532	101	1408
Oddie, Philip F., Wimbledon, England. Steam-pump	703,968	July 1	1102	237	100	218
Oddie, Philip F., Oschersleben, Germany. Equalizing device for steam-pumps	708,912	Sept. 9	1636	391	100	2312
Odel, Edgar, and R. Hibner, New York, N. Y. Horseshoe	698,545	Apr. 23	4015	887	99	213
Odel, Robert C., assignor to P. B. Rooney, New York, N. Y. Sofa-bedstead	698,130	Apr. 22	3275	717	99	742
Odgers, John S., Central City, Colo. Brake-block	701,220	May 27	4075	938	99	2067
Odin, Frank A. (See Cox and Odin.)						
Odling, Francis J. (See Jamieson and Odling.)						
Ofeldt, Victor, Chicago, Ill., assignor to Imperial Camera & Mfg. Co., La Crosse, Wis. Swing-back photographic camera	694,181	Feb. 25	3761	830	98	1632
Oeder, Fred M., Bangor Township, Bay county, Mich. Machine for harvesting beets	712,086	Oct. 28	3284	831	101	728
Oehler, Amiliu, & Amilfarben-Fabrik K. (See Meyer, Theodor, assignor.)				719		
Oehmen, Gustave N., Brooklyn, assignor of one-half to O. F. Ehrle, New York, N. Y. Electric cut-out	704,361	July 8	1870	405	100	395
Oehrle, Emanuel, Omaha, Nebr. Combination square and protractor	706,095	Aug. 5	175	36	100	1152
Ofeldt, August W., Newark, N. J., assignor to Salamandrine Boiler Company, New York, N. Y. Boiler	707,519	Aug. 19	2881	658	100	1744
Ofeldt, Ernest G., Brooklyn, N. Y. Boiler	716,467	Dec. 23	3543	774	101	2021
Ofeldt and Sons, F. W. (See Nielsen, Herman, assignor.)						
Officer, Frank H. (See Officer, Neill, and Burfeind.)						
Officer, Robert H., J. W. Neill, J. H. Burfeind, and F. H. Officer, Salt Lake City, Utah Cyanid process of working gold, silver, or other ores	705,698	July 29	4611	1000	100	998
Officer, Thomas, Claremont, N. H., assignor to Sullivan Machinery Co., Chicago, Ill. Packing-ring	704,568	July 15	2361	480	100	488
Ofutt, Winfield, Washington, D. C. Compound tool	706,196	Aug. 5	377	81	100	1194
Ogden, Elmer, Camden, N. J. Nailless hammer	691,482	Jan. 21	2115	474	98	473
Ogden, Ernest F., Converse, Ind. Razor-cleaner	706,997	Aug. 12	1902	426	100	1521
Ogden, David O. (See Ogden, William E., W. H., and D. O.)						
Ogden, James A., Philadelphia, Pa., assignor of one-third to C. H. Cornell, Valentine, Nebr. Gravimetric ore-roaster	691,868	Jan. 28	2848	641	98	645
Ogden, James A., Philadelphia, Pa., assignor of one-third to C. H. Cornell, Valentine, Nebr. Roaster	708,728	Sept. 9	1321	301	100	2261
Ogden, Walter E. (See Ogden, William E., W. H., and D. O.)						
Ogden, William E., Jeffersonville, Ind., W. H. and D. O. Ogden, Louisville, Ky. Revolving window-sash	716,575	Dec. 23	3771	820	101	2070
Ogilvie, David. (See Braid and Ogilvie.)				821		
Ogilvy, David J., Cincinnati, Ohio. Paint-drier	699,555	May 6	803		99	1341
Ogilvy, David J., Cincinnati, Ohio. Making paint	701,378	June 8	171		99	2143
Ogilvy, David J., Cincinnati, Ohio. Producing lamplack	706,001	July 29	5146	1132	100	1102
Ogle, John H., Windfall, Ind. Flood-gate	697,159	Apr. 8	1459	328	99	330
Oglebay, James H. (See Faris, James E., assignor.)						
Ohio Automobile Company. (See Hatcher and Packard, assignors.)						
Ohio Automobile Company. (See Packard and Hatcher, assignors.)						
Ohio Hay Press Company. (See Trabue, Luther, assignor.)						
Ohl, George A., Newark, N. J. Power-press	713,914	Nov. 18	2809	624	101	1508
Ohler, Cameron F., Emmitsburg, Md. Governor for windmills	705,782	July 29	4761	1032	100	1023
Ohlman, Albert R., Harvey, Ill. Calipers	695,114	Mar. 11	1481	331	98	2042
Ohlsson, Olof, Södertelje, Sweden. Centrifugal machine	699,003	Apr. 29	4958	1098	99	1118
Ohm, Charles H., Shellville, Cal. Cement-gravel crusher and separator	695,076	Mar. 11	1422	312	98	2080
Ohmer Car Register Company. (See Ohmer and Tyler, assignors.)						
Ohmer Car Register Company. (See Ohmer, Tyler, and Breidenbach, assignors.)						
Ohmer, John F., and H. Tyler, Dayton, Ohio, assignors to Ohmer Car Register Company, Rochester, N. Y. Fare-register	715,129	Dec. 2	921	198	101	2025
Ohmer, John F., H. Tyler, and W. F. Breidenbach, Dayton, Ohio, assignors to Ohmer Car Register Company, Rochester, N. Y. Fare-register	694,322	Feb. 25	4067	199		
Ohmer, Wilfred I. (See Kelch, Wallace M., assignor.)				200		
Ohmer, Wilfred I., and J. Leitschuh; said Leitschuh assignor to W. I. Ohmer, Dayton, Ohio. Ticket issuing, printing, and recording machine	695,115	Mar. 11	1487	905	98	1687
Ohmer, Wilfred I., and J. Leitschuh; said Leitschuh assignor to W. I. Ohmer, Dayton, Ohio. Ticket issuing, printing, and recording machine	695,116	Mar. 11	1493	906		
Ohmer, Wilfred I., and J. N. Kelly; said Kelly assignor to W. I. Ohmer, Dayton, Ohio. Ticket issuing, recording, and printing machine	714,228	Nov. 25	3451	759	101	1661
Ohno, Tadashi, Takagi, Japan. Automatic fire-protecting shutter	705,699	July 29	4616	760	100	993
Ohse, Wilhelm, Berlin, Germany. Producing photographs in relief	706,774	Aug. 12	1505	1000	100	1440
Oil Saving Manufacturing Company. (See Wyman, Horace B., assignor.)				1001		
Oil Well Supply Company. (See Mack, Patrick H., assignor.)				334		
Oil Well Supply Company. (See Smith, Charles L., assignor.)				759		
Oil Well Supply Company. (See Underwood, Alfred, assignor.)				760		
Okey Burial Vault Company. (See Okey, George B., assignor.)				1000		
Okey, George B., Indianapolis, Ind. Portable burial-vault	692,067	Jan. 28	3215	726	98	717
Okey, George B., assignor to Okey Burial Vault Company, Indianapolis, Ind. Burial-vault	693,304	Feb. 11	2050	448	98	1245
Okey, George B., assignor of three-fifths to A. J. Goddard, Indianapolis, Ind., and L. Nathan. Burial-vault	716,927	Dec. 30	4899	985	101	2857
Okun, Moses S., New York, N. Y. Electric-arc lamp	694,410	Mar. 4	147	33	98	1744
Okun, Moses S., New York, N. Y. Electric-arc lamp	698,046	Apr. 22	3089	680	99	704
Olafsen, Peter, Tacoma, Wash. Rat-trap	704,910	July 15	2909	624	100	626
Old Bridge Enamelled Brick and Tile Co. (See Rivers, William E., assignor.)						
Old, Wm. W., executor. (See Hodgson, Herbert E., assignor.)						
Oldenburg, Franz G., Altona, near Hamburg, Germany. Window-frame	712,403	Oct. 28	3842	810	101	845
Oldenburg, Franz G., Altona, near Hamburg, Germany. Tool for fixing iron railings	717,261	Dec. 30	5197	1128	101	2969
Oldenbusch, Ernest, Hoboken, N. J., assignor to Kronheimer and Oldenbusch Company. Desk furniture	693,426	Feb. 18	2291	502	98	1317
Oldenbusch, Ernest, Hoboken, N. J., assignor to Kronheimer and Oldenbusch Company. Easel	693,427	Feb. 18	2292	502	98	1317
Oldenbusch, Ernest, Hoboken, N. J., assignor to Kronheimer and Oldenbusch Company. Frame	695,229	Mar. 11	1712	379	98	2090
Oldenbusch, Ernest, Hoboken, N. J., assignor to Kronheimer & Oldenbusch Company. Box	697,216	Apr. 8	1556	349	99	350

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Oldenbusch, Ernest, Hoboken, N. J., assignor to Kronheimer & Oldenbusch Company. Frame	697,872	Apr. 15	2771	614	99	621
Oldenbusch, Ernest, Hoboken, N. J., assignor to Kronheimer & Oldenbusch Company. Lady's belt	697,873	Apr. 15	2772	614	99	622
Oldershaw, Henry A., Leicester, England. Edge-setting machine	697,856	Apr. 8	1798	408	99	402
Oldham, Joseph R., Cleveland, Ohio. Bulk-cargo vessel	704,362	July 8	1870	405	100	395
Oldham, Joshua, Brooklyn, N. Y. Conveyor	697,874	Apr. 15	2773	615	99	622
Oldham, Samuel, Philadelphia, Pa. Pneumatic impact-tool	704,912	July 15	2913	625	100	627
Olding, Barney J., St. Henry, Ohio. Canopy for tricycles, &c	691,964	Jan. 28	3026	680	98	680
Olds, Alfred W., Hartford, Conn. Liquid-fuel feed for explosive-engines	690,989	Jan. 14	1178	267	98	261
Olds, Ransom E., Detroit, Mich. Motor-vehicle	698,131	Apr. 22	3277	718	99	742
Olds, Ransom E., Detroit, Mich. Friction-clutch	704,911	July 15	2911	624	100	627
Oleson, Thory A. (See Way, Pennock M., assignor.)						
Oliger, Jacob D. (See Deering, Uriah H., assignor.)						
Oliv, Bernard, Hartford, Conn. Paper-hanger's coloring-tool	700,976	May 27	3629	833	99	1972
Oliver, Jacob M. (See Thomas and Olinger.)	690,556	May 6	804	189	99	1311
Oliver, John J., New York, N. Y. Planter	703,297	June 24	3707	854	99	2922
Oliphant, Walter H., Mount Holly, N. J. Auxiliary trolley-contact and sleet and ice cutting device						
Oliva, Joseph L. (See Hardison, Edwin A., assignor.)						
Oliver, Charles M., Baltimore, Md., assignor of one-third to M. Joyce, Washington, D. C. Machine for washing matrices preparatory to electrotyping	713,671	Nov. 18	2340	522	101	1409
Oliver, Chilled Flow Works. (See Davis, Calvin R., assignor.)						
Oliver, Doctor F., Fruitvale, Cal. Pencil-sharpener	715,848	Dec. 16	2300	511	101	2346
Oliver, Doctor F., Fruitvale, Cal. Pencil-sharpener	715,849	Dec. 16	2302	511	101	2346
Oliver, Edd C. (See Breckenridge and Oliver.)						
Oliver, Eli S., Dixfield, Me. Cooking utensil	690,760	Jan. 7	763	170	98	161
Oliver, Ellis S., Newark, N. J. Detachable fastening for vaccination-shields	702,741	June 17	2662	613	99	2693
Oliver, Percy R., New York, N. Y. Ball-lifting device	713,672	Nov. 18	2341	523	101	1409
Oliver, Woodstock, assignor to Oliver Typewriter Company, Chicago, Ill. Paper-guide for type-writing machines	693,957	Feb. 11	1547	337	98	1144
Oliver Typewriter Company. (See Knapp, Theron L., assignor.)						
Oliver Typewriter Company. (See Oliver, Thomas, assignor.)						
Olivetti, Camillo. (See Arcioni, Vittorio, assignor.)						
Olly, August G. (See Kleinhans, Titus, assignor.)						
Olmstead, Clarence L., New Haven, Conn. Adjustable hanger	703,709	July 1	615	137	100	122
Olmstead, Fernando C. (See Heim, Lewis R., assignor.)						
Olmsted, Daniel. (See Holmes, William C., assignor.)						
Olmsted and Tuttle Company. (See Hadley, Charles E., assignor.)						
Olney, Allan E., Pittsfield, Mass. Motor or engine	694,182	Feb. 25	3763	831	98	1632
Olney, Laura E., St. Joseph, Mich. Folding bed	714,229	Nov. 25	3764	762	101	1663
Olney, William D., Stillwater, Minn. Bed	694,183	Feb. 25	3763	831	98	1632
Olra, Morris, assignor of three-fourths to C. W. Young, Harvard, Ill. Thill-coupling	694,411	Mar. 4	148	33	98	1744
Olsen, Andreas, Ephraim, Utah. Support for pianos	700,977	May 27	3630	834	99	1972
Olsen, Andrew, et al. (See La Burt, John, assignor.)						
Olsen, Christen, Ishpeming, Mich. Sample-displaying apparatus	695,831	Mar. 18	2790	635	98	2329
Olsen, Hans I., Hyrum, Utah. Window	703,150	June 24	3456	792	99	2872
Olsen, John M., assignor of one-third to C. O. Kjerstenon, Chicago, Ill. Ash sifter and receptacle	697,744	Apr. 15	2534	565	99	567
Olsen, Ole, St. Louis, Mo. Street-car fender	705,783	July 29	4763	1033	100	1023
Olsen, Peder, assignor of one-half to P. M. Hofstad, Minneapolis, Minn. Fastener for glass show-cases	693,736	Feb. 18	2885	635	98	1439
Olsen, Peder, assignor of two-thirds to A. L. Deane, Chicago, and J. W. Donnell, Evans-ton, Ill. Device for holding and releasing fire-doors	696,693	Apr. 1	558	127	99	121
Olsen, Peter, Decatur, Ill. Buttonhole-cutter	692,027	Jan. 28	3134	706	98	700
Olsen, Peter, assignor to Lidgerwood Manufacturing Company, New York, N. Y. De-vice for operating the dogs of hoisting-engines	713,487	Nov. 11	1962	443	101	1317
Olsen, Petter M., Brooklyn, N. Y. Device for plumbing and leveling	714,324	Nov. 25	3636	801	101	1698
Olsen, Samuel C., et al. (See Humphrey, Edwin H., assignor.)						
Olsen, Torbjorn, Manistee, Mich. Saw-tooth tool	709,335	Sept. 16	2587	583	100	2546
Olsen, Alfred, San Diego, Cal. Needle-threading device	694,984	Mar. 11	1251	273	98	1994
Olsen, Alfred, San Diego, Cal. Hat attachment	708,913	Sept. 9	1699	392	100	2342
Olsen, August, assignor of one-third to J. C. McKeon, Philadelphia, Pa. Stitch-indent-ing machine	702,465	June 17	2145	487	99	2587
Olsen, August E. (See Liebman, Herman, assignor.)						
Olsen, Charles, Grand Rapids, Mich. Steam-boiler	709,032	Sept. 16	1959	448	100	2411
Olsen, Charles J., assignor of one-half to N. Buck, Chicago, Ill. Bowling-alley	708,779	Sept. 9	1413	324	100	2282
Olsen, Christian, Stoughton, Wis. Cycle propelling mechanism	701,761	June 3	860	191	99	2288
Olsen, John A., Downer's Grove, Ill. Woodworker's scraper	695,117	Mar. 11	1501	334	98	2045
Olsen, John A., Minneapolis, Minn. Fire-alarm	698,047	Apr. 22	3092	680	99	705
Olsen, Mauritz. (See Nilson and Olson.)						
Olsen, Olof R., assignor to Horizontal Swing Co., Kansas City, Mo. Awning	696,378	Mar. 25	3902	865	98	2570
Olsen, Olof R., assignor to Horizontal Swing Co., Kansas City, Mo. Lawn or house swing	709,110	Sept. 16	2114	484	100	2446
Olsen, Pehr M., Elsielem, Wis. Tobacco-pipe	693,888	Feb. 25	3163	702	98	1517
Olsson, Georg O. M., Stockholm, Sweden, assignor to De Laval Steam Turbine Company. Apparatus for controlling the speed of steam-turbines	705,124	July 22	3378	731	100	733
Olsson, George O. M., Stockholm, Sweden, assignor to De Laval Steam Turbine Com-pany. Apparatus for controlling the speed of steam-turbines	701,500	June 3	395	89	99	2189
Olson, Peter, Lexington, Nebr. Sample-register	695,832	Mar. 18	2791	636	98	2329
Olsted, Christian, Wyandotte County, assignor to E. Haren, Kansas City, Kans. Appa-ratus for combustion of fuel	707,627	Aug. 26	3111	701	100	1808
Omsted, Nils, and M. Iversen, Stoughton, Wis. Vaccination-shield	713,488	Nov. 11	1964	444	101	1317
Onderdonk, Lansing, New York, N. Y., assignor to Union Special Sewing Machine Com-pany, Chicago, Ill. Cylinder sewing-machine	695,481	Mar. 18	2135	481	98	2196
Onderdonk, Lansing, New York, N. Y., assignor to Union Special Sewing Machine Com-pany, Chicago, Ill. Feeding mechanism for sewing-machines	705,605	July 29	4444	963	100	960
Onderdonk, Lansing, Boston, Mass., assignor to Union Special Sewing Machine Com-pany, Chicago, Ill. Feeding mechanism for sewing-machines	703,811	July 1	810	178	100	162
Onderdonk, Lansing, Boston, Mass., assignor to Union Special Sewing Machine Com-pany. Stitch-forming mechanism for sewing-machines	703,812	July 1	812	179	100	163



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Onderdonk, Lansing, Boston, Mass., assignor to Union Special Sewing Machine Company, Chicago, Ill. Strict forming mechanism for sewing-machines	703,813	July 1	815	180	100	163
Onderdonk, Lansing, and A. A. Merritt, New York, N. Y., assignors to Union Special Sewing Machine Company, Chicago, Ill. Feeding mechanism for sewing-machines	705,694	July 29	4442	902	100	959
Ondrak, Jacob A., (See Vogel, Edward, assignor.)						
Ondrak, Jacob A., New York, N. Y. Riding-habit	603,428	Feb. 18	2203	502	98	1317
Oneida Community. (See Leonard, Stephen R., assignor.)						
Oneil, Thomas, Waterville, N. Y. Wheel attachment	699,125	Apr. 29	5164	1143	99	1169
Oney, Hugh R., Jackson, Ohio. Heating-stove	700,007	Aug. 3	1578	36	100	1153
Oney, James K., Huntington, W. Va. Display device	699,557	May 6	804	189	99	1341
Ong, Harlon F., Wendling, Oreg. Switch stand attachment	704,383	July 8	1871	405	100	395
Oniel, Minnie, Pittsburg, Pa. Ironing-board	702,242	June 10	1725	389	99	2480
Onions, Zachariah W., Wainfelin, Pontypool, England. Rolling-mill	694,025	Feb. 25	3461	763	98	1573
Ontario Drill Company. (See Armitage, Albert, assignor.)						
Onward Company. (See Reed, Albert S., assignor.)						
Opel, Frederick W. and J. G., assignors of one-third to H. Wineinger, Ireland, Ind. Wire fence	700,074	May 13	1816	421	99	1502
Opel, John G. (See Opel, Frederick W. and J. G.)						
Opes, Rousseau H., assignor to Lake Shore Novelty Company, Cleveland, Ohio. Detonating device	715,130	Dec. 2	930	200	101	2826
Opfer, John H., Genoa, Ohio. Windmill	717,115	Dec. 30	4833	1059	101	2933
Oppenheim, Annie M., administratrix. (See Oppenheim and Synck.)						
Oppenheim, Joseph, deceased, (A. M. Oppenheim, administratrix,) and H. Synck, Maria Stein, Ohio. Fertilizer-distributor	712,581	Nov. 4	231	56, 57	101	946
Oppenheimer, David, assignor to L. Auerbach, New York, N. Y. Necktie	704,569	July 15	2262	490	100	488
Oppermann, Carl T. J., London, England. Composition for use in secondary batteries	706,444	Aug. 5	906		100	1290
Oppermann, Heinrich, Berlin, Germany. Producing oxidized milk-albumen	704,692	July 15	2449		100	520
Opprendek, Franz, assignor to L. Röder, Vienna, Austria-Hungary. Sound-strengthening appliance for telephone-stations	702,669	June 17	2537	578	99	2696
Oratt, Jerome, assignor to Union Metallic Cartridge Company, Bridgeport, Conn. Cartridge	701,763	June 3	865	192	99	2289
Ording, Edward St. Joseph, Mo. Feed-roll	690,456	Jan. 7	133	28, 29	98	30
Ordody, Ludwig v., Budapest, Austria-Hungary. Producing long and short fibers from reeds, rushes, or similar plants	703,814	July 1	816		100	163
Ordway, Charles, Brooklyn, N. Y. Vacuum evaporating apparatus	709,172	Sept. 16	2335	508	100	2470
Orlway, Charles, Brooklyn, N. Y., assignor to Varyan Company. Vacuum evaporating apparatus	714,513	Nov. 25	3970	879	101	1763
Oregon Rafting Company. (See Ayres, John, assignor.)						
Orendorff, Harry L., Davenport, Iowa. Corn-planter	698,382	Apr. 22	3716	821	99	836
Orewiler, Benjamin F., Cleveland, Ohio. Garment-clasp	690,990	Jan. 14	1180	267	98	262
Organ, William E., Stillwater, Minn. Logging-sled	713,915	Nov. 18	2812	624	101	1509
Orlansky, Abraham I., Beaufort, S. C. Pencil attachment	700,803	May 27	3715	761	99	1910
Orlikowski, Frank, Cleveland, Ohio. Molding artificial stone	708,248	Sept. 2	465	106	100	2076
Orloff, Iwan, St. Petersburg, Russia. Apparatus for lifting off and removing sheets from a pile	696,186	Mar. 25	3493	782	98	2488
Orman, Charles, assignor of one-half to E. Stephens, New Harmony, Ind. Baling-press	713,791	Nov. 18	2565	572	101	1458
Ormand, David. (See Martin and Ormand.)						
Ormerod, James P. (See Scott, Mills, and Ormerod, assignors.)						
Ormerod, Thomas C. (See Scott, Mills, and Ormerod.)						
Ormsby, Collis, Louisville, Ky. Manifolding account device	696,584	Apr. 1	340	81	99	75
Ormsby, Henry J., Eureka, Kans. Tug-fastener	704,570	July 15	2263	490	100	488
Ormsby, John H., Bolton Landing, N. Y. Combined dust-pan and broom-holder	691,965	Jan. 28	3027	680	98	681
Orr, Alexander, Gloucester, Mass. Vote-counting frame	690,106	May 6	531	122	99	1284
Orr, Alexander, Gloversville, N. Y. Electrically-operated valve-gate	707,038	Aug. 26	3777	848	100	1941
Orr, Charles A. (See Fugh, Edwin A., assignor.)						
Orr, Charles S., et al. (See Heath, Clarence F., assignor.)						
Orr, Francis L., Thurman, Iowa. Pumping-engine	715,131	Dec. 2	931	200	101	2627
Orr, Harry C., and G. Mathews, Kansas City, Mo. Convertible chair for railway-coaches	692,332	Feb. 4	201	48	98	841
Orr, Harry C., and G. Mathews, Kansas City, Mo. Reversible chair for railway-coaches	692,333	Feb. 4	203	48, 49	98	841
Orr,orton G., et al. (See Sharpcock, William S., assignor.)						
Orr, William, assignor to New Jersey Wire Cloth Company, Trenton, N. J. Fireproof construction	693,429	Feb. 18	2294	503	98	1317
Orr, William H. (See Boyer, Oliver, assignor.)						
Orre, Axel. (See Roemisch and Orre.)						
Orswell, Edmund W. (See Dyer, Silas H., assignor.)						
Orteig, Jean, Tempe, Ariz. Ter. Vehicle-brake	705,431	July 22	4040	876	100	868
Ortenblad, Magnus, assignor of one-half to J. Dellwo, Groningen, Minn. Potato-bug gatherer	696,238	Mar. 25	3631	811	98	2516
Orth, Georg, assignor to Firm C. Zeiss, Jena, Germany. Automatic shutter-setting mechanism	704,735	July 15	2580	557	100	553
Orth, Henry, Jr., administrator. (See Hoepfner, Carl.)						
Orth, Karl, Donawitz, near Leoben, Austria-Hungary. Apparatus for casting pig-iron	714,818	Dec. 2	329	72	101	1000
Orthmann, Frederick, Brooklyn, N. Y. Fire-escape	699,558	May 6	805	190	99	1342
Ortmann, John H. W. and C. W. Herbst, Hamburg, Germany. Bottle-washing machine	705,430	July 22	4039	875	100	867
Ortner, John E., Newark, N. J. Chatelaine-catch	691,566	Jan. 21	2253	507	98	564
Orum, Hartvig. (See Dieter and Orum.)						
Orvis, Ellis L., et al. (See McGarvey, Edward, assignor.)						
Orvis, Orrel D., New York, N. Y. Water-tube boiler	702,670	June 17	2528	579	99	2666
Orvis, Orrel D., New York, N. Y. Steam-generator	704,571	July 15	2264	490	100	488
Orvis, Orrel D., New York, N. Y. Steam-boiler furnace	709,173	Sept. 16	2237	491	100	2470
Orvis, Orrel D., New York, N. Y. Combination draft-furnace	709,174	Sept. 16	2239	500	100	2471
Osborn, Mary, Baltimore, Md. Hat or dress fastener	699,559	May 6	806	190	99	1342
Osborn, Alden E., New York, N. Y. Motor-vehicle	712,001	Oct. 28	3117	682	101	696
Osborn, Alexander C., Clarksburg, W. Va. Sawmill-feed	706,330	Aug. 5	671	146	100	1251
Osborn, Budd W., et al. (See Lockhart, Horatio J., assignor.)						
Osborn, Edwin J., Auburn, N. Y. Electric-railway system	692,898	Feb. 11	1239	274	98	1079
Osborn, Chnton S., New York, N. Y. Educational device	711,879	Oct. 21	2586	631	101	627
Osborn, Francis C., Detroit, Mich. Computing-scale	698,048	Apr. 22	3003	681	99	705
Osborn, Francis C., Detroit, Mich. Platform-support for scales	710,003	Sept. 30	3900	879	100	2843
Osborn, Francis C., Detroit, Mich. Tube-making machine	710,507	Oct. 7	219	48	101	45
Osborn, Francis C., Detroit, Mich. Tube-making machine	712,954	Nov. 4	932	216	101	1088

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Osborn, Francis C., Detroit, Mich., assignor, by mesne assignments, to National Cash Register Company, Jersey City, N. J. Cash-register	715,850	Dec. 16	2304	511 512 513 514	101	2846
Osborn, Frank D., Birmingham, Ala., assignor of one-half to A. C. Macpherson, Brooklyn, N. Y. Street letter-box	705,957	July 29	5072	1105	100	1086
Osborn, Frederick W., Milwaukee, Wis. Automatic moving shadow-picture	693,430	Feb. 18	2297	503	98	1318
Osborn, Henry C., Cleveland, Ohio. Sealed receptacle	695,698	Mar. 18	2549	577	98	2279
Osborn, Henry C., assignor to Amstutz-Osborn Co., Cleveland, Ohio. Lathe-pan device	697,413	Apr. 8	1930	430	99	429
Osborn, Henry P., New York, N. Y. Gun-carriage	698,049	Apr. 22	3005	481 482	99	706
Osborn Manufacturing Company. (See Neilson, Henry, assignor.)						
Osborne, Eugene F., assignor to Osborne Steam Engineering Company, Chicago, Ill. Pipe-joint	696,106	Mar. 25	3325	730	98	2455
Osborne, James H. (See Biles, Henry, assignor.)						
Osborne, John W. (See Peak and Osborne.)						
Osborne, Joseph C., Lawndale, N. C. Artificial tooth-crown	702,111	June 10	1499	337	99	2434
Osborne, Latham M., Apollo, Pa. Gas-service safety-valve	705,125	July 22	3380	732	100	734
Osborne Steam Engineering Company. (See Osborne, Eugene F., assignor.)						
Osborne, Thomas B., New Haven, Conn., and R. W. Cornellison, Bloomfield, N. J. Extracting zein	691,906	Jan. 28	3028		98	681
Osborne, William S., and E. C. Bryant, St. Louis, Mo. Pneumatic grader	710,603	Oct. 7	393	83	101	79
Osborne, William S., and E. C. Bryant, St. Louis, Mo. System for pulverizing and grading material	710,604	Oct. 7	396	83	101	79
Osborne, William S., and E. C. Bryant, St. Louis, Mo. Dust collector or separator	710,605	Oct. 7	401	84	101	80
Osborn, Millard P., Camden, N. J., assignor to Warren Webster and Company. Air-relief valve	693,431	Feb. 18	2298	503	98	1318
Osborn, Andrew T., Malden, Mo. Lamp-chimney attachment	714,514	Nov. 25	3974	880	101	1764
Osborn, Charles F., Xenia, Ohio. Wood-callipers	715,851	Dec. 16	2319	514	101	2351
Osburn, Harry G., Hoboken, N. J. Electric motor for vehicles	711,520	Oct. 21	2161	472	101	479
Osburn, Mary A., Auburn, N. Y. Box	714,515	Nov. 25	3975	880	101	1764
Osburn, William H., Kokomo, Ind. Cow-tail holder	699,237	May 6	171	41	99	1209
Osel, Kistel, St. Paul, Minn. Flush car-door	708,914	Sept. 9	1700	392	100	2342
Osenbaugh, Charles C., and R. L. Gibson, Remington, Pa. Rail-joint	706,445	Aug. 5	907	196	100	1299
Osgood, Fred E., and F. F. Bradley, assignors of one-third to R. A. Kent, Chicago, Ill. Vehicle-tire	706,590	Aug. 12	1149	234	100	1364
Osgood, Frederick M., Manchester, N. H. Aerial toy	704,090	July 8	1337	291	100	279
Osgood, Frederick M., Manchester, N. H. Hose-supporter	713,673	Nov. 18	2342	532	101	1409
Osgood, Horatio B., Jr., assignor of one-half to D. M. Winans, Binghamton, N. Y. Scale	701,273	May 27	4177	959	99	2085
Osgood, James M., Boston, Mass. Passenger-car	705,432	July 22	4044	876	100	869
Osgood, John L., Buffalo, N. Y. Lathe	707,155	Aug. 19	2290	495	100	1602
Osgood, Leonard S., deceased; R. L. Osgood, Tooele, Utah, administratrix. Pipe-coupling	710,004	Sept. 30	3901	880	100	2343
Osgood, Ralph R., Upper Troy, N. Y. Dredge	708,657	Sept. 9	1180	269 270	100	2232
Osgood, Ralph R., Upper Troy, N. Y. Dredge	708,658	Sept. 9	1183	271	100	2232
Osgood, Ruma L., administratrix. (See Osgood, Leonard S.)						
Osius, George. (See Stroh, George, assignor.)						
Osmer, John E., Clinton, Iowa. Safety-valve	696,074	Mar. 25	3244	734	98	2436
Osmer, William H., St. Louis, Mo. Sweat-pad for horse-collars	691,729	Jan. 21	2542	575	98	569
Osteman, Carl G., and C. W. H. Blood, Boston, Mass.; said Osteman assignor to said Blood. Tapping and stud-setting device	710,116	Sept. 30	4111	928 929	100	2387
Osten, George, and W. F. Spalding, Denver, Colo. Horn for sound recording and reproducing apparatus	705,126	July 22	3382	732	100	734
Ostenberg, John A., Westminster Station, Vt., assignor to F. M. Gilbert, Walpole, N. H. Explosive-engine	713,792	Nov. 18	2566	572	101	1458
Ostenberg, John A., San Jose, Cal., assignor to F. M. Gilbert, Walpole, N. H. Explosive-engine	713,793	Nov. 18	2570	573	101	1459
Ostendorf, Otto L., Milwaukee, Wis. Chair	717,026	Dec. 30	4736	1027	101	2899
Ostendorf, William, Union Hill, N. J. Water-cooling tower	697,160	Apr. 8	1460	328	99	330
Oster, Herman W., assignor to Oster Manufacturing Company, Cleveland, Ohio. Thread-cutting machine	694,412	Mar. 1	149	33, 34	98	1744
Oster Manufacturing Company. (See Oster, Herman W., assignor.)						
Oster, Valentine, assignor of one-half to O. F. Keisker, St. Louis, Mo. Filter	702,466	June 17	2148	488 489 490	99	2587
Osterberg, Hans G., assignor to Wegman Piano Company, Auburn, N. Y. Piano tuning-pin	713,336	Nov. 11	1698	333	101	1262
Ostergren, Oscar P., New York, N. Y. Air compressor and cooler	694,290	Feb. 25	3967	883	98	1675
Ostermann, Henry G., Galva, Iowa. Tripod	713,794	Nov. 18	2571	573	101	1459
Ostertag, Charles W. (See Barnick, Frank L., assignor.)						
Osterud, Laurits H., Springvalley, Minn. Apparatus for equalizing, controlling, and storing power	705,700	July 29	4617	1001	100	993
Ostrander, Edward W., Coeymans, N. Y. Brick-driving cars	712,840	Nov. 4	708	164	101	1044
Ostrander, William H., assignor of one-third to W. T. Smith, Poughkeepsie, N. Y. Vehicle-tire	696,585	Apr. 1	342	81	99	75
Ostrom, Burton. (See Gary, Walter, assignor.)						
Ostrom, Freeland W., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Buttonhole sewing and cutting machine	692,200	Jan. 28	3465	783 784 785	98	769
Ostrom, Freeland W., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Buttonhole-sewing machine	692,210	Jan. 28	3471	785	98	770
Ostrowski, Alexander F. (See Skotnicki and Ostrowski.)						
Ostwald, Hermann. (See Knauber and Ostwald.)						
Oswald, Jacob A., Dayton, Ohio, assignor to National Cash Register Company, Jersey City, N. J. Cash-register	717,447	Dec. 30	5323	1200	101	3065
Oswald, Paul E., assignor to Reynolds Electric Company, Chicago, Ill. Automatic electromagnetic flasher	717,015	Dec. 30	4715	1023	101	2395
Otis, Carl, Lindstrom, Minn. Concrete-mixing machine	702,881	June 17	2332	674	99	2748
Otis, Charles R., and A. M. Coyle, Yonkers, N. Y.; said Coyle assignor to said Otis. Control device for driving mechanism	713,674	Nov. 18	2345	523	101	1410



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Otis Elevator Company. (See Baldwin, Cyrus W., assignor.)						
Otis Elevator Company. (See Baldwin and Sundh, assignors.)						
Otis Elevator Company. (See Carichoff, Eugene R., assignor.)						
Otis Elevator Company. (See Fraser, Ethelbert M., assignor.)						
Otis Elevator Company. (See Gill, Edwin R., assignor.)						
Otis Elevator Company. (See Hilder, John D., assignor.)						
Otis Elevator Company. (See Maccoun, Andrew E., assignor.)						
Otis Elevator Company. (See Reynolds, George H., assignor.)						
Otis Elevator Company. (See Rowntree, Harold, assignor.)						
Otis Elevator Company. (See Smith, Rudolph C., assignor.)						
Otis Elevator Company. (See Sundh, August, assignor.)						
Otis Elevator Company. (See Witte, Herman F., assignor.)						
Otis, Spencer, Chicago, Ill. Tie-bar for car-trucks	694,492	Mar. 4	285	65	98	1772
Otis, Spencer, Chicago, Ill. Fluid-pressure engine	718,675	Nov. 18	2349	523	101	1410
Ott, Charles A., Pawtucket, R. I. Safety-stop for automobiles	710,508	Oct. 7	321	48	101	45
Ott, Mergenthaler Company. (See Cadell, John F., assignor.)						
Ott, Mergenthaler Company. (See Mergenthaler and Hoofnagle, assignors.)						
Ott, Willard J., assignor to Veneer Barrel Machine Co., Chicago, Ill. Lining-hoop-nailing horse	702,467	June 17	2150	490	99	2588
Ott, Willard J., assignor to Veneer Barrel Machine Co., Chicago, Ill. Double-stave-veneer-barrel machine	703,079	June 24	3323	763	99	2845
Ott, Willard J., assignor to Veneer Barrel Machine Company, Chicago, Ill. Veneer-package separator	706,272	Dec. 16	3145	688	101	2524
Ott, William D., and F. L. Prebly, Riverside, Iowa. Gate	708,915	Sept. 9	1702	392	100	2943
Otte, Frederick G., Pittsburg, Pa. Folding grate	715,132	Dec. 2	933	201	101	2627
Ottenheimer, Moses, Baltimore, Md. Automatic fan	701,078	May 27	3816	874	99	2013
Ottens, Henry H. (See Porch, James G., assignor.)						
Ottensmeyer, David. (See Kaufmann, Otto, assignor.)						
Ottermann, Arthur R., assignor to Ottermann Manufacturing Company, Bridgeville, Pa. Snap-hook	716,748	Dec. 23	4680	894	101	3736
Ottermann Manufacturing Company. (See Ottermann, Arthur R., assignor.)						
Ottermann, George, Vienna, Austria-Hungary. Making cyanids	701,604	June 3	586	128	99	2230
Otto, Carl, Berlin, Germany. Damper-action for pianos	713,337	Nov. 11	1699	383	101	1262
Otto, Christian, Hastings, Pa. Grain-separator	707,251	Aug. 19	2386	534	100	1641
Otto, Gustav, and F. Schaub, Jersey City, N. J. Music-box	700,550	May 20	2800	642	99	1785
Otto, Marius, Neuilly, France. Rotary apparatus for the production of diffused electric discharges	707,797	Aug. 26	3510	792	100	1888
Otto, Theodore W., Stamford, Conn. Keyboard-machine	707,714	Aug. 26	3291	736	100	1845
Otto, William H. (See Lemon and Otto.)						
Ouellette, Clovis, Lowell, Mass. Scraper for floors, &c.	698,849	Apr. 29	4700	1036	99	1065
Ouellette, Ovide, Lowell, Mass. Window-screen	707,449	Aug. 19	2754	624	100	1717
Ough, Joseph M., San Francisco, Cal. Variable-speed gear	716,920	Dec. 30	4541	985	101	2858
Ough, Joseph M., San Francisco, Cal. Variable-speed gear	716,930	Dec. 30	4542	985	101	2858
Ough, Joseph M., San Francisco, Cal., and M. Waddell, New York, N. Y. Variable-speed gear	716,928	Dec. 30	4540	985	101	2858
Ousley, Albert H., Pawtucket, assignor to U. Racine, Providence, R. I. Automatic extension shade-bracket	702,112	June 10	1500	337	99	2434
Outerson, Andrew, Windsor Locks, Conn. Paper-making	704,572	July 15	2266	491	100	480
Oval Wood Dish Company. (See Tinkham, Lewis W., assignor.)						
Ovens, Wellington, Silverton, Colo. Attachment for spirit-levels	711,880	Oct. 21	2887	631	101	627
Overhiser, C. E., et al. (See Stickle, Jacob, assignor.)						
Overland Telegraph Company. (See Fowden, Robert A., assignor.)						
Overly, Robert H., Summit Station, Ohio. Grain-carrier	698,546	Apr. 29	4015	887	99	913
Overman Automobile Company. (See Bullard, James H., assignor.)						
Overpeck, Lucien C., Hamilton, assignor to National Newspaper Distributing Company, Cincinnati, Ohio. Vending apparatus for newspapers	704,466	July 8	2052	445	100	432
Overpeck, Ora E. (See Kelley, Joseph P., assignor.)						
Overshiner, Elsworth B., assignor to Swedish-American Telephone Company, Chicago, Ill. Electric annunciator	692,471	Feb. 4	438	102	98	888
Overshiner, James M., Elwood, Ind. Telephone-switchboard	702,028	June 10	1338	305	99	2490
Overson, Benjamin F., Ormen, Tex. Pessary	705,285	July 22	3732	811	100	804
Oviatt, Solomon E., Lansing, Mich. Vehicle-wheel	699,005	Apr. 29	4961	1098	99	1119
Owen, Charles N., Mechanicsburg, Pa. Stone-handling apparatus	706,197	Aug. 5	373	81	100	1194
Owen, Charles W., et al. (See Snyder, Robert F., assignor.)						
Owen, David T., Cleveland, Ohio. Combined couch and folding bed	707,628	Aug. 26	3114	701	100	1890
Owen, Edward T., Vanwert, Iowa. Sectional coping for graves	691,169	Jan. 14	1496	338	98	327
Owen, George A., Springfield, Mass. Mail-service apparatus	698,547	Apr. 29	4017	887	99	913
Owen, George A., Springfield, Mass. Track-suspension apparatus	698,548	Apr. 29	4020	888	99	914
Owen, George A., Springfield, Mass. Mail-service apparatus	699,407	May 6	533	123	99	1284
Owen, George A., Springfield, Mass. Mail-service apparatus	699,408	May 6	533	123	99	1285
Owen, Henry A., Whitinsville, Mass. Warp stop-motion for looms	703,036	July 1	538	121	100	106
Owen, Henry A., assignor to Whitin Machine Works, Incorporated, Whitinsville, Mass. Carding-machine	708,250	Sept. 2	468	107	100	2977
Owen, Oscar L., Whitinsville, Mass. Beam-lock for looms	703,667	July 1	540	122	100	106
Owen, Oscar L., assignor to Whitin Machine Works, Incorporated, Whitinsville, Mass. Traverse-motion for spinning-machines	699,400	May 6	540	125	99	1286
Owen, Oscar L., assignor to Whitin Machine Works, Incorporated, Whitinsville, Mass. Loom	708,251	Sept. 2	469	107	100	2977
Owen, Richard W., Chicago, Ill. Golf-bag	693,432	Feb. 18	2391	503	98	1319
Owen, Silas R., St. Joseph, Mo. Miter-sawing machine	692,699	Feb. 4	859	199	98	975
Owen, Wilber A., et al. (See Snyder, Robert F., assignor.)						
Owens, Albert J., Canon, Ga. Planter	702,327	June 10	1867	425	99	2598
Owens, Albert M., Soldier, Kans. Display-cabinet	691,800	Jan. 28	2735	617	98	621
Owens, John L., Minneapolis, Minn. Smut-machine	699,892	May 13	1497	343	99	1499

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Owens, John L., Minneapolis, Minn. Smut-machine..... (See Williams, William H., assignor.)	699,893	May 13	1500	344	99	1499
Owens, Marion, Basil, Kans. Dust-proof journal-box.....	692,334	Feb. 4	206	50	98	841
Owens, Robert L., Ozona, Tex. Girth.....	696,259	Mar. 25	3632	812	98	2516
Owens, Will E., Billings, Mont. Pole-climber.....	693,433	Feb. 18	2302	504	98	1320
Owens, William P., et al. (See Cotton, Walter H., assignor.)						
Oxley, Eustace, Brooklyn, N. Y., assignor to General Electric Company. Controlling arc-lamps.....	697,007	Apr. 8	1196	268	99	273
Oxley, Eustace, Brooklyn, N. Y., assignor to General Electric Company. Controlling electric lamps.....	697,161	Apr. 8	1461	323	99	330
Oxley, Eustace, Lynn, Mass., assignor to General Electric Company. Apparatus for multirate metering.....	710,070	Sept. 30	4016	907	100	2868
Oxley, Eustace, Lynn, Mass., assignor to General Electric Company. Multirate metering.....	717,262	Dec. 30	5198	1128 1129	101	2999
Oxlyn-Werke Actien-Gesellschaft. (See Minder, Johann, assignor.)						
Oxler, Plow Company. (See Oxler, William R., assignor.)						
Oxler, William R., assignor to Oxler Plow Company, Akron, Ohio. Plow.....	690,761	Jan. 7	764	170	98	161
Oyster Bay Engine Company. (See Titus, Burt, and Smith, assignors.)						
Ozias, Orange O., assignor to Computing Scale Company, Dayton, Ohio. Weighing-scale.....	697,162	Apr. 8	1463	329	99	330
Ozias, Orange O., assignor to Computing Scale Company, Dayton, Ohio. Spring-balance.....	708,392	Sept. 2	704	158	100	2124
Ozias, Orange O., Dayton, Ohio, assignor to Computing Scale Company. Weighing and price spring-balance scale.....	708,393	Sept. 2	707	159	100	2125
Ozon Maatschappij Systeem A. Vosmaer. (See Vosmaer and Lebrecht, assignors.)						
P. & F. Corbin. (See Bishop, Charles B., assignor.)						
P. & F. Corbin. (See Gilbert, Wilbur F., assignor.)						
P. & F. Corbin. (See Glover, Charles, assignor.)						
P. & F. Corbin. (See Glover and Haskins, assignors.)						
P. & F. Corbin. (See Henry, William K., assignor.)						
P. & F. Corbin. (See Pickop, George B., assignor.)						
P. & F. Corbin. (See Pickop and Corbin, assignors.)						
P. & F. Corbin. (See Towers, James H., assignor.)						
P. H. & F. M. Roots Company. (See Enyart, Ralph C., assignor.)						
P. H. & F. M. Roots Company. (See Hicks, George C., Jr., assignor.)						
P. H. & F. M. Roots Company. (See Wainwright, William W., assignor.)						
P. P. Mast & Company. (See Crain, Evans, and Dodson, assignors.)						
Paal, Carl, Erlangen, assignor to Kalle and Company, Biebrich, Germany. Manufacture of colloidal gold.....	701,605	June 3	587	.....	99	2231
Paal, Carl, Erlangen, assignor to Kalle and Company, Biebrich, Germany. Manufacture of colloidal silver.....	701,606	June 3	588	.....	99	2231
Pabst, George H., Philadelphia, Pa. Device for drawing off liquids from the bottoms of casks.....	715,503	Dec. 9	1618	350	101	2184
Paca, William S., assignor of one-half to P. H. Adams, Erie, Pa. Telephone-exchange signal system.....	694,662	Mar. 4	623	135	98	1841
Paca, William S., assignor of three-fourths to P. H. Adams and J. Z. Miller, Erie, Pa. Telephone-exchange switchboard system.....	693,889	Feb. 25	3183	703	98	1517
Paca, William S., assignor of three-fourths to P. H. Adams and J. Z. Miller, Erie, Pa. Telephone-exchange system.....	693,890	Feb. 25	3186	703	98	1517
Pace, Joseph T. (See Dorries, Herman A., assignor.)						
Pacetty, Adolphus N., St. Augustine, Fla. Fishing-boat.....	691,407	Jan. 21	1987	415	98	449
Pacific Acetylene Gas Company. (See Kincaid, Fred L., assignor.)						
Pacific Coast Manufacturing Company. (See Smith, Thomas S., assignor.)						
Pack, Jacob, McKeesport, Pa. Wrench.....	713,489	Nov. 11	1965	444	101	1317
Pack, William E., Kamas, Utah. Extension-bedstead.....	697,102	Apr. 8	1367	303	99	310
Packard, Fred L., et al. (See Locke, Albert J., assignor.)						
Packard, Granville P., Binghamton, N. Y. Hat-pin retainer.....	700,804	May 27	3316	761	99	1910
Packard, James W. (See Hatcher and Packard.)						
Packard, James W., and W. A. Hatcher, Warren, Ohio. Vehicle-brake.....	694,184	Feb. 25	6766	832	98	1633
Packard, James W., and W. A. Hatcher, assignors to Ohio Automobile Company, Warren, Ohio. Controlling mechanism for motor-vehicles.....	712,583	Nov. 4	235	58	101	946
Packard, Ralph G., Morristown, N. J. Submarine rock drilling and blasting apparatus.....	712,602	Oct. 28	3119	682 683	101	697
Packer, Alonzo C., assignor of two-thirds to J. A. Young and W. R. Patterson, Pittsburg, Pa. Bottle-stopper.....	707,348	Aug. 19	2572	581	100	1679
Packer, Charles L., Wilton Junction, Iowa. Fodder-loader.....	709,506	Sept. 23	2947	657 658	100	2633
Packer, George W., assignor to Deering Harvester Company, Chicago, Ill. Machine for finishing tongues.....	702,671	June 17	2531	579 580 581	99	2667
Packer, George W., assignor to Deering Harvester Company, Chicago, Ill. Staple forming and driving machine.....	705,433	July 22	4017	877	100	869
Packer, George W., assignor to Deering Harvester Company, Chicago, Ill. Slat-forming machine.....	705,434	July 22	4049	877 878	100	870
Packers' Sanitary Can Company. (See Thompson, Walter, assignor.)						
Packham, Frank R., and G. P. Oates, assignors to Superior Drill Company, Springfield, Ohio. Disk barrow.....	691,322	Jan. 14	1797	408	98	389
Packham, Frank R., and G. P. Oates, assignors to Superior Drill Company, Springfield, Ohio. Disk barrow.....	693,891	Feb. 25	3188	704	98	1518
Packness, Martin B. S. B. (See Anderson and Packness.)						
Paddock, Bruce, Lansing, Mich. Hay-bagging machine.....	693,147	Feb. 11	1744	382	98	1182
Padgett, Charles E., A. M. Cowham, and W. H. Allen, Chicago, Ill.; said Cowham and Allen assignors to said Padgett. Smoke-consumer.....	713,238	Nov. 11	1466	322	101	1214
Padgett, Henry S., Waipahu, Hawaii. Cane-loader.....	703,498	June 24	3769	854	99	2923
Padgett, William H., Jr., New Albany, Ind. Separable or sectional printer's chase.....	691,997	Jan. 28	3030	690	98	681
Padon, John S., assignor of one-half to J. L. Van Wormer, West Plains, Mo. Sewing-awl.....	695,885	Mar. 18	2884	654	98	2350
Paesel, Charles. (See Mau and Paesel.)						
Paesbach, Andrew. (See Ferguson, William, assignor.)						
Page, Almon D., Harrison, and G. Wood, assignors to Keromoter Development Company, Newark, N. J. Oil atomizer and mixer for vapor-engines.....	696,187	Mar. 25	3496	783	98	2488
Page, Charles D., et al. (See Hagan, Ira B., assignor.)						
Page, Charles E., Linwood, New Zealand. Step-ladder and shelf combined.....	693,892	Feb. 25	3189	704	98	1518
Page, Charles G. (See Trenholm, Harry A., assignor.)						
Page Company. (See Page, William H., assignor.)						
Page, Francis T., Peshurst, New Zealand. Wire-grip.....	696,260	Mar. 25	3634	812	98	2517



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Page, Frederick H. (See Holmes, Charles E., assignor.)						
Page, John W. (See Snedeker and Page.)						
Page, Joseph M. (See Hawkins, Augustus L., assignor.)						
Page, Ralph H., Detroit, Mich. Making organic peroxides.	710,005	Sept. 30	3902	881	100	2843
Page, Ralph H., Detroit, Mich. Organic peroxid.	717,016	Dec. 30	4718	101	2835	
Page, Thomas C., Chicopee Falls, Mass. Surface-checking device.	692,928	Jan. 28	3135	706	98	700
Page, William H., Norwich, assignor to Page Company, Plainfield, Conn. Steam-generator or hot-water heater.	706,846	Aug. 12	1644	308	100	1471
Paget, Leonard, assignor, by mesne assignments, to C. Coster, New York, N. Y. Storage battery.	715,412	Dec. 9	1441	310	101	2150
Paget, Leonard, assignor to C. Coster, New York, N. Y. Storage battery.	715,413	Dec. 9	1442	311	101	2150
Paget, William S., Darlington, Fla. Road grading and scraping machine.	714,325	Nov. 25	3640	802	101	1699
Pagett, George W., Oxford, Ind. Jar-holding device and cap-turner.	710,696	Oct. 7	404	84	101	80
Pahls, Frank J., Chicago, Ill. Sawing-machine.	701,380	June 3	174	37	99	2143
Paige, Charles F., et al. (See Fox, John C., assignor.)						
Paige, William R., and H. A. Hoods, Chicago, Ill. Lock.	710,071	Sept. 30	4020	107	100	2808
Pain, Robert W., assignor to Aeolian Co., New York, N. Y. Melody-stop for mechanically-played musical instruments.	713,676	Nov. 18	2356	524	101	1412
Pain, Willard S., Meriden, Conn., assignor to Aeolian Co., New York, N. Y. Machine for cutting and printing stencil-sheets.	690,991	Jan. 14	1182	1267	98	202
Paine, Asa, Minneapolis, Minn. Water-gate for boilers.	715,133	Dec. 2	934	201	101	2027
Paine, Emory M., Grandledge, Mich. Stand for liquid-receptacles.	715,287	Dec. 9	1209	259	101	2102
Paine, George H., Germantown, Pa., assignor to B. T. B. Hyde, New York, N. Y. Capsule.	700,805	May 27	3318	762	99	1910
Paine, George H., Germantown, Pa., assignor to B. T. B. Hyde, New York, N. Y. Manufacture of capsules.	700,806	May 27	3320	762	99	1910
Paine, Ridley C., Bethel, N. Y. Fountain-pen.	705,958	July 29	5704	1105	100	1086
Paine, William A., Donlan, V. Va. Rail-joint.	702,468	June 17	2151	490	99	2588
Paine, William H., Providence, R. I. Controlling device.	691,968	Jan. 28	3031	681	98	681
Painter, Arthur, San Francisco, assignor to H. M. Barstow, Napa, Cal. Wire-rope tramway.	715,414	Dec. 9	1443	311	101	2150
Painter, Charles G. (See Quillfeldt, Charles de, assignor.)						
Painter, George B., Schenectady, N. Y., assignor to General Electric Company. Electric switch.	697,163	Apr. 8	1465	329	99	331
Painter, Jonathan E., Minneapolis, Minn. Kindergarten-loom.	697,745	Apr. 15	2336	665	99	567
Painter, Orrin C., assignor of one-half to L. S. and J. S. Greensfelder and B. B. Friedewald, Baltimore, Md. Label for bottles, &c.	703,815	July 1	817	180	100	103
Paiste, Henry T., Philadelphia, Pa. Insulating-lining for incandescent-lamp sockets.	708,916	Sept. 9	1704	393	100	2343
Paiste, Henry T., Philadelphia, Pa. Incandescent-lamp socket.	692,700	Feb. 4	861	197	98	976
Paiste, Henry T., Philadelphia, Pa., assignor to W. P. Pinckard, Birmingham, Ala. Electric-lamp socket.	696,261	Mar. 25	3635	812	98	2517
Palatable Water Still Company. (See Murphy, Edward E., assignor.)						
Palfrey, Frederick, Macon, Mo. Boiler tube expander.	709,276	Oct. 16	2444	553	100	2515
Pallansch, John P., Fredonia, Wis. Kitchen-cabinet.	699,702	May 13	1104	259	99	1415
Pallo, Frederic A., New York, N. Y. Rotary engine.	704,913	July 15	2197	625	100	628
Palmaer, Wilhelm. (See Wiborgh and Palmaer.)						
Palmblad, Gustave, McKeesport, Pa. Curtain and shade holder.	692,472	Feb. 4	441	103	98	888
Palme, Karl, Philadelphia, Pa. Circular-knitting machine.	698,549	Apr. 29	4022	889	99	914
Palme, Karl, Philadelphia, Pa. Stocking.	698,550	Apr. 29	4025	889	99	915
Palmer, Alden C., West Union, Iowa. Combined harrow and seed-planter.	710,883	Oct. 7	916	199	101	186
Palmer, Arthur P., Waverly, N. Y., and H. L. Phelps, Athens, Pa., assignors of one-third to D. Howard, Cortland, N. Y. Street-sweeper.	701,381	June 3	175	38	99	2144
Palmer, Cassius C., assignor to Railway Electric Refrigerating Company, New York, N. Y. Auxiliary power device for cars.	716,091	Dec. 16	2792	615	101	2453
Palmer, Charles A., Grinnell, Iowa. Casting-flask.	699,006	Apr. 29	4962	1069	99	1119
Palmer, Charles H., and J. W. Denmead, Akron, Ohio. Machine for making paper-box blanks.	700,807	May 27	3323	763	99	1911
Palmer, Charles H., and J. W. Denmead, Akron, Ohio, assignors to Diamond Match Company, New York, N. Y. Paper-blank feeding and scoring machine.	706,008	Aug. 5	179	37	100	1153
Palmer, Charles H., and J. W. Denmead, Akron, Ohio, assignors to Diamond Match Company, Chicago, Ill. Box-sanding machine.	709,093	Sept. 16	1960	1448	100	2411
Palmer, Charles H., and C. A. Carlson, Barborton, Ohio, assignors to Diamond Match Company, Chicago, Ill. Heater-section or radiator.	710,994	Oct. 14	1124	247	101	247
Palmer, Chester M., Fond du Lac, Wis. Animal-shearing machine.	711,708	Oct. 21	2321	554	101	2555
Palmer, Frank A., and F. Sharpe, Erie, Pa. Pipe-wrench.	708,252	Sept. 9	171	107	100	2077
Palmer, Frederick C., Brooklyn, N. Y. Bolt-anchor.	696,586	Apr. 1	343	82	99	76
Palmer, Frederick C., Brooklyn, N. Y. Bolt-anchor.	696,587	Apr. 1	345	82	99	76
Palmer, George D., and H. Hartley, Birmingham, England. Coin-controlled mechanical toy.	703,090	June 24	3325	764	99	2845
Palmer, George E., and J. N. Lake, Elmira, N. Y. Egg-crate.	705,286	July 22	3733	811	100	804
Palmer, George L., assignor of two-thirds to T. M. Loftus and A. W. Lang, Providence, R. I. Safety gas-burner.	714,023	Nov. 18	3016	671	101	1552
Palmer, Harry B. (See Simpson and Palmer.)						
Palmer, Henry F., Lynn, Mass. Revolving show stand or rack.	697,008	Apr. 8	1197	268	99	273
Palmer, Henry U., New York, N. Y. Machine for jointing staves.	698,893	Feb. 25	3190	1704	98	1518
Palmer, Herbert R., assignor, by mesne assignments, to Electrograph Company of America, Cleveland, Ohio. Distantly-reproducing pictures.	713,140	Nov. 11	1275	280	101	1176
Palmer, Herbert R., assignor of one-half to O. Stoppel, Cleveland, Ohio. Protector for rubber tires.	717,263	Dec. 30	5200	1129	101	3000
Palmer, Herbert R., assignor of one-half to O. Stoppel, Cleveland, Ohio. Pneumatic tire.	717,264	Dec. 30	5201	1129	101	3000
Palmer, Isaac E., Middletown, Conn. Hammock-support.	691,070	Jan. 14	1227	390	98	202
Palmer, Isaac E., Middletown, Conn. Spread-clip for hammocks.	693,529	Feb. 18	2348	561	98	1370
Palmer, Isaac E., Middletown, Conn. Hammock.	693,561	Feb. 18	2349	561	98	1370
Palmer, Isaac E., Middletown, Conn. Pillow attachment for hammocks.	694,070	Feb. 25	3549	782	98	1591
Palmer, Isaac E., Middletown, Conn. Hammock-spreader.	694,071	Feb. 25	3550	783	98	1591

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Palmer, Isaac E., Middletown, Conn. Abdominal support	697,164	Apr. 8	1468	329	99	331
Palmer, Isaac E., Middletown, Conn. Hammock	699,410	May 6	542	125	99	1286
Palmer, Isaac E., Middletown, Conn. Hammock	700,978	Oct. 27	3681	884	99	1973
Palmer, Isaac E., Middletown, Conn. Hammock	712,202	Oct. 28	3483	764	101	767
Palmer, John. (See Martin and Palmer.)						
Palmer, Lafayette, Harrisburg, Pa. Railway-switch.	702,113	June 10	1501	338	99	2434
Palmer, Lowell M. (See Hines, Warren H., assignor.)						
Palmer, Merritt W., Hamilton, Mich. Beet-puller	699,561	May 6	808	190	99	1342
Palmer, Merritt W., Hamilton, Mich. Beet-topper	709,730	Sept. 23	3313	744	100	2709
Palmer, Merritt W., Hamilton, assignor of one-fourth to R. N. De Merell, Holland, Mich. Beet-harvester	696,262	Mar. 25	3636	812	98	2517
Palmer, Merritt W., Hamilton, assignor of one-fourth to R. N. De Merell, Holland, Mich. Beet-harvester	699,560	May 6	807	190	99	1342
Palmer, Noyes F., Brooklyn, N. Y. Machine for molding artificial stone	694,985	Mar. 11	1252	273	98	1905
Palmer, Noyes F., Brooklyn, N. Y. Machine for molding artificial stone	695,483	Mar. 18	2138	183	98	2196
Palmer, Noyes F., Brooklyn, N. Y. Machine for molding artificial stone	700,551	May 20	2810	643	99	1786
Palmer, Noyes F., Brooklyn, N. Y. Machine for molding artificial stone	703,081	June 21	3327	765	99	2846
Palmer, Noyes F., Brooklyn, N. Y. Machine for molding artificial stone	703,452	July 1	149	34	100	32
Palmer, Noyes F., Brooklyn, N. Y. Machine for molding artificial stone	710,995	Oct. 14	1125	248	101	247
Palmer, Noyes F., Brooklyn, N. Y. Subway	711,257	Oct. 14	1639	357	101	359
Palmer, Samuel E., New York, N. Y. Necktie-fastener	698,219	Apr. 22	3447	756	99	781
Palmer, Therou R., Erie, Pa. Billiard-table cushion	692,899	Feb. 11	1241	275	98	1080
Palmer, Wesley S., Canton, Ohio. Kettle or dish scraper or cleaner	691,801	Jan. 28	2736	617	98	621
Palmer, William, Jr., Rincon, N. Mex. Ter., assignor of one-half to C. H. Dascomb, El Paso, Tex. Selective call for telegraph or telephone lines	710,335	Sept. 30	4515	1018	100	2974
Palmer, William H., Middleton, England. Two-speed driving-gear for bicycles	698,132	Apr. 22	3279	718	99	743
Palmetto Fibre Company. (See Young, McIntock, assignor.)						
Palmergren, David, Brooklyn, assignor to L. Lewisheim, New York, N. Y. Gage for measuring and cutting cigars	711,673	Oct. 21	2460	540	101	542
Palmquist, Eric W., East St. Louis, Ill. Assignor to Leighton & Howard Steel Company, St. Louis, Mo. Bolster	702,818	June 17	2810	646	99	2725
Palmros, Alexander, assignor to Wagner-Palmros Manufacturing Company, Fairmont, W. Va. Link for chains	697,165	Apr. 8	1469	329	99	331
Palmros, Alexander, assignor to Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine for trucks	702,817	June 17	2809	646	99	2725
Palmros, Alexander, assignor to Jeffrey Manufacturing Company, Columbus, Ohio. Electric-trolley-wire hanger	715,415	Dec. 9	1446	311	101	2151
Palumbo, Frank. (See Consentino and Palumbo.)						
Pan American Light Company. (See Mende, Arthur, assignor.)						
Pan-American Motor Company. (See Power, William M., assignor.)						
Pancoast, Albert, Detroit, Mich., assignor to American Car and Foundry Company, St. Louis, Mo. Car-bolster	715,416	Dec. 9	1449	312	101	2151
Pancoast, Albert, Pittsburg, Pa., assignor to American Car & Foundry Company, St. Louis, Mo. Bolster	715,417	Dec. 9	1450	312	101	2152
Pancoast, George E., Brooklyn, N. Y., assignor to American Lithographic Company. Mechanism for severing sheets from webs of paper or similar material	716,576	Dec. 23	3773	821	101	2670
Pancoast, Richard M., Camden, N. J., assignor to C. Balcom, Denver, Colo. Aerated car	712,327	Oct. 28	3701	800	101	813
Pangborn, Charles, Kalamazoo, Mich. Composition of matter for welding steel	700,979	May 27	3632	815	99	1972
Pangrac, Wesley, Niles, Kans. Wedge-cutter	695,336	Mar. 11	1895	422	98	2126
Panikoff, William L., New Haven, Conn. Battery	706,340	Aug. 5	673	146	100	1251
Panitschek, Heinrich, and C. Herold, Brünn, Austria-Hungary. Appliance for beating up the wett in looms	696,263	Mar. 25	3639	814	98	2518
Panitschek, Heinrich, and J. Ahorn, Bärn, Austria-Hungary. Loom for the manufacture of knotted carpets	716,092	Dec. 16	2794	616	101	2453
Panitschek, Heinrich, and J. Ahorn, Bärn, Austria-Hungary. Manufacturing knotted carpets	716,093	Dec. 16	2800	617	101	2454
Panitschek, Heinrich, and J. Ahorn, Sarajevo, Austria-Hungary. Persian carpet and weaving machine	717,017	Dec. 30	4719	1023	101	2895
Pannell, Charles F., St. Louis, assignor to F. Pannell, Columbia, Mo. Railway-crossing.	698,410	Apr. 22	3765	831	99	846
Pannell, Frederick. (See Pannell, Charles F., assignor.)						
Pannkoek, Wilhelm, Berlin, Germany. Device for cutting glass	715,288	Dec. 9	1212	260	101	2103
Panoulis, Panayiotis, New York, N. Y. Candy-coating device	707,864	Aug. 26	3636	820	100	1911
Panse, Friedrich, assignor to F. Krupp, Essen, Germany. Rotary cutter	697,875	Apr. 15	2773	615	99	622
Paoli, John, Hoboken, N. J., assignor to Keuffel & Esser Company. Binnacle-compass	701,927	June 10	1146	263	99	2563
Papenfus, Herman, Toledo, Ohio. Lawn-sprinkler	690,762	Jan. 7	766	170	98	162
Papst, Hilman M., San Francisco, Cal. Apparatus for manufacturing gas.	710,336	Sept. 30	4520	1018	100	2975
Paquette, Herman A., assignor to N. Paquette, Blackstone, Va. Hinge	713,338	Nov. 11	1700	384	101	1262
Paquette, John J., New Orleans, La. Oil-tank	702,584	June 17	2874	541	99	2634
Paquette, Napoleon. (See Paquette, Herman A., assignor.)						
Paradis, Samuel, Kansas City, Mo. Magazine-firearm	699,703	May 13	1105	259	99	1416
Parcells, Charles S., Willard, N. Y. Reversible driving mechanism	702,243	June 10	1726	390	99	2480
Parcells, Paul, Chicago, Ill. Machine for cutting beveled edges on plate or sheet metal	703,213	June 24	3579	822	99	2895
Pardee, William F., and E. Bloomer, Syracuse, N. Y. Garment-support	693,618	Feb. 18	2661	588	98	1393
Pardee, Henry A. (See Shimer and Pardee.)						
Pardee, Henry A., and E. S. Shimer, assignors to S. J. Shimer and Sons, Milton, Pa. Cutter-head bit	700,552	May 20	2811	644	99	1786
Pardon, Hermann, Crefeld, Germany. Machine for drawing in warp-threads	700,075	May 13	1817	421	99	1562
Pardridge, Willard E. (See Sloane, John B., assignor.)						
Pardridge, Willard E., Detroit, Mich. Steam-condenser	691,170	Jan. 14	1497	338	98	327
Parenteau, Maxime O., Springfield, Mass. Car-route indicator	702,819	June 17	2811	647	99	2726
Parfitt, Frank W., Louisville, Ky. Automatic oil and air regulator	694,886	Mar. 4	1058	234	98	1936
Paridon, Michael, Barborton, Ohio. Machine for boxing matches	703,068	July 1	541	122	100	106
Paris, James A., E. B. Steelman, and J. L. Haverfield, Cedar, Tenn., assignors of one-half to Mayfield Manufacturing Company, Mayfield, Ky. Pea-thresher	710,366	Sept. 30	4570	1031	100	2985
Park, Arthur B., New York, N. Y. Holder for demijohns	711,339	Oct. 14	1824	396	101	395



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Park, Henry A., Stackhouse, N. C. Band-saw shingle-machine	717,116	Dec. 30	4895	1060	101	2933
Park, James A., Whitehouse, N. J. Hat-box	715,134	Dec. 2	936	201	101	2627
Park, James E., and J. L. Pickens, Mooresville, Tenn. Combined plow and planter	706,446	Aug. 5	907	196	100	1299
Park, James J., St. Louis, Mo. Clamp for drapery-frames	699,007	Apr. 29	4964	1099	99	1120
Park, John W., Kendallville, Ind. Check-valve for pump-cylinders	701,907	June 3	588	129	99	2231
Park, Ney P., assignor of two-fifths to J. McMillan, Montgomery, Ala. Rail-joint.	711,544	Oct. 21	2392	526	101	527
Park, William R., Taunton, assignor to Hancock Inspirator Company, Boston, Mass. Revolution-indicator	699,228	May 6	172	42	99	1210
Parke, Albert J., Boston, Mass. Inclosure for telephones	711,588	Oct. 21	2291	499	101	506
Parke, Albert J., Boston, Mass. Inclosure for telephones	711,589	Oct. 21	2292	499	101	507
Parke, Davis & Company. (See Houghton, Elijah M., assignor.)						
Parke, Davis & Company. (See MacDonald, James M., assignor.)						
Parker, Alfred E., et al. (See Collier, Louis, assignor.)						
Parker, Arthur, Chorley, England. Electric furnace	706,099	Aug. 5	181	37, 38	100	1154
Parker, Caroline S., Chicago, Ill., assignor of one-fourth to M. E. Erwin, Dubuque, Iowa. Filter	690,457	Jan. 7	134	29	98	31
Parker, Charles E., Orange, N. J. Catgut ligature and suture and preparing same	701,501	June 3	397	90	99	2190
Parker, Clarence L., Los Angeles, Cal. Device for tightening or loosening hoops of tanks, vats, &c.	700,704	May 20	3101	705	99	1849
Parker, Frank R., Battlereck, Mich. Fence-post	716,749	Dec. 23	4081	894	101	2736
Parker, Frank W., assignor of one-half to H. J. Bacon, Providence, R. I. Lathe attachment for relieving the teeth of cutters	690,763	Jan. 7	767	171	98	162
Parker, Frederic G. W. (See Le Maitre, Parker, and Rhodes.)						
Parker, George H., New York, assignor to G. E. Walter, Brooklyn, N. Y. Swinging-window hinge	711,785	Oct. 21	2676	590	101	588
Parker, Harry L., El Paso, Tex. Metal-foil fabric	706,100	Aug. 5	182	38	100	1154
Parker, Henry. (See Dyre, William E., assignor.)						
Parker, Herschel C. (See Tufts, Frank L., assignor.)						
Parker, Herschel C., trustee. (See Reynolds, Frank A., assignor.)						
Parker, Howard, Bellows Falls, Vt. Indented and perforated material	691,804	Jan. 28	2739	618	98	621
Parker, Howard, Bellows Falls, Vt. Paper-making machine	693,354	Feb. 11	2146	471	98	1267
Parker, Howard, Bellows Falls, Vt. Couch-roll	693,894	Feb. 25	3196	705	98	1320
Parker, Howard, Bellows Falls, Vt. Machine for making paper	693,895	Feb. 25	3290	706	98	1321
Parker, Howard, Bellows Falls, Vt. Pulp and paper making machine	693,896	Feb. 25	3203	706	98	1321
Parker, Howard, Bellows Falls, Vt. Paper-making machine	693,897	Feb. 25	3204	706	98	1322
Parker, Howard, Bellows Falls, Vt. Paper-making machine	700,553	May 20	2812	644	99	1786
Parker, Howard, Bellows Falls, Vt. Paper-making machine	700,554	May 20	2814	645	99	1787
Parker, Howard, Bellows Falls, Vt. Paper-making machine	709,034	Sept. 16	1962	449	100	2412
Parker, Howard, Bellows Falls, Vt. Paper-making machine	700,554	May 20	2814	645	99	1787
Parker, James L. (See Larned, Parker, and Joyce.)						
Parker, John R. (See Murch, William W., assignor.)						
Parker, John S., Zanesville, Ohio. Making mosaic work	702,328	June 10	1869	425	99	2508
Parker, Julia A. (See Beam, George W., assignor.)						
Parker, Laura B., Ogden, Utah. Washing-machine	706,592	Aug. 12	1153	255	100	1364
Parker, Major M., assignor to D. S. Johnston, Cohoes, N. Y. Machine for rolling sheet-metal cylinders	710,117	Sept. 30	4117	929	100	2888
Parker Match Company. (See Parker, William H., assignor.)						
Parker Mills. (See Cumcock and Warren, assignors.)						
Parker, Mulford, Ellsville, Miss. Unloading apparatus	691,969	Jan. 28	3033	681	98	682
Parker, Robert R., Rawlings, Md. Means for growing and transplanting plants	695,484	Mar. 18	2139	483	98	2197
Parker, Simon B., Springfield, Mass. Fire-escape	707,715	Aug. 26	3296	738	100	1816
Parker, Stearns & Sutton. (See Schan, John P., assignor.)						
Parker, Theron N., New York, N. Y. Glazier's tool	714,516	Nov. 25	3976	881	101	1764
Parker, Thomas L. (See Forsyth, Joseph E., assignor.)						
Parker, W. E., et al. (See Furlong, William, assignor.)						
Parker, Walter E., St. Louis, Mo. Grinding or polishing attachment	692,335	Feb. 4	207	50	98	842
Parker, William E. (See Voight and Parker.)						
Parker, William H., Mellenville, N. Y., assignor, by mesne assignments, to Parker Match Company. Making matches	703,433	July 1	150	34	100	32
Parker, William H., Mellenville, N. Y., assignor, by mesne assignments, to Parker Match Company. Making matches	704,001	July 8	1339	292	100	289
Parker, William H., Mellenville, N. Y., assignor, by mesne assignments, to Parker Match Company. Match-machine	712,712	Nov. 4	454	108	101	992
Parkes, Howard, Irvington, N. Y. Belt holding or attaching device	693,058	Feb. 11	1549	338	98	1144
Parkes, James H., Nashville, Tenn. Temporary binder	701,928	June 10	1149	263	99	2364
Parkes, Richard, Birmingham, England. Handle for spades or other tools	715,135	Dec. 2	937	202	101	2628
Parkes, William N., Brooklyn, N. Y. Automatic embroidery or ornamental-stitch machine	693,696	Feb. 18	2750	606	98	1411
Parkhurst, Edward B. (See Bean, James E.)						
Parkhurst, Edward G., assignor to Lee Arms Company and Connecticut Trust and Safe Deposit Company, Hartford, Conn. Cartridge-clip	702,882	June 17	2024	675	99	2748
Parkhurst, Frederic A. (See Perkins and Parkhurst.)						
Parkin, Joseph W., Oxford, Pa. Carburetor for explosive-engines	702,469	June 17	2132	490	99	2588
Parks, Clarence W., Lowell, Mich. Cream-separator	700,635	Sept. 16	1962	450	100	2412
Parks, Leonard D., assignor of one-half to J. T. Post, Gatesville, Tex. Window-fastener	708,007	Sept. 2	125	30	100	2407
Parks, Leonard D., assignor of one-half to A. D. Honeycut, Gatesville, Tex. Bottle-closure	714,326	Nov. 25	3641	802	101	1700
Parks, William M. (See Pitts, Edward L., assignor.)						
Parks, William R., Chicago, Ill. Electric furnace	700,806	May 27	3330	764	99	1911
Parlin & Orendorff Company. (See Cross, Bradford, assignor.)						
Parlin & Orendorff Company. (See Graham, William S., assignor.)						
Parmelee, Charles R., New York, N. Y. Golf-club	695,579	Mar. 18	2344	531	98	2236
Parmelee, Charles L., Orange, N. J. Indicating device for filters, waterworks, &c.	711,521	Oct. 21	2164	472	101	480
Parmenter, Orville L., Racine, Wis. Paper cigar-pocket	706,908	Aug. 12	1903	426	100	1321
Parmerlee, James C., Sedalia, Mo. Heating and cooking stove	697,876	Apr. 15	2774	615	99	622
Parnley, Walter C., Cleveland, Ohio. Concrete-arch construction	696,898	Apr. 1	831	191	99	176
Parnley, Walter C., Cleveland, Ohio. Concrete arch construction	709,794	Sept. 23	3469	781	100	2741

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Parmley, Walter C., Cleveland, Ohio. Building concrete and masonry structures .....	712,841	Nov. 4	710	164 165	101	1044
Parnell, Elizabeth B., Carshalton, England. Treating ores .....	683,148	Feb. 11	1745		98	1182
Parpart, Otto A., assignor to Standard Tool Company, Cleveland, Ohio. Drill-socket .....	690,764	Jan. 7	769	171	98	102
Parr, Samuel W., Urbana, Ill. Determining the heating capacity of combustibles .....	700,555	May 20	2816	646	99	1787
Parrish, Charles T., Portsmouth, Va. Insect-destroyer .....	707,629	Aug. 26	3115	701	100	1809
Parrott, Elijah D., assignor to J. E. Hunt, Portland, Oreg. Carburetor .....	712,150	Oct. 28	3402	745	101	732
Parshall, Horace F., London, England, assignor to General Electric Company. System of electric distribution .....	706,591	Aug. 12	1151	255	100	1364
Parsley, Lewis A., McKenzie, N. D. Harness-snap .....	712,955	Nov. 4	984	217	101	1088
Parson, Henry E., Brooklyn, N. Y. Grate-bar .....	702,585	June 17	2376	542	99	2634
Parsons, Annie E., Boston, Mass. Corset .....	700,556	May 20	2818	647	99	1788
Parson's Band Cutter and Self Feeder Co. (See Greenleaf, Charles E., assignor.) .....	700,365	May 20	2456	563	99	1713
Parsons, Charles A., Newcastle-upon-Tyne, England. Screw-propeller .....	708,780	Sept. 9	1415	325 326	100	2282
Parsons, Charles A., Newcastle-upon-Tyne, England. Steam-turbine .....	710,884	Oct. 7	920	200 201	101	187
Parsons, Charles A., Newcastle-upon-Tyne, England. Turbo compressor and pump .....	712,713	Nov. 4	456	101 103	101	993
Parsons, Charles A., Newcastle-upon-Tyne, England. Propelling vessels by steam-turbines .....	716,468	Dec. 23	3543	774	101	2622
Parsons, Charles H., <i>et al.</i> (See Beler, Adolf, assignor.) .....	702,069	June 10	1439	323	99	2422
Parsons, Charles W., and C. B. Kain, Philadelphia, Pa. Ironing-board .....	699,704	May 13	1108	260	99	1416
Parsons, Edgar B., Moorhead, Iowa. Valve-operating mechanism for washbasins .....	703,454	July 1	151	34	100	32
Parsons, Francis F., assignor of one-half to A. and H. Schiffer, Paterson, N. J. Removable pipe-bracket .....	693,434	Feb. 18	2303	504	98	1320
Parsons, Frederick W., Elmira, assignor to Rand Drill Company, New York, N. Y. Compressor .....	704,914	July 15	2919	625 626	100	628
Parsons, Frederick W., Elmira, assignor to Rand Drill Company, New York, N. Y. Compressor .....	715,418	Dec. 9	1452	312 313	101	2152
Parsons, George W., Newton, Iowa. Band-cutter and feeder for threshing-machines .....	696,264	Mar. 25	3641	814	98	2518
Parsons, Harry E., and H. C. Derr; said Derr assignor of one-half to J. W. Pifer, Nescopec, Pa. Automatic retaining-valve for use in automatic fluid-pressure brake systems .....	694,323	Feb. 25	4072	906	98	1688
Parsons, Samuel W. (See Montgomery, Harry C., assignor.) .....	690,220	May 6	174	42	99	1210
Parsons, William J., Montague, assignor to Langdon Miter Box Company, Erving, Mass. Miter-machine .....	692,541	Feb. 4	570	135	98	916
Parsy, Paul V., Pernes-en-Artois, France. Concrete floor .....	700,980	May 27	3632	834 835	99	1972
Partington, Charles, Newport, Ky., assignor to Weir Frog Company, Cincinnati, Ohio. Electric sawing-machine .....	702,470	June 17	2153	491	99	2580
Partridge & Anderson Company. (See Partridge, Charles S., assignor.) .....	700,809	May 27	3331	764 765	99	1912
Partridge, Charles S., assignor to Partridge & Anderson Company, Chicago, Ill. Stereotype-plate and base .....	703,455	July 1	152	35	100	32
Partridge, Gerald W., London, England. Means for extinguishing arcs in electrical apparatus .....	690,661	Jan. 7	565	123	98	121
Partridge, Hugh. (See Harris, Isaac L., assignor.) .....	699,894	May 13	1501	345	99	1500
Partridge, Thomas, Jr., Hamilton, Canada. Stove-grate .....	694,663	Mar. 4	626	136	98	1845
Partsch, Frank, Dorchester, Mass. Coin-operated mechanical toy .....	699,305	Feb. 11	2053	449	98	1246
Partzsch, Max R., Dresden, Germany. Metal strip or clamp for use in manufacture of cardboard boxes .....	700,229	May 20	2185		99	1657
Parvin, Quinton G., Camden, N. J. Dauber for holding and applying paste or liquid substances .....	693,050	Feb. 11	1550	338	98	1145
Paszale, Tommaso, Alexandria, Egypt. Making soap .....	713,141	Nov. 11	1278	2-9	101	1177
Pascale, Gerardo, Somerville, N. J. Pier for the support of bridges .....	707,939	Aug. 26	3770	848	100	1941
Paschall, William, Birmingham, Ala. Straight-edge .....	699,230	May 6	178	42	99	1211
Paschke, Charles H., Buffalo, N. Y. Armor for vehicle-tires .....	700,645	Sept. 23	3181	711	100	2681
Pasco, Serban, Jassy, Rumania. Apparatus for filling .....	695,485	Mar. 18	2141	483	98	2197
Pasfield, Stephen E., Plumstead, England. Apparatus for applying the preparation to striking-surfaces of match-boxes, &c. ....	717,265	Dec. 30	5203	1129	101	3000
Passage, Hiram H., Plymouth, assignor to F. C. Trowbridge, Detroit, Mich. Firearm .....	713,916	Nov. 18	2814		101	1510
Passburg, Emil, Berlin, Germany. Drying sugar-loaves in vacuum .....	700,705	May 20	3103	705	99	1849
Passburg, Heinrich, Moscow, Russia. Producing sugar-loaves .....						
Passmore, Charles L., Fulton, Ill., assignor of one-half to W. E. Buell, Lyons, Iowa. Shoeshoer .....						
Passmore, Francis W. (See Bishop and Passmore.) .....						
Pasteur-Chamberland Filter Company. (See Bimm, Joseph E., assignor.) .....	693,435	Feb. 18	2304	504	98	1320
Pastre, Eugene R., Brooklyn, N. Y. Type-writer .....	704,092	July 8	1341	292	100	280
Patch, Theodore B., North Cambridge, Mass. Contact system for electric railways .....	704,093	July 8	1344	293	100	281
Patch, Theodore B., North Cambridge, Mass. Contact system for electric railways .....						
Paton, George G. (See Patchel, Thomas T., assignor.) .....						
Patchel, Thomas T., Westchester, assignor, by mesne assignments, of one-half to G. G. Patchel, Media, Pa. Portable and separable photographic developing-case or dark cabinet .....	706,101	Aug. 5	183	38	100	1154
Patchin, Walter E. (See Chapin and Patchin.) .....	700,668	May 20	3006	690	99	1828
Pate, Clara, Denver, Colo. Fruit-juice extractor .....						
Patee, Annie W. (See Peirce, Hiram H., assignor.) .....						
Paton, George O., Korbel, C. J. Anderson, Eureka, and J. A. Anderson, Falk, Cal. Saw straightening and tensioning hammer .....	693,060	Feb. 11	1551	338	98	1145
Patent Button Company. (See Richmond, Arthur A., assignor.) .....						
Patent Button Company. (See White, Franklin R., assignor.) .....						
Patent Development Company. (See Vanstone, Samuel, assignor.) .....						
Patersson, Robert M. (See Craig, George, assignor.) .....						
Patersson, André. (See Henrijean and Patersson.) .....	699,344	May 6	406	94	99	1257
Paton, George E., Fayetteville, N. C. Mechanical toy .....	713,142	Nov. 11	1380	290 474 475	101	1177 1178 1179
Paton, James, Cleveland, Ohio. Safe or vault .....	691,493	Jan. 21	2116	475	98	475
Patric, Charles E., assignor to Superior Drill Company, Springfield, Ohio. Distributer for grain-drills .....	692,336	Feb. 4	208	50	98	542
Patric, Lewis, Springfield, Ohio. Hot-air furnace .....	692,068	Jan. 28	3216	726 727	98	717
Patrick, Marcus C., assignor to J. F. Howie, Seattle, Wash. Combined lock and latch .....	693,898	Feb. 25	3205	707	98	1522
Patrick, Theodore L., and L. Sprague, Shabbona, Ill. Gate .....						



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Patrick, William P., assignor of two-thirds to A. C. Scroggins, Jr., and J. E. Hooton. Moundsville, W. Va. Rail-fastening .....	706,909	Aug. 12	1905	427	100	1522
Patten, James S., Baltimore, Md., assignor to Metal Dust Guard Company of Baltimore City. Dust-guard .....	705,435	July 22	4052	879	100	870
Patten, James S., Baltimore, Md., assignor to Metal Dust Guard Company of Baltimore City. Dust-guard .....	708,491	Sept. 2	887	201	100	2161
Patten, James S., Baltimore, Md., assignor to Metal Dust Guard Company of Baltimore City. Dust-guard .....	708,492	Sept. 2	889	201	100	2162
Patten, John, New York, N. Y. Live-wood wall for levees, &c. ....	700,076	May 13	1819	422 423	99	1562
Patten, John, New York, N. Y. Compound steam-engine. ....	707,716	Aug. 26	3297	738 739	100	1846
Patten, John, assignor to Patten Vacuum Ice Machine Company, Baltimore, Md. Device for indicating the rate of flow of fluids .....	701,382	June 3	178	39	99	2144
Patten, John, assignor to Patten Vacuum Ice Machine Company, Baltimore, Md. Vacuum-ridge .....	701,383	June 3	179	39	99	2145
Patten, Lorenzo D. (See Lippy and Patten.) .....						
Patten, Lorenzo D., et al. (See Lippy, David, assignor.) .....						
Patten, Lorenzo D., Mansfield, Ohio. Kneading-board .....	699,629	May 6	948	219	99	1370
Patten, Simon R., assignor of one-half to A. Millard, Omaha, Nebr. Device for grip-pine and delivering mail-bags .....	693,669	Feb. 25	3207	707 708	98	1522
Patten Vacuum Ice Machine Company. (See Patten, John, assignor.) .....						
Patten, William H., Canastota, N. Y. Harrow .....	714,819	Dec. 2	332	73	101	1905
Patten, William N. (See Bickford, Patten, and Downs.) .....						
Patterson, Anthony, Cardiff, England. Machinery for charging steel or like furnaces. ....	716,750	Dec. 23	4082	894 895	101	2736
Patterson, Benjamin, Cleveland, Ohio. Draft-rigging .....	698,551	Apr. 29	4026	890	99	915
Patterson, Eugene A., Dunbar, Nebr. Sash-lock .....	707,940	Aug. 26	3781	848	100	1941
Patterson, George F., Baltimore, Md. Damper-regulator .....	715,136	Dec. 2	938	202	101	2028
Patterson, Hermon H., Norfolk, and J. T. Burke, Omaha, Nebr. Steam-boiler furnace. ....	707,865	Aug. 26	3639	820	100	1912
Patterson, James L., assignor to Union Special Sewing Machine Company, Chicago, Ill. Folding-guide for sewing-machines .....	691,567	Jan. 21	2256	507	98	504
Patterson, James L., assignor to Union Special Sewing Machine Company, Chicago, Ill. Seam for several articles .....	691,568	Jan. 21	2257	508	98	505
Patterson, Margaret L., et al. (See Cosgrave, Sylvester A., assignor.) .....						
Patterson, Peter, McKeesport, assignor to National Tube Company, Pittsburg, Pa. Making butt-weld pipe .....	714,735	Dec. 2	159	32	101	1869
Patterson, Peter, McKeesport, Pa., assignor to National Tube Company, New York, N. Y. Apparatus for the manufacture of butt-weld tubing .....	715,854	Dec. 16	2336	516	101	2353
Patterson, Peter, McKeesport, Pa., assignor to National Tube Company, New York, N. Y. Tube-welding furnace .....	715,855	Dec. 16	2339	517	101	2353
Patterson, Peter, McKeesport, Pa., assignor to National Tube Company, New York, N. Y. Drawing butt-weld pipe .....	715,856	Dec. 16	2333	517	101	2354
Patterson, Peter, McKeesport, Pa., assignor to National Tube Company, New York, N. Y. Apparatus for drawing butt-weld pipe .....	715,857	Dec. 16	2336	517	101	2354
Patterson, Peter C., McKeesport, assignor to National Tube Company, Pittsburg, Pa. Furnace-charging mechanism .....	715,852	Dec. 16	2319	514 515	101	2351
Patterson, Peter C., and J. J. Boax, McKeesport, assignors to National Tube Company, Pittsburg, Pa. Draw-bench and sizing-rolls .....	715,853	Dec. 16	2322	515	101	2325
Patterson, Ralph J., Waterville, Me. Steam-engine governor .....	704,486	July 8	2098	456	100	411
Patterson, Ralph J., Woburn, Mass. Steam-engine governor .....	709,795	Sept. 23	3473	782 783	100	2741
Patterson, Rufus L., Durham, N. C. Machine for packing merchandise .....	700,366	May 20	2458	563 564	99	1713
Patterson, Samuel W., Chicago, Ill. Combined brace and suspenders .....	696,075	Mar. 25	3246	734	98	2436
Patterson, Samuel W., Chicago, Ill. Suspenders .....	696,076	Mar. 25	3247	735	98	2437
Patterson, William R., et al. (See Packer, Alonzo C., assignor.) .....						
Patteson, Charles P., et al. (See Hughes, Robert D., assignor.) .....						
Patteson, Charles S. (See Cappeller and Patteson.) .....						
Pattison, Charles H., Chicago, Ill. Nasal irrigator .....	716,931	Dec. 30	4543	986	101	2858
Patton, Lorenzo D., et al. (See Picking, Josiah B., assignor.) .....						
Patton, William F., Toledo, Ohio. Tumbling-box .....	691,802	Jan. 28	2737	618	98	621
Patton, William F., Toledo, Ohio. Forming boats for steam or water traps .....	691,803	Jan. 28	2738	618	98	621
Pätz, Friedrich W., Hamburg, Germany. Boiler-tube cleaner .....	695,077	Mar. 11	1424	312	98	2030
Paul, Andrew G., and H. A. Joslin, Boston, Mass.; said Joslin assignor to said Paul. Paper-drying machine .....	705,606	July 29	4446	964	100	961
Paul, Archibald, Colmes, N. Y. Thill coupling .....	696,839	Apr. 1	836	192	99	176
Paul, Francis, Jr., and A. F. Gundlack, Sorel, assignors of one-half to W. T. Ross, Montreal, Canada. Carbureter .....	708,826	Sept. 9	1529	350	100	2306
Paul, Frank. (See Herbrand, Nicholas, assignor.) .....						
Paul, George W., Pittsburg, Pa. Parer and slicer .....	707,198	Aug. 26	3512	792	100	1889
Paul, John W., Kittanning, assignor to Pittsburg Writing Machine Company, Pittsburg, Pa. Type-cutter .....	697,384	Apr. 8	1857	416	99	415
Paul, Josef, Dresden-Striesen, assignor to Feinmaschinenbau G. Calberla, G. M. B. H., Dresden, Saxony, Germany. Device for feeding tobacco in cigarette-machines. ....	709,507	Sept. 23	2950	658	100	2634
Paul, Ralph H., Brisbane, Queensland, Australia. Pneumatic sugar-cane cutter .....	712,843	Nov. 4	714	165	101	1045
Paul, Robert M., Newport, Ky. Float-operated cock .....	717,018	Dec. 30	4721	1023	101	2896
Paul, William J., Boston, Mass. Oil-can .....	702,070	June 10	1440	323	99	2422
Faulnetti, Philip H. T., Philadelphia, Pa. Surgical appliance .....	708,068	Sept. 2	126	30	100	2007
Fauling, Edward G. (See Naber, Moses H., assignor.) .....						
Faulstich, Leonard, Minneapolis, Minn. Corner-clamp for show-cases .....	712,842	Nov. 4	712	165	101	1044
Faulstin, John H., Corning, Iowa. Wrench .....	697,877	Apr. 15	2777	615	99	623
Faulsen, Nahmen, Jolon, Cal. Clearing attachment for harrows .....	702,071	June 10	1440	323	99	2422
Faulsen, Peder, Pittsburg, Pa. Steam-engine .....	712,088	Oct. 28	3286	720	101	729
Faulson, Charles J., assignor to R. C. Cox, Brooklyn, N. Y. Type-writer .....	703,082	June 24	3329	766	99	2846
Faulson, Fleck, Osage, Iowa. Tank-heater and feed-cooker .....	695,948	Mar. 25	2993	677	98	2385
Faulson, Thomas G., Edinboro, Pa. Traction-engine .....	695,937	Mar. 11	1896	422	98	2126
Faulus, Charles F. (See Troxler, Gustavus, Jr., assignor.) .....						
Faulus, Charles F., Newark, N. J. Toy pistol .....	707,252	Aug. 19	2828	535	100	1641
Fauly, Henry C. (See Garrett and Fauly.) .....						
Faup, Joseph, and G. F. Hochriem, Chicago, Ill. Score-board for bowling-alleys .....	702,072	June 10	1441	324	99	2422
Pause, Theodore O., assignor of one-half to J. S. Clarke, Atlanta, Ga. Composition of matter .....	703,151	June 24	3456		99	2872

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Dawling and Harnischfeger. (See Beck, Matthias A., assignor.)						
Deane, John L. Mobile Ala. Adjustable screw wrench.	703,816	July 1	819	181	799	794
Paxton, William O. (See Brown, Mark A., assignor.)						
Paxton, James A., Ellsworth, and J. G. Paxton, Colfax, Ill. Shovel-board for vehicles.	712,328	Oct. 28	3702	810	101	813
Paxton, John G. (See Paxton, James A. and J. G.)						
Paxton, Richard M., Washington, Pa. Plant for the manufacture of glassware.	708,917	Sept. 9	1705	1393	100	2343
Paxton, Robert B., and J. B. Driscoll, Cliftonforge, Va. Brake-adjuster.	713,339	Nov. 11	1701	1385	101	1262
Pay, Charles, Providence, R. I. Dredging-bucket.	709,420	Sept. 16	2732	613	100	2576
Payne, Charles A., St. Paul, Minn. Sharpener for knives or scissors.	691,171	Jan. 14	1498	338	98	327
Payne, Frederick R., Powers, Mich. Bag-holding device.	703,456	July 1	153	35	100	33
Payne, James B., Hanford, Cal., assignor to Hanford Oil Burner Company, Limited, Oil-burner.	702,377	June 10	1903	448	99	2528
Payne, Theodore P., Irvington, N. J., assignor of one-half to S. N. Robinson, New Rochelle, N. Y. Building-slab and means for supporting same.	702,029	June 10	1540	306	99	2460
Payne, William, London, Canada. Adjustable pliable truss.	705,127	July 22	3383	732	100	734
Payne, William J., Canby, N. Y. Fastening device.	713,143	Nov. 11	1281	290	101	1177
Paynter, George J., Philadelphia, Pa. Dental mandrel.	712,093	Oct. 28	3126	683	101	698
Paynter, George J., and F. C. Watson, assignors to Smith-Watson Manufacturing Company, Philadelphia, Pa. Combined light and mirror.	711,340	Oct. 14	1825	306	101	395
Payson, Edward. (See Schwartz, Michael, assignor.)	695,338	Mar. 12	1807	423	98	2127
Payton, James Y., assignor of one-half to G. Cox, Waldron, Ark. Non-refillable bottle.	697,878	Apr. 15	2778	616	99	623
Peabody, Adolph, and N. F. Johnson, London, England. Furnace of steam-boilers.	696,840	Apr. 1	828	102	99	177
Peabody, Anna A. (See Smith, Samuel, assignor.)						
Peabody, Francis C., St. Paul, Minn. Wrench.	701,020	June 10	1151	264	99	2365
Peabody, Frank A. (See Campbell, Frank, assignor.)						
Peabody, Royal C. (See MacComack, John, assignor.)						
Peabody, Royal C., Brooklyn, N. Y. Gas-producer.	717,996	Dec. 30	5206	1130	101	3001
Peacock, George J., Evansville, Ind. Fan for rocking-chairs.	716,469	Dec. 23	3545	775	101	2622
Peacock, Josiah C., Philadelphia, Pa. Vaccination-shield.	695,761	Mar. 18	2659	692	98	2990
Peacock, Julian L., Lexington, N. C. Bed-brace.	690,692	Jan. 14	1185	268	98	263
Peacock, Thomas. (See Dixon, Charles W., assignor.)						
Peack, Charles O., Jacksonville, Ill. Fence-post.	704,915	July 15	2922	620	100	629
Peak, Leo D., and J. W. Osborne, assignors of one-third to W. A. Peak, Exeter, Ill. Fence-machine.	697,357	Apr. 8	1700	443	99	402
Peak, William A. (See Peak and Osborne, assignors.)						
Peakes, William R., Vineyard Haven, Mass. Artificial fuel.	698,859	Apr. 29	474	.....	99	1066
Peal, Albert H., Newark, N. J., assignor, by mesne assignments, to Simons Bro. and Company, Philadelphia, Pa. Exhibiting-case for thimbles.	697,532	Apr. 15	2143	476	99	188
Peano, Felix, Oakland, Cal. Forming statuary or other ornamental structures.	700,775	Apr. 12	1398	334	100	1440
Pease, James W., assignor of one-half to L. C. Keyser, Philadelphia, Pa. Feed-water purifier.	694,571	Mar. 4	459	96	98	1811
Pease, John H., assignor to H. S. Hotchkiss, New Haven, Conn. Machine for working rubber.	697,217	Apr. 8	1337	340	99	350
Pease, William, assignor of two-thirds to M. N. Woodruff and N. A. Barnes, Plantsville, Conn. Nail-puller.	700,440	May 20	2904	595	99	1743
Pease, William H., Chicago, Ill. Covering for heat-distributing mains.	702,091	June 24	1516	726	99	2813
Pease, William H., Chicago, Ill. Heat-distributing system.	705,287	July 22	3736	812	100	805
Pease, William M., Norwood, W. Va. Pipe-coupling.	694,072	Feb. 25	3531	748	98	1591
Peard, George W. (See Bates and Peard.)						
Peard, William M., Mount Vernon, N. Y. Built-up column.	696,188	Mar. 25	3468	783	98	2488
Pearsall, Albert W., Mount Vernon, N. Y. Pneumatic-dispatch-tube carrier.	690,894	Jan. 7	945	225	98	200
Pearsall, Albert W., New York, N. Y. Receiver for pneumatic-dispatch tubes.	694,324	Feb. 25	1073	997	98	169
Pease, Harry, and E. F. Jevors, Buenos Ayres, Argentina. Antifriction metal alloy.	708,380	Sept. 9	1941	.....	100	2263
Pease, Jethro J., Perth, Western Australia, Australia. Grid or broiler.	698,532	Apr. 29	4928	890	99	916
Pearson, George F., Lowell, Mass., assignor to C. Morrill, New York, N. Y. Spike drawer or extractor.	711,341	Oct. 14	1827	397	101	396
Pearson, John W., Tehuacana, Tex. Pencil-holder.	691,172	Jan. 14	1500	338	98	328
Pearson, Nels P., Brockton, Mass. Cigar-perforating machine.	699,899	May 13	1312	304	99	1455
Pearson, O. P., et al. (See Quist, John and C., assignors.)						
Pearson, Sally C., Montgomery, Ala. Garment-supporter.	707,717	Aug. 26	3390	739	100	1847
Pearson, William E., Boston, Mass. Steam-generator.	712,405	Oct. 28	3846	842	101	846
Peart, George R., assignor of one-half to F. Foxon, Sheffield, England. Double-acting saw.	706,447	Aug. 5	968	196	100	1299
Pease, Albert A., Hartford, Conn. Mounting for vertically-adjustable shade-rollers.	714,239	Nov. 25	3465	762	101	1664
Pease, Charles. (See Beckwith and Pease.)						
Pease, Frederic N., and M. E. McDonnell, Altoona, Pa. Detergent and making same.	690,458	Jan. 7	137	.....	98	31
Pease, Harper, Portland, Oreg. Pipe-sharpener, ink-eraser, and paper-cutter.	715,419	Dec. 9	1458	314	101	2153
Pease, Harrison, Giles, Nebr. Pipe-wrench.	708,128	July 22	3355	733	100	734
Pease, Horace S. (See Chamberlin, Edward, assignor.)						
Pease, Robert E., and J. T. Tucker, Hartford, Conn. Sterilizing apparatus.	717,448	Dec. 30	5524	1200	101	3066
Pease, William C., South Eliot, assignor of one-half to M. I. Kent, Eliot, Me. Non-refillable bottle.	712,714	Nov. 4	459	109	101	993
Pease, William H., Joliet, Ill. Spring-gun.	707,000	Aug. 12	1906	427	100	1322
Peasley, Willis W., Kellerton, Iowa. Furnace.	700,290	May 20	2185	490	99	1657
Peat Machinery Supply Company. (See Dobson, Alexander, assignor.)						
Peatfield, John L., Arlington, Mass. Calendar-clock.	704,916	July 15	2923	627	100	629
Pfechenart, Paul, Braux, France. Tension apparatus for strings of stringed musical instruments.	705,288	July 22	3740	812	100	805
Peck, Arthur R., Syracuse, N. Y. Candle-making machine.	705,289	July 22	3741	813	100	806
Peck Bros. & Co. (See Totham, James, assignor.)						
Peck, Ezra A., Pekin, assignor to Acme Harvester Company, Peoria, Ill. Reaping-machine.	701,502	June 3	399	90, 91	99	2190
Peck, George L., Brooklyn, N. Y. Quenching apparatus.	690,911	Jan. 7	1028	231	98	215
Peck, George W., Roselle Park, N. J., assignor of two-thirds to F. C. White, Hawley, Pa., and O. T. Peck, Roselle Park, N. J. Packing-case.	701,384	Jan. 3	182	39	99	2145
Peck, Harry L., et al. (See Cotton, Walter H., assignor.)						
Peck, Horace B. (See Company, Milton E., assignor.)						
Peck, Ira F., Warwick, R. I., assignor of one-half to C. L. Lovering, Taunton, Mass. Loom-shuttle.	702,672	June 17	2535	581	99	2668



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Peck, Ira F., Auburn, assignor to Winsor & Jerauld Manufacturing Company, Providence, R. I. Cloth-clamp for textile machinery .....	710,799	Oct. 7	780	166	101	160
Peck, John, Haverstraw, N. Y. Burning brick .....	708,394	Sept. 2	712	167	100	2126
Peck, John S., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of electrical distribution .....	695,944	Mar. 23	2994	677	98	2385
Peck, John S., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Winding for electrical transformers .....	712,584	Nov. 4	237	58	101	947
Peck, John S., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of electric distribution .....	713,677	Nov. 18	2388	525	101	1412
Peck, Orrin B. and W. H., Chicago, Ill.; said Orrin B. Peck assignor to said W. H. Peck. Letter or similar envelop or covering .....	710,710	Oct. 7	590	125	101	121
Peck, Oscar T., et al. (See Peck, George W., assignor.) .....						
Peck, Staunton B., assignor to Link Belt Machinery Company, Chicago, Ill. Elevator .....	705,290	July 22	3748	813	100	806
Peck, Staunton B., assignor to Link Belt Machinery Company, Chicago, Ill. Conveyor .....	712,585	Nov. 4	238	58	101	947
Peck, Staunton B., assignor to Link Belt Machinery Company, Chicago, Ill. Platform carrier .....	716,932	Dec. 30	4545	986	101	2859
Peck, Walter, Dunedin, New Zealand. Centrifugal tailings-elevator .....	703,721	Sept. 23	3315	745	100	2709
Peck, Wells M., Syracuse, N. Y. Vehicle-tire .....	690,872	Jan. 7	948	212	98	190
Peck, Wilbur H. (See Peck, Orrin B. and W. H.) .....						
Peckham, Charles V., assignor of two-thirds to J. H. Dodson and L. S. McMillan, Chicago, Ill. Safe .....	702,883	June 17	2927	675	99	2749
Peckham, David W., Norwalk, Ohio. Burial-vault .....	712,956	Nov. 4	935	217	101	1088
Peckham, Edgar, New York, N. Y. Car-truck .....	700,810	May 27	3334	765	99	1912
Peckham Motor Truck and Wheel Company (See Peckham, Charles F., assignor.) .....						
Peckham, William C., Troy, Ohio. Adjustable shelf-bracket .....	701,079	May 27	3817	875	99	2013
Peckinpaugh, Sebastian S. (See Thibodo and Peckinpaugh.) .....						
Peckman, Herman, Argentine, Kans. Combined cornstalk harvester and shocker .....	706,593	Aug. 12	1154	255	100	1365
Peckover, James, Philadelphia, Pa. Stone-saw .....	693,306	Feb. 11	2054	449	98	1246
Pecor, Phil, Lena, Wis. Bicycle .....	702,092	June 24	3158	726	99	2813
Pecoraro, Nino, Spezia, Italy. Air-cool .....	705,436	July 22	3033	830	100	871
Peddy, Andrew J., Henderson, Tenn. Chair .....	699,810	May 13	1312	305	99	1458
Pedersen, Andrew, et al. (See Wright, Harry L., assignor.) .....						
Pedersen, Johannes T., Woodside, N. Y. Package-wrapping machine .....	694,026	Feb. 25	3462	764	98	1573
Pedersen, Niels, assignor to himself and F. C. Wilcox, Joliet, Ill. Chicken-brooder .....	709,508	Sept. 23	2950	658	100	2634
Pedersen, Peter O., Copenhagen, Denmark, assignor, by mesne assignments, to American Telegraph and Telephone Company. Recording messages, signals, &c .....	690,630	May 6	950	220	99	1371
Pedersen, Thomas, Krazger, Norway. Safety hook and eye .....	690,765	Jan. 7	770	171	98	163
Pedrick and Ayer Company. (See Martin, George E., assignor.) .....						
Peebles, Francis A., Seville, Ohio. Fence-post .....	700,077	May 13	1822	423	99	1563
Peek, George W., Greenview, Cal. Attachment for gates .....	715,280	Dec. 9	1213	260	101	2108
Peepeles, John A., Lancaster, Pa. Machine for cutting cigar-wrappers .....	714,736	Dec. 2	161	32	101	1869
Peer, John A., Philadelphia, Pa., assignor to A. L. Blessing, Baltimore, Md. Artificial leg .....	694,325	Feb. 25	4074	907	98	1089
Peer, John A., Philadelphia, Pa., assignor to A. L. Blessing, Baltimore, Md. Artificial leg .....	710,906	Oct. 14	1126	249	101	247
Peer, Michael F. (See Montgomery, William G., assignor.) .....						
Peerless Machinery Company. (See Glass, Perley R., assignor.) .....						
Peerless Machinery Company. (See Snow, Stephen, assignor.) .....						
Peerless Manufacturing Company. (See Mooers, Louis F., assignor.) .....						
Peerless Pouch Company. (See Siegel, Charles R., assignor.) .....						
Peete, Sarah, Philadelphia, Pa. Serving-tray .....	715,137	Dec. 2	940	202	101	2028
Peez, John J., Galveston, Tex. Cash-box .....	694,387	Mar. 4	1061	234	98	1036
Peffer, Harry C., New Kensington, Pa. Soap .....	704,304	July 8	1872	100	395	
Pegz, John, Bloomington, Ind. Fence-post .....	693,061	Feb. 11	1551	338	98	1145
Peifer, John J. (See Hoy and Peifer.) .....						
Pearce, Charles L., Jr., Chicago, Ill. Expandible bolt-fastening device .....	716,273	Dec. 16	3148	689	101	2525
Pearce, Charles L., Jr., Chicago, Ill. Combination-tool .....	716,274	Dec. 16	3149	689	101	2525
Pearce, Hiram H., assignor to A. W. Patee, Indianapolis, Ind. Motor-cycle .....	690,602	Jan. 7	452	97	98	97
Pearce, Ralph S., Chicago, Ill. Insulator .....	710,297	Sept. 30	4451	1004	100	2961
Pearson, Ernest V. (See Horton, Peter D., assignor.) .....						
Peiseler, Oscar E., Remscheid, Germany. Device for sharpening saws .....	702,150	June 10	1520	354	99	2448
Peisker, Wilhelm, Berlin, Germany. Phonograph .....	708,531	Sept. 9	1040	235	100	2203
Pell, Henry K., Rome, N. Y. Spring-coupling for vehicles .....	711,437	Oct. 14	1989	431	101	428
Pell, Henry K., Rome, N. Y. Spring-hanger for vehicles .....	714,024	Nov. 18	3017	671	101	1552
Pellant, Alfred, London, assignor to Hub Two Speed Gear Company, Limited, Salford, England. Two-speed driving-gear for cycles .....	704,663	July 15	2409	521	100	520
Pellettieri, Salvatore, Utica, and J. Poncioni, Oneida, N. Y. Folding cot .....	712,203	Oct. 28	3184	764	101	767
Pelton, Charles H., Springfield, Ohio. Pressure-regulator for drag-bars .....	693,307	Feb. 11	2075	450	98	1244
Pelton, Charles H., Springfield, Ohio. Fertilizer-distributor .....	696,476	Apr. 1	1152	36	99	38
Pelton, Charles H., Springfield, Ohio. Gearing .....	704,094	July 8	1347	293	100	281
Pelton, Charles H., assignor to Thomas Manufacturing Company, Springfield, Ohio. Grain-drill .....	700,231	May 20	2187	500	99	1658
Pelton, Charles H., assignor to Thomas Manufacturing Company, Springfield, Ohio. Grain-drill .....	701,385	June 3	183	30	99	2145
Pelton, Charles H., assignor to Thomas Manufacturing Company, Springfield, Ohio. Grain-drill .....	714,025	Nov. 18	3018	672	101	1553
Pelton, Edward W., Springfield, Mass. Automatic switch for fuse-wires in electric circuits .....	712,204	Oct. 28	3486	765	101	768
Pelton, Henry B. (See Shaw, Roos, and Pelton.) .....						
Pember, William T., Toronto, Canada. Electromagnetic brake .....	713,340	Nov. 11	1704	385	101	1262
Pemberton, William E., Wittenberg, Wis. Electric telephone system .....	697,009	Apr. 8	1200	369	99	274
Pence, Edwin L., Memphis, Tenn. Switch-operating device .....	690,433	Jan. 7	138	29	98	31
Pence, Josiah, Nicholasville, Ky. Seed-gatherer .....	709,036	Sept. 16	1965	450	100	213
Pence, William H., Fairfield, Iowa. Wood-saw .....	702,884	June 17	2929	675	99	2749
Pender, James C., Crowley, La. Combined baby carriage and rocker .....	706,448	Aug. 5	909	197	100	1299
Pendleton, John H., Jamesburg, N. J., assignor to Pendleton-Tapscott Company, New York, N. Y. Centrifugal grinding-mill .....	706,102	Aug. 5	184	39	100	1154
Pendleton, John H., Jamesburg, N. J., assignor to Pendleton-Tapscott Company, New York, N. Y. Grinding-mill .....	715,504	Dec. 9	1619	381	101	2184
Pendleton-Tapscott Company. (See Pendleton, John H., assignor.) .....						
Pendry, William A., Detroit, Mich. Button-making machine .....	693,565	Feb. 18	2550	564	98	1370
Penfield, William A., assignor to Bradley & Hubbard Mfg. Co., Meriden, Conn. Wick-stop for lamp or oil-heater burners .....	691,710	Jan. 21	2328	596	98	561

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Penfield, William A., assignor to Bradley & Hubbard Mfg. Co., Meriden, Conn. Lamp-burner.....	692,701	Feb. 4	862	197	98	976
Péniaokoff, Dmitry A., Brussels, Belgium. Purifying aluminous ores.....	695,762	Mar. 18	2651	.....	98	2301
Pennan, William, Glasgow, Scotland. Vertical steam-boiler.....	708,729	Sept. 9	1332	3	100	2362
Penn, John D., Paracould, assignor to S. K. S. Bazzell, Bard, Ark. Flood-gate.....	706,576	Aug. 12	1511	333	100	1441
Penn, William E., assignor to F. B. Fargo and Company, Lakemills, Wis. Pulley.....	695,129	July 22	3386	733	100	735
Pennell, Charles L. (See Jones and Pennell.)						
Penner, John E., Kinbrae, Minn. Vent-closing valve for pumps.....	697,358	Apr. 8	1800	403	99	402
Peunie, Henry, Brooklyn, N. Y. Bottle-stopper fastener.....	692,702	Feb. 4	863	197	98	976
Penniman, Thomas D., assignor to Rowland Telegraphic Company, Baltimore, Md. Electric telegraph.....	715,089	Dec. 9	1932	437	101	2233
Penniman, Thomas D. and H. H. Wiegand, assignors to Rowland Telegraphic Company, Baltimore Md. Transmitting apparatus for electric telegraphs.....	704,917	July 15	2929	629	100	630
Pennington, Edward J., London, England. Assembling-frame for steam-boilers.....	694,413	Mar. 4	151	34	98	1745
Penninton, Edward J., London, England. Steam-boiler.....	694,493	Mar. 4	285	65	98	1773
Pennington, Edward J., London, England. Running-gear for vehicles.....	699,631	May 6	953	220	99	1371
Pennington, Edward J., London, England, assignor of one-half to J. W. Plank and G. E. Mills, Carlisle, Pa. Automobile.....	696,477	Apr. 1	153	36	99	38
Pennington, Edward J., London, England, assignor of one-half to J. W. Plank and G. E. Mills, Carlisle, Pa. Condenser for automobiles.....	696,478	Apr. 1	155	37	99	38
Pennington, Edward J., London, England, assignor of one-half to J. W. Plank and G. E. Mills, Carlisle, Pa. Motor-vehicle.....	696,494	Apr. 1	559	123	99	121
Pennington Foundry and Heater Company. (See Moore and Leddon, assignors.)						
Pennock, Frederick G., South Braintree, Mass. Box-machine.....	711,119	Oct. 14	1374	299	101	299
Pennsylvania Car Wheel Company. (See Brothmans, Stephen, assignor.)						
Pennsylvania Clay Company. (See Phillips, Maurice W., assignor.)						
Pennsylvania Globe Gas Light Company. (See Shinnick, Victor H., assignor.)						
Pennsylvania Rubber Company. (See Wilcox and Gammeter, assignors.)						
Pennsylvania Tube Company. (See Seymour, William S., assignor.)						
Pennypacker, Harry W., Allegheny, Pa. Feather-cleaning machine.....	700,078	May 13	1823	423	99	1563
Pennypacker, Harry W., Allegheny, Pa. Mattress-stuffing machine.....	703,969	July 1	1104	238	100	219
Pentelow, William M., <i>et al.</i> (See Valiant, George, assignor.)						
Penty, Thomas H., and W. L. Bullard; said Penty assignor of one-half to A. E. Lynch and C. H. Dorer, Cleveland, Ohio. Spring butt-hinge.....	704,487	July 8	2100	455	100	441
Peoples, James A., Chicago, Ill. Wabbling saw.....	716,094	Dec. 16	2802	617	101	2454
Peoples, Ulysses S. G., and C. F. Walther, Baltimore, Md. Galley-lock.....	704,918	July 15	2931	629	100	631
Pepper, Charles F. (See Pepper, Charles T., assignor.)						
Pepper, Charles T., assignor to C. F. Pepper, Los Angeles, Cal. Hydrocarbon-burner.....	707,001	Aug. 12	1908	427	100	1522
Peppers, Edward D., Mobile, Ala. Car-door.....	706,449	Aug. 5	910	197	100	1300
Pequignat, Hubert A., <i>et al.</i> (See Miller, John S., assignor.)						
Percival, James, Youngstown, Ohio. Garment-stretcher.....	698,316	Apr. 22	3604	796	99	811
Perdelwitz, Carl, Berlin, Germany. Ferrule.....	703,457	July 1	155	36	100	33
Perdreaux, Henry, New York, N. Y. Clothes-line apparatus.....	694,414	Mar. 4	152	34	98	1745
Perdriel, Alexandre, Nantes, France. Knife for cutting asparagus or the like.....	693,942	Feb. 4	370	135	98	916
Perdue, James, McKenney, N. Y. Grab-hook.....	712,151	Oct. 28	3405	745	101	752
Pereda, Manuel, Brooklyn, N. Y. Beverage and making same.....	697,656	Apr. 15	2375	.....	99	534
Perez, Alexander, Boston, Mass. Saw adapted especially for felling trees and cutting them up.....	696,265	Mar. 25	3644	1814	98	2519
Perfect Domestic Oil Burner Company. (See Robertson, George F., assignor.)						
Perfect Gas Machine Company. (See Brothmans, Stephen, assignor.)						
Perfect Jar Cap Company. (See Smith, Eldridge J., assignor.)						
Perfect Letter Opener Company. (See Bowles, John L., assignor.)						
Perfect Non-Refillable Bottle Company. (See Gonon, Paul E., assignor.)						
Perfect Sliding Door Company. (See Laughlin and Schuyler, assignors.)						
Perfect Sliding Door Company. (See Newell, Augustus, assignor.)						
Perfection Bush Company. (See Rieke, George H., assignor.)						
Perfection Jar Closure Company. (See Hughes, Henry A., Jr., assignor.)						
Perfection Lamp Burner Company. (See Fowler, Benjamin F., assignor.)						
Perfection Music Box Company. (See Natterer, Joseph, assignor.)						
Perkins, Alfred P., New York, N. Y. Collapsible baby-jumper.....	703,458	July 1	156	36	100	33
Perkins, Benjamin W., South Bend, Ind. Billing-machine.....	707,630	Aug. 26	3116	702	100	1809
Perkins, Berton S., assignor of one-half to P. J. Baker, New York, N. Y. Tea-measure.....	714,026	Nov. 18	3022	672	101	1554
Perkins, Charles W., St. Louis, Mo. Tank for medicating water.....	691,290	Jan. 14	1725	392	98	375
Perkins, Chester H. (See Phillips, Charles A., assignor.)						
Perkins Electric Switch Manufacturing Company. (See Thomas, George B., assignor.)						
Perkins, Enoch S., Simpson County, Ky. Truck.....	695,533	Mar. 18	2793	636	98	2330
Perkins, Franklin J., Woburn, assignor to Vaughn Machine Company, Boston, Mass. Machine for treating hides or skins.....	696,538	Apr. 1	346	82,83	99	76
Perkins, Franklin J., Woburn, assignor to Vaughn Machine Company, Boston, Mass. Machine for treating hides or skins.....	701,080	May 27	3519	875	99	2013
Perkins, Franklin J., Woburn, assignor to Vaughn Machine Company, Boston, Mass. Staking-machine.....	704,096	July 8	1352	294	100	283
Perkins, Franklin J., Woburn, and F. A. Parkhurst, Peabody, assignors to Vaughn Machine Company, Boston, Mass. Machine for treating hides or skins.....	704,095	July 8	1349	293	100	282
Perkins, Fred H., assignor of one-third to H. K. Perkins, Bridgewater, Mass. Clothes-wringer.....	707,974	Aug. 26	3841	863	100	1953
Perkins, Gaius S., <i>et al.</i> (See Linn, Alon D., assignor.)						
Perkins, Harry K. (See Perkins, Fred H., assignor.)						
Perkins, Ivan S., David City, Nebr. Standard or shank for cultivators.....	695,073	Mar. 11	1425	312	98	2030
Perkins, John A. (See Kenison, Burk, and Perkins.)						
Perkins, John A., and L. A. King, Salem, assignors to Draper Company, Hopedale, Mass. Loom-temple-holding device.....	714,737	Dec. 2	163	33	101	1870
Perkins, John L. (See Stanley, John O., assignor.)						
Perkins, John L., Holyoke, Mass. Dissectible fan.....	710,298	Sept. 30	4452	1004	100	2961
Perkins, Joseph C., <i>et al.</i> (See Hart, Frank, assignor.)						
Perkins, Julius A., Omaha, Nebr., assignor to Moffett Bearing Company, Council Bluffs, Iowa. Roller-bearing.....	691,173	Jan. 14	1501	339	98	328
Perkins, Nathan W., Jr. (See Ellis and Perkins.)						
Perkins, Orlandow S., Newbern, N. C. Flat-car standard-holder.....	713,013	Nov. 4	1024	240	101	1105
Perkins, Orlandow S., Newbern, N. C. Log-car stake-holder.....	713,014	Nov. 4	1025	240	101	1105
Perkins, Paul B., Los Angeles, Cal. Acetylene-gas generator.....	704,664	July 15	2410	521	100	520
Perkins, Seth E., assignor of one-half to A. Frank, Chicago, Ill. Machine for cutting butter.....	714,943	Dec. 2	806	127	101	1956



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Perkins, Thomas S., Idlewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, Controller for electric motors	718,678	Nov. 18	2359	525	101	1413
Perkins, Walter H., assignor to Waterbury Mfg. Co., Waterbury, Conn. Water-bottle stopper	693,436	Feb. 18	2306	505	98	1320
Perkins, Walter H., assignor to Waterbury Mfg. Co., Waterbury, Conn. Incandescent-lamp socket	698,133	Apr. 22	3380	719	99	743
Perks, Edwin, and F. Birch, Coventry, England. Motor mechanism for road-vehicles	708,827	Sept. 9	1533	350	100	2367
Perks, Walter G., and H. G. M. Fletcher, Hayle, England. Magazine-camera	707,156	Aug. 19	2210	495	100	1692
Perky, Henry D., Worcester, Mass., assignor to Natural Food Company, Niagara Falls, N. Y. Filamentous cracker	713,795	Nov. 18	2574	574	101	1460
Perlfhefter, Ludwig, Vienna, Austria-Hungary. Automatic fare-collecting apparatus for street-cars or other public vehicles	699,895	May 13	1502	345	99	1500
Pernmar, William J., Toledo, Ohio. Washboard	712,957	Nov. 4	936	217	101	1088
Perotti, Louis, Newark, N. J. Wine-press	705,137	July 22	4055	879	100	871
Perret, David. (See Tsaut, Alfred, assignor.)						
Perret, David, Neuchâtel, Switzerland. Electromagnet apparatus	691,778	Mar. 4	857	189	98	1893
Perrie, Francis P. (See Rodriguez, Sebastian, assignor.)						
Perrie, James. (See Carlson and Perrie.)						
Perrigo, Morgan A., Wilkesbarre, Pa. Axle-box	691,174	Jan. 14	1504	339	98	329
Perrin, Clarence E., Des Moines, Iowa. Adjustable display-rack	691,484	Jan. 21	2119	475	98	476
Perrin & Co., William R. (See Peters, Matthew, assignor.) (Reissue.)						
Perrin, Henri, Sérézin du Rhône, France. Producing enameled polychrome photographs, &c.	708,918	Sept. 9	1707		100	2344
Perrin, Thomas J., Dayton, Ohio. Adjustable metallic window-screen	690,662	Jan. 7	566	123	98	122
Perrin, Thomas J., Koshkonong, Mo. Rotary engine	700,557	May 20	2819	647	99	1788
Perrins, Limited. (See Beck, Arthur E., assignor.)						
Perrins, Thomas A., Seymour, Conn. Machine for japanning small articles	701,386	June 8	184	40	99	2146
Perron, Camille, Rome, Italy. Treatment of nickel and copper-nickel ores	709,277	Sept. 16	2445		100	2515
Perry, Charles S. (See Moseley, Charles S., assignor.)						
Perry, Elton, Jr. (See Van Slyke, Alexander A., assignor.)						
Perry, Frank J. A., assignor of one-third to C. H. Walden, Lynn, Mass. Lacing-hook	690,993	Jan. 14	1186	268	98	263
Perry, George H., Franklin, Tenn. Wagon-gear	690,795	May 15	1109	260	99	1416
Perry, Harry W. (See Frederickson, Kate, assignor.)						
Perry, Herbert J., Cheshunt, England. Breech-closure	693,900	Feb. 25	3211	708	98	1333
Perry, James S., Kalamazoo, Mich. assignor, by mesne assignments, to B. O. Hall, Center Sandwich, N. H. Switch and frog	700,811	May 27	3336	766	99	1913
Perry, James W., Shamokin, Pa. Culin drier and separator	696,841	Apr. 1	839	193	99	177
Perry, John C., Clinton, Mass. Hoop-making machine	705,130	July 22	3388	735	100	735
Perry, Joseph L., Auburn, R. I. Rubber boot or shoe	699,562	May 6	810	191	99	1343
Perry, Joseph R., Wilkesbarre, Pa. Extracting-syringe	714,738	Dec. 2	164	33	101	1870
Perry, Louis I., Slough, England. Inkstand	690,766	Jan. 7	771	171	98	163
Perry, Ralph P. (See Goodell, John, assignor.)						
Perry, Raymond A., San Francisco, Cal., assignor of one-half to Atlantic Gulf and Pacific Company, New York, N. Y., and San Francisco, Cal. Dredger	703,817	July 1	821	181	100	164
Perry, Raymond A., Oakland, Cal., assignor of one-half to Atlantic Gulf & Pacific Co., New York, N. Y., and San Francisco, Cal. Hydraulic-dredger cutter	705,784	July 29	4764	1033	100	1034
Perry, Sylvester R., Worcester, Mass. Water-cycle	691,895	Jan. 28	2739	618	98	622
Perry, Walter. (See Punzelt, Edward E., assignor.)						
Perry, Walter, Ansonia, Conn. Cement for castings	714,647	Nov. 25	4221		101	1815
Persch, John P. (See Juge and Grisel, assignors.)						
Perschke, Ludovica A. (See Stryk, Jenny von and E. von, assignors.)						
Persinger, James S. (See Martin, Joseph H., assignor.)						
Personal Hygiene Company. (See Turck, Penton B., assignor.)						
Persson, Otto F., Lynn, assignor to E. Thomson, Swampscott, Mass. Vehicle-seat	691,806	Jan. 28	2741	619	98	622
Persson, Otto F., Lynn, assignor to E. Thomson, Swampscott, Mass. Seat for automobiles	691,807	Jan. 28	2743	619	98	622
Persson, Otto F., Lynn, assignor to E. Thomson, Swampscott, Mass. Mechanism for operating motion-checking devices	692,900	Feb. 11	1242	275	98	1080
Persson, Otto F., Lynn, assignor to E. Thomson, Swampscott, Mass. Steering device for motor-vehicles	693,330	Feb. 11	2100	1459	98	1257
Perthold, Andrew, New York, N. Y. Bottle-washing machine	716,644	Dec. 23	3906	1854	101	2700
Pervear, Charles E. (See Harrison and Holt, assignors.)						
Pessano, Antonio C., Philadelphia, Pa. Clutch for shafts and pulleys	713,341	Nov. 11	1705	385	101	1263
Pessel, Adolf. (See Kirsch, Bernhard, assignor.)						
Pestell, William. (See Chapman, Witherop M., assignor.)						
Pestell, William. (See Chapman and Pestell.)						
Petch, Albany F., London, England. Apparatus for forming commutators	691,869	Jan. 28	2850	642	98	645
Peteler, Francis, Minneapolis, Minn. Dumping-car	706,254	Aug. 5	485	103	100	1215
Peter, Francis A., Washington Township, Lehigh county, Pa. Snow guard or fender	706,684	Aug. 12	1324	292	100	1462
Peter, John W., et al. (See Schubert, Daniel N., assignor.)						
Peterbauer, Fritz, assignor to Farbwerke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Dyeing indigo	710,800	Oct. 7	783		101	161
Peterman, John F., Indianapolis, Ind. Automobile attachment for vehicles	708,459	July 1	158	36	100	33
Peters, Carl, Crefeld, Germany. Boot or shoe	691,291	Jan. 14	1726	393	98	375
Peters, Frank M., and H. H. Hungerford, Chicago, Ill.; said Hungerford assignor to said Peters. Paper-feed mechanism	702,673	June 17	2536	581	99	2668
Peters, Gershom M., Cincinnati, Ohio. Metallic-cartridge-loading machine	702,151	June 10	1561	354	99	2448
Peters, Heber C., Boston, Mass. Sewing-machine	711,909	Oct. 21	2929	644	101	641
Peters, Matthew, assignor to W. R. Perrin & Co., Chicago, Ill. Meat-pounder. (Reissue.)						
Peters, N. B., et al. (See Davis, John B., assignor.)	12,045	Oct. 21	2966	653	101	648
Peters, W. J., et al. (See Davis, John B., assignor.)						
Petersen, Christian E., Wilmington, Del. Apparatus for launching life-boats from ships	697,395	Apr. 8	1801	403	99	403
Petersen, Henry A. F., New York, N. Y. Hose or pipe coupling	706,847	Aug. 12	1646	368	100	1471
Peterson, Albert H., et al. (See Chapman, William S., assignor.)						
Peterson, Andrew P., Racine, Wis. Crayon-sharpener	704,365	July 8	1873	406	100	395

## Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Peterson, Charles E., Minneapolis, Minn. Type-writer .....	690,460	Jan. 7	140	30	98	32
Peterson, Charles E., Minneapolis, Minn. Type writing machine .....	694,073	Feb. 25	3532	782	98	1591
Peterson, Claus E., Worcester, Mass. Automatic playing attachment for musical instruments .....	712,844	Nov. 4	717	165	101	1046
Peterson, Edward, St. Hilaire, Canada. Signal system .....	693,398	Feb. 11	2056	450	98	1247
Peterson, Edwin O., Elgin, Neb. Collection-calendar .....	705,967	July 29	4440	905	100	1961
Peterson, Emelia, Washington, D. C. Sleeve-protector .....	713,239	Nov. 11	1479	333	101	1214
Peterson, Ferdinand. (See Erickson and Peterson.) .....						
Peterson, Frank W. (See Wartick, Oscar, assignor.) .....						
Peterson, Fritz, Rockford, Ill. Nut-lock .....	716,095	Dec. 16	2805	618	101	2454
Peterson, George H., Nemaha County, Neb. Cutting apparatus .....	690,767	Jan. 7	772	172	98	163
Peterson, Henning A., Honolulu, Hawaii. Centrifugal extractor .....	710,607	Oct. 7	406	84	101	81
Peterson, Jesse, assignor to United Indurated Fibre Company, Lockport, N. Y. Indurating fiber-ware, &c. ....	696,379	Mar. 25	3908		98	2570
Peterson, John G., Milwaukee, Wis. Brush for flour screens or bolters .....	690,994	Jan. 14	1187	269	98	263
Peterson, John G., Milwaukee, Wis. Brush for flour-bolting machines .....	712,938	Nov. 4	937	217	101	1088
Peterson, Oscar, and J. H. Clark, Chicago, Ill. Device for digging ditches .....	708,395	Sept. 2	713	159	100	2126
Peterson, Peter B. (See Nickel and Peterson.) .....						
Peterson, S., et al. (See Brooks, Theodore L., assignor.) .....						
Peterson, William L., Vidalia, Ga. Plow-line snap .....	695,699	Mar. 18	2550	577	98	2279
Pethick, John T., Carbondale, Pa. Sash-lock .....	708,919	Sept. 9	1708	394	100	2314
Pethybridge, Walter, London, England. Treatment of telluride gold ores .....	709,037	Sept. 16	1967		100	2413
Pethybridge, Walter, London, England. Treating telluride gold ores .....	709,038	Sept. 16	1968		100	2413
Petich, Louis, New York, N. Y. Electromedical apparatus .....	712,715	Nov. 4	460	109	101	993
Petigor, Morris H., New York, N. Y. Soda-water-dispensing fountain .....	708,659	Sept. 9	1187	271	100	2233
Petit, Ademor N., Newark, N. J., assignor to International Phonograph and Indestructible Record Company, Limited, Liverpool, England. Sound-record of celluloid .....	708,828	Sept. 9	1337	351	100	2308
Petit, Ademor N., Newark, N. J., assignor to International Phonograph and Indestructible Record Company, Limited, Liverpool, England. Producing sound-records in celluloid .....	710,290	Sept. 30	4455		100	2962
Petit, Ademor N., assignor to himself and A. O. Petit, Newark, N. J. Apparatus for manufacturing duplicate sound-recording cylinders for phonographs .....	692,337	Feb. 4	210	50	98	842
Petit, Albert O. (See Petit, Ademor N., assignor.) .....						
Petithomme, Joseph L., Oakland, Cal. Car-axle box .....	691,175	Jan. 14	1305	339	98	329
Petraccione, Louis, New York, N. Y. Lock and adjuster for window-sashes .....	711,258	Oct. 14	1659	357	101	369
Petranyi, Emerich, Elizabeth, N. J. Pellet or tablet making apparatus .....	706,777	Aug. 12	1510	335	100	1441
Petre, Douglas A., assignor of one-fourth to H. Smith, Duluth, Minn. Trolley head .....	693,396	Feb. 11	2050	450	98	1248
Petrie, Lewis D., Chicago, Ill. Seat-hinge .....	708,103	Sept. 2	302	72	100	2014
Petrie, Edgar A., Berwick, La. Wagon-jack .....	700,367	May 20	2467	596	99	1714
Petrie, Enos B., New York, N. Y. Diving apparatus .....	711,342	Oct. 14	1829	397	101	386
Petsche, Gustav B., assignor to Southwark Foundry & Machine Company, Philadelphia, Pa. Cam mechanism .....	705,701	July 29	4621	1002	100	994
Petsche, Gustav B., assignor to Southwark Foundry & Machine Company, Philadelphia, Pa. Apparatus for actuating valves of liquid-pumps .....	714,603	Nov. 25	4134	914	101	1799
Petsche, Gustav B., assignor to Southwark Foundry & Machine Company, Philadelphia, Pa. Actuating valves of liquid-pumps .....	714,604	Nov. 25	4143	916	101	1801
Pettee, William E., Newton, Mass. Bottle-labeling machine .....	707,631	Aug. 26	3118	702	100	1809
Pettengill, John, Jefferson, Me. Dish-washer .....	708,460	July 1	159	37	100	34
Petter, Ernest W. (See Petter, Guy B. and E. W.) .....	708,461	July 1	160	37	100	34
Petter, Guy B., Yeovil, and E. W. Petter, London, England. Igniting apparatus for internal-combustion engines .....	694,186	Feb. 25	3769	832	98	1633
Petterson, John, Steubenville, Ohio. Ratchet-drill .....	715,597	Dec. 9	1798	398	101	2220
Pettes, James A., Grand Manan, Canada. Anchor .....	710,167	Sept. 30	4226	953	100	2911
Petribone, Hawley, New Rochelle, N. Y. Apparatus for proportioning and mixing gas. (See Hibbard, Mairy W., assignor.) .....	696,107	Mar. 25	3327	750	98	2455
Pettie, Charles A., Brooklyn, N. Y. Vehicle-tire .....	696,746	Apr. 1	667	151	99	142
Pettit, Andrew H., Grimsby, Canada. Fruit-grading machine .....	697,360	Apr. 8	1862	404	99	403
Pettit, Ezra G., Marietta, Ohio. Roof-framing tool .....	695,339	Jan. 11	1809	423	98	2127
Petty, Cornelius, Oakwood, Tenn. Hoist .....	708,299	June 24	3711	854	99	2923
Petty, Stonevald J., Gilliam, Ark. Wrench .....	712,586	Nov. 4	240	59	101	947
Pettagrove, N. H., et al. (See Webster, assignor.) .....						
Petway, Robert G., and J. M. Tutschler, Nashville, Tenn. Harness attachment .....	710,885	Oct. 7	922	201	101	187
Peukert, Max, assignor of one-half to Tim & Co., Troy, N. Y. Machine for folding shirts .....	694,074	Feb. 25	3536	784	98	1592
Peyton, Guy M., Salt Lake City, Utah. Electric alarm .....	700,812	May 27	3338	766	99	1914
Peyton, James M., and T. W. Luttrell, Maxonmill, Ky. Vehicle-step .....	694,572	Mar. 4	400	99	98	1014
Philäzeische Nähmaschinen & Fahrradfabrik, vormals Gebrüder Kayser. (See Regenstein, Hermann, assignor.) .....						
Phanschmidt, Charles, and J. Siefert, Chicago, Ill. Massage-machine .....	702,829	June 17	2813	647	99	2726
Pfaudler, John M., Rochester, N. Y. Lubricator .....	705,608	July 29	4150	905	100	961
Pfaudler Vacuum Fermentation Company. (See White, Henry A., assignor.) .....						
Pfautz, Daniel M., Germantown, assignor of one-half to A. H. Bryant, Media, Pa. Hat-fastener .....	711,343	Oct. 14	1831	398	101	396
Pfeifer, John, Springfield, Ohio. Shaft-hanger .....	693,619	Feb. 18	2066	589	98	1393
Pfeifer, Max, assignor to L. Weiss, Vienna, Austria-Hungary. Fountain liquid-holder .....	695,945	Mar. 25	2006	677	98	2385
Pfeiffer, Charles C., Louisville, Ky. Heating-stove .....	693,438	Feb. 18	2308	505	98	1329
Pfeiffer, Charles T., Milwaukee, Wis. Automatic draft-controller .....	693,437	Feb. 18	2307	505	98	1320
Pfeiffer, Jacob, Jr., Akron, Ohio. Rubber glove .....	692,703	Feb. 4	865	197	98	976
Pfeiffer, Jacob, Akron, Ohio. Rubber glove .....	692,704	Feb. 4	866	198	98	976
Pfeiffer, Jacob, Rochester, N. Y. Mud-guard for vehicles .....	697,010	Apr. 8	1204	269	99	274
Pfeiffer, Louis A., and L. D. Staples, San Francisco, Cal. Oil-burner .....	705,341	Aug. 5	676	147	100	1552
Pfeiffer, Louis A., and L. D. Staples, San Francisco, Cal. Oil-burner .....	714,394	Nov. 25	3756	828	101	1722
Pfiff, Emilie, geboren Breust, Berlin, and W. H. Schneider, Wilmsdorf, Germany. Wedge-joint .....	713,679	Nov. 18	2362	526	101	1413
Pfenniger, Anton, assignor to Chemische Fabrik Brugg A. G., vormals Dr. Zimmermann & Co., Brugg, Switzerland. Greenish-black sulfur dye and making same .....	698,220	Apr. 23	3447		99	780
Pfenning, Carl A., assignor to W. Luckhaus, Barmen-Rittershausen, Germany. Fastener for boots, &c. ....	715,838	Dec. 16	2340	517	101	2355



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Pfister, Josef, Vienna, assignor to J. von Brenner, Schloss Gaidford, Austria-Hungary. Staining woods	708,069	Sept. 2	128	31	100	2008
Pfister-Schmidhauser, Anton, St. Gall, Switzerland. Therapeutic bath	712,436	Oct. 28	3919	858	101	860
Pflaeging, Charles R., assignor of one-half to O. L. Gooden, Baltimore, Md. Engine for motor-vehicles	712,329	Oct. 28	3705	810	101	814
Phaum & Gerlach. (See Behrendt, Bruno F., assignor.)						
Pfieger, John H., Johnstown, Pa., assignor to Lorain Steel Company. Railway-track structure	705,131	July 22	3396	737	100	736
Pfueger, William F., Altona, Nebr. Coupling mechanism for windmills and pumps	707,718	Aug. 26	3302	730	100	1847
Pfugger, Anton J., Brillion, Wis. Umbrella-support	694,888	Mar. 4	1062	234	98	1936
Pflugradt, William J., and M. Ries, Milwaukee, Wis. Box-cover fastener	710,392	Sept. 30	4619	1042	100	2995
Pfium, Benjamin F., et al. (See Leighton, Joseph, assignor.)						
Pfouts, Leroy S., Canton, Ohio. Incandescent vapor-burner	711,522	Oct. 21	2167	473	101	480
Pfouts, Leroy S., Canton, Ohio. Incandescent lamp	711,523	Oct. 21	2169	473	101	481
Pfremmer, Joseph S., Fountain, Minn. Traction-engine	706,683	Aug. 12	1325	293	100	1402
Pfundtner, Charles H., and C. B. Cole, assignors to American Scenic Railway and Amusement Company, Detroit, Mich. Scenic Railway	712,587	Nov. 4	241	59	101	948
Phail, John W., New York, N. Y., assignor to C. B. Cottrell & Sons Company, New York, N. Y., and Stonington, Conn. Roller for paper or other fabrics	717,117	Dec. 30	4899	1061	101	2884
Phares, William W., New York, N. Y. Vibrating propeller	706,198	Aug. 5	381	81	100	1194
Phelan, John M. J., Vittoria, Canada. Mitering and tool-guiding device	704,919	July 15	2932	629	100	631
Phelan, William M., Osceola Mills, Pa. Botting-table	694,415	Mar. 4	155	35	98	1745
Phelan, William M., Osceola Mills, Pa. Bottle washer and rinser	694,416	Mar. 4	157	35	98	1746
Phelps, Algernon S., Jr., Chicago, Ill. Acetylene-gas generator	716,933	Dec. 30	4546	987	101	2859
Phelps, Charles, Oskaloosa, Iowa. Tilting-flask support	709,925	Sept. 30	3746	844	100	2811
Phelps, Edward W., assignor of one-half to T. Nadeau, Montreal, Canada. Incandescent gas burner	706,686	Aug. 12	1326	293	100	1403
Phelps, Edwin S., New York, N. Y. Gage for measuring keys for pin-tumbler locks	709,240	Sept. 16	2370	538	100	2498
Phelps, George H., assignor to George Frost Company, Boston, Mass. Garment-supporter	696,842	Apr. 1	841	193	99	177
Phelps, George H., Newton, assignor to George Frost Company, Boston, Mass. Hose-supporter	696,911	Apr. 1	908	222	99	211
Phelps, George L., and J. O. Morris, assignors to Plano Manufacturing Company, Chicago, Ill. Fly-wheel for harvesters	697,146	Apr. 8	1471	330	99	332
Phelps, George N., Brookline, Mass. Josten-arch supporter	692,338	Feb. 4	212	51	98	813
Phelps, Henry C., Lee, Mass. Grooved rail appliance for street-railway T-rails	690,603	Jan. 7	454	97	98	97
Phelps, Homer L. (See Palmer and Phelps.)						
Phelps, Ruben P., Waco, Tex. Saw-sharpening machine	693,667	Feb. 18	2756	608	98	1112
Phenix, William P., Lubbock, Tex. Vise	693,140	Feb. 11	1746	382	98	1182
Pherson, Anthony, Rochester, N. Y. Bicycle-pedal	706,594	Aug. 12	1156	256	100	1365
Phifer, John N., Shumway, Ill. Electrical generating machine	692,901	Feb. 11	1245	276	98	1081
Phifer, Washington I., assignor of one-fourth to O. Conrad, California, Mo. Rotary engine	713,842	Nov. 11	1710	385	101	1204
Philadelphia Arms Company. (See Fox, Ansley H., assignor.)						
Philadelphia Baby Carriage Factory. (See Lamplugh, Augustus R., assignor.)						
Philadelphia Baby Carriage Factory. (See Lamplugh and Levi, assignors.)						
Philadelphia Barring Machine Company. (See Thomson, Robert W., assignor.)						
Philadelphia Brewery Appliance Company. (See Rhoads and Hamrick, assignors.)						
Philadelphia Electrical and Manufacturing Company. (See Bundy, Clifton L., assignor.)						
Philadelphia Pneumatic Tool Company. (See Keller, Julius, assignor.)						
Philadelphia Pneumatic Tool Company et al. (See Richards, Charles B., assignor.)						
Philadelphia Textile Machinery Company. (See Ashworth, William D., assignor.)						
Philadelphia Textile Machinery Company. (See Schwartz, Walter M., assignor.)						
Philadelphia Textile Machinery Company. (See Tate, Hugh J., assignor.)						
Philbrook, Burton S., New York, N. Y. Lighting device	691,071	Jan. 14	1328	300	98	292
Philipp, Robert A., Seattle, Wash. Potential-regulator	700,079	May 13	1824	424	99	1563
Philipp, Curt. (See Seifert, Philipp, and Gmeiner.)						
Philipp, Otto, Kotten, Germany. Hydraulic press	715,598	Dec. 9	1799	399	101	2220
Philippi, Theodore F., St. Louis, Mo. Shear-punch	693,310	Feb. 11	2061	450	98	1248
Philippi, Wilhelm H., Bürgel-Offenbach, Germany. Tanning	708,396	Sept. 2	716		100	2126
Philippson, Prosper, and M. Chevalier, Paris, France. Rotary motor	710,510	Oct. 7	223	49	101	40
Philips, Joseph H., Lebel, and R. Grimm-in-Sanson, Paris, France. Fabric	692,029	Jan. 28	3135		98	701
Philips, Edwin S., assignor to American Road Machine Co., Kennett Square, Pa. Conveyor-belt-supporting mechanism	706,848	Aug. 12	1648	368	100	1472
Philips, Robert S., Chillicothe, Mo. Rotary expansion-engine	710,711	Oct. 7	598	125	101	123
Phillipson, Percy C. (See Phillipson, William, T. W. H., and P. C.)						
Phillipson, Thomas W. H. (See Phillipson, William, T. W. H., and P. C.)						
Phillipson, William, T. W. H., and P. C., Bolton, England. Life-saving mechanism for railways	695,340	Mar. 11	1900	423 424 582 583 584	98 99	2128 2669
Phillip, Peter, Chicago, Ill. Rotary engine	702,674	June 17	2541		99	2669
Phillippi, Louis, et al. (See Pickel, John W., assignor.)						
Phillips, Andrew, St. Louis, Mo., assignor to Pittsburg Electric Machine Company, Pittsburg, Pa. Electric controller	701,608	June 3	589	129	99	2231
Phillips, Andrew, St. Louis, Mo., assignor to Pittsburg Electric Machine Company, Pittsburg, Pa. Electric sweating-rod	701,609	June 3	592	130	99	2232
Phillips, Augustus K., St. Louis, Mo. Hook and eye	690,528	Jan. 7	313	62	98	68
Phillips, Austin R., Corunna, Mich. Apparatus for carbonating and dispensing ginger-ale	715,087	Dec. 9	1956	437	101	2254
Phillips, Benjamin. (See Winkley and Phillips.)						
Phillips, Cecil O., assignor to American Cotton Oil Company, New York, N. Y. Producing cotton-seed oil	705,785	July 29	4765	1093	100	1024
Phillips, Charles B., Bluefield, Mich. Cream-separator	708,730	Sept. 9	1329	302	100	2362
Phillips, Charles M., Linkwood, Md. Removable handle	701,387	June 3	186	40	99	2146
Phillips, Charles W. (See Wieder, Henry G. A., assignor.)						
Phillips, Charley A., assignor of one-half to C. H. Perkins, Rocky River, Ohio. Window-screen	716,751	Dec. 3	4084	896	101	2737
Phillips, Claude S. (See Humphreys, John C., assignor.)						
Phillips, Columbus, Meridian, Miss. Furnace	704,097	July 8	1354	295	100	283
Phillips, David N., Whittington, Canada. Grass-uprooter	690,461	Jan. 7	142	30,31	98	32
Phillips, Edward, Newport, Ark. Gate	698,851	Apr. 29	4704	1036	99	1066
Phillips, Edwin U., assignor to Modern Telescope Company, Portland, Oreg. Telescopic traveling-bag	693,737	Feb. 18	2866	635	98	1440

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Phillips, Edwin U., and F. J. McHenry, assignors to Modern Telescopic Company, Portland, Oreg. Telescopic traveling-bag	705,438	July 22	4057	880	100	872
Phillips, Elwood C. (See Barrett and Phillips.)						
Phillips, Elwood C., assignor of one-fourth to O. A. Scheibe, Chicago, Ill. Culinary chopping-knife	697,167	Apr. 8	1474	330	99	333
Phillips, Elwood C., assignor of one-fourth to O. A. Scheibe, Chicago, Ill. Barrel bung and bushing	706,168	Aug. 5	186	39	100	1155
Phillips, Elwood C., assignor to Standard Development Company, Incorporated, Chicago, Ill. Curtain pole or rod	703,214	June 24	3581	822	99	2896
Phillips, Elwood C., assignor of three-fourths to C. R. Barrett, Chicago, Ill. Wrought-metal barrel	704,305	July 8	1874	406	100	396
Phillips, Elwood C., assignor of three-fourths to C. R. Barrett, Chicago, Ill. Bowling-alley pin	707,682	Aug. 26	3122	703	100	1810
Phillips, Elwood C., assignor of three-fourths to C. R. Barrett, Chicago, Ill. Mechanical musical instrument	711,674	Oct. 21	2461	541	101	542
Phillips, Emmett B., Richmond, Va. Vehicle-hub	709,241	Sept. 16	2973	338	100	2489
Phillips, Erbine C., London, England, assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch terminal	696,843	Apr. 1	842	1193	99	177
Phillips, Francis V., Winterpark, Fla., assignor to Smith and Phillips Manufacturing Company, Chicago, Ill. Machine for mortising window-frames	690,008	Apr. 29	4065	1069	99	1120
Phillips, Francis V., Winterpark, Fla., assignor to Smith and Phillips Manufacturing Company, Chicago, Ill. Stair-routing machine	700,813	May 27	3339	1766	99	1914
Phillips, Frederick K., deceased, Winsted, Conn.; P. F. Phillips, executrix. Means for connecting ornamental heads or knobs to curtain-poles or the like	714,231	Nov. 25	3466	762	101	1664
Phillips, George A., Marion, Ind. Paper-file	705,132	July 22	3398	738	100	787
Phillips, George W., See Reel, Henry P. G., assignor.)						
Phillips, Henry B., Berkeley, Cal. Drying redwood lumber	698,131	Apr. 22	3282	719	99	746
Phillips, Henry M., Spearville, Kans. Cultivator-shovel	694,417	Mar. 4	160	36	98	1738
Phillips, Henry S., Laredo, Tex. Chain-jack	698,066	Feb. 18	2534	608	98	1413
Phillips, Hugh J., and M. F. Guiney, Washington, D. C. Concrete-mixer	711,524	Oct. 21	2171	474	101	481
Phillips, James R., assignor to American Tin Plate Company, Pittsburg, Pa. Pickling and swelling apparatus	708,660	Sept. 9	1199	271	100	2234
Phillips, James R., assignor to American Tin Plate Company, Pittsburg, Pa. Apparatus for treating and tinning plates	708,950	Sept. 9	1813	418	100	2364
Phillips, John, London, England. Apparatus for trimming commutators	696,479	Apr. 1	159	37, 38	99	38
Phillips, John, Chicago, Ill. Square	710,520	Oct. 7	3236	608	100	46
Phillips, John B., Stamford, Conn. Folding parcel-carrier	697,879	Apr. 15	2783	616	99	624
Phillips, John H. (See Phillips, Morris R., assignor.)						
Phillips, John H., Carrick, Pa. Combined coupling and bumper for mine-cars	713,680	Nov. 18	2363	526	101	1413
Phillips, Lucy B., executrix. See Phillips, William H.)						
Phillips, Luther M., assignor of one-half to W. F. Sellers, Altoona, Pa. Eyeglasses	692,069	Jan. 28	3219	727	98	718
Phillips, Maurice W., Philadelphia, Pa., assignor, by mesne assignments, to Pennsylvania Clay Company. Apparatus for separating coarse and fine particles of clay, &c.	715,212	Dec. 2	1074	231	101	2057
Phillips, Maurice W., Philadelphia, Pa., assignor, by mesne assignments, to Pennsylvania Clay Company. Treating clay or other insoluble materials	717,118	Dec. 30	4901	1061	101	2934
Phillips, Morris R., assignor of one-half to J. H. Phillips, East Quogue, N. Y. Butter-cutter	705,543	July 22	4329	934	100	921
Phillips, Pauline F., executrix. (See Phillips, Frederick K.)						
Phillips, Robert F., Pittsburg, Pa. Kilm for drying green sand cores	692,339	Feb. 4	219	31	98	843
Phillips, Simeon G., Rahway, N. J. Steam heating apparatus	700,080	May 13	1826	425	99	1564
Phillips, Thomas H., St. Davids, Pa. Impact-tool	700,081	May 13	1829	423	99	1564
Phillips, Thomas L., Aurora, Ill. Water-heater	707,349	Aug. 19	2573	582	100	1679
Phillips, William C., et al. (See Corbett, James, assignor.)						
Phillips, William H., deceased; L. B. Phillips, Bridgeton, N. J., executrix. Air-cushion	716,752	Dec. 23	4086	896	101	2737
Phillips, William P., Harvard, Mass. Water-column	710,801	Oct. 7	785	167	101	161
Phillipson, Emil, assignor to A. C. Eggers, trustee, Brooklyn, N. Y. Stopper for water-bottles	719,297	Sept. 30	4304	968	100	2930
Phillipson, Emil, assignor to A. C. Eggers, trustee, Brooklyn, N. Y. Stopper for water-bottles	710,208	Sept. 30	4305	968	100	2930
Philo Burt Manufacturing Company. (See Sheldon, Philo B., assignor.)						
Phinney, Edward H. (See Buckley and Phinney.)						
Phipps, Abner A., New York, N. Y. Self-heating branding-iron	715,859	Dec. 16	2341	518	101	2335
Phipps, Abner A., New York, N. Y. Branding-iron	717,019	Dec. 30	4723	1024	101	2896
Phipps, Edward H., New York, N. Y., assignor to Phipps Road Car Company. Vehicle construction	711,675	Oct. 21	2464	541	101	543
Phips, Leslie B. (See McLean and Phipps.)						
Phipps Road Car Company. (See Phipps, Edward H., assignor.)						
Phoenix Caster Company. (See Rentscher and Kaefel, assignors.)						
Phoenix Cork Company. (See Adriance and Calleson, assignors.)						
Phoenix, William S. (See Bassett and Phoenix.)						
Piacentino, Giuseppe, Boston, Mass. Flour-mill	698,221	Apr. 22	3448	757	99	780
Piano, Mendel, Woodhaven, N. Y. Making pebbled leather	698,411	Apr. 22	3767	831	99	846
Piano, Mendel, Woodhaven, N. Y., assignor to North American Leather Company. Leather	704,707	July 15	2484	536	100	535
Piatt, Richard F., assignor to Joseph McWilliams and Company, Louisville, Ky. Electrical controlling apparatus	702,152	June 10	1573	356	99	2450
Piatt, Richard F., Louisville, Ky., assignor to Joseph McWilliams and Company. Steam-trap	712,089	Oct. 28	3238	721	101	729
Pickard, Pierre, Paris, France. Electric-telegraph apparatus	691,176	Jan. 14	1506	339	98	320
Piccardi, Joseph, Boston, Mass. Staircase	710,886	Oct. 7	923	202	101	188
Pichereau, Asabel P., Chicago, Ill. Trunk-box	695,763	Mar. 18	2653	603	98	2301
Pichler, Frank H., near Graz, Austria-Hungary. Transformer, inductor, &c.	714,232	Nov. 25	3467	762	101	1664
Pickard, Frank H., deceased, (T. W. Stanfield, administrator.) assignor of one-half to P. W. Trehitt, Hill City, Tenn. Running-gear for wagons	707,520	Aug. 19	2383	653	100	1745
Pickard, Greenleaf W. (See Shoemaker and Pickard.)						
Pickard, Greenleaf W., Boston, Mass., assignor, by mesne assignments, to Consolidated Wireless Telegraph and Telephone Company. Coherer	708,070	Sept. 2	129	31	100	2008
Pickard, Greenleaf W., Boston, Mass., assignor, by mesne assignments, to Consolidated Wireless Telegraph and Telephone Company. Wireless-telegraph system	708,071	Sept. 2	130	31	100	2008
Pickard, Greenleaf W., Boston, Mass., assignor, by mesne assignments, to Consolidated Wireless Telegraph and Telephone Company. Wireless telegraphy	708,072	Sept. 2	132	31, 32	100	2008
Pickard, Greenleaf W., Boston, Mass., assignor to G. P. Gehring, Philadelphia, Pa., and American Wireless Telephone and Telegraph Company, of Arizona. Wireless signaling system	711,174	Oct. 14	1501	324	101	327



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Pickel, John W., assignor of three-eighths to L. Philippi, R. Snyder, Crystal City, and J. F. Donnell, Festus, Mo. Rotary engine	716,470	Dec. 23	3546	775	101	2622
Pickens, James L. (See Park and Pickens.)						
Pickering, Barton, assignor of one-half to S. Dancyger, Dayton, Ohio. Head-rest for chairs	711,259 691,730	Oct. 14 Jan. 21	1661 2565	358 575	101 98	360 569
Pickering, Ridgway S., Sharonhill, Pa. Cotter-pin	702,675	June 17	2544	584	99	2670
Pickett, Edward F., Buffalo, N. Y. Rotary engine	700,030	Sept. 16	1060	450	100	2413
Pickett, Fred C., Kansas City, Mo. Combined electric and gas lighting system	715,688	Dec. 9	1957	433	101	2254
Pickett, Samuel H., Osgood, Ind. Stump-puller	697,103	Apr. 8	1368	304	99	311
Pickhardt, Emile, Islington, Mass. Garment-stretcher						
Picking, Josiah B., assignor of one-half to L. D. Patton and S. Marriott, Mansfield, Ohio. Vehicle-brake	696,077	Mar. 25	3248	735	98	2437
Pickles, Charles K., St. Louis, Mo., assignor, by mesne assignments, to Chicago Pneumatic Tool Company. Pneumatic hammer	707,350	Aug. 19	2574	582	100	1680
Pickles, Charles K., assignor to himself, L. Bry, St. Louis, Mo., and I. Block, Memphis, Tenn. Pneumatic lasting-machine	704,098	July 8	1357	295 296	100	284
Pickop, George B., assignor to P. & F. Corbin, New Britain, Conn. Knob-attaching device	697,168	Apr. 8	1474	330	99	333
Pickop, George B., assignor to P. & F. Corbin, New Britain, Conn. Sliding door	698,852	Apr. 29	4705	1037	99	1066
Pickop, George B., assignor to P. & F. Corbin, New Britain, Conn. Detachable hinge	699,970	May 13	1640	376	99	1526
Pickop, George B., and W. R. Corbin, assignors to P. & F. Corbin, New Britain, Conn. Sash-balance	700,814	May 27	3341	767	99	1914
Pickop, George B., and W. R. Corbin, assignors to P. & F. Corbin, New Britain, Conn. Bell	716,471	Dec. 23	3551	776	101	2623
Pickorn, William W., Graceville, Fla. Combination seed dropper and distributor	713,681	Nov. 18	2864	526	101	1413
Pieper, Alphonse F. (See Pieper, Oscar H. and A. F.)						
Pieper, Ernest O., San Jose, Cal. Support and switch for electric dental instruments	702,073	June 10	1443	324	99	2423
Pieper, Nicolas, Liege, Belgium. Lock and extractor mechanism for firearms	706,190	Aug. 5	392	82	100	1135
Pieper, Oscar H., Rochester, N. Y. Electric motor	712,717	Nov. 4	465	110	101	994
Pieper, Oscar H. and A. F., Rochester, N. Y. Electric-motor regulation	704,090	July 8	1375	297	100	289
Pieper, Oscar H. and A. F., Rochester, N. Y. Dental engine	712,716	Nov. 4	462	110	101	994
Pierce, Charles D., Jersey City, N. J. Portable tubular well and test boring machine	696,180	Apr. 1	158	38	99	39
Pierce, Charles D., Cleveland, Ohio. Fan	699,706	May 13	1110	261	99	1417
Pierce, Dennis, et al. (See De Force, Mary A., assignor.)						
Pierce, Edgar E. M., et al. (See Barnes, Edwin M., assignor.)						
Pierce, Edward, West Burlington, Iowa. Portable bathing-pan	716,096	Dec. 16	2805	618	101	2454
Pierce, Fred T., and A. E. Kuchenbecker, Geneva, Minn. Can-washer	705,133	July 22	3398	738	100	737
Pierce, George H., Needham, Mass. Latch	702,074	June 10	1445	324	99	2423
Pierce, George H., Malden, assignor to New Era Machinery Company, Boston, Mass. Ink-distributing mechanism for printing-presses	713,682	Nov. 18	2365	526	101	1414
Pierce, George H., Malden, assignor to New Era Machinery Company, Boston, Mass. Inking device for printing-presses	714,944	Dec. 2	607	127	101	1956
Pierce, George L., Brooklyn, N. Y. Spiked sole for boots or shoes	715,138	Dec. 2	941	202	101	2029
Pierce, George L., Brooklyn, N. Y., assignor to A. G. Spalding & Bros., Jersey City, N. J., and New York, N. Y. Head-harness for foot-ball players	694,986	Mar. 11	1253	274	98	1905
Pierce, George L., Brooklyn, N. Y., assignor to A. G. Spalding & Bros., Jersey City, N. J., and New York, N. Y. Hand-guard and wrist-supporter	702,471	June 17	2155	491	99	2589
Pierce, George M. (See Jackson and Pierce.)						
Pierce, Henry N., assignor to J. MacGregor, Lincoln, Me. Spool-machine	701,081	May 27	3823	876 877 878	99	2014
Pierce, Howard W. (See Dawson, Edward P., assignor.)						
Pierce, Imogen S., Philadelphia, Pa. Garment-fastener	695,341	Mar. 11	1902	434	98	2128
Pierce, Jesse W., Belton, Tex. Co-opert	707,525	Apr. 19	2359	535	100	1641
Pierce, John, Milton, assignor of two-thirds to J. H. Chadbourne, Watertown, and W. B. Moore, Swampscott, Mass. Separator and stop for lacing-hook-setting machines	692,340	Feb. 4	214	51	98	843
Pierce, John D., Philadelphia, Pa. Electric-lamp socket	693,798	Feb. 18	2888	635	98	1440
Pierce, La Fayette, Moundsville, Mo. Automatic railway-switch-operating mechanism	709,111	Sept. 16	2116	485	100	2447
Pierce Manufacturing Corporation. (See Stone and Hampson, assignors.)						
Pierce, Percy E., and W. Hanson, Cleveland, Ohio. Hot or cold water faucet	713,144	Nov. 11	1282	290 291	101	1177
Pierce, Simona F. (See Minogue, Martin T., assignor.)						
Pierce, Walter E. B. (See Lloyd and Pierce.)						
Pierce, William A., Topeka, Kans. Hay elevator and distributor	695,079	Mar. 11	1426	313	98	2031
Pierpont, Frank H., Horley, England, assignor to Lanston Monotype Machine Company, Washington, D. C. Drilling or like machine	700,368	May 20	2468	566 567	99	1714
Pierpont, Robert, New Haven, Conn. Tension device for sewing-machines	695,486	Mar. 18	2142	484	98	2197
Pierston, Charles. (See Griffiths, Spencer M., assignor.)						
Pierston, Fats M., Scarborough, N. Y. Sash-bar for greenhouses or other glazed structures	697,746	Apr. 15	2537	565	99	568
Pierston, Paul M., Scarborough, N. Y. Sash-bar for greenhouses, &c.	697,745	Apr. 15	2540	566	99	569
Pietsch, Gustav A. H., Kiata East, Victoria, Australia. Bicycle and tricycle	697,104	Apr. 8	1369	304	99	311
Piez, Charles, assignor to Link Belt Engineering Company, Philadelphia, Pa. Machinery for handling sugar-cane, &c.	716,753	Dec. 23	4087	896 897	101	2737
Piez, Charles, and R. H. Beaumont, Philadelphia, Pa., assignors to Dodge Coal Storage Company, Naugatuck, Conn. Storage apparatus	696,266	Mar. 25	3616	815 816	98	2519
Pifer, George N., assignor to American Automatic Photograph Company, Cleveland, Ohio. Means for loading automatic photographic apparatus	708,164	Sept. 2	304	72	100	2044
Pifer, George N., assignor to American Automatic Photograph Company, Cleveland, Ohio. Photographic plate	708,165	Sept. 2	306	73	100	2045
Pifer, George N., assignor to American Automatic Photograph Company, Cleveland, Ohio. Automatic photographic apparatus	708,166	Sept. 2	307	74 75	100	2045
Pifer, George N., assignor to American Automatic Photograph Company, Cleveland, Ohio. Coin-controlled automatic photographic apparatus	708,167	Sept. 2	315	75	100	2046
Pifer, George N., assignor to American Automatic Photograph Company, Cleveland, Ohio. Shutter for automatic photographic apparatus	708,168	Sept. 2	318	76	100	2046
Pifer, George N., assignor to American Automatic Photograph Company, Cleveland, Ohio. Magazine plate-feeding apparatus	708,493	Sept. 2	890	201	100	2102
Pifer, Jerome W. (See Parsons and Pifer, assignors.)						
Pignotti, Edward J., Chicago, Ill. Cheese-hoop	706,104	Aug. 5	187	39	100	1155
Pignaud, Laurent. (See Lapertot, Villard, and Pignaud.)						
Pignolet, Louis M., Orange, N. J. Surgical forceps	702,472	June 17	2156	491	99	2589
Piqueron, Henry C., New York, N. Y. Eyeglass-polisher	698,853	Apr. 29	4707	1037	99	1067
Pike, Charles B., Whitehall, N. Y. Receptacle for coins or small articles of merchandise	708,731	Sept. 9	1325	302	100	2262

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Pike, Charles F., Philadelphia, Pa. Fishing-net	716,097	Dec. 16	2809	1618 1619	101	2435
Pike, Howard. (See Young, Elmer C., assignor.)						
Pike, Murray A., Ava, Ill. Singletree attachment	711,344	Oct. 14	1832	398	101	973
Pike, William A., Pittsfield, Mass., assignor to Eaton-Hurlbut Paper Company, Portland, Me., and Pittsfield, Mass. Packing and display box for stationery	704,708	July 15	2485	396	100	535
Pilar, Anthony J., Philadelphia, Pa. Tanning skins or hides	715,139	Dec. 3	942		101	2029
Pilcher, John V., Louisville, Ky. Garment-clasp	716,472	Dec. 23	3552	776	101	2623
Pilkington, Joseph H., Waterbury, Conn., assignor to C. J. Higley, New York, N. Y. Garment-supporter	703,152	June 24	3458	792	99	2872
Pilling, Charles J., and G. T. Barber, assignors to G. P. Pilling & Son, Philadelphia, Pa. Hinge for surgical instruments	704,207	July 8	1579	341	100	331
Ping, Frederick, Washington, D. C. Doorknob	691,870	Jan. 28	2851	642	98	646
Pilling & Son, George P. (See Pilling and Barber, assignors.)						
Pillmore, William F., and D. Anderegg, Westerville, N. Y. Bean-separator	696,189	Mar. 25	3499	793	98	2459
Pillmore, William F., and D. Anderegg, Westerville, N. Y. Driving mechanism for hoisting and conveying apparatus	706,105	Aug. 5	189	40	100	1155
Pillmore, William F., and D. Anderegg, Westerville, N. Y. Bean-separator	709,646	Sept. 23	3184	711	100	2682
Pilson, Clara, <i>et al.</i> , administrators. (See Pilson, George F.)						
Pilson, George F., deceased; C. Pilson, Skyesville, and W. R. Brewer, Baltimore, Md., administrators. Horseshoe-machine	701,082	May 27	3830	1878 1879	99	2015
Pilson, George F., deceased; C. Pilson, Skyesville, and W. R. Brewer, Baltimore, Md., administrators. Horseshoe-machine	701,083	May 27	3832	1879 1880	99	2016
Pimlott, Mary A., administratrix. (See Pimlott, William E.)						
Pimlott, William E., assignor to J. M. Atkinson Company, Chicago, Ill. Circuit-breaker	697,533	Apr. 15	2145	477	99	488
Pimlott, William E., deceased; M. E. Pimlott, administratrix, assignor to J. M. Atkinson Company, Chicago, Ill. Means for electrically connecting railway-rails	697,534	Apr. 15	2149	478	99	489
Pinckard, William P. (See Paiste, Henry T., assignor.)						
Pinckard, John J., Chicago, Ill. Armor	700,182	May 13	1834	426	99	1565
Pindestofte, Anders A., Copenhagen, Denmark. Brush for cleaning bottles	701,084	May 27	3835	880	99	2016
Pindestofte, Anders A., Copenhagen, Denmark. Machine for cleaning bottles	714,739	Dec. 2	165	33	101	1870
Pinel, Joseph, Altringham, assignor to Linotype Company, Limited, London, England. Device for forming accents on linotypes	708,661	Sept. 9	1191	272	100	2234
Ping Pong Ping, (See Atkins, Charles M., assignor.)						
Pingel, Carl G., Butte, Mont. Pin-keeper	712,330	Oct. 28	3708	810	101	815
Piniec-Mallet, Adrian de, Brooklyn, N. Y. Extensible bedstead or couch	712,718	Nov. 4	466	111	101	994
Pink, Maximilian, New York, N. Y. Liquid-pressure regulator	702,075	June 10	1445	325	99	2423
Pinney, Elijah H., and E. A. Jones, Cass City, Mich. Animal-poke	700,558	May 20	2821	648	99	1788
Pinney, Orestes C., Glenview, Ohio. Submerged water-heater	703,215	June 24	3581	823	99	2896
Pinson, Frederick W., Willenhall, England. Padlock	704,209	July 8	1083	367	100	353
Pintch, Richard, Berlin, Germany. Device for generating electricity on running cars	704,573	July 15	2267	491	100	489
Pintsch, Richard, Berlin, Germany. Power-transmission regulator for electromagnetic couplings	704,574	July 15	2268	492	100	490
Pintsch, Richard, Berlin, Germany. Centrifugal coupling	704,575	July 15	2269	493	100	490
Piper, Asa E., Buffalo, N. Y. Shipping-box	693,311	Feb. 11	2062	451	98	1248
Piper, Harry H. (See Fox, William L., assignor.)						
Piper, Hiram L., Toronto, Canada. Train-order signal	698,317	Apr. 22	3697	796	90	812
Piper, James W., Waltham, Mass. Gas-burner	709,356	Sept. 16	2587	583	100	2546
Piper, Robert H., Chelsea, Mass., assignor to National Specialty Manufacturing Co., Jersey City, N. J. Device for supporting and delivering paper for wrapping or binding purposes	700,815	May 27	3343	1677 1768	99	1915
Piper, Robert H., Wakefield, Mass., assignor to National Specialty Manufacturing Co., Jersey City, N. J. Device for supporting and delivering paper for wrapping or binding purposes	700,816	May 27	3345	768	99	1915
Piper, William E., Union Star, Mo. Windmill-regulator	711,676	Oct. 21	2466	542	101	544
Piper, William M., Allegheny, Pa. Draft-rigging	693,331	Feb. 11	2104	460	98	1257
Piper, William M., Allegheny, Pa. Draft-rigging	693,332	Feb. 11	2104	460	98	1258
Piper, William M., Allegheny, Pa. Draft-rigging	693,333	Feb. 11	2105	461	98	1258
Piper, William M., Allegheny, Pa. Draft-rigging	693,334	Feb. 11	2106	461	98	1258
Piper, William M., Allegheny, Pa. Draft-rigging	693,335	Feb. 11	2108	462	98	1259
Pirie, Frederick G., and F. Sharman, London, England. Apparatus for storing, measuring, and delivering aerated liquids	694,187	Feb. 25	3770	833	98	1634
Pirie, John T., Jr., Chicago, Ill. Combined bill-sheet and journal-leaf	706,849	Aug. 12	1659	369	100	1472
Pirosh, Berthold, Chicago, Ill. Perpetual-reminder system	704,100	July 8	1377	257	100	290
Pirrung, Felix, Ravenswood, Ill. Combination scrub-brush and mop	695,051	Apr. 22	3100	682	99	707
Pirung, Felix, Ravenswood, Ill. Sprinkling scrub-brush	695,051	July 29	4900	1065	100	1052
Pirsch, Peter, Kenosha, Wis. Extension-ladder	690,462	Jan. 7	146	31	98	33
Pisko, Emanuel, New York, N. Y. Device for shaping cigar-bunches	698,439	Feb. 18	2509	506	98	1321
Pisko, Emanuel, New York, N. Y. Cutting and pasting device for cigar-wrapping machines	701,388	June 3	187	40, 41	99	2146
Pitblader, Isaac, <i>et al.</i> (See Maloney, William, assignor.)						
Pitche, Lewis S., Albany, N. Y., assignor to W. M. Dudgeon, executor of R. Dudgeon, deceased. Hydraulic jack	706,850	Aug. 12	1651	369	100	1473
Pitney, Arthur H., assignor of five-eighths to T. K. Johnstone, E. A. Rummel, H. G. Seeger, and F. E. Coyne, Chicago, Ill. Postage-stamp device	710,997	Oct. 14	1128	1250	101	248
Pitt, George W., and E. Martin, London, England. Wheel and tire for vehicles	692,341	Feb. 4	216	52	98	844
Pittman, Edward F., Keosauqua, Iowa. Copy-holder	716,577	Dec. 23	3773	821	101	3671
Pittman, George L., Bethesda, Ohio. Nut-lock	709,357	Sept. 16	2589	584	100	2546
Pittman, Reinhart W., New York, N. Y. Universal joint	714,327	Nov. 25	3642	803	101	1700
Pitts, Edward L., assignor of one-half to W. M. Parks, Jerome, Ariz. Ter. Shoe-lace	715,599	Dec. 9	1801	399	101	2321
Pitts, Joseph W., Augusta, Ga. Spike-extractor	695,457	Mar. 18	2144	484	98	2198
Pitts, Mary, Chicago, Ill. Bird-cage	702,993	June 24	3159	726	99	2813
Pitts, Mary, Chicago, Ill. Stopper for bottles	708,732	Sept. 9	1327	302	100	2263
Pittsburg Blue Print Company. (See Whinery, Samuel B., assignor.)						
Pittsburg Catehem Company. (See Bietley, Henry A., assignor.)						
Pittsburg Electric Machine Company. (See Phillips, Andrew, assignor.)						
Pittsburg Gas Engine Company. (See McCall, Harry M., assignor.)						
Pittsburg Meter Company. (See Wittmer, George X., assignor.)						
Pittsburg Writing Machine Company. (See Paul, John W., assignor.)						
Pittsburgh Blue Print Company. (See Whinery, Samuel B., assignor.)						
Pittsburgh Cigar Machine Company. (See Weierbach and Dickson, assignors.)						
Pittsburgh Reduction Company. (See Jordan, Harry W., assignor.)						
Pivert, Maurice, New Orleans, La. Friction-clutch	716,754	Dec. 23	4089	897	101	2738



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Pixley, Albert A., Mittineague, Mass. Universal joint .....	700,369	May 20	2474	597	99	1716
Piagno, James G., et al. (See Donovan, Alford, assignor.)						
Place, Fredrick E. (See Buckley and Place.)						
Place, James F., Glenridge, N. J. Liquefying air or other gases and cooling by means thereof .....	707,633	Aug. 26	3123	703	100	1810
Place, James F., Glenridge, N. J. Vessel for holding and shipping liquid air or other liquid gases .....	707,634	Aug. 26	3123	704	100	1811
Place, James F., Glenridge, N. J., assignor of one-half to S. M. Gardenhire, Brooklyn, N. Y. Apparatus for liquefying air .....	711,525	Oct. 21	2176	1475	101	482
Place, John, and W. J. Lewis, Broadheath, England, assignors to Mergenthaler Linotype Company, New York, N. Y. Self-feeding mechanism for metal-pots .....	697,611	Apr. 8	1204	269 1270	99	274
Place, Joseph R., and N. A. Keys, Burlington, Iowa. Machine for securing rubber tires upon wheel-rims .....	711,438	Oct. 14	1990	431	101	439
Place, Washington N. G., Seattle, Wash. Guiding attachment for doors .....	698,032	Apr. 23	3192	683	99	708
Pladeck, Hugo, Middle Village, N. Y. Hothouse construction .....	701,610	June 3	533	130	99	2332
Plagmann, Emil, Marengo, Iowa. Windmill .....	694,360	Feb. 25	3968	881	98	1676
Plançon, Emile, Lingèvres, France. Sign illuminated by electric currents .....	714,233	Nov. 25	3468	783	101	1664
Planeur, Jean, Lyons, and L. Dutremblay, Paris, France. Portable inhaling apparatus .....	700,232	May 20	2188	500	99	1658
Plank, G. A. (See Wiswall, William J., assignor.)						
Plank, J. W., et al. (See Pennington, Edward J., assignor.)						
Plano Manufacturing Company. (See Dennis, Samuel K., assignor.)						
Plano Manufacturing Company. (See Halley, Robert, assignor.)						
Plano Manufacturing Company. (See Phelps and Morris, assignors.)						
Plano Manufacturing Company. (See Plopper, James A., assignor.)						
Plano Manufacturing Company. (See Trolley, Isaac, assignor.)						
Plant, Oliver W., Providence, R. I. Cutter for gear-teeth .....	707,719	Aug. 26	3304	740	100	1847
Planters Compress Company. (See Griffin, Thomas J., assignor.)						
Planters Compress Company. (See Lowry, George A., assignor.)						
Planters Compress Company of Maine. (See Holmes, Watson M., assignor.)						
Planters Compress Company of Maine. (See Lowry and Cowley, assignors.)						
Plantinga, Pierre, Fort Wayne, Ind. Apparatus for extracting tar from gas .....	699,563	May 6	810	191	99	1348
Plaster, Pliney. (See Plaster, William M., assignor.)						
Plaster, William M., assignor of one-half to P. Plaster, Cotton, Tex. Gate .....	697,880	Apr. 15	2784	616	99	624
Platko, John, Newton, assignor of one-fourth to Ertz & Joseph, Bradford, Pa. Steam-boiler .....	707,002	Aug. 12	1900	428	100	1523
Platner, Cyrus, Ellsworth, Kans. Shoe-polish-applying brush .....	715,110	Dec. 2	943	203	101	2929
Platt, Clarence D., assignor to Bryant Electric Company, Bridgeport, Conn. Electrical switch .....	715,680	Dec. 9	1958	438	101	2254
Platt, Clarence D., assignor to Bryant Electric Company, Bridgeport, Conn. Electric-lamp socket .....	716,578	Dec. 23	3778	821	101	2671
Platt, Corwin H., Cleveland, Ohio. Adding machine .....	696,481	Apr. 1	160	38, 39	99	39
Platt, James B., and T. F. Marr, Ashland, N. H. Spotting attachment for carding-machines .....	713,796	Nov. 18	2575	574	101	1460
Platt, John W., Dover, N. H. Loom shedding mechanism .....	690,873	Jan. 7	950	213 214	98	200
Platt, John W., Dover, N. H. Loom shedding mechanism .....	703,818	July 1	824	181 182	100	165
Plattensburg, Joseph, McKeesport, Pa. Car-brake .....	690,708	Jan. 7	775	172	98	164
Platts, Joseph A. (See Harrison and Platts.)						
Platz, Frank A., Brooklyn, N. Y. Child's waist .....	700,233	May 20	2189	500	99	1658
Plaut, Joseph, Cincinnati, Ohio. Berth guard and ladder .....	697,585	Apr. 15	2151	478	99	489
Player, John, Topeka, Kans. Locomotive .....	697,536	Apr. 15	2156	479	99	490
Player, John, Topeka, Kans. Locomotive .....	702,742	June 17	2664	613	99	2694
Player, John, Dunkirk, assignor to American Locomotive Company, New York, N. Y. Reverse-lever .....	696,482	Apr. 1	162	39	99	39
Player, John, Chicago, Ill., assignor to American Locomotive Company, New York, N. Y. Guide-yoke bracket .....	696,483	Apr. 1	161	39, 40	99	40
Player, John, Chicago, Ill., assignor to American Locomotive Company, New York, N. Y. Locomotive-cylinder .....	696,484	Apr. 1	164	40	99	40
Player, John, Chicago, Ill., assignor to American Locomotive Company, New York, N. Y. Locomotive ash-pan .....	696,485	Apr. 1	166	40, 41	99	40
Player, John, Chicago, Ill., assignor to American Locomotive Company, New York, N. Y. Locomotive ash-pan .....	696,486	Apr. 1	168	41	99	41
Playford, Sterling T., Cassopolis, Mich. Sectional tank .....	698,050	Apr. 23	3008	682	99	707
Playne, Alexander W., Stroud, England, assignor of one-half to L. W. Macdonald, Isle of Skye, Scotland. Preparing indigo-vats .....	715,213	Dec. 2	1076	231	101	2957
Pleasance, Joseph H., East Ham, England. Railway fog signaling apparatus .....	717,030	Dec. 30	4725	1024	101	2807
Pleck, Frank J., Sturgeon Bay, Wis. Bores-gate .....	696,580	Apr. 1	349	83	99	77
Plenty, John T., Gloucester, England. Steam-generator .....	714,234	Nov. 25	3469	783	101	1664
Pless Pol, Stanislas de, Laeken-Brussels, Belgium. Device for carrying packages .....	705,439	July 22	4058	880	100	872
Plett, Johann C. A., Hamburg, Germany. Packing for stuffing-boxes .....	696,590	Apr. 1	351	83	99	78
Pletttenberg, Friedrich, Iserlohn, Germany. Mattress .....	692,705	Feb. 4	867	198	98	97
Plews, Arthur S., London, England. Making white antimony oxid .....	704,367	July 8	1875	406	100	396
Plimpton, J. Edward. (See Whitney, Perrin B., assignor.)						
Plimman, Oscar E., et al. (See McNeill, George P., assignor.)						
Ploeg, Simon de, assignor to Sté. de Ploeg, H. Colliez Loustau et Cie., St. Maurice, France. Variable-speed gearing .....	700,981	May 27	3635	885	99	1973
Plopper, James A., assignor to Plano Manufacturing Company, Chicago, Ill. Adjustable bearing for wheels .....	712,588	Nov. 4	242	60	101	948
Plotnik, Paul, Delano, Minn. Hay-rack .....	703,462	July 1	162	37	100	34
Plotts, William, Whittier, Cal. Injector-burner .....	698,553	Apr. 29	4020	810	99	916
Plotts, William, Whittier, Cal. Injector of water in drilled oil-wells .....	715,141	Dec. 2	944	208	101	2929
Plozman, Harry, London, England. Steam-generator of the locomotive type .....	703,421	Sept. 16	2734	614	100	2577
Plumbly, Frederick K., New York, N. Y. Street guide or sign .....	716,098	Dec. 16	2811	619	101	2456
Plummer, Beecher I., Grants Pass, Ore. Butcher's block-scraper .....	701,593	June 3	401	91	99	2190
Plummer, Clarence H., Waukesha, Wis. Blanching peas, &c. .....	697,272	Apr. 8	1658	371	99	372
Plummer, Clarence H., and F. T. Stare, Waukesha, Wis. Canning corn or other vegetables .....	699,765	May 13	1231	286	99	1440
Plummer, Leroy L. (See Hudson, Richard W., assignor.)						
Plumtree, Oliver L., Chicago, Ill., assignor of one-half to J. W. Ware, trustee. Automatic safety-switch for electric circuits .....	697,373	Apr. 8	1660	372	99	373
Plunger Elevator Company. (See Cole, William F., assignor.)						
Plunger Elevator Company. (See Harriman, Louis H., assignor.)						
Plunkett, Michael H., Baltimore, Md. Water-tube boiler .....	711,645	Oct. 21	2393	526	101	528

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Plunkett, Robert L., <i>et al.</i> (See Hook, Alonzo L., assignor.)						
Pneumatic Carriage Co. (See Knight, Walter H., assignor.)						
Pneumatic Carriage Company. (See Hoadley, Joseph H., assignor.)						
Pneumatic Engineering Company. (See Titus, Silas W., assignor.)						
Pneumatic Scale Corporation. (See Doble, William H., assignor.)						
Pneumatic Signal Company. (See Dodgson, Frank L., assignor.)						
Pneumatic Signal Company. (See Locke, William, assignor.)						
Pneumatic Tobacco Stemmer Company. (See Spencer and Whitaker, assignors.)						
Poage, Jesse E., Brookville, Ky. Ribbon-shifting attachment for book type-writers.	711,070	Oct. 14 1907	280	101	282	
Poate, William E., Neillville, Wis. Bar-fixture.	692,706	Feb. 4 860	198	98	277	
Pochock, Francis A., Philadelphia, and to C. W. Kennedy, Rutledge, assignors, by mesne assignments, to Electric Power Development Company, Philadelphia, Pa. Electric motor.	694,075	Feb. 25 3558	753	98	1592	
Pochock, Stephen H., Hamilton, Canada. Car-brake.	690,769	Jan. 7 777	172	98	164	
Pollack, Henry J., Lincoln, Nebr. Electrical releaser for fire-doors, &c.	709,607	Sept. 23 3120	695	100	2669	
Poe, Henry H., Macon, Ga. Bridle.	714,945	Dec. 2 611	129	101	1957	
Poehner, Andrew J., Cincinnati, Ohio. Ironing-board support.	694,779	Mar. 4 858	150	98	1893	
Poetz Automatic Faucet Co. (See Poetz, John C., assignor.)						
Poetz, John C., Spokane, Wash., assignor to Poetz Automatic Faucet Co., Incorporated.						
Poetz, John C., Spokane, Wash., assignor to Poetz Automatic Faucet Co., Incorporated.	697,881	Apr. 15 2780	617	99	624	
Pohl, Eduard, Weiswasser, Germany. Producing metals in a finely-divided state.	709,475	Aug. 5 951	267	100	1308	
Pohl, Joseph. (See Donald and Pohl.)						
Pohley, Frederick, Windsor, Cal. Poultry drinking-fountain.	711,924	Oct. 14 1902	344	101	347	
Pohlman, Charles F., Spokane, Wash. Hoisting-hook for miners.	712,959	Nov. 4 938	218	101	1089	
Pohlman, Edward A., New York, N. Y. Faucet and valve.	691,569	Jan. 21 2258	508	98	505	
Pohlmann, Adele. (See Ruckstuhl and Pohlmann.)						
Polesz, William F., Philadelphia, Pa. Braiding-machine.	714,946	Dec. 2 613	128	101	1958	
Poilleville, Auguste F., (dit Paul Villain), Paris, France. Apparatus for indicating when certain predetermined speeds are exceeded by vehicles.	707,254	Aug. 19 2390	535	100	1641	
Poindexter, John W., Cynthia, Ky. Seed-tube for grain-drills.	702,111	June 10 1562	338	99	2435	
Poindexter, John W., Cynthia, Ky. Conveyor-slat for harvesting-machines.	717,267	Dec. 30 5268	1130	101	3001	
Poindexter, Robert E. (See McCoy, John, assignor.)						
Poindexter, Robert E., Indianapolis, Ind. Saw.	698,312	Feb. 11 2608	451	99	1249	
Poindexter, Robert E., Indianapolis, Ind. Saw-set.	697,882	Apr. 15 2788	617	99	625	
Poindexter, Robert E., Indianapolis, Ind. Saw-tooth gage.	697,883	Apr. 15 2789	617	99	625	
Poinson, Charles E. (See Poinson, John E. and C. E.)						
Poinson, John E. and C. E., assignors to Lewis & Poinson's Pacification, Limited, Wellington, England. Machine for dividing dough.	692,473	Feb. 4 443	103	98	880	
Poirier, Octave A., Minneapolis, Minn. Grain-drill.	707,799	Aug. 26 3513	732	100	1889	
Poirot, John B., Belleville, Ill. Basket.	697,537	Apr. 15 2158	479	99	490	
Poirrier, Alcide F., assignor to Ste. Amé des Matières Colorantes et Produits Chimiques de St. Denis, Paris, France. Blue sulfur dye and making same.	708,662	Sept. 9 1195	.....	100	2234	
Poirras, Mary. (See Thibault, Joseph C., assignor.)						
Pokrop, Reginald W., New Haven, Conn. Bottle.	698,135	Apr. 22 3283	719	99	744	
Polack, Max, Waltershausen, Germany. Tire for motor-vehicles.	716,099	Dec. 16 2813	619	101	2450	
Poland, Otto, Giebichenstein, near Halle-on-the-Saale, Germany. Machine for making tasks.	695,220	Mar. 11 1713	380	98	2090	
Polchow, John W. (See Levitt and Polchow.)						
Poliakoff, Joseph, Charlottenburg, Germany. Photographic-shutter-controlling device.	700,983	May 13 1835	427	99	1565	
Poliakoff, Joseph, Charlottenburg, near Berlin, Germany. Photometric recorder and indicator.	702,320	June 10 1870	426	99	2598	
Poliakoff, Joseph, Moscow, Russia. Composition of matter.	714,235	Nov. 25 3479	.....	101	1095	
Poling, Homer, Curtin, assignor of one-half to N. Poling, Millstone, W. Va. Tooth-brush.	713,693	Nov. 18 2998	528	101	1414	
Poling, Nicholas. (See Poling, Homer, assignor.)						
Politsky, Simon A., and J. Agust, Boston, Mass. Gas-burner.	705,882	July 29 4901	1066	100	1052	
Polk, Baylor, and T. J. Wood, Cliff, N. Mex. Ter. Animal-trap.	702,676	June 17 2546	365	99	2670	
Polk, Lewis G., <i>et al.</i> (See Wagner, Daniel, assignor.)						
Pollacsek, Emil, Budapest, Austria-Hungary. Desulfurizing furnace-gases.	709,353	Sept. 16 2589	41	100	2546	
Pollak, Anton, Budapest, Austria-Hungary. Photographic developing apparatus.	717,021	Dec. 30 4720	1025	101	2897	
Pollak, Maurice E., <i>et al.</i> (See Thompson, Thomas C., assignor.)						
Pollard, Albert, Attleboro, Mass. Brooch.	696,457	Apr. 1 169	.....	99	41	
Pollard-Alling Manufacturing Company. (See Crane, Walter E., assignor.)						
Pollard, Amos E., Montezuma, assignor of one-half to L. C. Medearis, Marshalltown, Iowa. Bridle crown-piece.	692,707	Feb. 4 870	109	98	977	
Pollard, Collingwood, Bradford, assignor to Pollard & Metcalfe, Limited, Silsden, England. Fire-kindler.	694,027	Feb. 25 3471	765	98	1575	
Pollard, Collingwood, Bradford, assignor to Pollard & Metcalfe, Ltd., Silsden, England. Fire-lighter block.	690,267	Mar. 25 3648	816	98	2520	
Pollard, Edwin, Silsden, England. Machine for grooving lumber.	708,074	Sept. 2 141	34.35	100	2010	
Pollard, Edwin, assignor to Pollard & Metcalfe, Limited, Silsden, England. Dipping fire-lighter or like blocks into solutions.	717,449	Dec. 30 5326	1200	101	3096	
Pollard, Edwin, Silsden, England, and J. R. Thomas, Cincinnati, Ohio, assignors to Pollard & Metcalfe, Limited, Silsden, England. Fire-lighter machine.	708,073	Sept. 2 131	32.33	100	2000	
Pollard, Fred, Jr., Cleveland, Ohio. Show-case.	710,998	Oct. 14 1133	250	101	248	
Pollard, Frederick, Cleveland, Ohio. Show-case.	694,887	Mar. 11 1254	274	98	1995	
Pollard, Frederick, Cleveland, Ohio. Show-case.	699,811	May 13 1314	305	99	1458	
Pollard, James P., Silverlake, Wash. Rotary engine.	707,063	Aug. 12 1911	428	100	1323	
Pollard, John H., Centralia, Ill. Boiler-tube cutter.	709,509	Sept. 23 2932	659	100	2634	
Pollard & Metcalfe. (See Pollard, Collingwood, assignor.)						
Pollard & Metcalfe. (See Pollard, Edwin, assignor.)						
Pollard & Metcalfe. (See Pollard and Thomas, assignors.)						
Pollard & Metcalfe. (See Thomas, John R., assignor.)						
Pollard, Robert S., Pittsburg, Pa. Device for operating blast-furnace snort-valves.	694,988	Mar. 11 1255	274	98	1995	
Pollard, Willard L., Rozetta, Ill. Mitten.	694,188	Feb. 25 3771	833	98	1634	
Pollock, Henry G. (See Rebout, James M., assignor.)						
Polly, John B. (See Pratt and Polly.)						
Polmeter, Andrew J., Whitehall, assignor of two-thirds to J. Mitch and A. Q. Dygert, Butte, Mont. Precipitating copper from water.	699,009	Apr. 29 4968	.....	99	1121	
Polmeter, Andrew J., Whitehall, assignor of two-thirds to J. Mitch and A. Q. Dygert, Butte, Mont. Precipitant for treatment of copper-water.	702,244	June 10 1727	.....	99	2480	
Pomero, Paolo, Philadelphia, Pa. Tremolo piano.	715,560	Dec. 16 2348	518	101	2335	
Pomeroy, Eltwed, East Orange, N. J. Paste-holder.	711,120	Oct. 14 1378	300	101	300	



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Pomeroy, John, North Invercargill, New Zealand. Sheep-shears .....	713,343	Nov. 11	1713	386		101	1205
Pomeroy, John, North Invercargill, New Zealand. Hat-fastener .....	715,600	Dec. 9	1801	399	400	101	2321
Pomeroy, Seth T. (See Reynolds, Charles W., assignor.)							
Pomeroy, Silas H. (See Voigtmann and Pomeroy.)							
Pompe, Adnan A. (See Mahana, John B., assignor.)							
Pomraing, Max W., Parke, Pa. Potato-bug destroyer .....	715,690	Dec. 9	1959	438		101	2254
Poncioni, James. (See Pellettieri and Poncioni.)							
Pond, Edmund M., Rutland, Vt. Medicated tampon .....	706,778	Aug. 12	1515	336		100	1442
Pond, Norman W., Oskaloosa, Iowa. Harness-strap protector .....	710,511	Oct. 7	227	50		101	46
Pond, Oriando M., Independence, Iowa. Package-carrier .....	704,368	July 8	1876	406		100	336
Pons, Pierre. (See Adrot and Pons.)							
Ponthus, Prosper, and L. Therrode, Paris, France. Collimator-gyroscope for obtaining artificial horizons .....	705,702	July 29	4623	1002		100	995
Pool, Harley A., Lima, Ohio. Dumb-waiter .....	696,268	Mar. 25	3649	817		98	2520
Pool, Hugh E. (See Ramsey and Pool.)							
Pool, James P., Brooklyn, N. Y. Boat .....	690,231	May 6	180	43		99	1211
Poole, Arthur F., Wheeling, W. Va. Electric clock .....	708,253	Sept. 2	472	109	110	100	2077
Poole, Charles W., San Jose, Cal. Hydrocarbon-burner .....	696,591	Apr. 1	352	84		99	78
Poole, John W., Lynn, Mass., assignor to Poole Skiving Company, Kittery, Me. Leather-skiving machine .....	707,351	Aug. 19	2578	582	583	100	1681
Poole, Lemmon, assignor to Electrical Construction Supply Co., Springfield, Ohio. Electric light hanger .....	701,930	June 10	1152	264		99	2305
Poole, Samuel E., Randolph, Ohio. Starting means for explosive-engines .....	703,463	July 1	163	37		100	35
Poole Skiving Company. (See Poole, John W., assignor.)							
Poole, Staley D., assignor to Deere & Company, Moline, Ill. Fastening for harrow-teeth .....	691,660	Jan. 21	2433	547		98	542
Pooley, Peter, Chicago, Ill. Revolving broiler .....	694,889	Mar. 4	1063	235		98	1937
Poore, Margaretta E., assignor to R. Poore, Herne Hill, London, and W. Bradley, Wood Green, Middlesex, England. Combined shirt-front and braces .....	708,397	Sept. 2	717	160	161	100	2126
Poore, Richard, <i>et al.</i> (See Poore, Margaretta E., assignor.)							
Pope, Alfred T., <i>et al.</i> (See Heinig, Frederick E., assignor.)							
Pope, Charles E., Kaukauna, Wis. Reeling mechanism .....	692,474	Feb. 4	444	104		98	889
Pope, Charles H., Brockton, Mass. Door .....	693,440	Feb. 18	2310	506		98	1321
Pope, Curran, <i>et al.</i> (See Heinig, Frederick E., assignor.)							
Pope, Edward J. (See Mullen and Pope.)							
Pope, Frederick B., Augusta, Ga. Manufacture of seed products .....	699,010	Apr. 29	4969	1100		99	1121
Pope, Frederick B., Augusta, Ga. Apparatus for reducing seed-hulls .....	710,887	Oct. 7	924	202	203	101	188
Pope, Frederick B., Augusta, Ga., and G. D. Mims, Parksville, S. C.; said Mims assignor to said Pope. Forming elastic and yieldable material in bales of cubic or square shape .....	705,134	July 22	3400	738	739	100	737
Pope, Frederick B., Augusta, Ga., and G. D. Mims, Parksville, S. C.; said Mims assignor to said Pope. Apparatus for making cubic or square bales, &c. ....	705,135	July 22	3402	739	740	100	737
Pope, Harry M. (See Maxim and Pope.)							
Pope, Howard, Hollidaysburg, Pa. Eaves-trough hanger .....	707,941	Aug. 26	3783	848		100	1942
Pope, John C. and W. J., Plano, Ill. Forming joints for intersecting wires or rods .....	707,352	Aug. 19	2581	583		100	1681
Pope, John F., Chicago, Ill. Resilient spring for wheeled vehicles .....	713,917	Nov. 18	2815	625		101	1510
Pope Manufacturing Company. (See Copeland, James S., assignor.)							
Pope, Willie J. (See Pope, John C. and W. J.)							
Poppett, George E. (See Wheeler, Robert L., assignor.)							
Poppe, Oscar. (See Klic and Poppe.)							
Poppenhuisen, Herman A. (See Green, Gent, and Poppenhuisen.)							
Poppenhuisen, Herman A., Evanston, Ill. Furnace bridge-wall .....	697,657	Apr. 15	2475	529		99	534
Poppenhuisen, Herman A., Evanston, Ill. Fire-arch .....	697,658	Apr. 15	2477	529		99	534
Poppenhuisen, Herman A., Evanston, Ill. Automatic switch .....	705,786	July 29	4766	1084		100	1024
Poppenhuisen, Herman A., Chicago, Ill. Sprocket-wheel .....	712,205	Oct. 28	3489	765		101	768
Poppert, Jesse G., Milwaukee, Wis. Electrical gas-lighter .....	708,398	Sept. 2	718	161		100	2127
Popplewell, Felix K., Bronte, Tex. Nut-lock .....	701,101	July 8	1378	297		100	290
Porbeck, Otto, St. Louis, Mo. Dust-collector .....	691,485	Jan. 21	2120	475		98	476
Porch, James G., assignor to H. H. Ottens, Philadelphia, Pa. Combined faucet-holder and solder-retainer .....	713,344	Nov. 11	1714	387		101	1205
Porritt, Josiah, San Francisco, Cal. Thrust-bearing .....	706,779	Aug. 12	1516	336	337	100	1442
Port, George M. (See Brown, John W., assignor.)							
Portchester Chemical Company. (See Thurlow, Nathaniel, assignor.)							
Porteous, James. (See Willis and Porteous.)							
Porter, Albert B., Evanston, Ill. Series-multiple switch .....	698,136	Apr. 22	3284	719		99	744
Porter, Calvin A., West Williamsfield, Ohio. Evaporating-pan .....	714,740	Dec. 2	167	33	34	101	1870
Porter, Charles E. (See Porter, John R. and C. E.)							
Porter, David W., Sewickley, Pa. Hydraulic balanced valve .....	711,121	Oct. 14	1379	300		101	300
Porter, Edwin F., Boston, Mass., assignor to Bay State Electric Heat & Light Company, Jersey City, N. J. Apparatus for cooling and agitating air .....	702,994	June 24	3160	727		99	2814
Porter, Edwin F., Dorchester, assignor of two-thirds to A. G. Wellman, Winchester, and W. H. Bryant, Revere, Mass. Amusement apparatus .....	716,755	Dec. 23	4090	897	898	101	2738
Porter, Forest A., Chicago, Ill. Stringed musical instrument .....	690,463	Jan. 7	148	31		98	33
Porter, George, San Francisco, Cal. Oil-heating and heat-regulating device .....	713,345	Nov. 11	1716	387		101	1205
Porter, George, Manchester, N. H. Vehicle or cleaning hypodermic needles .....	715,290	Dec. 9	1214	260		100	2103
Porter, George J. (See Blackburn and Porter.)							
Porter, Gilbert B., St. Johns, Mich. Optical instrument for testing the eyes .....	712,719	Nov. 4	471	111		101	996
Porter, Harry C., Pittsburg, Pa. Horseshoe .....	696,695	Apr. 1	561	128		99	122
Porter, Harry T., and G. H. Beaumont, assignors of one-third to W. T. Moore, Cleveland, Ohio. Bucket-dumping device for steam-shovels .....	702,473	June 17	2158	492		99	2590
Porter, Henry H., Dowagiac, Mich. Bearing .....	705,893	July 29	4902	1066		100	1022
Porter, Henry H., Dowagiac, Mich. Vehicle-axle and axle-box .....	702,834	July 29	4903	1066		100	1033
Porter, Henry T., Pittsburg, Pa. Railway-track appliance .....	714,820	Dec. 2	334	73		101	1905
Porter, James A., assignor of two-thirds to J. L. Beesley and E. Stone, Crawfordsville, Ind. Rotary engine .....	702,474	June 17	2160	492	493	99	2590
Porter, John B. (See Emig, Jacob, assignor.)							
Porter, John R. and C. E., Philbrook, Mont. Fertilizer-spreader .....	716,934	Dec. 30	4550	987	988	101	2860
Porter, Joseph E., Ottawa, Ill. Express-car .....	694,494	Mar. 4	287	65	66	98	1773
Porter, Joseph Y., Detroit, Mich. Bicycle handle-bar .....	698,137	Apr. 22	3285	720		99	744
Porter, Joseph Y., Detroit, Mich. Electric switch-actuator .....	712,845	Nov. 4	719	166		101	1046

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Porter, Louis E. (See Seeman, John J., assignor.)						
Porter, Major D., assignor to C. F. Jewett, trustee, New York, N. Y. Steering and controlling device for road-vehicles	704,102	July 8	1379	297	100	290
Porter, Nicholas E., London, England. Derrick for loading or unloading vessels	714,328	Nov. 25	3645	833	101	1700
Porter, Robert, Ottumwa, Iowa. Buckle	703,464	July 1	164	38	100	35
Porter, Robert L., Philadelphia, Pa. Croquette-mold	704,920	July 15	2938	630	100	632
Porter Safety Seal Company. (See Abbott, Harry W., assignor.)						
Porter, Samuel P. (See Livingstone, William, assignor.)						
Porter, William H., Jr., Ponca, Nebr. Fire-escape	715,691	Dec. 9	1962	439	101	2235
Porter, Wilson E., assignor to New Haven Clock Company, New Haven, Conn. Stem-winding watch	705,703	July 29	4637	1002	100	995
Porterfield, John C., Columbus, Ohio. Dog-crate	700,817	May 27	3346	708	99	1915
Porterfield, John C., Columbus, assignor to H. S. Mitchell, London, Ohio. Hand-trap	706,342	Aug. 5	678	147	100	1253
Portland Engine Company. (See Tree, Eber B., assignor.)						
Portman, Giles M., Westline, Pa. Making retort-rakes	702,821	June 17	2814	647	99	2726
Portman, Gustave N., Peoria, Ill. Releasing-trap	693,001	Feb. 25	3212	708	98	1523
Porto-Riche, Edgard de, Paris, France. Steam-generator	709,926	Sept. 30	3748	844	100	2811
Poschmann, Georg, Pittsburg, Pa. Curtain-pole	699,971	May 13	1641	376	99	1526
Possey, William A., Atlanta, Ga. Fireplace fixture	714,517	Nov. 25	3977	881	101	1765
Posner, Charles H. (See Scognamiglio and Posner.)						
Posson, Edward, assignor of one-half to A. Lovell, St. Paul, Minn. Car-brake	714,236	Nov. 25	3470	763	101	1665
Post, Charles B., New London, Ohio. Gib-and-key device	709,510	Sept. 23	2954	659	100	2635
Post, Charles B., New London, assignor to J. F. Laning, Norwalk, Ohio. Numbering-machine	711,590	Oct. 21	2294	500	101	507
Post, Claude L., Chicago, Ill. Calendar	704,208	July 8	1580	341	100	331
Post, Elisha A., Allegan, Mich. Mold for making paper-board burial-caskets	708,075	Sept. 2	143	35	100	2010
Post, Ezra L., New York, N. Y. Saw-tool	712,846	Nov. 4	722	166	101	1046
Post, Friedrich G. J., Hamburg, Germany. Copying-paper roll	695,488	Mar. 18	2145	484	98	2198
Post, Friedrich G. J., Hamburg, Germany. Writing or copying pad	707,942	Aug. 26	3784	849	100	1942
Post, John H., assignor, by mesne assignments, to Leader Manufacturing Company, Hartford, Conn. Embroidery frame and holder	707,353	Aug. 19	2582	583	100	1681
Post, John T. (See Parks, Leonard D., assignor.)						
Post, William L., assignor of one-third to J. Cohen, Paterson, N. J. Stop-motion for ribbon-looms	699,112	Apr. 29	5134	1135	99	1154
Postal Typewriter Company. (See Quantell, William P., assignor.)						
Postlethwaite, Edward T. (See Fairchild, Charles E., assignor.)						
Postlethwaite, Robert H., assignor to Ridsdon Iron and Locomotive Works, San Francisco, Cal. Excavating mechanism for dredgers	692,090	Jan. 28	3136	706	98	701
Postlethwaite, Robert H., assignor to Ridsdon Iron and Locomotive Works, San Francisco, Cal. Auxiliary cutter for gold-dredgers	696,078	Mar. 25	3249	735	98	2437
Postlethwaite, Robert H., assignor to Ridsdon Iron and Locomotive Works, San Francisco, Cal. Distributor for gold-separators	697,748	Apr. 15	2542	566	99	569
Postley, Arthur, New York, N. Y. Device for stopping or closing gas-mains	708,076	Sept. 2	144	35	100	2011
Potdevin, Adolph. (See Widmayer, Toepel, and Potdevin.)						
Pothe, George S., Dallas Center, Iowa. Apparatus for carrying mail-matter	705,440	July 22	4059	880	100	872
Potocki, August. (See Bourhanovsky and Kowanko, assignors.)						
Pott, Gideon, and K. Williamson, Motherwell, Scotland. Driving centrifugal or other machines by means of electric motors	712,847	Nov. 4	723	167	101	1047
Potter, Albutus D. (See Dennis, Potter, and Ellis.)						
Potter, Alfred R., Philadelphia, Pa. Salting peanuts	713,918	Nov. 18	2817	98	101	1510
Potter, Carroll, Philadelphia, Pa. Buttonhole-bouquet holder	693,150	Feb. 11	1748	363	98	1182
Potter, Carroll, Philadelphia, Pa. Apparatus for casting lead	694,418	Mar. 4	160	36	98	1747
Potter, Charles H., assignor of one-half to F. McCann, New Bedford, Mass. Carding-machine	695,834	Mar. 18	2794	637	98	2330
Potter, Duane L., Clifford, Pa. Means for attaching collars or pulleys to shafting	714,605	Nov. 25	4146	917	101	1801
Potter, Duane L., Clifford, Pa. Smoke-conductor	714,606	Nov. 25	4148	917	101	1802
Potter, Edson, Greensburg, Ind. Fly-trap	705,469	July 29	3075	1106	100	1067
Potter, Edson, Greensburg, Ind. Mowing-machine	712,960	Nov. 4	4150	218	101	1089
Potter, Frank M. (See Beust and Potter.)						
Potter, Frederic D., Linden, N. J., and R. D. Jeffreys, New Windsor, N. Y. Superheater	716,100	Dec. 16	2814	619	101	2457
Potter, Henry N., Göttingen, Germany, assignor to G. Westinghouse, Pittsburg, Pa. Insulating compound	694,989	Mar. 11	1257	98	98	1996
Potter, Henry N., Göttingen, Germany, assignor to G. Westinghouse, Pittsburg, Pa. Electric glow-lamp	696,380	Mar. 25	3904	866	98	2571
Potter, Henry N., assignor to G. Westinghouse, Pittsburg, Pa. Heater-wire support for electric lamps and making same	695,946	Mar. 25	2996	678	98	2385
Potter, Henry N., assignor to G. Westinghouse, Pittsburg, Pa. Treating ballast-wires for electric lamps	699,232	May 6	183	99	99	1211
Potter, Henry N., assignor to G. Westinghouse, Pittsburg, Pa. Mercury-vapor lamp	707,975	Aug. 26	3841	863	100	1853
Potter, Henry N., assignor to G. Westinghouse, Pittsburg, Pa. Mercury-vapor lamp	707,976	Aug. 26	3843	863	100	1853
Potter, Henry N., assignor to G. Westinghouse, Pittsburg, Pa. Mercury cut-out	714,907	Nov. 25	999	918	101	1802
Potter, Henry N., New Rochelle, N. Y., assignor to G. Westinghouse, Pittsburg, Pa. Electric furnace	715,505	Dec. 9	1621	351	101	2184
Potter, Henry N., New Rochelle, N. Y., assignor to G. Westinghouse, Pittsburg, Pa. Electric furnace	715,506	Dec. 9	1623	351	101	2185
Potter, Henry N., New Rochelle, N. Y., assignor to G. Westinghouse, Pittsburg, Pa. Tubular electric furnace	715,507	Dec. 9	1624	352	101	2185
Potter, Henry N., New Rochelle, N. Y., assignor to G. Westinghouse, Pittsburg, Pa. Electric furnace	715,508	Dec. 9	1625	352	101	2185
Potter, Henry N., New Rochelle, N. Y., assignor to G. Westinghouse, Pittsburg, Pa. End support and circuit-terminal for carbon-tube furnaces	715,509	Dec. 9	1626	352	101	2186
Potter, Henry N., Berlin, and W. Nernst, Göttingen, Germany, assignors to G. Westinghouse, Pittsburg, Pa. Glow-lamp for electric lamps	717,022	Dec. 30	4729	1025	101	2898
Potter, James C., and J. Johnston, assignors to Potter and Johnston Machine Company, Pawtucket, R. I. Chuck-operating device	694,189	Feb. 25	3773	834	98	1634
Potter, James C., and J. Johnston, assignors, by mesne assignments, to Potter and Johnston Machine Company, Pawtucket, R. I. Lathe-chuck. (Reissue)	12,068	Dec. 23	4391	951	101	2511
Potter, John A., Camden, N. J. Manufacture of pig-iron	693,062	Feb. 11	1552	339	98	1145



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Potter, John A., Cleveland, Ohio. Treating ores or similar materials	698,313	Feb. 11	2064	451 452	98	1240
Potter, John A., Philadelphia, Pa. Slag-heating apparatus	709,112	Sept. 16	2118	486	100	2447
Potter, John A., and W. C. Harvie, Monterey, Mexico. Treating matters	710,300	Sept. 30	4456	1005	100	2962
Potter and Johnston Machine Company. (See Potter and Johnston, assignors.)						
Potter and Johnston Machine Company. (See Potter and Johnston, assignors.) (Re-issue.)						
Potter, Joseph L., and H. E. Cohen, Indianapolis, Ind. Convertible wagon or sled	702,677	June 17	2548	585	99	2670
Potter, Joseph W. (See Rickel and Potter.)						
Potter, Millard F., St. Paul, Minn. Milk-pail attachment	708,582	Sept. 9	1041	235	100	2203
Potter, Oscar, Indianapolis, Ind. Hammock	717,119	Dec. 30	4902	1061	101	2934
Potter, Robert. (See Grundy, Thomas, assignor.)						
Potter, Thomas O., Deadwood, S. D., assignor to J. E. Maynadier, Boston, Mass. Passenger-car	696,190	Mar. 25	3500	784	98	2489
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Collector for surface-contact railways	691,808	Jan. 28	2744	619 620	98	622
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Electric controller	691,809	Jan. 28	2746	620	98	623
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Electric railway system	691,810	Jan. 28	2749	620	98	624
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Controller for electric motors	697,012	Apr. 8	1208	270 271	99	275
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Electric railway	697,013	Apr. 8	1213	271	99	276
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Controlling device for electric motors	697,749	Apr. 15	2543	566	99	569
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic switch for surface-contact electric-railway systems	705,136	July 22	3410	741	100	739
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Electric switch	705,137	July 22	3414	742	100	740
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Blow-out magnet	705,138	July 22	3418	742	100	741
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Electric railway	706,106	Aug. 5	192	40	100	1156
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Electric-railway system	710,072	Sept. 30	4025	908	100	2869
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. System of motor control	712,589	Nov. 4	244	60	101	948
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Commutator-brush	712,591	Nov. 4	246	61	101	949
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Electric-railway system	712,961	Nov. 4	948	218 219	101	1089
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Surface-contact structure	713,015	Nov. 4	1027	210	101	1106
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Electric-railway system	713,016	Nov. 4	1028	240	101	1106
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Starting rotary converters	714,395	Nov. 25	3753	829	101	1722
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. System of control for electrically-propelled vehicles	715,291	Dec. 9	1216	261	101	2104
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Electric railway	716,101	Dec. 16	2817	620	101	2457
Potter, William B., and E. M. Hewlett, Schenectady, N. Y., assignors to General Electric Company. End-play device for rotary machines	712,590	Nov. 4	247	60	101	949
Potter, William M., assignor to E. C. Stearns & Co., Syracuse, N. Y. Drill	691,486	Jan. 21	2121	476	98	476
Potter, William W., Pawtucket, R. I. Window-fastener	706,595	Aug. 12	1158	257	100	1365
Pottin, Henry, and L. Moussier, Paris, France. Cash-register	713,490	Nov. 11	1966	444 445	101	1318
Pottlitzer, Herman, et al. (See Headson, Frank A., assignor.)						
Pottlitzer, Julius, et al. (See Headson, Frank A., assignor.)						
Pottlitzer, Leo, et al. (See Headson, Frank A., assignor.)						
Pottlitzer, Max, et al. (See Headson, Frank A., assignor.)						
Ports, Charles E., Taylorville, Ill. Cream-separator	715,692	Dec. 9	1964	439	101	2255
Potvliet, Michel, Amsterdam, Netherlands. Water-sealed air-pump	705,704	July 29	4627	1002	100	996
Pouille, Charles D., Versoix, Switzerland. Seeding-machine	717,268	Dec. 30	5200	1131	101	3001
Pouleux and Wells. (See Wells, Charles G., assignor.)						
Poulson, Britton, Fort Wayne, Ind. Washing-machine	698,222	Apr. 22	3450	758	99	781
Poulson, Nestor, Brooklyn, N. Y. Slab or tile for building purposes	707,425	Aug. 26	3131	704	100	1812
Poulson, Peter, assignor to S. Mayer and W. F. Corey, Chicago, Ill. Motor-vehicle	713,301	June 24	3713	855 856	99	2921
Poulson, William G., New York, N. Y. Rope-guide	711,786	Oct. 21	2678	590	101	588
Pounder, George H., Fort Atkinson, Wis. Harrow	692,342	Feb. 4	217	52	98	844
Powell, Charles W., Green Island, N. Y. Brake mechanism for railway-cars	740,818	May 27	3348	768 769	99	1916
Powell, Edward J. W., et al. (See Eynon, John, assignor.)						
Powell, George G. (See Bogardus, Collis, and Powell.)						
Powell, George G. (See Collis and Powell.)						
Powell, George G., New York, N. Y. Dredging apparatus	708,583	Sept. 9	1042	236 237	100	2203
Powell, James, Cincinnati, Ohio. Globe-valve	713,145	Nov. 11	1283	291	101	1178
Powell, James P., assignor of one-half to K. Bell, Limestone, Fla. Adjustable plow-bar	691,323	Jan. 14	1799	409	98	390
Powell, Joseph H. (See Reeves, Albert S., assignor.)						
Powell, Joseph M., Orestes, Ind. Gas, oil, and water separator	708,819	July 1	826	182	100	105
Powell, Joseph W., Farnhamville, Iowa. Detachable deck for marine vessels	713,797	Nov. 18	2578	575	101	1460
Powell, Juhus W., Cherryvale, Kans. Churn	702,995	June 24	3161	727	99	2814
Powell, Myron H., et al. (See Hatch, Edward P., assignor.)						
Powell, Myron H., assignor, by mesne assignments, to himself, Union Special Sewing Machine Company, Chicago, and E. P. Hatch, Lagrange, Ill. Tape inserting and stitching mechanism	707,004	Aug. 12	1913	429	100	1523
Powell, Myron H., assignor, by mesne assignments, to himself, Union Special Sewing Machine Company, Chicago, and E. P. Hatch, Lagrange, Ill. Machine for inserting tape into edging	707,005	Aug. 12	1914	429	100	1524
Powell, Noah M., assignor of one-half to W. A. Shumate, Quincy, Ill. Turn-table for motor-fans	696,191	Mar. 25	3501	784	98	2489
Powell, Richard J., and W. H. Vaughan, assignors of one-third to I. E. Rose, Dallas, Tex. Buttonhole and button location marking machine	711,175	Oct. 14	1506	324	101	329

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Powell, Robert J., et al. (See Waters, Frederick R., assignor.)						
Powell, William G., assignor to E. O. Locke, Jacksonville, Fla. Calculating-machine	701,611	June 3	594	130 131 130 131	99	2232
Powell, William R., assignor of one-half to C. Wood, Wheeling, W. Va. Filter	704,921	July 15	2940	630 631	100	632
Poyser, Edward H. (See Svensson, John D., assignor.)						
Poyer, William M., Montclair, N. J., assignor to Pan-American Motor Company, New York, N. Y. Vaporizing-carbureter	713,146	Nov. 11	1285	291	101	1178
Poyer, William M., Montclair, N. J., assignor to Pan-American Motor Company, New York, N. Y. Internal-combustion engine	713,147	Nov. 11	1287	291 292	101	1178
Powers, Curtis. (See Somers and Powers.)						
Powers, Elias W., Chicago, Ill. Hoof-pad	710,969	Oct. 14	1134	250	101	249
Powers, Francis W. (See Hoffman and Powers.)						
Powers, James, assignor of one-half to N. I. Stone, New York, N. Y. Bread or cake box	690,874	Jan. 7	952	214	98	290
Powers, John A. (See Coleman, George P., assignor.)						
Powers, John J. (See Cluff, George A., assignor.)						
Powers, John L., Peoria, Ill. Washboiler	709,555	Sept. 23	3034	676	100	2651
Powers, Robert E., Johnstown, Pa. Car-truck	715,601	Dec. 9	1803	400	101	2221
Powers, Timothy B., New York, N. Y. Surgeon's operating-table	716,756	Dec. 23	4094	890	101	2739
Powers, William, Central City, Iowa. Harrow	702,475	June 17	2163	494	99	2590
Powers, William P., Chicago, Ill. Means for regulating the temperature of heating systems	710,901	Sept. 30	4458	1005 1006	100	2062
Powers, William T., Syracuse, N. Y. Steam-trap	713,148	Nov. 11	1290	262	101	1179
Poyner, Claud, Martin, Tenn. Fire-screen	706,596	Aug. 12	1160	257	100	1395
Poyser, John, Mansfield, England. Shuttle-motion for looms	715,602	Dec. 9	1804	401	101	2222
Practical Gas Construction Company. (See Tenney, Charles L., assignor.)						
Praglin, Julius. (See Slotkin, Mayer, assignor.)						
Prahar, Louis B., Brooklyn, N. Y. Chatelaine-hook	693,739	Feb. 18	2889	635	98	1440
Prahar, Louis B., Brooklyn, N. Y. Chatelaine-hook	703,820	July 1	827	182	100	166
Prahar, Louis B., Brooklyn, N. Y. Chatelaine-hook	703,821	July 1	829	182	100	166
Prahar, Louis B., New York, N. Y. Chatelaine-hook	703,822	July 1	831	182	100	166
Praha, Adolph P., Indianapolis, Ind. Ventilating-jack for lanterns	698,033	Apr. 22	3103	683	99	708
Prall, Julia L. (See Prall, William E., assignor.)						
Prall, William E., assignor to J. L. Prall, New York, N. Y. Impact-engine	713,798	Nov. 18	2579	575 576	101	1461
Prampolini, William, San Luis Potosi, Mexico. Composition of matter and preparation of same	702,678	June 17	2549		99	2671
Prat, Augustin, Lyons, France. Apparatus for heating liquid or gaseous bodies under pressure	710,608	Oct. 7	407	84	101	81
Pratt, Albert B., Boston, Mass. Rod-packing	710,337	Sept. 30	4521	1019	100	2975
Pratt, Albert K., assignor to Whitin Machine Works, Incorporated, Whitinsville, Mass. Vibrator for warp stop-motions	697,169	Apr. 8	1476	331	99	333
Pratt, Alexander W., North Jay, Me., assignor of one-half to Venable Brothers, Atlanta, Ga. Raising sheets of stone	703,302	June 24	3716	856	99	2924
Pratt, Allison A., New York, N. Y., assignor to F. D. Warner, New Carlisle, Ind. Incandescent gas-burner	703,083	June 24	3332	766	99	2947
Pratt, Charles C., Kansas City, Kans., assignor of two-thirds to H. W. Merrill, Kansas City, Mo., and J. E. Metcalf, Kansas City, Kans. Mitten	701,931	June 10	1154	265	99	2365
Pratt, Cyrus C., assignor of one-half to T. Holland, Portland, Oreg. Ore-separator	703,881	June 24	3334	767	99	2947
Pratt, Cyrus C., assignor of one-half to T. Holland, Portland, Oreg. Vanner	706,687	Aug. 12	1328	293 294	100	1403
Pratt, Daniel S. (See Pratt and Foster, assignors.)						
Pratt, Frank. (See Seyer and Pratt.)						
Pratt, Frank M. (See Erisman, Clem., assignor.)						
Pratt, Frank M., Decatur, Ill. Deodorizing	705,787	July 29	4770	1024	100	1025
Pratt, Frank M., Decatur, Ill. Deodorizing	707,354	Aug. 19	2583	383	100	1682
Pratt, Harold H. (See Wislom, George P., assignor.)						
Pratt, Harry, Kenilworth, Ill. Appliance for swimmers	690,665	Jan. 7	568	124	98	122
Pratt, Harry, Kenilworth, Ill. Railway signaling device	708,390	Sept. 2	719	162 163	100	2127
Pratt, Jefferson M., and J. B. Polly, Elkton, Colo. Lantern attachment for dinner-pails	710,888	Oct. 7	926	203	101	188
Pratt, John C., assignor of one-half to A. L. Foster, Hartford, Conn. Expansible pulley	698,854	Apr. 29	4708	1037 1038	99	1067
Pratt, John C., assignor of one-half to A. L. Foster, Hartford, Conn. Bicycle construction	702,743	June 17	2565	613 614	99	2604
Pratt, Joseph, McKeesport, Pa. Sewer-trap	710,200	Sept. 30	4306	968	100	2380
Pratt & Lecherworth Company. (See Bradley and Gilbert, assignors.)						
Pratt, Leverett A., Bay City, Mich. Post	700,234	May 20	2190	501	99	1659
Pratt, Louis L. (See Wheeler and Pratt.)						
Pratt, Nathaniel P., Atlanta, Ga. Manufacturing sulfuric acid	715,142	Dec. 2	945	203	101	2629
Pratt, Philip W., Boston, Mass. Crutch, cane, &c.	710,074	Sept. 30	4028	908	100	2870
Pratt, Philip W., Boston, and R. E. Foster, Revere, assignors to D. S. Pratt, Brookline, Mass. Elastic tip	710,073	Sept. 30	4026	908	100	2870
Pratt, Robert J. (See Magee, William V., assignor.)						
Pratt & Whitney Company. (See Gordon, Frederick W., assignor.)						
Pratt & Whitney Company. (See Hanson, Bengt M. W., assignor.)						
Pratt & Whitney Company. (See Hanson and Gordon, assignors.)						
Pratt, William H., Lynn, Mass., assignor to General Electric Company. Electric meter	712,090	Oct. 28	3290	721	101	730
Pratt, William H., Lynn, Mass., assignor to General Electric Company. Ground-detector	713,346	Nov. 11	1717	387	101	1266
Pratt, William W., Chicago, Ill. Automatic air-moistening apparatus	697,659	Apr. 15	2380	530	99	535
Prawatke, August, Dresden, Germany. Apparatus for drying vegetables, fruits, &c.	708,781	Sept. 9	1417	326 327	100	2282
Pray, Philander W., San Francisco, Cal. Umbrella drip-cup	703,823	July 1	832	183	100	166
Preble, James H. (See Denton and Preble.)						
Preble, George L., Lynn, Mass. Machine for chamfering and feather-edging soles	693,902	Feb. 25	3213	709	98	1523
Preble, Winfield S. (See Bott, William W., assignor.)						
Prebyl, Frank L. (See Ott and Prebyl.)						
Precision Eyelet Company. (See McCormack, George E., assignor.)						
Predmore, Walter. (See Riehl, Amos, assignor.)						
Prefontaine, Hermenegil. (See Vautour and Prefontaine.)						
Preinel, William. (See Weiler, Louis G., assignor.)						
Preisler, Ernst. (See Ruth and Preisler.)						
Prellwitz, William. (See Sergeant and Prellwitz.)						
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Sergeant Drill Company, New York, N. Y. Regulator for air-compressors	710,712	Oct. 7	600	125 126	101	123



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Prellwitz, William, Easton, Pa., assignor to Ingersoll-Sergeant Drill Company, New York, N. Y. Rock-drilling machine .....	710,922	Oct. 7	986	217	101	201
Premier Manufacturing Company. (See McCue, Charles T., assignor.)						
Prendergast, Daniel J., New York, N. Y., and V. H. Slinack, Philadelphia, Pa. Mantle for incandescent burners .....	697,361	Apr. 8	1804	404	99	404
Prenterzast, William F. (See Breen, Cornelius M., assignor.)						
Prentice, Frederick, Deercreek, Minn. Butter-packer .....	710,338	Sept. 30	4822	1019	100	2975
Prentice, John P., and R. G. Gregory, Barberton, Ohio, assignors to Stirling Company, Chicago, Ill. Turbine fue-cleaner .....	704,890	Mar. 4	1064	235	98	1937
Prentice, Thomas, New Britain, Conn. Saw-guide .....	708,254	Sept. 2	480	110	100	2078
Prentiss, Charles W., assignor to Goodell Company, Antrim, N. H. Fruit-knife .....	703,085	June 24	3336	767	99	2848
Prentiss, Samuel R. (See Bragdon, Charles M., assignor.)	706,107	Aug. 5	195	40	100	1157
Prentiss Vise Co. (See Zimmerman, Eli, assignor.)						
Prentiss Vise Company. (See Bingham, Charles D., assignor.)						
Prescott, Arthur T., Arlington, Mass. Amusement device .....	712,407	Oct. 28	3848	843	101	847
Prescott, Clay S., Menominee, Mich., assignor of one-half to D. Clint Prescott Co. Steam set-works .....	694,780	Mar. 4	860	189	98	1593
Prescott, De Witt C., Chicago, Ill., assignor to R. F. Barker and M. Corry, Marinette, Wis. Steam set-works for sawmills .....	708,829	Sept. 9	1537	352	100	2308
Prescott, Edwin, Arlington, Mass. Stanchion .....	699,411	May 6	543	125	99	1286
Prescott, Henry A. (See Prescott, Thomas D., J. C., and H. A.)						
Prescott, J. Edward. (See Rounds, Charles H., assignor.)						
Prescott, James C. (See Prescott, Thomas D., J. C., and H. A.)						
Prescott, Joseph D., Boston, assignor of two-thirds to C. N. Bacon, Winchester, and A. W. Griffith, Schenectady, Mass. Clamping device for vehicle-wheel tires .....	694,925	Feb. 25	4079	908	98	1690
Prescott, Lewis E., New York, N. Y. Elevator-stop .....	716,473	Dec. 23	3553	776	101	2623
Prescott, Thomas D., Philadelphia, J. C. and H. A. Prescott, Minersville, assignors of two-fifths to J. H. Closson and H. Bell, Philadelphia, Pa. Rotary engine .....	709,242	Sept. 16	2375	539	100	2499
Prescott, Thomas D., Philadelphia, J. C. and H. A. Prescott, Minersville, assignors of one-fifth to H. Bell, Philadelphia, Pa. Compressed-air reservoir .....	710,889	Oct. 7	928	203	101	189
Preslar, Charles F., assignor to Preslar-Crawley Manufacturing Co., Cincinnati, Ohio. Sealing device for tubular wells .....	699,848	May 13	1401	324	99	1477
Preslar, Charles F., assignor to Preslar-Crawley Manufacturing Co., Cincinnati, Ohio. Apparatus for sinking tubular wells .....	699,849	May 13	1402	324	99	1477
Preslar-Crawley Manufacturing Co. (See Preslar, Charles F., assignor.)						
Pressed Prism Plate Glass Company. (See Wadsworth, Frank L. O., assignor.)						
Pressed Steel Car Company. (See Ditchfield, Frank, assignor.)						
Pressed Steel Car Company. (See Hansen, John M., assignor.)						
Pressed Steel Car Company. (See Irvin, Harry B., assignor.)						
Pressed Steel Car Company. (See Müller, Ejnar J., assignor.)						
Pressler, Susie E., Toledo, Ohio. Safety attachment for trolley-car vestibules .....	705,705	July 29	4628	1003	100	996
Preston, Albert F., East Boston, Mass. Pulling-over machine .....	693,620	Feb. 18	2668	589	98	1934
Preston, Charles F., Chicago, Ill. Tool-holder .....	699,708	May 13	1114	261	99	1417
Preston, Delmer E., and W. H. Atkinson, assignors of one-fourth to A. N. Benn, Omaha, Nebr. Scraper .....	695,231	Mar. 11	1714	380	98	2090
Preston, Edwin J., Beckenham, and A. B. Gill, Blackheath Park, England. Device for operating electric lights in railway-carriages from the guard's van .....	699,412	May 6	546	126	99	1287
Preston Hose and Tire Company. (See Beck, William, assignor.)						
Preston Hose and Tire Company. (See Beck and Preston, assignors.)						
Preston, James, Joliet, Ill. Trolley-wheel .....	701,085	May 27	3835	880	99	2016
Preston, James F. (See Beck and Preston.)						
Preston, Lewis C., Weston, Oreg. Drill-coupling .....	715,861	Dec. 16	2345	519	101	2356
Preston, Percy C., Denison, Tex. Reed-organ .....	715,698	Dec. 9	1965	1441	101	2355
Preston, Reginald W. (See Hogarth, John M., assignor.)						
Preston, William H., Valley Junction, Wis. Seal-lock .....	714,027	Nov. 19	3924	673	101	1554
Preston, William B., Chicago, Ill. Electric massage-roller .....	693,063	Feb. 11	1354	339	98	1145
Prestrich, John A., Tottenham, England. Internal-combustion engine .....	710,302	Sept. 30	4461	1006	100	2963
Presun, Fritz. (See Boettcher, Hermann, assignor.)						
Prevatt, Simeon F. (See Van Houten and Prevatt.)						
Prevost, Honore, Montreal, assignor to H. Aylmer, Sherbrooke, Province of Quebec, Canada. Life-preserver .....	697,362	Apr. 8	1804	404	99	404
Price, Birt L., et al. (See Buchanan, William A., assignor.)						
Price, Charles W., Shorncliffe, England. Word-counter .....	710,890	Oct. 7	980	203	101	189
Price and Co., G. H. (See Edenborough, Harold, assignor.)						
Price, Corwin T., Washington, D. C. Tooth brush and powder cabinet .....	692,708	Feb. 4	871	199	98	977
Price, Corwin T., Washington, D. C., assignor to Nedo Company. Tooth brush and powder cabinet .....	709,927	Sept. 30	3750	846	100	2811
Price, Dayton. (See Crumpton and Price.)						
Price, George H., et al. (See Allen, James M., assignor.)						
Price, George W., assignor of one-half to G. E. Harpham, Los Angeles, Cal. Wrench .....	692,709	Feb. 4	872	199	98	977
Price, John, Lafayette, La. Rail-joint .....	715,143	Dec. 2	947	204	101	2080
Price, Jonathan D., Aurora, assignor to Miller Signal Company, Chicago, Ill. Railway-signal .....	709,940	Sept. 16	1971	451	100	2414
Price, Jonathan D., Aurora, assignor to Miller Signal Company, Chicago, Ill. Railway-signal .....	709,243	Sept. 16	2376	539	100	2500
Price, Jonathan D., and A. C. Miller, Aurora, Ill. Train-controlling apparatus .....	705,291	July 22	3747	814	100	808
Price, Joseph H., New Rockford, N. D. Shoe-protector .....	702,176	June 17	2165	494	99	2391
Price, Leonidas H., Indianapolis, Ind. Saw-set .....	691,072	Jan. 14	1330	300	98	292
Price, Milbert F., Iowa City, Iowa. Collar-button-vending apparatus .....	712,962	Nov. 4	944	219	101	1090
Price, Orrin J., Detroit, Mich. Apparatus for manufacturing and dispensing carbonated beverages .....	716,174	Dec. 23	3555	1776	101	2624
Price, Raymond B. (See Kinney and Price.)						
Price, Raymond B., Chicago, Ill. Rubber vehicle-tire .....	690,604	Jan. 7	455	98	98	98
Price, Raymond B., Chicago, Ill. Reclaiming rubber from vulcanized-rubber waste .....	693,151	Feb. 11	1749	383	98	1182
Price, Richard H., Booneville, Miss. Sash lock and lift .....	703,465	July 1	165	38	100	35
Price, Theodore H., New York, N. Y., assignor to Century Milk Company, New York, N. Y., and Jersey City, N. J. Delivery-wagon .....	692,543	Feb. 4	581	136	98	916
Price, Thomas J. (See Young, Richard L., assignor.)						
Price, Thomas M., assignor of one-half to J. S. Richard, Itasca, Tex. Nut-lock .....	693,805	Feb. 18	3003	664	98	1463
Price, Walter H., assignor to Stall & Dean Manufacturing Company, Brockton, Mass. Striking-bag .....	690,605	Jan. 7	456	98	98	98
Price, William A. (See Anderson, James A., assignor.)						
Price, William G., Kingston, N. Y., assignor to Columbia Brake & Supply Company, Chicago, Ill. Brake for vehicles .....	696,653	Apr. 1	466	108	99	100

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Price, William G., Kingston, N. Y., assignor to Columbia Brake & Supply Company, Chicago, Ill. Brake for vehicles	696,654	Apr. 1	472	100 110	99	102
Prickman, Robert J. (See Adams, William P. C., assignor.)						
Priddat, Ernst F., Chicago, Ill. Tie-fastener	712,408	Oct. 28	3853	844	101	848
Prideaux, Lewis, Philadelphia, Pa. Sash-curtain rod	698,223	Apr. 22	3451	738	99	781
Prideaux, Lewis, Philadelphia, Pa. Thill-coupling	713,919	Nov. 18	2817	625	101	1510
Pridmore, Henry E., Chicago, Ill. Machine for making sand molds	693,441	Feb. 18	2311	507	98	1321
Pridmore, John W. (See Benjamin an Pridmore.)						
Pridmore, John W., Chicago, Ill. Grain-binder	697,750	Apr. 15	2547	567	99	570
Pridmore, John W., and W. Webber, assignors to McCormick Harvesting Machine Co., Chicago, Ill. Harvester	712,409	Oct. 28	3854	844 845	101	848
Pridmore, John W., and B. R. Benjamin, Chicago, Ill., assignors to McCormick Harvesting Machine Company. Machine for harvesting corn	713,292	Dec. 9	1227	262	101	2107
Priebe, Herman C., Bradford, assignor of one-half to F. J. Reichmann, Chicago, Ill. Draft-rigging	703,607	July 1	409	95, 96	100	81
Pries, George H., New York, N. Y. Leveling instrument	701,612	June 3	597	131	99	2233
Pries, Hernian. (See Williams and Pries.)						
Priest, Edward D., and G. L. Schermerhorn, Schenectady, N. Y., assignors to General Electric Company. Commutator	695,488	Apr. 1	171	41	99	41
Priest, Louis, Flint, Mich., assignor to T. W. Whitney, St. Louis, Mo., and C. N. Morse, Flint, Mich. Vehicle-box	691,661	Jan. 21	2435	548	98	542
Price, Charles W., Sharon, Tenn. Harvester-reel	697,274	Apr. 8	1662	372	99	373
Priestman, Frederick, Burlington, Iowa. Composition for removing paint or varnish	705,139	July 22	3429	742	100	742
Prieto, Manuel, Mexico, Mexico. Machine for disintegrating fibrous plants	705,140	July 22	3429	742 743	100	742
Prieur, Joseph A. P., and L. J. M. Dubois, Puteaux, France. Photographic camera	694,573	Mar. 4	462	99	98	1811
Prime, Robert A. (See Geyer and Prime.)						
Prince, Charles O., assignor of one-half to G. M. Hedrick, Canton, Ohio. Trolley-guard	714,608	Nov. 25	4153	918	101	1802
Prince, John A., New York, N. Y. Bronze-mill	703,466	July 1	166	38, 39	100	35
Prince, Siegmund. (See Klinger and Reynolds, assignors.)						
Prindle, Corydon L., Evanston, Ill. Periodical-file	708,169	Sept. 2	322	77	100	2047
Prindle, John J., Colorado City, Colo. Barrel-filter	712,963	Nov. 4	945	219	101	1091
Prinke, Carl H., Baltimore, Md. Lithographic process	691,661	Mar. 4	463	99	98	1811
Printer, Roller Washing Machine Company. (See Crump, Samuel, assignor.)						
Prize, George, Aachen, Germany. Needle-threader	698,855	Apr. 29	4710	1038	99	1067
Prinz, William H., Chicago, Ill. Test-scale for maltsters	694,781	Mar. 4	862	190	98	1894
Prinz, William H., Chicago, Ill. Testing barley and malt	694,782	Mar. 4	864	191	98	1894
Prinzhorn, Hermann, Halle-on-the-Saale, Germany. Construction of bridges	713,644	Nov. 15	2370	528	101	1415
Prior, John T., Priors, Ga. Rat-killer	710,576	July 15	2272	492	100	490
Prior, Matthew, Watertown, Mass. Window-operating mechanism for greenhouses	705,660	July 1	543	123	100	107
Proctor, E. K., et al. (See Jones, Frank H., assignor.)						
Prochard, Theodore J., Sunshine, La. Hollow grate-bar	691,970	Jan. 28	3033	681	98	682
Pritt, Romey W., Julia, W. Va. Combined lead and plumb	704,309	Sept. 2	723	162	100	2128
Privat, Abraham. (See Privat, Louis and A.)						
Privat, Louis and A., Oakpark, Ill. Arc-lighting system for alternating currents	694,190	Feb. 25	3774	834 835	98	1635
Prizer, Charles S., Reading, Pa. Fire-pot for stoves, &c	715,510	Dec. 9	1627	352	101	2186
Prizer, Harry A. (See Deckert, Mann, and Prizer.)						
Proben, Charles I., and G. Fischer, Jr., New York, N. Y. Massage device	693,064	Feb. 11	1555	340	98	1145
Probst, William F., Chillicothe, Ohio. Lubricating device for vehicle-wheels	717,209	Dec. 30	5210	1131	101	3001
Prochner, Jan, Fabianice, near Lodz, Russia. Turbine	713,920	Nov. 18	2819	626	101	1511
Proctor, Charles B., Indianola, Iowa. Foldable box	692,070	Jan. 23	3219	727	98	718
Proctor, Charles B., Indianola, Iowa. Berry-box	707,866	Aug. 26	3641	820	100	1912
Proctor, E. K., et al. (See Jones, Frank H., assignor.)						
Proctor, George A., and E. F. Carpenter, Janesville, Wis. Sliding door	707,367	Aug. 26	3133	705	100	1813
Proctor, Guy H., Somerville, assignor to New England Electric Manufacturing Company, Boston, Mass. Electric-incandescent-lamp socket	703,467	July 1	167	39	100	36
Proctor, William A., assignor of one-half to A. P. Grinnell, Lynn, Mass. Educational appliance	694,694	Jan. 7	569	124	98	122
Proffitt, Benjamin F., Loveland, Iowa. Animal-poke	691,875	Jan. 7	954	215	98	201
Proops, Joseph, and S. Hilsom, New York, N. Y. Match-lighter	714,028	Nov. 18	3026	673	101	1555
Proper, Llewellyn. (See Wall and Proper.)						
Proske, Theodore H., Victor, Colo. Sharpening-machine for drill-bits	692,796	Feb. 4	1035	232 233	98	1008
Proskey, Winfield S., Ocala, Fla. Oil-spraying apparatus	707,636	Aug. 26	3131	705	100	1812
Proskey, Winfield S., Ocala, Fla., assignor to Municipal Lighting Company. Hydrocarbon-vapor incandescent lamp	714,947	Dec. 2	615	129	101	1958
Pross, George F., and A. P. Tucker, assignors to E. H. Huenefeld, Cincinnati, Ohio. Wire-bending machine	707,006	Aug. 12	1916	429 430	100	1524
Protected Rail Bond Company. (See Englund, Axel H., assignor.)						
Protective Tread Company. (See Farmer, Theodore P., assignor.)						
Protheroe, Charles C., Richmond Hill, New York, N. Y. Ball-bearing slide	694,028	Feb. 25	2471	765	98	1575
Protheroe, Charles C., Richmond Hill, New York, N. Y. Reciprocating engine	694,076	Feb. 23	3560	796	98	1583
Prothier, Carl H., Rheinfelden, Germany. Apparatus for dispersing liquids or making spray	709,556	Sept. 23	3035	676	100	2391
Prouse, Alvin S. (See Richard, William, assignor.)						
Prouse, Ollie M., Tunis Mills, Md. Car-fender	706,851	Aug. 12	1653	370	100	1473
Prouty, Burt, and W. H. Budd, Jr., Columbus, Ohio. Cracker-stacking machine	708,255	Sept. 2	482	110 111	100	2079
Prouty Company, T. C. (See Prouty, Theodore C., assignor.)						
Prouty, Theodore C., Midland, assignor to T. C. Prouty Company, Limited, Albion, Mich. Door-hanger loop	699,564	May 6	813	191	99	1343
Provoost, John M., Buffalo, N. Y. Bicycle-saddle	701,391	June 3	189	41	99	2147
Provoost, Andrew J., Jr., Brooklyn, N. Y. Apparatus for the treatment of sewage	699,345	May 6	409	94	99	1257
Prowant, Ephriam C., Bellaire, Kans. Float-valve for drinking-troughs	717,450	Dec. 30	5328	1201	101	3067
Prowse, George R., Montreal, Canada. Grate	697,383	Apr. 15	2159	479	99	490
Prowse, James H. (See Stalton, Armstrong, and Prowse.)						
Pruden, Charles S., Rome, Ga. Nut-lock	695,489	Mar. 18	2146	484 485	98	2198
Pruden, Charles S., Rome, Ga. Boat	697,539	Apr. 15	2161	480	99	491
Pruden, Clarence D., St. Paul, Minn. Sheet-metal window	711,526	Oct. 21	2183	475	101	483
Pruden, Clarence D., St. Paul, Minn. Self-closing sash for fireproof windows	711,527	Oct. 21	2184	475	101	483
Prud'homme, Hector, Manchester, N. H. Door-securer	710,118	Sept. 30	4122	990	100	2888
Prue, Frank J., Woonsocket, R. I. Undergarment	699,896	May 13	1504	345	99	1500
Prue, Frank J., Woonsocket, R. I. Undergarment	711,771	Oct. 14	1299	251	101	283



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Průšek, Jan, Prague, Austria-Hungary. Stuffing-box with metallic packing .....	711,176	Oct. 14	1508	325	101	320
Pruszkowski, Wladyslaw, Schodnica, Austria-Hungary. Rotary boring apparatus .....	701,391	June 3	191	11, 42	99	2749
Pruszkowski, Wladyslaw, Schodnica, Austria-Hungary. Alloy .....	702,966	June 21	3163		99	2814
Pruvot, Achille. (See Pruvot, Ernest and A.) .....						
Pruvot, Ernest and A., Valenciennes, France. Beet-root-digging machine .....	714,518	Nov. 25	3979	881	101	1765
Pryde, David. (See Gauerman and Pryde.) .....						
Prybily, Oscar, St. Louis, Mo. Game and game-table .....	711,734	Oct. 21	2573	566	101	567
Puckett, John W., Manchester, Va. Brake-stand for cars .....	694,191	Feb. 25	3776	885	98	1035
Puckler, Heinrich v., Schloss Friedland, Silesia, Germany. Air-purifier .....	705,885	July 29	4905	1066	100	1053
Puddefoot, Charles, assignor, by mesne assignments, to Briscoe Manufacturing Company, Detroit, Mich. Closure .....	701,086	May 27	3886	880	99	2017
Puechagut, Joachim, Black Diamond, Wash. Rock-drill .....	712,592	Nov. 4	249	61	101	949
Puff, Carl, Spandau, Germany. Explosive projectile or shell for ordnance .....	709,854	Sept. 23	3576	806	100	2764
Puff, Edward, Montgomery, N. Y. Buttonhole-moistener .....	704,577	July 15	2373	493	100	490
Pugh, Edwin A., assignor of one-half to C. A. Orr, Springfield, Ill. Cleaner for guns .....	709,557	Sept. 29	3036	677	100	2652
Pugh, James M., assignor to Wm. H. Armstrong & Co., Indianapolis, Ind. Surgical dressing-packer .....	702,997	June 24	3164	727	99	2814
Pugh, Jesse H., assignor of one-third to D. W. Miller, Toledo, Ohio. Hot-air wall-regis- ter .....	705,603	July 29	4454	965	100	962
Pugh, Samuel R., Houston, Tex. Try-square .....	710,891	Oct. 7	981	204	101	189
Pugh, William J., Davenport, Iowa. Button-carding machine .....	699,565	May 6	813	192	99	1343
Pugh, William J., Davenport, Iowa, assignor of one-half to T. R. Lewis, Rochester, N. Y. Explosive-engine .....	692,071	Jan. 28	3321	728	98	718
Pulbrook, Anthony, London, England. Elastic support for vehicles .....	699,709	May 13	1115	261	99	1418
Pullman, Herbert S., Meriden, Conn. Machine for manufacturing shoe-laces, &c. ....	690,995	Jan. 14	1188	269	98	263
Pullman, William, and C. C. Field, Sodus, N. Y. Trolley-pole .....	697,894	Apr. 15	2790	617	99	625
Pullman, William, and C. C. Field, Sodus, N. Y. Trolley-pole .....	709,113	Sept. 16	2119	486	100	2447
Pulver, Henry H., assignor to Pulver Chemical Company, Rochester, N. Y. Receptacle or casing for venting-machines, &c. ....	693,532	Feb. 18	2493	547	98	1358
Pulwitt, Fredrick, Springfield, Ill. Elevator .....	708,830	Sept. 9	1539	352	100	2308
Pumerville, Joseph M. (See Cook and Pumerville.) .....						
Pumpelly, James K., Chicago, Ill., assignor to Western Storage Battery Company, In- dianapolis, Ind. Separator for battery-plates .....	696,489	Apr. 1	172	42	99	41
Pumpley, Walter H., New York, N. Y. Spring .....	713,017	Nov. 4	1030	241	101	1107
Punctnot Tire Company. (See Stearns and Haines, assignors.) .....						
Punges, William A., Detroit, Mich. Car side bearing .....	710,609	Oct. 7	408	85	101	82
Punzelt, Edward E., assignor to W. Perry, Ansonia, Conn. Molding-machine .....	711,072	Oct. 14	1300	281	101	283
Punzelt, Edward E., assignor to H. E. Dann and O. H. Banks, Norwalk, Conn. Adjust- able screw-propeller .....	705,866	July 29	4907	1067	100	1053
Pupin, Michael I., New York, N. Y. Multiple telegraphy .....	707,007	Aug. 12	1918	430	100	1535
Pupin, Michael I., Yonkers, N. Y. Multiple telegraphy .....	707,008	Aug. 12	1921	490	100	1525
Pupin, Michael I., Yonkers, N. Y. Producing asymmetrical currents from symmetrical alternating electromotive forces .....	713,044	Nov. 4	1076	250	101	1116
Pupin, Michael I., Yonkers, N. Y. Apparatus for producing asymmetrical currents from symmetrical alternating electromotive forces .....	713,045	Nov. 4	1078	251	101	1116
Pupin, Michael I., New York, N. Y., and S. W. Balch, Montclair, N. J. Winding-machine .....	697,660	Apr. 15	2381	590	99	535
Pupke, Eberhard L., East Orange, assignor to Agatine Shoe-Hook and Eyelet Company, Newark, N. J. Lacing-hook .....	692,313	Feb. 4	220	53, 54	98	814
Pupke, Eberhard L., East Orange, assignor to Agatine Shoe Hook & Eyelet Company, Newark, N. J. Lacing-hook .....	710,210	Sept. 30	4308	968	100	2381
Pure Food Company. (See Taylor, Percy B., assignor.) .....						
Purinton, David L., Boston, Mass. Last .....	708,077	Sept. 2	145	85	100	2011
Purper, Gustav, J., Moser, and R. Boeklen, New York, N. Y. Gem-cutting machine .....	706,597	Aug. 12	1161	277	100	1366
Purser, Henry F., London, England. Photographic camera .....	704,370	July 8	1878	407	100	396
Pursley, Alexander, St. Paul, Minn. Railway replacing-frog .....	702,744	June 17	2668	614	99	2694
Purvis, E. Russell. (See Reiff, William H., assignor.) .....						
Purvis, William J., Fremont, Neb. Fly-trap .....	703,303	June 24	3719	856	99	2924
Püschel, Franz. (See Knechans and Püschel.) .....						
Pusey, Thomas M., Kennett Square, Pa. Voltage-regulator .....	704,371	July 8	1879	407	100	397
Pusey, Thomas M., Kennett Square, Pa. Starting device for electric motors .....	710,892	Oct. 7	932	294	101	189
Putallaz, Jean P., Brooklyn, N. Y. Glass-furnace .....	699,902	May 13	1642	377	99	1526
Putnam, Calvin, Anderson, Mo. Wagon-spindle .....	698,903	Feb. 25	3215	709	98	1534
Putnam, John, Lovington, Ill. Rotary engine .....	717,023	Dec. 30	4730	1025	101	2898
Putnam, Alfred F., Charlton, Mass. Fire-kindler and method of making .....	697,014	Apr. 8	1216	271	99	277
Putnam, Benjamin W., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Stringing-tool .....	711,073	Oct. 14	1303	281	101	283
Putnam, Charles F., Fitchburg, Mass. Vehicle-body .....	704,209	July 8	1581	341	100	331
Putnam, Franklin S., Anaconda, Colo. Car-coupling .....	713,240	Nov. 11	1470	333	101	1215
Putnam, Israel C., and C. M. Berry, Orlando, Fla. Fruit or vegetable protector .....	711,325	Oct. 14	1604	344	101	348
Putnam, John, Cornell, Pa. Game or puzzle .....	702,477	June 17	2166	484	99	2591
Putnam, John P., Boston, Mass. Apparatus for protecting seals of sewer-gas traps .....	706,325	Aug. 5	488	104	100	1215
Putnam, Joseph E., Rochester, N. Y. Automatic starter for electric motors .....	699,566	May 6	819	193	99	1345
Putnam Nail Company. (See Williams, Henry A., assignor.) .....						
Putnam, Simeon N. (See Butcher, Joseph, assignor.) .....						
Putney, Herbert E., Toledo & Ohio. Car-brake mechanism .....	716,935	Dec. 30	4552	988	101	2860
Putney, Newton E., Southbridge, Mass. Knife .....	705,441	July 22	4061	880	100	872
Putt, Joseph A., assignor of one-half to P. M. Snyder, Canton, Ohio. Hay-wagon brake Pyatt, Runyon. (See Murly, Sidney T., assignor.) .....	712,091	Oct. 28	3392	721	101	730
Pyle, George C., Indianapolis, Ind. Machine for making hollow glassware .....	714,396	Nov. 25	3760	829 831 832	101	1723
Pyott, James M., Jr., Chicago, Ill. Core-molding machine .....	699,710	May 13	1118	292	99	1418
Pyott, James M., Jr., Chicago, Ill. Fish-hook .....	699,711	May 13	1120	292	99	1418
Pyott, Louis T., assignor to J. E. Reyburn, Philadelphia, Pa. Car-brake .....	699,346	May 6	412	94, 95	99	1258
Pyott, Louis T., assignor to J. E. Reyburn, Philadelphia, Pa. Hoisting-machine .....	706,256	Aug. 5	491	105	100	1216
Pywell, Edwin F. (See Slagle and Pywell.) .....						
Quackenbush, Henry M., Herkimer, N. Y. Nut-cracker .....	698,734	Apr. 29	4441	980	99	1005
Quade, Henry W., Watertown, Wis. Cheese-box trimmer .....	697,885	Apr. 15	2792	618	99	626
Quain, John R., County of Middlesex, England. Electrical heating apparatus .....	709,970	July 1	1107	239	100	219

## Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Quaker Manufacturing Company. (See Heald, Edward L., assignor.)						
Quaker Manufacturing Company. (See Hunt, Thomas E., assignor.)						
Qualls, William, Lollie, Ark. Cotton-stalk cutter	718,241	Nov. 11	1472	333	101	1215
Quarrell, Peter, Danville, Ill. Lunch-pail	691,682	Jan. 21	2437	548	98	543
Quarumby, Fred, Keighley, England. Eyelet	718,149	Nov. 11	1392	292	101	1180
Quarrie, Allan, Oak Lake, T. M. Morgan, J. S. Gibson, and C. S. Coatsworth, Brandon, Canada. Adjustable stack-protector	715,603	Dec. 9	1806	401	101	2222
Quartz, James, Jr., Boston, Mass., assignor to F. S. Webster Company, Boston, Mass.; New York, N. Y.; Chicago, Ill., and London, England. Ink-pad box	705,610	July 29	4455	966	100	962
Quarzitol Company. (See Loewenthal, Jean, assignor.)						
Quasebath, Gustav C., assignor of one-half to N. Holbert, St. Louis, Mo. Boiler-tube cleaner	706,200	Aug. 5	383	82	100	1195
Quatram, Franz, Berlin, Germany. Mantle-holder for incandescent gas-burners	690,606	Jan. 7	457	98	98	98
Quayle, William, assignor to J. H. and M. Harrison, Denver, Colo. Protractor	708,608	July 1	411	96	100	81
Quantell, William P., New York, N. Y. Type-writing machine	698,318	Apr. 22	3609	796	99	812
Quantell, William P., assignor to Postal Typewriter Company, New York, N. Y. Type-writing machine	718,685	Nov. 18	2372	529	101	1115
Quantell, William P., assignor to Postal Typewriter Company, New York, N. Y. Type-writing machine	717,506	Dec. 30	5628	1222	101	3087
Quest, Francis E., Knoxville, Pa. Switch-operating device	708,971	Sept. 9	1815	418	100	2364
Quiggin, James H. and W. C., Liverpool, England. Table-tennis net	702,154	June 10	1576	357	99	2451
Quiggin, William C. (See Quiggin, James H. and W. C.)						
Quigley, Wirt S., assignor to Kison, Hydro-Carbon Heating & Incandescent Lighting Company, Philadelphia, Pa. Incandescent vapor-burner	713,150	Nov. 11	1293	292	101	1180
Quillen, Christopher D., Mineral, Ind. Vehicle-brake	716,275	Dec. 16	3150	690	101	2525
Quillfeldt, Charles E., Amityville, assignor of one-half to C. G. Painter, Brooklyn, N. Y. Machine for filling and closing paper boxes	713,491	Nov. 11	1971	446	101	1318
Quimby, Albert G., et al. (See Lewis, Albert H., assignor.)						
Quimby, Charles H., Jr., Confluence, Pa. Drafting instrument	712,964	Nov. 4	917	220	101	1601
Quimby, Edward C., Minneapolis, Minn. Storm-sash fastener	700,706	May 20	3103	706	99	1850
Quimby, Edward E., Orange, N. J., assignor to National Tube Company, Pittsburg, Pa. Spring-pulling hook for use in butt-welding	715,862	Dec. 16	2347	519	101	2356
Quimby, Edward E., deceased; W. E. Quimby, New York, N. Y., and C. J. Mills, Orange, N. J., executors, assignors to National Tube Company. Draw-bench	715,863	Dec. 16	2349	519	101	2357
Quimby, William E., et al., executors. (See Quimby, Edward E.)						
Quimby, William E., New York, N. Y. Brake for administering prescribed resistance to the starting movements of hand-operated controllers	708,468	July 1	168	39	100	36
Quin, John, Toronto, Canada. Sander for railways	704,210	July 8	1582	342	100	382
Quinan, William R., Pinole, Cal. Apparatus for the manufacture of concentrated sulfuric acid	699,011	Apr. 29	4971	1100	99	1121
Quincy, Charles F. (See McCluer, Charles R., assignor.)						
Quine, Cloyd R. (See Chapman and Quine.)						
Quinlan, John J., Boston, Mass. Wrench	714,741	Dec. 2	171	34	101	1871
Quinn, B. B. (See Lincoln, John C., assignor.)						
Quinn, Charles C. and C. J., Scranton, Iowa. Stock-waterer	699,233	May 6	151	43	99	1212
Quinn, Charles J. (See Quinn, Charles C. and C. J.)						
Quinn, Charles J., Scranton, Iowa. Chimney-cap	695,170	Mar. 11	1602	335	98	2068
Quinn, Charles J., Scranton, Iowa. Chimney-top	706,450	Aug. 5	912	198	100	1300
Quinn, John B., Chicago, Ill. Track	700,084	May 13	1830	427	99	1566
Quinn, John C., Port Costa, Cal. Water-pressure safety oil-feeder	708,824	July 1	833	183	100	166
Quinn, John N., Cincinnati, Ohio. Automatic switch-throwing device	702,745	June 17	2669	614	99	2694
Quinn, Martin, Blackrock, Ark. Tongs						
Quinn, Michael, Milwaukee, Wis. Die for forming or shaping ladies' hats	694,495	Mar. 4	288	66	98	1772
Quinn, Thomas, Milford, Mass., assignor of one-half to J. H. Northrop, Tustin, Cal. Wheel-controlling mechanism	710,610	Oct. 7	409	85	101	82
Quinn, Thomas E. (See Lutz, George A., assignor.)						
Quinn, William J., Saranac, N. Y. Wrench	691,663	Jan. 21	2438	549	98	543
Quint, Alanson D., Hartford, Conn. Turret drilling, milling, and tapping machine	699,234	May 6	155	43	99	1212
Quint, Alanson D., Hartford, Conn. Turret drilling, milling, and tapping machine	694,783	Mar. 4	865	191	98	1894
Quintaine, Ernest, Argensteuil, France. Obtaining tin by electrolysis	699,012	Apr. 29	4975		99	1122
Quist, Charles. (See Quist, John and C.)						
Quist, John and J. A. Bain, Cleveland, Ohio. Acetylene-gas generator	700,819	May 27	3349	760	99	1916
Quist, John and C., assignors of one-half to O. P. Pearson and C. L. Berry, Mystic, Iowa. Mechanical movement	708,825	July 1	834	183	100	167
Qvarnström, Pontus M., Stockholm, Sweden. Timber-drag for sawing crooked timber. R. Bliss Manufacturing Company. (See Colwell, Nicholas H., assignor.)	705,442	July 22	4062	881	100	873
R. Friedlander & Co. (See Schneider, Carl O., assignor.)						
R. M. Keating Motor Company (See Keating, Robert M., assignor.)						
Raasch, Ferdinand, and J. W. Krueger, Milwaukee, Wis. Floor-treating machine	694,077	Feb. 25	3564	786	98	1594
Raasloff, Harald de, New York, N. Y. Centrifugal machine	707,521	Aug. 19	2884	653	100	1745
Rabbe, William H. (See Harden, Rabbe, and Dempsey.)						
Rabbe, William H., E. W. Harden, and M. E. Dempsey, assignors to American Frog & Switch Company, Hamilton, Ohio. Adjustable switch	712,092	Oct. 28	3293	722	101	730
Rabich, Francis J., Boston, Mass. Fishing-reel	691,073	Jan. 14	1381	300	98	292
Raber, Franklin C., Akron, Ohio. Blackboard-eraser	709,722	Sept. 23	3316	745	100	2709
Rabert, Chester, Coalburg, W. Va. Metallic railway-tie and means for securing the rails thereto	692,902	Feb. 11	1247	276	98	1081
Rabich, William, St. Louis, Mo. Pill-machine	700,370	May 20	2475	567	99	1716
Rabinowitz, Frederick, Fort Totten, N. D. Tabulator	711,787	Oct. 21	2679	590	101	588
Rabinowitz, Sundel, New York, N. Y. Window-cleaning chair	705,292	July 22	3749	814	100	809
Rabinowitz, Sundel, New York, N. Y. Fire-escape	712,346	Nov. 4	724	167	101	1047
Racine, Ulysses. (See Ousley, Albert H., assignor.)						
Radax Pneumatic Tyre Company. (See Caldwell, William, assignor.)						
Radcliffe, Benjamin, et al. (See Tripp, Bradford H., assignor.)						
Radcliffe, Charles H., Elgin, Ill. Water-gun	702,478	June 17	2167	494	99	2591
Radcliffe, George H., Derby, Conn. Micrometer-calipers	700,085	May 13	1840	428	99	1566
Radcliffe, John, Wrexham, England. Gas-producer	715,144	Dec. 2	949	204	101	2030
Radcliffe, Joseph H. (See Bryan, Joseph F., assignor.)						
Radcliffe, Thomas D., assignor of one-third to C. R. Metcalf, Lawrence, Kans. Wheeled scraper	703,352	June 24	3818	877	99	2946
Radcliffe, Thomas D., assignor of one-third to C. R. Metcalf, Lawrence, Kans. Wheeled scraper	706,343	Aug. 5	680	147	100	1253



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Radcliffe, Thomas D., assignor of one-third to C. R. Metcalf, Lawrence, Kans. Wheel scraper or scoop.....	707,977	Aug. 26	3846	864	100	1953
Rademacher, Frank, Los Angeles, Cal. Oven.....	699,712	May 13	1121	263	99	1419
Rader, Charles I., Youngstown, Ohio, assignor of one-half to W. H. Hassinger. Blast-furnace.....	695,886	Mar. 18	2886	654	98	2350
Rader, Gustave, New York, N. Y. Fireproof ceiling.....	713,948	Dec. 2	617	130	101	1959
Raders, Joseph F. and H. D. Meier, Brooklyn, N. Y., assignors of one-tenth to D. Corbin. Draft-gear and buffing apparatus.....	711,345	Oct. 14	1833	398	101	397
Radford, Frank. (See Boyer and Radford.).....						
Radford, John A. (See Brueggeman, Frank, assignor.).....						
Radford, William, Sioux City, Iowa. Continuous downdraft-kiln.....	714,742	Dec. 2	172	34.35	101	1872
Radick, Emil C., Menasha, Wis. Railway-crossing gate.....	712,849	Nov. 4	726	168	101	1047
Radiguet, Arthur, Paris, France, assignor to H. de Thiersant and H. J. Norballe, London, England. Electric gas-lighter.....	710,802	Oct. 7	788	168	101	161
Radovanovic, Andreas, Zurich, Switzerland. Pump.....	702,245	June 10	1728	390 391	99	2481
Raecke, Johannes H., Braunschweig, Germany. Mouthpiece for cigars or cigarettes.....	701,613	June 3	598	131	99	2233
Raether, Edwin P., San Diego, Cal. Door-securer.....	693,740	Feb. 18	2890	636	98	1440
Raff, James E., assignor of two-thirds to H. V. Moyer and E. Beery, Garwin, Iowa. Air-pressure system of lighting.....	697,015	Apr. 8	1217	271	99	277
Raffoer, Ernest, et al. (See Heydrich, Alfred, assignor.).....						
Ragan, John E., and J. S. Rosenthal, Graceville, Minn.; said Ragan assignor to said Rosenthal. Revolving or traveling beater-cover.....	699,347	May 6	414	95	99	1259
Rahn, George P., Boyertown, Pa. Shutter-fastener.....	700,235	May 20	2191	501	99	1659
Rahn, James M. (See Larimore, John W., assignor.).....						
Railsnyder, William H. F., Sackett, Pa. Rail-joint.....	692,344	Feb. 4	224	54	98	645
Railroad Gas Lighting Company. (See Caldwell, Charles W., assignor.).....						
Railroad Supply Company. (See Wood, Frederick W., assignor.).....						
Railway Automatic Time and Danger Signal Co. (See Guinn, John A., assignor.).....						
Railway Electric Refrigerating Company. (See Palmer, Cassius C., assignor.).....						
Raimondi, Luigr, et al. (See English, Edwin E., assignor.).....						
Rainbow, Frederick J. G., Barnstable, England. Measuring-machine for plastic material.....	692,903	Feb. 11	1248	276 277	98	1082
Rains, Charles E., assignor of one-half to L. E. Elsten, Chanute, Kans. Reversing mechanism.....	698,904	Feb. 25	3216	710	98	1524
Raiser, Jacob A., Bucyrus, Ohio. Shoe-protector.....	714,821	Dec. 2	335	73	101	1905
Raissle, Gottlieb, South Bend, Ind. Steam-boiler.....	696,079	Mar. 25	3250	735 736	98	2437
Rait, George B., Sheldon, Iowa. Draft device and spark-arrester.....	704,922	July 15	2942	631	100	633
Rakestraw, Robert R., Vienna, Austria-Hungary. Pencil.....	708,304	June 24	3719	857	99	2925
Rallings, Henry. (See Milligan and Rallings.).....						
Ralls, Orlando. (See Southwell and Ralls.).....						
Rallston, Isaac, assignor of one-half to T. Spillane, New Bethlehem, Pa. Sucker-rod stub.....	705,443	July 22	4063	881	100	873
Ralston, Alice, Nashville, Tenn. Tree-protector.....	709,820	May 27	3351	769	99	1916
Ralston, David, assignor of two-thirds to J. M. and E. N. Ralston, Allenhurst, N. J. Apparatus for transplanting trees.....	700,821	May 27	3351	770 771	99	1917
Ralston, E. N., et al. (See Ralston, David, assignor.).....						
Ralston, J. M., et al. (See Ralston, David, assignor.).....						
Ralston, Jackson H., et al. (See Fillmore, George M., assignor.).....						
Ralston, James M., Allenhurst, N. J. Apparatus for transplanting and transporting trees.....	690,607	Jan. 7	457	98, 99	98	98
Ralston, Willis H., et al. (See Jewell, Danford W., assignor.).....						
Ralya, Harvey G., assignor of one-half to E. S. Hut on, Lapel, Ind. Lawn-coaster.....	699,567	May 6	820	193	99	1345
Ramage, Alexander S., Cleveland, Ohio. Pigment.....	708,584	Sept. 9	104	2204	100	2204
Ramage, Alexander S., Cleveland, Ohio. Treating ferrous liquors.....	708,585	Sept. 9	1046	238	100	2204
Ramage, Alexander S., Cleveland, Ohio. Chemical compound terpene peroxid.....	710,893	Oct. 7	935	201	101	190
Ramage, Alexander S., Cleveland, Ohio. Converting lead sulfate into lead carbonate.....	715,214	Dec. 2	1078	231	101	2057
Ramage, Alexander S., assignor to E. A. Sperry, Cleveland, Ohio. Pigment and the production thereof from ferrous liquors.....	691,324	Jan. 14	1800	400	98	390
Ramage, Elias B., and R. O. Slaughter, Fivepoints, Ala. Hay-press.....	695,764	Mar. 18	2653	603	98	2301
Ramage, M. H., et al. (See Fillmore, George M., assignor.).....						
Rambaud, René F. C., Pithenay, France. Coupling for railway-wagons, &c.....	697,670	July 1	545	123	100	107
Ramirez, Ignacio C., Puebla, Mexico. Ventilator.....	697,363	Apr. 8	1806	405	99	404
Ramos, Charles, Vancouver, Canada. Gold-saving machine.....	704,372	July 8	1883	408	100	397
Rampazzi, Emile L., Havre, France. Lubricator-cup.....	711,329	Nov. 25	3646	804	101	1701
Ramsay, Daniel, Philadelphia, Pa. Automatic drilling-machine.....	694,784	Mar. 4	870	192 193	98	1896
Ramsay, Erskine, Birmingham, Ala. Revolvable car-dumping structure.....	701,764	June 3	865	193	99	2289
Ramsdell, Alonzo, Chicago, Ill. Composition of matter and manufacturing same.....	716,276	Dec. 16	3151	192	101	2525
Ramsey, John, New York, N. Y. Bottle-filling machine.....	714,743	Dec. 2	174	35	101	1872
Ramsey, William F., and H. E. Pool, Mountview, Okla. Ter. Combined hay loader and press.....	690,235	May 6	187	44	99	1212
Ramspeck, Karl J., Altona-Ottensen, Germany. Coin-sorter.....	695,080	Mar. 11	1427	313	98	2031
Rand, Charles A., assignor to Deering Harvester Company, Chicago, Ill. Harvester-reel.....	700,236	May 20	2192	501	99	1659
Rand Drill Company. (See Ambrose, Robert L., assignor.).....						
Rand Drill Company. (See Parsons, Frederick W., assignor.).....						
Rand, James H., North Tonawanda, N. Y. Filing device for bank-checks, &c.....	691,177	Jan. 14	1508	340	98	329
Rand, William C., Lewiston, Me. Gasoline-burner.....	690,608	Jan. 7	459	99	98	99
Randall, Fred. (See Trivett and Randall.).....						
Randall, James D., deceased. (J. E. Randall, administratrix,) assignor of one-half to J. W. Buchanan, Memphis, Tenn. Electric bath apparatus.....	703,826	July 1	835	184	100	167
Randall, Jesse O., Silversprings, N. Y. Heating and ventilating system.....	703,327	July 1	836	184	100	167
Randall, John, Deadwood, S. D. Apparatus for extracting metals from ores.....	708,494	Sept. 2	892	232	100	2162
Randall, John, Deadwood, S. D. Settling-tank or decanting vessel.....	714,822	Dec. 2	335	73	101	1905
Randall, Josephine E., administratrix. (See Randall, James D.).....						
Randall, Mercy J., Canton, Mo. Combined folding wardrobe and dresser.....	700,237	May 20	2193	501 502	99	1659
Randall, Oscar F., Davis, Ill. Brake mechanism.....	704,103	July 8	1380	298	100	290
Randall, Percy, and G. Davis, Northampton, England. Boot-stitching machine.....	709,041	Sept. 16	1975	451	100	2415
Randel, Blenis H. (See Abbott and Randel.).....						
Randel, Frank, Cleveland, Ohio. Shingle.....	712,093	Oct. 28	3295	732	101	730
Randle, Harry T., Clayton, Mo. Match-safe.....	713,151	Nov. 11	1295	293	101	1180
Randle, Oscar E., et al. (See Walker, John B., assignor.).....						
Randle, William E., Yorkana, Pa. Rail-joint.....	707,720	Aug. 26	3305	740	100	1848

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Randolph, Elmer E. (See Smith, Thomas H., assignor.)					
Randolph, Joseph S., Lorain, Ohio. Combined scrub-brush and mop-holder.	702,998	June 24	3165	728	99 2815
Randolph, Leonard M., Newark, N. J., assignor of three-fifths to B. G. and L. F. Braine, Brooklyn, N. Y. Plastic compound and manufacturing same	698,856	Apr. 29	4711		99 1068
Randolph, Leonard M., Newark, N. J., assignor of three-fifths to B. G. and L. F. Braine, New York, N. Y. Plastic compound and manufacturing same	699,713	May 13	1123		99 1419
Randolph, Leonard M., Newark, N. J., assignor of six-tenths to B. G. and L. F. Braine, Brooklyn, N. Y. Insulating-paint	701,392	June 3	192		99 2148
Randolph, William H., Jr. (See Fox and Rapaport.)					
Randon, Gustave. (See Burel, Randon, and Remy.)					
Ranford, Fred J., Oswego Falls, N. Y. Wheel.	692,710	Feb. 4	873	199	98 978
Rangnow, Otto, Philadelphia, Pa. Trunk-tray holder	703,152	Nov. 11	1297	293	101 1181
Rankin, Alexander M., assignor to O. E. Madden, New York, N. Y. Boiler-furnace	705,960	July 29	5076	1106 1107	100 1087
Rankin, Andrew B., administrator. (See Rankin, Andrew N.)					
Rankin, Andrew N., deceased; A. B. Rankin, Brooklyn, N. Y., administrator. Apparatus for constructing cold-packed pipe-joints	716,579	Dec. 23	3779	822	101 2672
Rankin, Archibald P., Lakewood, and A. C. Dierix, Cleveland, Ohio. Hatch-fastener	709,928	Sept. 30	3752	847	100 2811
Rankin, John H., Versailles, Mo. Window-screen	701,032	June 10	1155	265	99 2366
Rankin, William M., Richmond, Va. Knock-down bier	712,152	Oct. 28	3406	746	101 753
Ransdell, French E., and H. C. Muddiman, Manassas, Va. Door catch and buffer	708,401	Sept. 2	724	163	100 2128
Ransom, John R. B. (See Denman, Burt J., assignor.)					
Ransom, William, Brooklyn, N. Y. Game apparatus	716,645	Dec. 23	3910	854	101 2700
Ransom, William M., Warren, R. I. Golf-club	690,996	Jan. 14	1192	270	98 264
Ransome, Ernest L., New York, N. Y. Concrete-mixer	694,575	Mar. 4	465	100	98 1812
Ransome, Ernest L., New York, N. Y. Coupling metal bars in reinforced concrete	694,576	Mar. 4	467	100	98 1812
Ransome, Ernest L., New York, N. Y. Reinforced concrete construction	694,577	Mar. 4	467	100	98 1812
Ransome, Ernest L., New York, N. Y. Concrete joint	694,578	Mar. 4	469		98 1812
Ransome, Ernest L., New York, N. Y. Self-dumping hoist	694,579	Mar. 4	469	101	98 1812
Ransome, Ernest L., New York, N. Y. Concrete construction	694,580	Mar. 4	470	101	98 1813
Ranson, Joseph W., Batavia, assignor of one-half to H. H. Ellwood, Middletown, Ohio. Seat-lock	713,153	Nov. 11	1298	293	101 1181
Ranzel, Bertha E. (See Roemisch and Orre, assignors.)					
Rapaport, Barnett, New York, N. Y. Pocket-case for cigars or cigarettes	693,621	Feb. 18	2673	590	98 1305
Raphael, Henry J. W., et al. (See West, James, assignor.)					
Raphael, Max, and L. Elias, Breslau, Germany. Insulating and packing material and manufacturing same	691,871	Jan. 28	2852	612	98 646
Rapp, Barnett R., Westchester, Pa. Thill-coupling	701,087	May 27	3837	881	99 2017
Rapp, Jacob P. (See McGreal, Dominick S., assignor.)					
Rapp, John W., New York, N. Y. Floor construction	690,609	Jan. 7	462	99	98 99
Rapp, Samuel, Pleasant township, Madison county, Ohio. Shock-compressor	698,735	Apr. 29	4442	981	99 1006
Rappleyea, Nicholas, and W. A. Sparks, assignors to National Casket Company, Hoboken, N. J. Casket-lid	714,600	Nov. 25	4154	918	101 1803
Rapson, Hobart D., assignor of one-half to E. A. Khoori, Philadelphia, Pa. Staple	717,270	Dec. 30	5211	1131	101 3002
Rasck, George P., Des Moines, Iowa. Band-fastener	696,592	Apr. 1	353	84	99 78
Rash, Howard C. and L. C., assignors to Natural Body Brace Company, Salina, Kans. Abdominal and back supporter	708,402	Sept. 2	725	163	100 2128
Rash, Leon C. (See Rash, Howard C. and L. C.)					
Rasmussen, Julius A. N., assignor to Dansk Rekl-Riffel Syndicate, Copenhagen, Denmark. Automatic firearm	701,815	June 3	948	210	99 2307
Rasmusen, Rasmus P., Rockford, Ill. Pocket-book	697,751	Apr. 15	2549	567	99 571
Rasmussen, Jens, Rochester, Minn. Bicycle-prop	717,271	Dec. 30	5213	1131	101 3002
Rasner, Abraham, assignor to Rasner & Dinger Company, Pittsburg, Pa. Window frame and sash	702,586	June 17	2377	542	99 2634
Rasner, Abraham, assignor to Rasner & Dinger Company, Pittsburg, Pa. Window frame and sash	702,587	June 17	2378	542 543	99 2635
Rasner, Abraham, assignor to Rasner & Dinger Company, Pittsburg, Pa. Window frame and sash	702,588	June 17	2380	543	99 2635
Rasner & Dinger Company. (See Rasner, Abraham, assignor.)					
Rassinier, Eugene G. (See Berly and Rassinier.)					
Rast, Julius H., Charleston, S. C. Bicycle-seat-post clamp	702,589	June 17	2382	544	99 2636
Rastetter, William C., Fort Wayne, Ind. Vehicle-wheel	694,192	Feb. 25	3779	835	98 1636
Rastetter, William C., Fort Wayne, Ind. Adjusting device for striking-bags	694,664	Mar. 4	469	136	98 1845
Rateau, Auguste C. E., and G. Sautter, Paris, France. Lubricating steam-turbines, &c.	701,914	Jan. 28	2927	660	98 661
Rateau, Auguste C. E., Paris, France. Automatic governor for turbines	712,593	Nov. 4	251	61,62	101 950
Rateau, Auguste C. E., and H. A. E. Harlé, Paris, France. Stuffing-box for turbines	712,594	Nov. 4	254	62	101 950
Rath, Charles. (See Dorn, Christian, assignor.)					
Rathbun, John D., Providence, assignor of one-half to W. A. Hathaway, Edgewood, R. I. Flushing-valve	704,211	July 8	1584	342	100 332
Rathknecht, Victor, Chicago, Ill. Combination high chair and go-cart	710,923	Oct. 7	988	218	101 201
Raton Air Brake Improvement Company. (See Turner and Farquharson, assignors.)					
Rau, William J., et al. (See Kreitz, Forrest M., assignor.)					
Raub, Joseph M. (See Spoor and Raub.)					
Raub, Warren E. (See Weinle, Frederick E., assignor.)					
Rauch, William H., Wichita, Kans. Fruit-pick	705,141	July 22	3423	743	100 742
Raudnitz, Adolph, New York, N. Y. Safety-holder	693,065	Feb. 11	1556	340	98 1146
Rauh, Frederick, Elliott, Pa. Clothes-line fastener	694,891	Mar. 4	1065	236	98 1937
Rauh, Leopold. (See Boring and Chitwood, assignors.)					
Raubhoff, John M., Chicago, Ill. Washing-machine	692,345	Feb. 4	225	54	98 845
Rauhoff, John M., Chicago, Ill. Mechanism for converting motion	690,018	Apr. 29	4975	1101	99 1122
Raus, Emanuel, Prague, Austria-Hungary. Safety-ball for tram protecting-rollers	707,255	Aug. 19	2992	536	100 1642
Raven, August, Jemeppe, Belgium. Blowing-engine	709,929	Sept. 30	3754	848	100 2812
Rawbon, Joseph L., and E. W. Bundy, Manchester, England. Manufacturing stoppers for bottles, jars, or other articles	701,504	June 3	402	91	99 2191
Rawe, William H., Pawtucket, R. I. Pipe-wrench	714,610	Nov. 25	4154	919	101 1803
Rawley, Oren C. (See Johnson and Rawley.)					
Rawlings, Budd M., assignor of one-fourth to R. P. Annan, St. Louis, Mo. Railway-crossing	697,540	Apr. 15	2163	480	99 491
Rawlings Sporting Goods Company. (See Whitley, William P., assignor.)					
Rawlins, John, St. Louis, Mo. Sheet-music retainer	704,104	July 8	1382	298	100 291
Rawson, Edward, Moscow, Idaho. Wood-fluting machine	704,373	July 8	1885	408 409	100 398
Rawson, Edward, Moscow, Idaho. Planer	715,145	Dec. 2	951	205	101 2030



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Rawson, Edward, Moscow, Idaho. Frictional gearing.....	715,146	Dec. 2	953	205 206	101	2031
Rawson & Morrison Manufacturing Company. (See Norris, Almon E., assignor.)						
Ray, Albert H., Ashland, Mass. Mechanical movement.....	701,088	May 27	3838	881	99	2017
Ray, Albert H., Ashland, Mass. Web-treating machinery.....	701,221	May 27	4076	998	99	2067
Ray, Alexander, assignor to E. S. Lowry, Philadelphia, Pa. Chute-wagon.....	709,723	Sept. 23	3316	745	100	2710
Ray, Alexander, assignor to E. S. Lowry, Philadelphia, Pa. Chute-wagon.....	710,611	Oct. 7	412	85	101	83
Ray, Dora, Tarentum, Pa. Fruit-jar.....	711,290	Oct. 14	1061	358	101	360
Ray, Edgar M., and R. B. McConney, Denver, Colo.; said McConney assignor of one-half to said Ray. Dump-car.....	704,578	July 15	2273	1493 1494	100	490
Ray, Edward L. (See Mathias and Ray.)						
Ray, Frank A. (See Perrell and Ray.)						
Ray, Frederick, assignor of one-half to J. Spiers, Jr., San Francisco, Cal. Balance attachment for centrifugal pumps.....	696,655	Apr. 1	476	110	99	103
Ray, Frederick, assignor of one-half to J. Spiers, Jr., San Francisco, Cal. Centrifugal-pump runner.....	704,756	July 15	2581	557	100	554
Ray, James A. (See Baxter, Daniel N., assignor.)						
Ray, James K. S., and W. D. McNeill, Whitmire, S. C. Sprinkler-head.....	717,272	Dec. 30	5214	1132	101	3002
Ray, Philip M. (See Smith, Edward, assignor.)						
Ray, Samuel W., assignor to New Process Manufacturing Company, Dallas, Tex. Acetylene-gas generator.....	705,788	July 29	4771	1034	100	1025
Ray, Stanley, Cambridge, Mass. Coin-holder.....	708,733	Sept. 9	1328	303	100	2263
Ray, Thomas L., Fort Worth, Tex. Analgetic bandage.....	699,497	May 13	1505	246	99	1500
Ray, William. (See Love and Ray.)						
Raymond, Alfred A., Chicago, Ill. Pile.....	700,707	May 20	3105	708	99	1850
Raymond, Andrew, Bridgeport, Conn. Brake.....	694,785	Mar. 4	875	193	98	1897
Raymond Button Company of Baltimore City. (See Gwinn, George W., assignor.)						
Raymond, Charles L. (See McConnell and Raymond.)						
Raymond, Charles M., Cleveland, Ohio. Steam boiler.....	714,337	Nov. 25	3473	764	101	1665
Raymond, Charles M., assignor of one-half to L. E. Hoffman, Cleveland, Ohio. Steam-generator or water-heater.....	709,042	Sept. 16	1976	451	100	2415
Raymond, Edward B., Schenectady, N. Y., assignor to General Electric Company. Compounding dynamo-electric machines.....	716,102	Dec. 16	2822	621	101	2458
Raymond, Edward B., Schenectady, N. Y., assignor to General Electric Company. Compounding dynamo-electric machines.....	716,345	Dec. 16	3290	718	101	2552
Raymond, Emmet B., St. Louis, Mo. Oil-burner.....	704,374	July 8	1886	409	100	398
Raymond, Fletcher. (See Klatt, Albert, assignor.)						
Raymond, Freeborn F., 2d., Newton, Mass., assignor, by mesne assignments, to United Shoe Machinery Company. Heel-nailing machine.....	694,665	Mar. 4	630	1137 1138	98	1846
Raymond, Freeborn F., 2d., Newton, Mass., assignor, by mesne assignments, to United Shoe Machinery Company. Heel-holder for heel-attaching machines.....	699,113	Apr. 29	5136	1135	99	1154
Raymond, Shepherd J., Brooklyn, N. Y. Jar and cover.....	712,094	Oct. 28	3296	722	101	730
Raymond, Silas H., Grand Rapids, Mich. Caster.....	698,224	Apr. 22	3452	758	99	781
Raynor, Dwight. (See Raynor, John M. and D.)						
Raynor, George W., Williamson School, Pa. Combined carpenter's bench and vise.....	710,713	Oct. 7	602	126	101	123
Raynor, John M. and D., West Hampton Beach, N. Y. Bottle-protector.....	714,949	Dec. 2	618	130	101	1950
Rayson, Philip, Elsternwick, Victoria, Australia. Spanner attachment.....	713,492	Nov. 11	1978	447	101	1320
Rea, Fred. (See Richardson, Harry C., assignor.)						
Rea, John G., assignor of one-half to R. A. Roe, Paterson, N. J. Heel for boots or shoes.....	699,568	May 6	822	193	99	1345
Reach, George A. (See Gamble, John, assignor.)						
Reach, Robert, Philadelphia, Pa. Striking-bag disk.....	717,273	Dec. 30	5216	1132	101	3003
Read, Berton C. (See Read, James W. and B. C.)						
Read, Ellis D., Pittsburgh, Pa. Bottle or flask.....	704,105	July 8	1383	298	100	291
Read, Frederick H., Providence, R. I. Ankle-support.....	703,828	July 1	838	184	100	168
Read, George F., assignor to R. Hoe, New York, N. Y. Delivery mechanism.....	700,238	May 20	2194	502	99	1650
Read, George F., assignor to R. Hoe, New York, N. Y. Pneumatic sheet-carrying device.....	700,239	May 20	2198	502 503	99	1661
Read, George F., assignor to R. Hoe, New York, N. Y. Web-printing machine.....	705,142	July 22	3424	743	100	743
Read, George F., assignor to R. Hoe, New York, N. Y. Sheet-transferring mechanism.....	707,721	Aug. 26	3360	740 741	100	1848
Read, James W. and B. C., Wooster, Ohio. Dish-cleaner.....	711,000	Oct. 14	1135	251	101	249
Read, Robert H. (See Bradley, Read, and Jacobs.)						
Read, Robert H., Schenectady, N. Y., assignor to General Electric Company. Controller for electric motors.....	695,118	Mar. 11	1502	334	98	2045
Read, Robert H., Schenectady, N. Y., assignor to General Electric Company. Starting device for electric motors.....	697,016	Apr. 8	1219	272	99	277
Read, Robert H., Schenectady, N. Y., assignor to General Electric Company. Electric measuring instrument.....	716,103	Dec. 16	2825	621 622	101	2459
Read, Robert H., Schenectady, N. Y., assignor to General Electric Company. Extinguishing electric arcs.....	716,475	Dec. 23	3556	777	101	2624
Read, Robert H., Schenectady, N. Y., assignor to General Electric Company. Suppressing sparking of commutators.....	716,476	Dec. 23	3560	777 778	101	2625
Read, Robert H., Schenectady, N. Y., assignor to General Electric Company. Extinguishing electric arcs.....	716,818	Dec. 23	4381	950	101	2800
Read, William, Somerville, assignor to C. F. Brown, Reading, Mass. Wick for hydrocarbon-burners.....	697,541	Apr. 15	2165	481	99	492
Reading, Isaac G. (See Scott, John F., assignor.)						
Reagan, Edgar, Floresville, Tex. Injector-burner.....	715,420	Dec. 9	1458	314	101	2133
Reagan, Edgar, assignor of one-half to W. C. Bruff, Floresville, Tex. Roller-press.....	699,114	Apr. 29	5137	1136	99	1155
Reagan, Edgar, assignor of one-half to W. C. Bruff, Floresville, Tex. Baling cotton.....	699,115	Apr. 29	5142	1138	99	1156
Reagan, James, Philadelphia, Pa. Furnace.....	707,157	Aug. 19	2212	495 496	100	1693
Reagan, James, Philadelphia, Pa. Furnace.....	707,158	Aug. 19	2214	496	100	1693
Reagan, John T. (See Moriarty, Thomas J., assignor.)						
Real, Carl, Schwyz, Switzerland. Emergency-brake for tramway-cars.....	708,724	Sept. 9	1329	303	100	2203
Reames, John W., and C. F. Heffington, Corley, Ark. Swinging gate.....	707,256	Aug. 19	2302	1137	100	1642
Reardon, Bernard J., Millburn, N. J. Spring-roll for paper-machine driers.....	717,374	Dec. 30	5217	1133	101	3003
Rearick, Charles B., New York, N. Y. Steam-boiler. (Reissue.).....	41,974	Mar. 4	1149	251	98	1955
Rearick, Charles B., New York, N. Y. Water-tube steam-boiler.....	695,869	Mar. 18	2856	647 648 649	98	2344
Rearick, Charles B., New York, N. Y. Steam-boiler.....	699,812	May 13	1316	305 306	99	1450
Reaser, Lewis, Reading, Pa. Hook and eye.....	699,336	May 6	190	45	99	1213

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Reason, Walter M., Pontiac, Mich. Fluid-pressure regulator.....	701,089	May 27	3841	881	99	2018
Reasoner, James M., Matthews, Ind. Mail-box.....	702,479	June 17	2109	495	99	2351
Reaser, William B., Glenwood, Iowa. Mortising machine.....	713,864	Dec. 16	2350	520	101	2357
Reber, Henry, New York, N. Y. Machine for drying tobacco filler.....	716,446	Dec. 23	3911	854	101	2701
Rech, Jacob E., Philadelphia, Pa. Anchor.....	703,739	July 1	670	149	100	134
Recht, Frederick, Brooklyn, assignor to Rex Cap and Cork Company, New York, N. Y. Cap for bottles.....	707,978	Aug. 26	3848	864	100	1954
Reck, Hermann, London, England, and A. Borsu, Bielefeld, Germany. Centrifugal creamer.....	697,170	Apr. 8	1477	331	99	333
Reck, Rollend R., Marienville, Pa. Reversing mechanism.....	705,961	July 29	5078	1107	100	1087
Recklinghausen, Max von. (See Vogt and Recklinghausen.)						
Record, James L., Minneapolis, Minn. Tile wall.....	692,544	Feb. 4	382	136	98	916
Rector, John R., Lipan, Tex. Storage system.....	706,151	Aug. 5	914	198	100	1300
Red-bick, William A., Niles, Mich. Beef-steak.....	714,029	Nov. 18	3927	673	101	1553
Redding, Charles C. (See Hobson and John H., assignor.)						
Redding, Harry B. (See Moreland and Redding.)						
Redding, James H. (See Blee and Redding.)						
Redding, Jerome, Boston, assignor of two-thirds to I. W. Deering and L. D. Lothrop. Gloucester, Mass. Storage battery.....	699,413	May 6	547	126	99	1287
Redell, Alvin B., Chicago, Ill. Incandescent gas-lamp.....	698,225	Apr. 22	3454	759	99	751
Redfield, John H., Spokane, assignor of one-half to C. E. and F. Grutt, Bossburg, Wash. Rock-drill.....	717,027	Dec. 31	4738	1027	101	2000
Redfield, John H., assignor of one-half to C. E. and F. Grutt, Spokane, Wash. Attachment for rock-drills.....	717,028	Dec. 30	4742	1028	101	2001
Redford, Percy, Manchester, England. Packing for stuffing-boxes.....	709,511	Sept. 23	2955	660	100	2635
Redhead, George A., Washington, D. C. Attachment for collars.....	693,442	Feb. 18	2312	507	98	1322
Redington, Frank B., Chicago, Ill. Seat.....	715,147	Dec. 2	955	216	101	2931
Redington, John C. Q., Syracuse, N. Y. Barre-forming machine.....	696,237	May 6	191	45	99	1213
Redinger, Machias, et al. (See Jacob, William, assignor.)						
Redman, Charles H., Newark, N. J. Hair-clipper.....	698,054	Apr. 22	3105	683	99	708
Redman, Charles R., Aberfoyle, Tex. Stump-extractor.....	696,593	Apr. 1	355	81	98	846
Redpath, George O., Frankfort, Ky. Weaving and completing cane or ratan fabrics.....	692,346	Feb. 4	328	55	98	786
Redpath, George O., Frankfort, Ky. Comb for spacing the mesh of woven fabrics.....	692,347	Feb. 4	320	55	98	846
Reece Buttonhole Machine Company. (See Dahl and Hill, assignors.)						
Reece Buttonhole Machine Company. (See Dixon, William W., assignor.)						
Reece Buttonhole Machine Company. (See Hill, George S., assignor.)						
Reece Buttonhole Machine Company. (See Thomson, Robert W., assignor.)						
Reece Buttonhole Sewing Machine Company. (See Dahl, Charles A., assignor.)						
Reece Folding Machine Company. (See Dixon, William W. and W. L., assignors.)						
Reece, John, deceased; M. Reece, Boston, and F. A. Shea, Brookline, Mass., administrators. Buttonhole-sewing machine.....	692,964	Feb. 11	1250	277	98	1682
Reece, Marietta, et al., administrators. (See Reece, John.)						
Reed, Albert S., assignor to Onward Company, Chicago, Ill. Adjustable cone for bicycle-hubs.....	697,017	Apr. 8	1220	272	99	278
Reed, Arthur W., Orrisburg, Miss. Automatic car-brake.....	698,319	Apr. 22	3611	797	99	813
Reed, Arthur W., Orrisburg, Miss. Automatic car-brake.....	706,452	Aug. 5	915	198	100	1300
Reed and Barton Corporation. (See Brabrook, George, assignor.)						
Reed and Barton Corporation. (See Harris, Calvin P., assignor.)						
Reed, Calvin M., Summerville, Pa. Rail-fastener.....	707,257	Aug. 19	2394	537	100	1642
Reed, Charles A., Payne, Ohio. Burial-vault.....	696,192	Mar. 25	3592	785	98	2489
Reed, Charles J., Philadelphia, Pa. Treating solutions of salts.....	699,414	May 6	549	126	99	1287
Reed, Charles J., Philadelphia, Pa. Electrolytic apparatus.....	699,415	May 6	552	126	99	1287
Reed, Charles J., Philadelphia, Pa. Circuit-breaker.....	710,367	Sept. 30	4574	1031	100	2958
Reed, Charles J., Philadelphia, Pa. Method of and apparatus for electrodeposition of metals.....	712,159	Oct. 28	3407	746	101	753
Reed, Charles J., Philadelphia, Pa., and M. T. Morrill, Golden, Colo. Galvanic battery or pile.....	690,770	Jan. 7	779	173	98	165
Reed, Charles K. and C. A., Worcester, Mass. Temporary binder.....	692,545	Feb. 4	581	137	98	917
Reed, Charles K. and C. A., Worcester, Mass. Temporary binder.....	706,257	Aug. 5	921	105	100	1216
Reed, Charles W., and J. Hakel, Hood River, Oreg. Pruning-shears.....	691,811	Jan. 28	2753	621	98	625
Reed, Chester A. (See Reed, Charles K. and C. A.)						
Reed, Eli S., Hill City, Tenn. Revolving heater.....	713,656	Nov. 18	2374	529	101	1415
Reed, Ellen T., St. John, Canada. Erasure-plate for type-writing machines.....	717,275	Dec. 30	5218	1133	101	3003
Reed, Estella J., Brooklyn, N. Y. Child's eating-apron.....	699,238	May 6	192	45	99	1213
Reed, Franklin M., assignor of one-third to H. W. Roll, Indianapolis, Ind. Pulverized-fuel burner.....	706,495	Aug. 5	982	215	100	1315
Reed, Franklin M., Indianapolis, and C. R. Umbenhoven, Pendleton, Ind. Oil-burner.....	714,112	Nov. 18	3195	706	101	1591
Reed, Henry F., Chicago, Ill., assignor to G. W. Phillips, Camden, N. J. Clamp for pipes.....	706,789	Aug. 12	1518	337	100	1443
Reed, James, Berkeley, Cal. Automatic poultry-fountain.....	713,799	Nov. 18	2582	576	101	1461
Reed, James J., New Philadelphia, Ohio. Automatic vending-machine.....	697,661	Apr. 15	2384	530	99	536
Reed, James M. (See Boman and Reed.)						
Reed, John C., Allegheny, Pa. Apparatus for molding.....	703,740	July 1	672	149	100	135
Reed, John C., Allegheny, Pa. Molding apparatus.....	715,293	Dec. 9	1221	263	101	2107
Reed, John D., Boston, Mass. Railway system.....	699,239	May 6	193	45	99	1213
Reed, John W., Greensburg, Pa. Device for washing diapers.....	708,920	Sept. 9	1710	394	100	2344
Reed, John W., Hammond, Ind. Nailing-machine.....	712,331	Oct. 28	3708	811	101	815
Reed, Lemon M., Cleveland, Ohio. Measuring-scoop.....	704,931	Mar. 15	2978	637	100	639
Reed, Marshall, Whitman, assignor of one-half to O. H. Wade, Boston, Mass. Theater-chair.....	694,990	Mar. 11	1257	275	98	1996
Reed, Poladore M., assignor of one-third to J. F. Kerr, Paterson, N. J. Trolley-guard.....	716,477	Dec. 23	4562	778	101	2925
Reed, Richard, Oshkosh, Wis. Drink-shaker.....	712,095	Oct. 28	3296	722	101	731
Reed, Willard S., Smyrna, Del. Manicure-knife.....	695,342	Mar. 11	1903	424	98	2128
Reed, William A. (See Eaton and Reed.)						
Reeder, Frank L., and A. B. Freville, assignors to National Foundry and Machine Company, Louisville, Ky. Air-compressor.....	697,414	Apr. 8	1932	430	99	420
Reeder, James C. (See Daniels, Samuel, assignor.)						
Reeder, Richard, Butler, Pa. Storm-curtain for vehicles.....	702,480	June 17	2171	495	99	2502
Reedy, Lewis, Lawrence, Kans. Sprocket-wheel for bicycles.....	699,240	May 6	194	46	99	1214
Reedy, William H., et al. (See Rice, Joseph, assignor.)						
Reedy, William I., et al. (See Rice, Joseph, assignor.)						
Reely, William M., Spokane, Wash. Sash-holder.....	703,829	July 1	839	185	100	168
Reenstierna, Gustaf L., Winchester, Mass. Muffler for gasoline-engines.....	692,211	Jan. 28	3474	736	98	770



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Reenstierna, Gustaf L., Winchester, J. A. Blake, Malden, and W. B. Lewis, Boston, Mass. Combined lacing-stud and eyelet	715,148	Dec. 2	956	206	101	2032
Rees, Fred H., Elmira, N. Y. Lacing-hook. (Reissue)	11,972	Feb. 18	3045	672	98	1471
Rees, John. (See Williams, John, assignor.)						
Reese, Arnold K., Lebanon, Pa. Combination safety regulating and drop valve	607,662	Apr. 15	2386	531	99	536
Reese, Benjamin F. (See Naysmith and Reese.)						
Reese, David D., assignor of one-half to E. D. Corwin, Scranton, Pa. Fire-pot for black-smiths' forges	697,275	Apr. 8	1663	373	99	374
Reese, Frederick, Eutaw, Ala. Axle	695,081	Mar. 11	1423	313	98	2031
Reese, J. J. T. (See Greene, John, assignor.)						
Reese, Jacob, Philadelphia, Pa. Making basic slag	714,330	Nov. 25	3648		101	1701
Reese, Jacob, Philadelphia, Pa. Phosphate and making same	714,331	Nov. 25	3648		101	1701
Reese, Philip, Slope, Ohio. Dumping-wagon	700,086	May 13	1841	428	99	1567
Reese, William G., Oakland, Cal. Storm-apron for vehicles	701,614	June 3	598	132	99	2233
Reeser, Eben N., et al. (See Winn, David F., assignor.)						
Reeve, Henry E., Brooklyn, N. Y. Snap-switch	715,511	Dec. 9	1623	353	101	2186
Reeve, William R., et al. (See Jackson, Benjamin F., assignor.)						
Reeves, Albert S., assignor to J. H. Powell, Bridgeton, N. J. Bottle-making machine	716,478	Dec. 23	3563	779	101	2625
Reeves, Beverly G., Durango, Tex. Flow	711,531	Oct. 21	2183	476	101	485
Reeves, Charles W., Columbus, Ohio. Coin weighing and counting machine	690,876	Jan. 7	955	215	98	201
Reeves, Clifton, Trenton, N. J. Device for overcoming dead-centers	710,512	Oct. 7	228	50	101	46
Reeves & Company. (See Clay, Harry C., assignor.)						
Reeves, Edwin A., assignor of one-third to W. Reeves, New Haven, Conn. Prepayment attachment	712,004	Oct. 28	3127	684	101	698
Reeves, Harry M., assignor to Stromberg-Carlson Telephone Manufacturing Company, Chicago, Ill. Telephone instrument	698,055	Apr. 22	6106	683	99	790
Reeves, Milton O., and E. K. Hood, assignors to Reeves Pulley Company, Columbus, Ind. Speed-varying transmission	710,714	Oct. 7	303	127	101	124
Reeves, Oscar F., Saginaw, Mich. Bicycle saddle-post	708,403	Sept. 2	727	163	100	2129
Reeves, Preston R., Ossian, Iowa. Gate	714,030	Nov. 18	3029	673	101	1555
Reeves Pulley Company. (See Reeves and Hood, assignors.)						
Reeves, Reuben, Stratford, Ill. Register	699,898	May 13	1506	346	99	1501
Reeves, William W., Braddock, Pa. Mold for hollow concrete articles	705,789	July 29	4472	1035	100	1026
Regas Vehicle Company. (See Sager and Green, assignors.)						
Regel, Henry A., Brooklyn, N. Y. Device for centering printers' rollers	701,090	May 27	3882	882	99	2018
Regensburg, Mortimer, New York, N. Y. Cigar-band	715,512	Dec. 9	1631	353	101	2186
Regenstein, Hermann, assignor to Pfälzische Nähmaschinen & Fahrräder Fabrik, vormals Gebrüder Kayser, Kaiserslautern, Bavaria, Germany. Ring-shuttle for sewing-machines	704,923	July 15	2944	631	100	633
Regina Music Box Company. (See Brachhausen, Gustav A., assignor.)						
Regina Music Box Company. (See Koch, Henry, assignor.)						
Regnell, Bigney & Co. (See Fenner, Horace R., assignor.)						
Rehberg, Henry A. (See Wahnun and Rehberg.)						
Rehffuss, John G. (See Tily and Rehffuss.)						
Rehffuss, John G., and M. O. and S. B. Tily, assignors to J. Wanamaker, Philadelphia, Pa. Label-gunning machine	713,493	Nov. 11	1980	447	101	1320
Rehffuss, Martin O. (See Rehffuss and Tily.)						
Rehkopf, John G., Paducah, Ky. Bugzy-step	691,872	Jan. 28	2854	643	98	646
Rehrig, Charles K., Trenton, N. J. Broom-holder	692,905	Feb. 11	1252	277	98	1082
Reich, Adolph, assignor to D. Reich, New York, N. Y. Scraper	698,138	Apr. 22	3257	720	99	744
Reich, Dora. (See Reich, Adolph, assignor.)						
Reich, Fred W., Tipton, Kans. Feed-water heater	705,293	July 22	3751	814	100	809
Reichardt, Ferdinand A., Elizabeth, and H. Wilcox, Newark, N. J., said Wilcox assignor to said Reichardt. Sharpening-machine	704,106	July 8	1384	298	100	291
Reichardt, Paul, Gera, Germany. Puzzle	711,439	Oct. 14	1902	432	101	429
Reiche, Anton, Plauen, near Dresden, Germany. Candy-molding machine	699,973	May 13	1644	377	99	1527
Reichel, Arthur C., Union Hill, N. J. Savings-bank	693,741	Feb. 18	2891	636	98	1440
Reichel, Emil B. W., Steglitz, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. System of electrical distribution	692,348	Feb. 4	232	56	98	846
Reichenbach, Fritz, Berlin, Germany. Internal-combustion engine	701,505	June 3	403	92	99	2191
Reichenbach, Fritz, Berlin, Germany. Flexible device for connecting stationary or movable machine parts	701,615	June 3	600	132	99	2233
Reichenbach, Henry M., Dobbs Ferry, N. Y. Apparatus for animated photography	710,320	Sept. 30	4524	1020	100	2976
Reichenbach, Henry M., Dobbs Ferry, N. Y. Projecting apparatus	711,440	Oct. 14	1903	432	101	429
Reichenbach, Henry M., New York, N. Y. Knockdown stereoscope	712,410	Oct. 28	3855	845	101	848
Reichenbach, John B., Wilmot, Ohio. Saw-mandrel	692,349	Feb. 4	233	56	98	847
Reichert, John, Racine, Wis. Tank-lug	697,304	Apr. 8	1807	405	99	405
Reichert, John, assignor of one-half to L. J. Elliott, Racine, Wis. Harness rein-guide	714,031	Nov. 18	3030	674	101	1556
Reichert, Max, London, England. Apparatus for developing and fixing cartridge photographic films	706,852	Aug. 12	1654	370	100	1473
Reichert, Paul P. (See Ayling and Reichert.)						
Reichhelm, Edward P., Bayonne, assignor to American Gas Furnace Company, Elizabeth, N. J. Gas-furnace	716,277	Dec. 16	3152	690	101	2525
Reichlin, Xaver, Horgen, Switzerland. Target	694,581	Mar. 4	471	101	98	1813
Reichlin, Xaver, Horgen, Switzerland, assignor to A. Schorno, Irvington, N. J. Door check and closer	708,586	Sept. 9	1048	238	100	2204
Reichmann, Frank L. (See Criebe, Herman C., assignor.)						
Reid, Alban H., Philadelphia, Pa. Milk-cooler	715,604	Dec. 9	1808	401	101	2222
Reid, Alexander, Jersey City, N. J., assignor to American Bank Note Company, New York, N. Y. Attachment for plate-printing presses	692,350	Feb. 4	235	56	98	847
Reid, Alexander, Jersey City, N. J., assignor to American Bank Note Company, New York, N. Y. Plate-printing	692,351	Feb. 4	236	56	98	848
Reid, Charles C., Cleveland, Ohio. Electric igniter	694,901	Mar. 11	1259	275	98	1096
Reid, Charles H., Danbury, Conn. Hat-machine	700,371	May 20	2476	568	99	1716
Reid, Charles H., Danbury, Conn. Hat-pinning-out machine	700,822	May 27	3353	770	99	1917
Reid, Charles H., Danbury, Conn. Chuck	708,735	Sept. 9	1330	303	100	2264
Reid, James, Jr., Watervliet, assignor to Consolidated Car-Heating Company, Albany, N. Y. Current-director	717,451	Dec. 30	5529	1201	101	3067
Reid, James B., assignor of two-thirds to J. Lebenheim & Sons, Gloversville, N. Y. Fire-man's mask	702,481	June 17	2172	495	99	2592
Reid, Jesse M., Pomeroy, Wash. Poultry-roost	717,120	Dec. 30	4902	1032	101	2935

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Reid, John, Yonkers, N. Y., and L. M. Hooper, Rutherford, N. J., assignors to J. L. Mott Iron Works, New York, N. Y. Wringer attachment	692,546	Feb. 4	585	137	98	917
Reid, John K., Montreal, Canada. Spike-drawing tool	696,844	Apr. 1	843	194	99	178
Reid, Marcellus, Providence, R. I., assignor to C. D. Brower, trustee, New York, N. Y. Wire-drawing machine	695,490	Mar. 18	2148	485 486	98	2198
Reid, Murdoch & Company. (See Brown, Silas M., assignor.)						
Reid, Myron L. (See Stainbrook, James H., assignor.)						
Reid, Pettis A. (See Kelley and Reid.)						
Reid, Philip S., Rosedale, N. J. Guard for optical instruments	708,831	Sept. 9	1541	352	100	2208
Reid, Walter V. (See Kelley and Reid.)						
Reid, William, London, England. Lubricating-pulley	696,594	Apr. 1	256	84	99	78
Reif, Joseph, Jr., Hebron, Ind., assignor to Hercules Woodenware Company, Chicago, Ill. Machine for making slat-and-wire fabric	693,152	Feb. 11	1751	384 385 386	98	1183
Reif, Joseph, Jr., Hebron, Ind., assignor to Hercules Woodenware Company, Chicago, Ill. Machine for making slat-and-wire fabric	715,421	Dec. 9	1400	315 316	101	2154
Reif, Otto M., Allegheny, assignor to Harbison & Walker Company, Pittsburg, Pa. Brick-mold	708,256	Sept. 2	485	111	100	2079
Rein, Joseph, Jr., Hebron, Ind., assignor to Hercules Woodenware Company, Chicago, Ill. Mechanism for trimming slats	698,199	Apr. 22	3289	720	99	745
Reiff, William H., Philadelphia, Pa. Burglar-alarm	690,997	Jan. 14	1194	270	98	265
Reiff, William H., assignor of three-fifths to E. K. Purvis, Philadelphia, Pa. Detonating burglar-alarm	699,116	Apr. 29	5143	1138	99	1156
Reitsnyder, Frank. (See Fisher, John W., assignor.)						
Reilly, Charles J. (See Moore and Reilly.)						
Reilly, Charles J., Syracuse, Ind., and S. B. Newberry, assignors to Sandusky Portland Cement Company, Sandusky, Ohio. Apparatus for digging, treating, and delivering marl	699,974	May 13	1646	377 378	99	1527
Reilly, John J., Louisville, Ky. T-coupling for pipes	713,347	Nov. 11	1719	388	101	1236
Reilly, John J., Louisville, Ky. Duplex pipe-coupling	716,104	Dec. 16	2827	632	101	2459
Reilly, Michael E., Everett, Wash. Window-shade	715,294	Dec. 9	1282	203	101	2107
Reindel, Frederick W., Cleveland, Ohio. Temporary binder	715,865	Oct. 28	1232	520	101	2357
Reineman, Edwin A., Allegheny, Pa. Hat-pin tag	712,154	Oct. 28	3409	746	101	753
Reiner, Joachim L., New York, N. Y. Glove and necktie holder for boxes	712,965	Nov. 4	949	220	101	1091
Reinhard, Wilhelm, Berlin, Germany. Toothpick-package	695,491	Mar. 18	2152	486	98	2199
Reinhardt, Carl, Kaiserslautern, Germany. Testing eggs	707,000	Aug. 12	1924	431	100	1526
Reinhardt, James H., East Orange, N. J. Numbering-machine	692,072	Jan. 28	3223	738	98	719
Reinhold, Charles, assignor of one-half to H. Müller, New York, N. Y. Thread-guiding attachment for sewing-machines	691,408	Jan. 21	1988	446	98	449
Reinhold, Herman. (See Beek and Reinhold.)						
Reinhold, Wilhelm, Berlin, Germany. Packing for stuffing-boxes	703,469	July 1	160	39	100	36
Reinker, Christian, Cleveland, Ohio. Headlight for motor-cars	699,714	May 13	1124	263	99	1419
Reinle, August, Baltimore, Md. Show-case	696,269	Mar. 25	3652	817	98	2521
Reinle, August, Baltimore, Md. Show-case	698,320	Apr. 22	3613	797	99	813
Reinle, August, Baltimore, Md. Show-case	701,232	May 27	4080	939	99	2068
Reinohl, David C. (See McFarlane, John, assignor.)	701,816	June 3	952	211	99	2307
Reinohl, David C. (See McFarlane and Reinohl.)						
Reiser, Christian, Lake Charles, La. Boiler feeding and cleaning attachment	692,073	Jan. 28	3226	728 729	98	719
Reisert, Hans, Cologne, Germany. Removing sulfuric acid from water	713,800	Nov. 18	2384		101	1462
Reisky, Charles. (See Reisky, Emil, assignor.)						
Reisky, Emil, assignor to C. Reisky, Rochester, N. Y. Bowling-alley	695,624	Mar. 18	2421	548	98	2255
Reisner, Nicholas, Hawkeye, Iowa. Whiffletree attachment	706,109	Aug. 5	198	41	100	1157
Reissner, Frederick, assignor of one-half to J. H. Boyd, Allegheny, Pa. Metallic pole	717,276	Dec. 30	5219	1133	101	3008
Reist, Henry G., Schenectady, N. Y., assignor to General Electric Company. Connector for spools of dynamos	696,080	Mar. 25	3252	736	98	2433
Reist, Henry G., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine	706,108	Aug. 5	196	41	100	1157
Reist, Henry G., Schenectady, N. Y., assignor to General Electric Company. Lubricating device	708,170	Sept. 2	323	77	100	2047
Reist, Henry G., Schenectady, N. Y., assignor to General Electric Company. Cooling dynamo-electric machines	716,278	Dec. 16	3154	690 691	101	2526
Reithmair, Matthias. (See Fleischer and Reithmair.)						
Reitz, Albert J., Portsmouth, Ohio, and J. H. Lange, Allegheny, Pa. Metal railway-tie	704,932	July 15	2979	638	100	639
Reize, George T., et al. (See Sullivan, William H., assignor.)						
Reize, Oscar C., et al. (See Sullivan, William H., assignor.)						
Relin, Jean B., Levallois-Perret, France. Accumulator	711,122	Oct. 14	1381	300	101	300
Rembert, Henry, Houston, Tex. Making cotton-bales	703,470	July 1	170	40	100	37
Remick, May A. (See Gihon, William, assignor.)						
Remington Arms Company. (See Hartley, Rivers, and Beach, assignors.)						
Remington Arms Company. (See Witherell, George E., assignor.)						
Remington Automobile & Motor Company. (See Rose, Harry, assignor.)						
Remington, Charles H., Bowshel, N. Mex. Ter. Automatic railway-switch danger-signal	707,010	Aug. 12	1925	431	100	1526
Remore, Charles P., Tully, N. Y. Smoking-pipe	708,404	Sept. 2	738	164	100	2129
Remy, George. (See Burel, Randon, and Remy.)						
Renaker, Walter C., Cynthiana, Ky. Grain-tube cup	694,419	Mar. 4	162	36	98	1747
Renard, Arthur E. (See Bergman and Renard.)						
Renard, Paul F., and W. F. Carey, New Orleans, La. Street-sweeper and dirt-conveyer	711,074	Oct. 14	1304	282	101	284
Rench, Frederic T., Laporte, Ind. Tooth-brush	711,075	Oct. 14	1306	282	101	284
Rendle, William S., East Boston, Mass. Spur-spore screw	703,830	July 1	840	185	100	163
Rendschmidt, Karl, Berlin, Germany. Flash-light cartridge	696,270	Mar. 25	3653	817	98	2521
Renfrew, William, Chelsea, Mass. Lacing-button	699,569	May 6	824	198	99	1346
Renner, George, and W. H. Boyens, Christchurch, New Zealand. Apparatus for branding animals or packages	690,771	Jan. 7	782	173	98	165
Renner, Henry F., assignor to Hollands Manufacturing Company, Erie, Pa. Pipe-wrench	700,087	May 13	1842	429	99	1567
Renner, John, Burlington, Iowa. Bracket-support for shade-rollers	690,529	Jan. 7	814	63	98	68
Renner, John, Burlington, Iowa. Roller-bearing support for shade-rollers	708,736	Sept. 9	1332	304	100	2364
Rennie, William D., and S. G. Van Derbeek, assignors of one-half to F. B. and L. H. Sage, Hackensack, N. J. Golf-register	692,906	Feb. 11	1253	278	98	1082
Reno, Jesse W., New York, N. Y. Inclined elevator	696,193	Mar. 25	3503	755	98	2489
Reno, Jesse W., New York, N. Y. Inclined elevator	708,663	Sept. 9	1196	273	100	2235
Reno, Jesse W., New York, N. Y. Apparatus for unloading scows	716,105	Dec. 16	2899	622	101	2459
Rensch, Benedict, Toledo, Ohio. Scrubbing-brush	715,149	Dec. 2	957	206	101	2032



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Renshaw, Frederick W., <i>et al.</i> (See Woodman, George A., assignor.)						
Renshaw, William. (See Sullivan and Renshaw.)						
Rensman, Henry R., assignor of one-half to L. Kuczkowski, Chicago, Ill. Pneumatic saddle-pad	709,930	Sept. 30	3757	849	100	2812
Renstrom, Carrie, assignor to Aztec Tempered Copper Company, Seattle, Wash. Hardening copper	696,271	Mar. 25	3654		98	2521
Renstron, Nils A., Omaha, Neb. Acetone-gas generator	714,338	Nov. 25	3474	764	101	1690
Rentsch, Henry, Bacon, Mo. Disk cut-off attachment for corn-planters	710,211	Sept. 30	4303	969	100	2931
Rentsch, Henry, Bacon, Mo. Corn-planter	710,303	Sept. 30	4463	1007	100	2963
Rentschler, George A., and J. Kafer, Hamilton, Ohio, assignors to Phoenix Caster Company, Indianapolis, Ind. Furniture-caster	715,866	Dec. 16	2353	520	101	2338
Reutzel, John B., Manchester, Pa. Washing-machine	705,962	July 29	5080	1107	100	1688
Renwick, Ward J., and J. Heaton, Auburn, Me. Gas-purifier	716,757	Dec. 23	4098	899	101	2710
Reppell, Louis H. (See Reppell, William R., assignor.)						
Reppell, William R., St. Louis, assignor of one-half to L. H. Reppell, Kansas City, Mo. Dancing toy	692,907	Feb. 11	1254	278	98	1083
Reschke, Wilhelm, Gaarden, assignor to A. Vollert, Gaarden, near Kiel, Germany. Water-pipe	700,088	May 13	1813	420	99	1507
Restein, Clement. (See Brown, Franklin, assignor.)						
Retort Coke Oven Company. (See Wilcox, John F., assignor.)						
Retort Coke Oven Company. (See Wilcox and Wagener, assignors.)						
Rettich, Frank D., Cincinnati, Ohio. Toy	706,110	Aug. 5	199	41	100	1157
Reubelt, Horace B., Franklin, Tenn. Non-refillable bottle	708,171	Sept. 2	324	77	100	2447
Reubold, Friedrich, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Black sulfur dye and making same	695,835	Mar. 18	2735		98	2330
Reul, John F., Juneau, Wis. Knockdown packing-box	710,715	Oct. 7	604	118	101	124
Reuling, Walter E., Muscatine, Iowa. Carton-machine	714,032	Nov. 19	3632	1674	101	1536
Reust, George W. (See Wetzig and Reust.)						
Reutlinger, Emil C., and R. Schaller, West Hoboken, N. J. Mechanical singing-bird	712,595	Nov. 4	256	62	101	951
Revalde, Richmond E., San Francisco, Cal. Type-writer pad	690,772	Jan. 7	783	173	98	165
Reveillé, André, assignor to Société Française du "Muséographe Reveillé," (Société Anonyme.) Paris, France. Apparatus for impressing stereotype-matrices with musical notes or other characters	691,971	Jan. 28	3034	681	98	682
Revell, William W. (See Heglund and Revell.)						
Revere Rubber Company. (See Kent, William J., assignor.)						
Reversible Disc Plow & Implement Company. (See Manes, Ephraim, assignor.)						
Reversible Electric Car Sign Co. (See Kemp, Henry S., assignor.)						
Revor, Valeri F., Minneapolis, Minn. Skirt-holder	698,056	Apr. 22	3108	684	99	709
Rex Acetylene Generator Company. (See Freeman, Delbert O., assignor.)						
Rex-Cap and Cork Company. (See Recht, Frederick, assignor.)						
Rexroth, John J., assignor to himself and G. E. Shaw, Chicago, Ill. Door-hanger	697,218	Apr. 8	1561	350	99	351
Roy, Jean A. and J. M. B., Paris, France. Boiler	698,140	Apr. 22	3291	721	99	745
Rey, Jean M. B. (See Rey, Jean A. and J. M. B.)						
Reyann, David, assignor of one-half to J. C. Heyman, Philadelphia, Pa. Metallic strip-molding	711,788	Oct. 21	2681	591	101	589
Reyburn, John E. (See Pyott, Louis T., assignor.)						
Reyburn, John E. (See Sheets, Joshua S., assignor.)						
Reynard, Charles M. (See Taliaferro and Reynard.)						
Reyners, John W., and W. T. Sears, Harrisburg, Pa. Fluid-pressure-operated tool	706,688	Aug. 12	1330	294	100	1104
Reynolds, Alfred, <i>et al.</i> (See Graves, George A., assignor.)						
Reynolds, Carl, Columbus, Ohio. Automatic circuit-breaker	692,475	Feb. 4	446	104	98	890
Reynolds, Charles, Jersey City, N. J. Necktie	700,080	Sept. 28	3214	725	100	2035
Reynolds, Charles A. and S. A. Dallas, Tex. Plaiting apparatus	695,082	Mar. 11	1430	314	98	3031
Reynolds, Charles F., West Toledo, Ohio. Snap-hook	714,033	Nov. 18	3635	675	101	1337
Reynolds, Charles J., Boston, Mass. Seal-lock	704,107	July 8	1387	299	100	292
Reynolds, Charles J., Boston, assignor of two-thirds to D. M. Waitt, Somerville and B. F. Freethy, Boston, Mass. Trace holder and cast-off	697,365	Apr. 8	1809	405	99	405
Reynolds, Charles W., assignor of one-half to S. T. Pomeroy, Toledo, Ohio. Brick-press	700,823	May 27	3355	771	99	1917
Reynolds, Clayton J., Pittsburg, Pa. Dental tool for sitting cap-crowns	701,616	June 3	604	192	99	2234
Reynolds, Dexter, Albany, N. Y. Producing steel direct from oxid-of-iron ore	707,698	Aug. 26	3194	705	100	1813
Reynolds, Earl H., Sterling, Ill. Envelop-feeding attachment for type-writers	699,975	May 13	1649	379	99	1528
Reynolds, Earl H., Sterling, Ill. Car-loader	700,152	May 13	1999	458	99	1597
Reynolds, Earl H., Sterling, Ill. Car-loader	700,152	May 13	2001	459	99	1597
Reynolds, Edmund D. and O. B. Brockton, Mass. Hay-tedder	711,225	Oct. 14	1605	345	101	318
Reynolds, Edwin. (See Sharps, Leone S., assignor.)						
Reynolds, Edwin, Milwaukee, Wis. Controlling mechanism for steam-engine regulators	704,270	July 8	1685	367	100	353
Reynolds, Edwin, Milwaukee, Wis. Valve for air-compressors	717,029	Dec. 30	4744	1028	101	2901
Reynolds Electric Company. (See Oswald, Paul E., assignor.)						
Reynolds, Francis, and W. J. Underwood, Fall River, Mass. Mule	698,321	Apr. 22	3511	798	99	814
Reynolds, Frank A., Lewiston, Me., assignor to H. C. Parker, trustee, New York, N. Y. Fuel-feed for burners	695,212	Mar. 11	1315	380	98	2020
Reynolds, Frank A., Lewiston, Me., assignor, by mesne assignments, to Standard Power Company. Hydrocarbon-burner	713,494	Nov. 11	1981	448	101	1321
Reynolds, Frank M., Knoxville, Iowa. Milk cooler and aerator	695,171	Mar. 11	1605	356	98	2068
Reynolds, Frank M., Knoxville, Iowa. Detonating burglar-alarm	712,005	Oct. 28	3313	685	101	699
Reynolds, George H., Mansfield Depot, Conn., assignor to "Locomobile" Company of America, New York, N. Y. Roller-bearing for crank-shafts or the like	691,487	Jan. 21	2123	476	98	477
Reynolds, George H., Mansfield Depot, Conn., assignor to Locomobile Company of America. Frame for steam-engines	715,867	Dec. 16	2354	521	101	2358
Reynolds, George H., Chicago, Ill., assignor to Otis Elevator Company, East Orange, N. J. Control device for hoisting-machines	704,271	July 8	1687	367	100	354
Reynolds, George H., New York, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Electric motor	710,716	Oct. 7	605	127	101	124
Reynolds, George W. (See Church and Reynolds.)						
Reynolds, Harry J., assignor of one-half to E. T. Laundon, Cleveland, Ohio. Feed-water heater and purifier	706,782	Aug. 12	1523	338	100	1444
Reynolds, Henry S., Brooklyn, assignor to E. C. Seaman, New York, N. Y. Milk-can	707,011	Aug. 12	1928	431	100	1525
Reynolds, James A., Wabash, Ind. Axle-gate	698,554	Apr. 29	4080	891	99	916

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Reynolds, James H., Mittineague, assignor to G. J. O'Doherty and W. Vandenberg, Paper-making machine.	696,595	Apr. 1	357	85	90	79
Reynolds, James J. (See Klinger and Reynolds.)						
Reynolds, James J., Huntington, W. Va. Artificial tooth.	705,143	July 22	3426	744	100	743
Reynolds, James W., Jacksonville, Fla. Device for delivering mail-pouches to railway-cars.	704,757	July 15	2582	558	100	551
Reynolds, Jerry J. (See Reynolds, Pearl P. and J. J.)						
Reynolds, John R., Hartford, Conn., assignor, by mesne assignments, to Goodson Grapho-type Company. Type-base for making matrix-plates.	707,522	Aug. 19	2887	654	100	1745
Reynolds, John R., Hartford, Conn., assignor, by mesne assignments, to Goodson Grapho-type Company. Master type-bar for matrix-plates.	707,523	Aug. 19	2890	654	100	1746
Reynolds, John W., Ballston Spa, N. Y. Pump.	702,590	June 17	2384	544	99	2686
Reynolds, Jonathan E., Onset, assignor to O. A. Miller, Brockton, Mass. Acetylene-gas generator.	695,233	Mar. 11	1717	389	98	2991
Reynolds, Justus N., Leimont, Ill. Die for drawing sheet metal.	694,892	Mar. 4	3360	286	98	137
Reynolds, Lewis G., Dayton, Ohio. Air-tight and moisture-proof paper receptacle.	710,513	Oct. 7	232	50	101	47
Reynolds, Oliver B. (See Reynolds, Edmund D. and O. B.)						
Reynolds, Pearl P. and J. J., Laporte, Tex. Acetylene-gas generator.	711,346	Oct. 14	1836	399	101	397
Reynolds, Peter T., Butte, Mont. Mine-ventilator.	708,831	July 1	841	185	100	169
Reynolds, Sallie A. (See Reynolds, Charles A. and S. A.)						
Reynolds, Samuel and S. J., Plymouth, Pa. Journal-box.	717,452	Dec. 30	5531	1202	101	3068
Reynolds, Samuel D., assignor to M. D. Shipman, C. E. and S. E. Bradt, Dekalb, Ill. Vagon.	701,933	June 10	1156	265	99	2366
Reynolds, Samuel J. (See Reynolds, Samuel and S. J.)						
Reynolds, Stephen K., New York, N. Y. Pneumatic piano.	702,080	June 10	1343	306	99	2401
Reynolds, Sylvanus J., Saginaw, Mich. Carpet-sweeper.	701,393	June 3	193	42	99	2148
Reynolds, William G., Chicago, Ill. Printing apparatus.	714,744	Dec. 2	177	36	101	1573
Reynolds, William H., Houston, Tex. Steam-trap.	706,781	Aug. 12	1520	338	100	1443
Reynolds, Willie H., assignor to M. J. Doherty and T. Gahan, Chicago, Ill. Fluid-meter.	710,212	Sept. 30	4310	960	100	2381
Reynolds, James V., Molino, Tenn. Cultivating-plow.	692,908	Feb. 11	1255	278	98	1083
Rhea, Robert L., Peoria, Ill. Seeding-machine.	710,119	Sept. 30	4123	930	100	2888
Rheinische Metallwaren- und Maschinenfabrik. Firm. (See Müller, Gustav, assignor.)						
Rheutan, Garrett H., San Francisco, Cal., assignor of one-half to R. B. Lincoln, Waltham, Mass. Steam-generator.	692,031	Jan. 28	3130	707	98	701
Rheutan, Garrett H., San Francisco, Cal., assignor of one-half to R. B. Lincoln, Waltham, Mass. Steam-generator.	692,032	Jan. 28	3141	708	98	702
Rhine, Charles W. (See Brown and Rhine.)						
Rhine, George W., Altoona, Pa. Air-compressor.	699,570	May 6	825	194	99	1288
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Roving-breaker for spinning-frames.	697,018	Apr. 8	1221	272	99	278
Rhoades, Alonzo E., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Warper stop-motion mechanism.	708,471	July 1	175	40	100	37
Rhoades, Cicero, assignor of one-third to W. T. Stroud, Fredonia, Kans. Railway-rail joint.	705,963	July 20	5881	1108	100	1988
Rhoades, Lewis T., Phoenixville, assignor to M. V. Gehring, Philadelphia, Pa. Wave-detector.	711,123	Oct. 14	1382	300	101	301
Rhoades, Samuel M., and A. H. Hamrick, Philadelphia, Pa., assignors to Philadelphia Brewery Appliance Company. Racking device.	716,346	Dec. 16	3292	719	101	2552
Rhoades, Samuel M., assignor of one-half to F. McKernan, Philadelphia, Pa. Racking apparatus for filling barrels.	712,850	Nov. 4	729	105	101	1048
Rhodes, Charles L., Bridgeport, Conn. Adjustable form for paper-box machines.	690,416	May 6	555	127	99	1346
Rhodes, Charles M., Steubenville, Ohio. Hub-clutch for bicycles.	711,001	Oct. 14	1137	251	101	219
Rhodes, Edgar. (See Le Maitre, Parker, and Rhodes.)						
Rhodes, Hervey J., East St. Louis, Ill. Car-door.	695,836	Mar. 18	2796	637	98	2330
Rhodes, James B., Grand Rapids, Mich., assignor to Cronk and Carrier Manufacturing Company, Elmira, N. Y. Shears for cutting grass.	708,737	Sept. 9	1333	304	100	2264
Rhodes, John C., assignor to F. C. Austin Manufacturing Company, Harvey, Ill. Dumping-wagon.	714,230	Nov. 25	3478	764	101	1667
Rhodes, John C., New Bedford, Mass., assignor, by mesne assignments, to J. C. Rhodes & Co., Incorporated. Eyelet. (Reissue.)	693,443	Feb. 18	2314	507	98	1322
Rhodes, John C., New Bedford, Mass., assignor, by mesne assignments, to J. C. Rhodes & Co., Incorporated. Eyelet. (Reissue.)	712,008	July 8	2108	456	100	442
Rhodes, Joseph E., Boston, Mass. Blanket for use in printing.	705,294	July 22	3752	814	100	809
Rhodes, Joseph S., East Las Vegas, N. Mex. Terr. Stovepipe-holder.	705,904	July 29	5083	1108	100	1088
Rhodes, Seth A., Chicago, Ill. Optical instrument.	709,359	Sept. 16	2590	584	100	2546
Rhodes, Seth A., Chicago, Ill. Retinoscope.	713,348	Nov. 11	1721	388	101	1206
Rhodes, Wesley, assignor of nine-sixteenths to G. P. Wilson and G. T. Turner, Philadelphia, Pa. Ammunition-case.	693,336	Feb. 11	2109	462	98	1259
Rhodes, William G. (See Hawes and Rhodes.)						
Rhonemus, Harry A., assignor to S. F. Rhonemus, Springfield, Ohio. Leg-improver.	707,258	Aug. 19	2396	537	100	1642
Rhonemus, S. F. (See Rhonemus, Harry A., assignor.)						
Rhoad, Charles H., assignor to Heyland Patterson, Pittsburg, Pa. Slag-casting machine.	715,868	Dec. 16	2355	521	101	2358
Ribaud, George L., Grand Saline, Tex. Vacuum-pan.	697,366	Apr. 8	1811	405	99	405
Rice, Edwin W., Jr., Schenectady, N. Y., assignor to General Electric Company. Rotary transforming apparatus.	706,598	Aug. 12	1163	258	100	1367
Rice, Edwin W., Jr., Schenectady, N. Y., assignor to General Electric Company. Compounding alternators.	717,277	Dec. 30	5321	1134	101	3004
Rice, Edwin W., Jr., Schenectady, N. Y., assignor to General Electric Company. Exciting-alternator.	717,507	Dec. 30	5632	1222	101	3088
Rice, Hamilton, Mystic, Conn. Embossing-machine.	705,297	July 22	3753	815	100	810
Rice, Ida H., assignor to F. W. Rueckheim & Brother, Chicago, Ill. Knockdown paper box.	712,851	Nov. 4	731	168	101	1048
Rice, James N., Scranton, assignor to Anthracite Separator Company, Hazleton, Pa. Separator for ore, coal, &c.	691,972	Jan. 28	3037	683	98	682
Rice, Jesse T., Grand Rapids, Mich., assignor to himself, J. J. Ludwick, and C. F. Bacon. Device for automatically opening or closing switches.	694,420	Mar. 4	162	36,37	98	1747
Rice, Joel T., Hot Springs, Ark. Flyer-machine.	716,758	Dec. 23	4099	599	101	2740
Rice, John, Fort Collins, Colo. Horseshoe.	704,375	July 8	1887	493	100	38
Rice, John G., et al. (See Clark, Robert C., assignor.)	705,144	July 22	3428	744	100	743
Rice, John J., Camden, N. J. Watch chain or guard.	692,547	Feb. 4	587	138	98	918
Rice, John V., Jr., Edgewater Park, N. J., assignor, by mesne assignments, to W. O. Worth, Chicago, Ill., W. R. Donaldson, Louisville, Ky., and H. W. Kellogg, Battlet Creek, Mich. Igniter for explosive-engines.	699,014	Apr. 20	4978	1101	99	1122



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Rice, Joseph. (See Ennes, Charles E., assignor.)						
Rice, Joseph, assignor of two-thirds to W. H. and W. I. Reedy, Chicago, Ill. Elevator.	698,857	Apr. 20	4712	1038	99	1068
Rice, Joseph, assignor of two-thirds to W. H. and W. I. Reedy, Chicago, Ill. Elevator.	710,007	Sept. 30	3905	881	100	2844
Rice, Otis D., Winthrop, Mass. Program-clock	704,108	July 8	1389	299	100	292
Rice, Thomas B., Jr., Philadelphia, Pa. Safety device for woodworking-machines.	691,074	Jan. 14	1333	301	98	293
Rice, Victor A., Elyria, Ohio. Rotary engine.	711,261	Oct. 14	1662	358	101	360
Rice, Viets L., New York, N. Y., assignor, by mesne assignments, to C. J. Downing & Co., Inc. Engine.	705,145	July 22	3128	1744	100	774
Rice, W. H. (See Haydon, William H., assignor.)						
Rice, Walter E., Chelsea, Mass. Weighing-machine.	712,006	Oct. 28	3134	685	101	700
Rice, Welby M., assignor of one-half to I. R. Wolverton, Manassas, Va. Machine for removing garlic from wheat.	701,223	May 27	4062	939	99	2068
Rice, William P., Chicago, Ill. Treating air for cooling and moistening same.	701,506	June 3	404	92	99	2191
Rice, William P., Chicago, Ill. Apparatus for conveying grain in malt-houses.	703,558	Sept. 23	3038	677	100	2632
Rice, William P., Chicago, Ill. Steeping grain.	713,349	Nov. 11	1726	380	101	1938
Rice, William P., Chicago, Ill. Steeping grain.	715,005	Dec. 9	1809	401	101	2223
Rice, William P., Chicago, Ill. Apparatus for drying malt.	715,606	Dec. 9	1811	402	101	2223
Rich, Francis A., Karanzahake, New Zealand. Velocipede driving-gear.	707,012	Aug. 12	1929	432	100	1527
Rich, Henry M. (See Bancroft, Frank H., assignor.)						
Richard, Frank, Sunfield, Mich. Axletree repair implement.	705,868	July 29	4909	1067	100	1033
Richard, Honoré. (See Devaux and Richard.)						
Richard, Jay S. (See Price, Thomas M., assignor.)						
Richard, William, assignor of one-half to A. S. Prouse, Bloomville, Ohio. Shears.	703,444	July 22	4063	881	100	873
Richards, Albert. (See Hyde, Thomas H., assignor.)						
Richards, Arthur M., Chicago, Ill. Attachment for chairs.	704,109	July 8	1391	300	100	298
Richards, Arthur W., Indianola, Iowa. Corn-harvester.	693,066	Feb. 11	1557	340	98	1146
Richards, Arthur W., Indianola, Iowa. Corn-husker.	707,013	Aug. 12	1931	492	100	1527
Richards, Charles B. (See Master, James W., assignor.)						
Richards, Charles B., assignor to Cleveland Pneumatic Tool Company, Cleveland, Ohio, and Philadelphia Pneumatic Tool Company, Philadelphia, Pa. Pneumatic riveter.	695,115	Mar. 11	2121	454	98	2154
Richards, Ephraim S., Grandlake, Ark. Portable fireplace and chimney.	702,999	June 24	3068	728	99	2815
Richards, Francis H. (See Champion, Charles S., assignor.)						
Richards, Francis H., Hartford, Conn. Cigar-marking machine.	709,360	Sept. 16	2597	585	100	2548
Richards, Francis H., Hartford, Conn. Bearing.	714,050	Dec. 2	620	130	101	1939
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Playing-ball.	696,351	Mar. 25	3828	853	98	2558
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Manufacture of playing-balls.	696,352	Mar. 25	3831	854	98	2558
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Golf-ball.	696,353	Mar. 25	3835	854	98	2559
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Manufacture of golf-balls.	696,354	Mar. 25	3841	854	98	2560
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Playing-ball.	696,879	Apr. 1	912	210	99	192
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Golf-ball.	697,926	Apr. 15	2855	631	99	637
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Golf-ball.	697,927	Apr. 15	2855	631	99	637
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Manufacture of golf-balls or other articles.	699,682	May 6	954	220	99	1371
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Playing-ball.	699,683	May 13	1319	306	99	1459
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Manufacture of golf-balls.	700,154	May 13	2003	459	99	1597
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Manufacture of golf-balls.	700,155	May 13	2005	459	99	1598
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Golf-ball.	701,617	June 3	601	132	99	2834
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Golf-ball.	701,765	June 3	869	193	99	2290
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Golf-ball.	701,766	June 3	870	193	99	2290
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Golf-ball.	703,000	June 24	3167	728	99	2815
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Manufacture of playing-balls.	710,368	Sept. 30	4575	1032	100	2986
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Playing-ball.	711,177	Oct. 14	1519	325	101	329
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Playing-ball.	711,178	Oct. 14	1511	325	101	330
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Playing-ball.	711,227	Oct. 14	1609	345	101	349
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Playing-ball.	711,228	Oct. 14	1610	346	101	349
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Playing-ball.	711,229	Oct. 14	1612	346	101	350
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Playing-ball.	711,230	Oct. 14	1614	346	101	350
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Playing-ball.	711,529	Oct. 21	2187	476	101	484
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Playing-ball.	711,530	Oct. 21	2188	476	101	485
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Arlington, N. J. Golf-ball.	712,411	Oct. 28	3858	845	101	849
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Arlington, N. J. Playing-ball.	712,412	Oct. 28	3860	846	101	849
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Arlington, N. J. Golf-ball.	712,413	Oct. 28	3860	846	101	849
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Arlington, N. J. Playing-ball.	712,414	Oct. 28	3861	846	101	850
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Arlington, N. J. Playing-ball.	712,415	Oct. 28	3863	846	101	850
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company. Arlington, N. J. Playing-ball.	712,416	Oct. 28	3865	847	101	851

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Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company, Arlington, N. J. Playing-ball	715,295	Dec. 9	1233	263	101	2108
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company, Arlington, N. J. Playing-ball	716,347	Dec. 16	3293	719	101	2553
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company, Arlington, N. J. Playing-ball	716,348	Dec. 16	3295	719	101	2553
Richards, Francis H., Hartford, Conn., assignor to Kempshall Manufacturing Company, Arlington, N. J. Playing-ball	716,349	Dec. 16	3296	719	101	2554
Richards, Harry S. (See Black and Richards.)						
Richards, Henry, Pine Meadow, assignor to Stanley Rule & Level Company, New Britain, Conn. Plane	696,081	Mar. 25	3252	736	98	2438
Richards, James F., Luke, Md. Paper-making machine	707,014	Aug. 12	1933	433	100	1527
Richards, Jerre T., New York, N. Y. Attachment for uniting metal or wood beams	699,976	May 13	1657	381	99	1529
Richards, Jesse D., Wabash, assignor of one-half to E. Gillenwater and E. Baker, Sims, Ind. Vehicle-brake	700,089	May 13	1844	429	99	1568
Richards, John, San Francisco, Cal. Hydraulic ram	711,076	Oct. 14	1307	283	101	284
Richards, Kimsey T. (See Coulson, David E., assignor.)	716,936	Dec. 30	4554	988	101	2860
Richards, Thomas C., Winsted, Conn. Curtain-pole	705,296	July 22	3755	815	100	810
Richards, W. H., et al. (See Webb, Henry F., assignor.)						
Richards, Walter J., Milwaukee, Wis. Commutator-brush holder	708,064	Sept. 9	1197	273	100	2335
Richards, Walter J., assignor to N. A. Christensen, Milwaukee, Wis. Controlling apparatus for electric motors	692,352	Feb. 4	237	57	98	848
Richards, Walter J., assignor to N. A. Christensen, Milwaukee, Wis. Controlling apparatus for electric motors	704,665	July 15	2413	522	100	520
Richards, Willard F., Buffalo, assignor to Gould Storage Battery Company, New York, N. Y. Machine for making battery-grids	699,814	May 13	1321	306	99	1460
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Car-coupling	700,441	May 20	2605	595	99	1743
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Draw-bar attachment for locomotives	700,982	May 27	3637	836	99	1973
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Draw-bar attachment	701,018	June 3	603	133	99	2234
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Buffer for railway-cars	711,646	Oct. 21	2303	526	101	528
Richards, Willard F., Buffalo, assignor to C. M. Gould, New York, N. Y. Lubricator	706,201	Aug. 5	385	82	100	1195
Richards, William, Calumet, Mich. Stair-rod fastener	701,334	June 3	1395	42	99	2148
Richards, William C., St. Louis, Mo. Sample-trunk for hats	713,495	Nov. 11	1983	448	101	1321
Richards, William H., et al. (See Webb, Henry F., assignor.)						
Richards, William S., Albany, Oreg. Routing-machine	695,343	Mar. 11	1906	1423	98	2129
Richards, William S., Albany, Oreg. Rake	715,094	Dec. 9	1969	441	101	2256
Richards, Willis L. (See Akers and Richards.)						
Richardson, Aaron D., Beloit, Wis. Hydrocarbon-engine	690,610	Jan. 7	463	100	98	99
Richardson, Alfred, et al. (See Sporrang, Carl A., assignor.)						
Richardson, Artemas P. and E. S., Philadelphia, Pa.; said Artemas P. Richardson assignor to said E. S. Richardson. Garment-supporter	703,300	June 24	3712	855	99	2923
Richardson, Charles A., Kansas City, Mo. Stove	711,124	Oct. 14	1385	301	101	302
Richardson, Charles H., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Adjustable wall-bracket	717,121	Dec. 30	4904	1062	101	2985
Richardson, Earl H. (See Swan and Richardson.)						
Richardson, Edward B., Brookline, Mass. Skid	711,677	Oct. 21	2467	542	101	544
Richardson, Ernest A., Charenton, France. Plug or bush for connecting wires or bars to pieces of metal	694,582	Mar. 4	471	101	98	1813
Richardson, Eugene S. (See Nonnenmacher, Clyde S., assignor.)						
Richardson, Eugene S. (See Richardson, Artemas P. and E. S.)						
Richardson, Everett P., assignor of one-half to J. H. Richardson, trustee, Lawrence, Mass. Shoe-sewing machine	710,612	Oct. 7	415	86, 87	101	83
Richardson, Everett P., assignor of one-half to J. H. Richardson, trustee, Lawrence, Mass. Presser-foot mechanism for shoe-sewing machines	710,613	Oct. 7	422	87, 89	101	84
Richardson, Fannie L., Corinth, Miss. Air-bed	712,720	Nov. 4	472	111	101	996
Richardson, Francis A. (See Taylor, Brainerd, assignor.)						
Richardson, Francis A., Milnor, N. D. Lock	711,528	Oct. 21	2155	476	101	484
Richardson, Frank. (See Sweet, John M., assignor.)						
Richardson, Frederick, Providence, R. I. Tool-heater	692,476	Feb. 4	448	104	98	890
Richardson, George R., Leon, Wis. Brush	699,348	May 6	416	95	99	1259
Richardson, George W., assignor of two-thirds to E. W. Dickerson and W. W. Hubbell, Spruce, Wis. Brush	701,507	June 3	407	99	99	2192
Richardson, Harry C., assignor of one-half to F. Rea, Cincinnati, Ohio. Marine carousel	693,153	Feb. 11	1760	386	98	1184
Richardson, Harry H., Beaverfalls, Pa. Combination square and level	705,867	July 29	4908	1067	100	1053
Richardson, Henry R., St. Louis, Mo. Register	714,745	Dec. 2	179	36, 37	101	1873
Richardson, Horace M., assignor to F. D. Harding, Baldwin, Me. Washing-machine	716,580	Dec. 23	3784	823	101	2672
Richardson, James. (See Sullivan, James F., assignor.)						
Richardson, James V., deceased, Farrisville, Va.; W. H. Richardson, administrator. Knitting mechanism for bag-stringing machines	693,622	Feb. 18	2675	591	98	1395
Richardson, John F., Pittsburg, Pa. Street-indicator for street-cars	708,832	Sept. 9	1541	353	100	2306
Richardson, John H., trustee. (See Richardson, Everett P., assignor.)						
Richardson, Leonidas W., Dustin, assignor of one-half to V. H. Lockwood, Lawrence County, Tenn. Electric cut-off switch	699,633	May 6	957	221	99	1372
Richardson, M. E., et al. (See Norstrom, Nils E., assignor.)						
Richardson, Robert, Glasgow, Scotland. Rotating-cylinder pump	697,019	Apr. 8	1223	272	99	278
Richardson, Samuel L., New York, N. Y. Clothes-drying attachment for range-boilers	705,295	July 22	3754	815	100	810
Richardson, Samuel V., Duluth, Minn. Cooker	713,154	Nov. 11	1298	284	101	1181
Richardson, Thomas D., Philadelphia, Pa. Garment-hook	700,372	May 20	2479	598	99	1717
Richardson, Thomas D., Philadelphia, Pa. Bottle for putting up tooth, toilet, or other powders	716,759	Dec. 23	4100	899	101	2741
Richardson, Vinson E., McConnelsville, Ohio. Carpet-rag looper	695,837	Mar. 18	2797	637	98	2330
Richardson, W. H., administrator. (See Richardson, James V.)						
Richardson, William, Colfax, Wash. Shoe-cleaning machine	698,742	Feb. 18	2895	637	98	1441
Richardson, William, Colfax, Wash. Shoe-cleaning machine	712,332	Oct. 28	3711	811	101	816
Richardson, William C. (See Beisch, John, assignor.)						
Richardson, William S., et al. (See Eynon, John, assignor.)						
Richardson, William S., Boston, Mass., assignor to Ball & Socket Fastener Company, Nashua, N. H., and Boston, Mass. Rug or garment fastener	695,887	Mar. 18	2888	655	98	2351



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Richart, William K., Scranton, Pa. Device for applying belt-dressing to belts.	712,417	Oct. 28	3867	847	101	851
Richemond, Pierre, Pantin, assignor to Société Anonyme des Etablissements Weyher et Richemond, Pantin, Seine, France. Valve	695,234	Mar. 11	1719	381	98	2001
Richert, Emanuel T. (See Muller and Richert.)						
Richey, Charles V., assignor of one-fourth to L. C. Bailey, Washington, D. C. Electric-railway signal	712,333	Oct. 28	3712	811	101	816
Richey, Eugene W., et al. (See McGill, John J., assignor.)						
Richie, Elias A., North Middletown, Ky. Animal-poke	704,024	July 15	2945	632	100	633
Richmond, Arthur A., East Orange, N. J., assignor, by mesne assignments, to Patent Button Company, Waterbury, Conn. Button	691,178	Jan. 14	1509	340	98	330
Richmond, C. B., et al. (See Sullivan, William H., assignor.)						
Richmond, Cassius M., New York, N. Y. Air-ship	695,580	Mar. 18	2345	582	98	2239
Richmond Cedar Works. (See Johnson, John D. A., assignor.)						
Richmond City Mill Works. (See McMeans, Orange E., assignor.)						
Richmond, Frederick O., Lynn, Mass. Device for extracting tendons from the legs of fowls	710,803	Oct. 7	789	169	101	162
Richmond, Henry E., Westwood, N. J. Stereoscope	705,706	July 29	4629	1003	100	996
Richmond, John R., Cathcart, Scotland. Surface condensing apparatus	713,801	Nov. 18	2385	576	101	1462
Richmond, John R., Glasgow, Scotland. Steam surface condenser	716,760	Dec. 23	4101	900	101	2741
Richmond Locomotive Works. (See Gillis, Harry A., assignor.)						
Richner, Levi, Crawfordsville, Ind. Engine	699,241	May 6	196	46,47	99	1214
Richter, Christian F., Brandenburg-on-the-Havel, Germany. Grass or grain mowing machine	711,125	Oct. 14	1387	301	101	362
Richter, Frederick W., Chicago, Ill. Floor or sidewalk cleaner	714,034	Nov. 18	3037	675	101	1557
Richter, Friedrich A. (See Schütze, August, assignor.)						
Richter, Friedrich A., Rudolstadt, Germany. Toy	706,689	Aug. 12	1333	295	100	1404
Richter, Georg F., Stettin, Germany. Sectional gas-retort	700,824	May 27	3358	771	99	1918
Richter, George H., Boston, Mass. Document-file	712,596	Nov. 4	258	63	101	951
Richter, Herman, Cullman, Ala. Bullet-mold	705,116	July 22	3430	745	100	744
Rickard, Elziver O., assignor to Kelsey Furnace Company, Syracuse, N. Y. Furnace	705,965	July 29	5084	1109	100	1088
Rickard, Elziver O., assignor to Kelsey Furnace Company, Syracuse, N. Y. Furnace	706,496	Aug. 5	984	216	100	1315
Ricke, George H., Cincinnati, Ohio, assignor to Perfection Bush Company, Covington, Ky. Bush	710,006	Sept. 30	3904	881	100	2844
Rickel, George E., and J. W. Potter, Oketo, Kans. Gate-hinge	715,869	Dec. 16	2357	522	101	2350
Ricker, Henry H. (See Wardwell and Ricker.)						
Ricker, James H., assignor of two-thirds to S. P. Greene and J. A. T. Evans, Fort Worth, Tex. Fuel compound	707,722	Aug. 26	3310		100	1849
Rickert, John W., assignor of one-half to J. C. Williams, South Milwaukee, Wis. Tobacco-pipe	713,242	Nov. 11	1473	331	101	1215
Ricketts, James H., assignor of one-half to G. W. Wilson, Kingfisher, Okla. Ter. Compressed-air water-elevator	697,171	Apr. 8	1479	334	99	334
Ricketts, John L., assignor to L. R. Fletcher, deceased, Philadelphia, Pa.; E. J. Fletcher, administratrix. Electrical safety alarm and signal mechanism for railways.	707,639	Aug. 26	3136	705	100	1813
Rickey, Israel E. (See Chase and Rickey.)						
Rickey, James W., Minneapolis, Minn., and M. G. Barnes, Sterling, Ill.; said Barnes assignor to said Rickey. Water-wheel-penstock construction	708,216	June 24	3583	823	99	2806
Rickey, William H., East Orange, N. J. Steam-dampener	713,296	Dec. 9	1233	264	101	2108
Rickey, William H., East Orange, N. J. Starching-machine	715,297	Dec. 9	1236	264	101	2108
Rickman Drill and Channeller Company. (See Rickman, Robert L., assignor.)						
Rickman, Robert L., assignor to Rickman Drill and Channeller Company, Denver, Colo. Valveless engine for drills	712,597	Nov. 4	260	63	101	957
Rickmann, Rudolf, Kalk, near Cologne, Germany. Manufacture of white and light-colored enamels and glazings	716,106	Dec. 16	2830		101	2469
Ridd, John A., San Antonio, Tex. Car-seat cleaner	699,634	May 6	959	221	99	1873
Riddell, John F., Clinton, Mass. Tuft-yarn spool for tufted-pile-fabric looms	701,934	June 10	1157	266	99	2367
Riddell, Paris J., Brooklyn, assignor to Brunswick-Balke-Collender Company, New York, N. Y. Bowling-alley ball return-way	711,789	Oct. 21	2681	501	101	589
Riddell, Paris J., Brooklyn, assignor to Brunswick-Balke-Collender Company, New York, N. Y. Bowling-alley pin-spot	715,215	Dec. 2	1080	232	101	2058
Ridderhof, Cornel, assignor to Wilmarth & Morman Co., Grand Rapids, Mich. Friction-clutch	691,488	Jan. 21	2126	476	98	478
Ridderhof, Cornel, assignor to Wilmarth & Morman Company, Grand Rapids, Mich. Drill-grinding machine	702,885	June 17	2931	676	99	2750
Riddefick, William J., Kingston, N. Y. Rind-scoring	699,815	May 13	1325	308	99	1460
Riddle, James D., Chatham, Va. Cultivator	704,376	July 8	1889	410	100	399
Riddle, James M., New York, N. Y. Mechanism for emptying cars	690,877	Jan. 7	959	215	98	202
Rideout, Charles A. (See Andros, Randall B., assignor.)						
Rider, Ebenezer W., Detroit, Mich. Electric low-water alarm	708,472	July 1	176	41	100	37
Ridgely and Johnson Tool Company. (See Vaughan, Henry H., assignor.)						
Ridgway, Charles. (See Hoy, Erma L., assignor.)						
Ridgway, Ellis B., Coatesville, Pa. Fluid-pressure-actuated hoist, &c.	707,015	Aug. 12	1934	433	100	1528
Ridgway, John J., Rosebank, N. Y. Railway-tie	690,998	Jan. 14	1195	270	98	265
Ridgway, John J., Rosebank, N. Y. Conveyor of two-belt	707,355	Aug. 19	2385	584	100	1682
Ridgway, Orville M. (See Schilling and Ridgway.)						
Riding, Richard and W., New Bedford, and F. P. King, Fairhaven, Mass. Picker-staff check for looms	711,002	Oct. 14	1138	252	101	250
Riding, William. (See Riding and King.)						
Ridings, John G., Amarillo, Tex. Riding-spur	691,421	Mar. 4	164	37	98	1747
Ridley, Cuthbert W., et al. (See Nelson, William H., assignor.)						
Ridlon, Charles A., Alba, Mich., assignor of two-thirds to W. K. and G. A. Jackson, Buffalo, N. Y. Apparatus for drying and polishing broom-handles	708,217	June 24	3385	824	99	2897
Ridlon, Charles A., Alba, Mich., assignor of two-thirds to W. K. and G. A. Jackson, Buffalo, N. Y. Polishing and drying broom-handles	707,159	Aug. 19	2216	497	100	1693
Riebe, August, assignor to Deutsche Waffen- & Munitionsfabriken, Berlin, Germany. Collar for shaft-bearings or the like	714,611	Nov. 25	4155	919	101	1893
Riebe, Louis, Lansford, Pa. Block-signal system	700,240	May 20	2302	503	99	1662
Riebe, Paul C. (See Hamel, Henry P., assignor.)						
Rieber, Andreas, Flemsburg, Germany. Means for propelling vehicles	704,377	July 8	1893	410	100	400
Rieck, Fred W., and E. W. Euge, St. Louis, Mo. Nut-lock	693,154	Feb. 11	1761	387	98	1184
Riecke, Paul, Dessau, Germany. Gas-washer	701,619	June 8	605	133	99	2234
Riecker, Charles E., and H. S. Walter, assignors to Stanley Rule and Level Company, New Britain, Conn. Plane-lift	707,356	Aug. 19	2586	584	100	1682

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Riedel, Karl, and H. Schlegner, Rockendorf, Germany. Die for brick-pressing machine.	692,353	Feb. 4	241	57	98	849
Rielfel, August, Philadelphia, Pa. Micrometer-gage.	716,279	Dec. 16	3155	691	101	2526
Riegel, Harry, Pontiac, Ill. Casket-handle attachment.	702,746	June 17	2873	615	99	2696
Riegel, Samuel S., Dunkirk, N. Y. Locomotive-boiler.	694,786	Mar. 4	876	194	98	1897
Riegler, Leo A., Cincinnati, Ohio. Expanding gate-valve.	711,262	Oct. 14	1664	359	101	360
Riehl, Amos, assignor of one-third to W. Predmore, Akron, Ohio. Metal and rubber horseshoe.	696,490	Apr. 1	173	42	99	41
Riehl, Henry Jr., Philadelphia, Pa. Narrow-ware loom.	699,977	May 13	1658	381	99	1530
Riel, Joseph G., Mittleague, Mass. Device for clearing flume-gratings.	710,804	Oct. 7	790	169	101	162
Ries, Elias E., New York, N. Y. Automatic cycle or bicycle skate.	706,783	Aug. 12	1524	338	100	1444
Ries, Moses. (See Pfugradt and Ries.)						
Riesberg, Van Vechton W., Philadelphia, Pa. Apparatus for making carbonic-acid or other gas.	704,272	July 8	1691	369	100	354
Riesberg, Van Vechton W., Philadelphia, Pa. Making carbonic-acid gas.	706,111	Aug. 5	201	42	100	1158
Riesner, David von. (See Schmidt, Adolf G., assignor.)						
Rieser, Emile. (See Glasgow, Bruce M., assignor.)						
Riess, Paul, and C. Lange, New Orleans, La. Gas-saving attachment.	717,278	Dec. 30	5222	1134	101	3004
Rieter, Benno, Winterthur, Switzerland. Machine for cross-winding spools closed-coiled.	708,001	June 24	3169	728	99	2815
Rietzschel, Alexander H., Munich, Germany. Camera.	705,445	July 22	4034	882	100	873
Riesinger, George, Buffalo, N. Y. Flexible piping for the air, steam, or other piping for railway-car.	710,514	Oct. 7	233	51	101	48
Riftart, Scipion, assignor to Société Anonyme des Wagons Tubulaires, Brussels, Belgium. Railway-vehicle frame or the like.	698,736	Apr. 29	4443	981	99	1006
Rigaud, Albert, St. Julien, France. Apparatus for coloring hides.	691,075	Jan. 11	1334	301	98	293
Rigby, Clark F., Mannington, W. Va. Oil-saver.	696,747	Apr. 1	669	152	99	143
Rigby, Clark F., New Martinsville, W. Va. Rope-clamp.	696,747	Apr. 1	670	152	99	143
Rigby, Clark F., New Martinsville, W. Va. Guide for oil-well-pump rods.	696,749	Apr. 1	671	152	99	143
Rigby, Clark F., New Martinsville, W. Va. Casing-head.	703,832	July 1	842	185	100	169
Rigby, Nicholas L., Los Angeles, Cal. Vaporizer and burner.	712,721	Nov. 4	473	112	101	996
Riggins, Julian B., and H. Gordan, Clarksville, Va. Churn.	708,665	Sept. 9	1199	273	100	2225
Riggs-Spencer Company. (See Case, Frank B., assignor.)						
Rignall, William B., Edinburgh, Scotland. Convertible bicycle-rest.	706,453	Aug. 5	916	198	100	1301
Riker, Andrew L., New York, N. Y., assignor, by mesne assignments, to Morton Trust Company, trustee. Safety device for motor-vehicles.	700,681	Sept. 23	3245	725	100	2605
Riker, Andrew L., Shorthills, N. J., assignor to "Locomobile" Company of America, New York, N. Y. Motor-vehicle frame.	711,441	Oct. 14	1905	433	101	440
Riker, Clarence B., Maplewood, N. J. Device for mounting entomological specimens.	696,750	Apr. 1	672	152	99	143
Rikli, Adolf, Eisenwerk Cus, near Balsthal, Switzerland. Folding head-rest.	697,752	Apr. 15	2550	567	99	571
Riley, Charles E. (See Illingworth, Harry I., assignor.)						
Riley, Charles E., Newton, Mass., assignor to Howard and Bullough American Machine Company, Limited, Pawtucket, R. I. Conical-tube holder for winding-machines.	702,076	June 10	1446	325	99	2423
Riley, James F., Philadelphia, Pa. Hat-stand.	710,805	Oct. 7	791	169	101	162
Riley, James W., assignor of one-half to D. C. Wilbur, Marshalltown, Iowa. Bath-cabinet.	706,476	Aug. 5	952	207	100	1308
Riley, John, New York, N. Y. Horseshoe.	697,172	Apr. 8	1481	332	99	335
Riley, William C., San Francisco, Cal. Sterilizing and preserving cocaine.	704,738	July 15	2584	558	100	555
Rimoli, Emile, Paris, France. Photographic developing apparatus.	704,933	July 15	2580	638	100	639
Rimailho, Emile, Paris, France. Photographic developing apparatus.	707,450	Aug. 19	2756	625	100	1717
Rinkelake, August, Münster, Germany. Construction of ceilings and walls.	693,905	Feb. 25	3318	710	98	1524
Ring, Byron, assignor of one-half to H. Marshal, San Francisco, Cal. Printing attachment for roll-paper.	695,416	Mar. 11	2027	455	98	2155
Ring Frame Thread Protector Company. (See Wall and Schedlbauer, assignors.)						
Rinsget Company. (See Ford, William H., assignor.)						
Rinker, Benjamin F., Mooresville, Ind. Harrow for leveling-machine.	705,298	July 22	3759	816	100	810
Rinsche, Frank C., assignor to Universal Accountant Machine Company, St. Louis, Mo. Calculating-machine.	709,244	Sept. 16	2381	539	100	2501
Rintoul, William. (See Nathan, Thomson, and Rintoul.)						
Riolet, Felix, Geneva, Switzerland. Cork-extractor.	695,235	Mar. 11	1720	381	98	2091
Riordon, Robert R., assignor to W. E. Stockett & Co., Washington, D. C. Spelling-manual.	707,800	Aug. 26	3514	793	100	1889
Riotte, Carl C. and E. A., New York, N. Y., assignors, by mesne assignments, to U. S. Long Distance Automobile Company, Elizabeth, N. J. Mixing or spraying device.	696,146	Mar. 25	3424	769	98	2475
Riotte, Carl C. and E. A., New York, N. Y., assignors, by mesne assignments, to U. S. Long Distance Automobile Company, Elizabeth, N. J. Igniter.	696,147	Mar. 25	3427	769	98	2476
Riotte, Eugene A. (See Riotte, Carl C. and E. A.)						
Ripley, Daniel C., Pittsburg, Pa. Glass-gathering machine.	697,886	Apr. 15	2793	618	99	626
Ripley, Daniel C., Pittsburg, Pa. Glass-shaping apparatus.	709,724	Sept. 23	3519	746	100	2710
Ripley, Daniel C., assignor to United States Glass Company, Pittsburg, Pa. Making hollow glass articles.	709,796	Sept. 23	3477	753	100	2742
Ripley, Daniel C., assignor to United States Glass Company, Pittsburg, Pa. Apparatus for the manufacture of glassware.	709,797	Sept. 23	3478	754	100	2742
Ripley, James R., Memphis, Tenn. Machine for impressing box material.	694,992	Mar. 11	1260	275	98	1996
Ris, Christopher, assignor to Aniline Colour and Extract Works, formerly John R. Geigy, Basle, Switzerland. Blue sulphur dye and making same.	696,751	Apr. 1	674	152	99	144
Ris, Christopher, assignor to Aniline Colour and Extract Works, formerly John R. Geigy, Basle, Switzerland. Green sulfur dye and making same.	698,555	Apr. 29	4081	882	99	916
Rischmuller, George, San Francisco, Cal. Door-opener.	705,147	July 22	3431	745	100	744
Risdon Iron and Locomotive Works. (See Postlethwaite, Robert H., assignor.)						
Risdon Iron and Locomotive Works. (See Telford, George, assignor.)						
Riser, Knud S., Grand Rapids, Mich. Rib for concrete-arch construction.	694,193	Feb. 25	3780	836	98	1636
Riser, E. Rolan G., Chicago, Ill. Eyeglass.	711,735	Oct. 21	2575	566	101	567
Risner, Nicholas, and E. G. Burkhardt, Hawkeye, Iowa. Automatic railway-gate.	698,556	Apr. 29	4082	891	99	917
Ritchey, Joseph K., Roaring Spring, Pa. Blackboard.	692,354	Feb. 4	242	58	98	849
Ritchie, Andrew M., Brookline, Mass. Magnet holding and adjusting apparatus for compensating binnacles.	702,330	June 10	1873	427	99	2509
Ritchie, Arthur F., Duluth, Minn. Piston and piston-rod.	694,078	Feb. 25	3565	787	98	1574
Ritchie, Gaines G., Sangamon, Ill. Railway signaling device.	694,933	Mar. 4	1068	236	99	1936
Ritchie, Gaines G., Sangamon, Ill. Cutting attachment for check-books or similar articles.	715,870	Dec. 16	2358	522	101	2359
Ritchie, George M., Bridgeport, Conn. Handle-wheel for valves.	716,761	Dec. 23	4102	900	101	2741
Ritchie, William J., Hoboken, N. J. Mechanism for operating sluice-gates.	695,938	Mar. 18	2798	637	98	2330
Rittenhouse, Andrew A., Pittstown, N. J. Envelop.	717,279	Dec. 30	5223	1134	101	3005



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Rittenhouse, Joseph, Philadelphia, Pa. Lock for milk-cans.....	692,477	Feb. 4	449	105	98	890
Ritter, Charles W., Philadelphia, Pa. Toy.....	695,700	Mar. 18	2551	577	98	2279
Ritter, Georg, Stuttgart, Germany. Telephone system.....	691,664	Jan. 21	2441	549	98	543
Ritter, Georg, Stuttgart, Germany. Telephone system.....	691,665	Jan. 21	2442	549	98	544
Ritter, Gilbert P., Chicago, Ill. Car-bolster.....	703,600	July 1	416	96	100	82
Ritter, Gilbert P., Chicago, Ill. Friction draft-gear.....	704,110	July 8	1394	300	100	293
Ritter, Gilbert P., Chicago, Ill. Adjustable brake-head.....	705,290	July 22	3760	816	100	811
Ritter, Gilbert P., Chicago, Ill. Adjustable brake-head.....	705,611	July 29	4456	966	100	963
Ritter, Henry. (See Lunken and Ritter.)						
Ritter, Henry, assignor to Lunkenheimer Company, Cincinnati, Ohio. Lubricator.....	691,570	Jan. 21	2260	508	98	505
Ritter, Hermann, Dennison, Ohio, and J. H. Rowland, Bloomington, Ill. Lock-hinge.....	716,581	Dec. 23	3786	823	101	2673
Ritter, Isaac, Jr., assignor to W. A. N. Dorland, Philadelphia, Pa. Tool for finishing metal surfaces or the like.....	700,825	May 27	3359	772	99	1918
Ritter, Jacob, New York, N. Y. Clasp for chateaines.....	704,212	July 8	1585	342	100	332
Ritter, Jacob, New York, N. Y. Clasp.....	716,200	Dec. 16	8156	691	101	2526
Ritz, August N., Milwaukee, Wis. Paste receptacle and brush.....	711,678	Oct. 21	2468	542	101	544
Ritz, August N., Milwaukee, Wis. Paste-receptacle.....	711,679	Oct. 21	2469	543	101	544
Ritzler, John A. (See Swaney, Fletcher D., assignor.)						
Rivers, Eugene D. (See Hartley, Rivers, and Beach.)						
Rivers, William E., Tracy, Iowa. Draft-equalizer.....	706,202	Aug. 5	388	83	100	1196
Rivers, William E., Oldbridge, N. J., assignor to Old Bridge Enamelled Brick and Tile Co., of New Jersey. Kiln for ceramic wares.....	693,155	Feb. 11	1762	387	98	1185
Rives, J. J., et al. (See Scantlebury, William, Sr., assignor.)						
Rives, R. Bathurst, et al. (See Scantlebury, William, Sr., assignor.)						
Rivett, Edward, Boston, Mass. Grinding-machine.....	690,999	Jan. 14	1197	271	98	265
Rivett, Edward, Boston, Mass. Lathe attachment for cutting spirals.....	692,093	Jan. 28	3143	709	98	703
Rivett, John. (See Hill and Rivett.)						
Roach, Albert C. (See Roach, William G. and A. C.)						
Roach, Christopher J., Hartford, Conn. Recorder.....	704,925	July 15	2946	632	100	634
Roach, Fimis E., Chicago, Ill. Crown-soldering pliers.....	695,625	Mar. 18	2425	549	98	2255
Roach, John R., Cale, Ind. Hand-car.....	709,175	Sept. 16	2411	509	100	2471
Roach, William, Argyle, Tex. Blower for forges.....	710,614	Oct. 7	427	89	101	85
Roach, William G. and A. C. assignors of three-fifths to H. C. Yeiser and O. H. L. Wernicke, Cincinnati, Ohio. Coloring marble, stone, or the like.....	700,090	May 13	1846		99	1568
Roake, John S., Brooklyn, assignor to W. K. Hale, Catskill, N. Y., and C. W. Kürsteiner, Englewood, N. J. Distilling apparatus.....	690,611	Jan. 7	464	100	98	100
Roake, John S., Brooklyn, assignor to W. K. Hale, Catskill, N. Y., and C. W. Kürsteiner, Englewood, N. J. Distilling apparatus.....	700,373	May 20	2481	569	99	1717
Roake, John S., Brooklyn, assignor to W. K. Hale, Catskill, N. Y., and C. W. Kürsteiner, Englewood, N. J. Distilling apparatus.....	700,374	May 20	2483	569	99	1717
Roan, James, Portsmouth, Va. Apparatus for boring out tubes.....	690,878	Jan. 7	960	216	98	202
Roan, James, Portsmouth, Va. Water-purifying apparatus.....	700,826	May 27	3360	772	99	1918
Robb, Henry G. (See Mosley and Robb.)						
Robb, William J., Portadown, Ireland. Internal-combustion engine.....	700,241	May 20	2304	504	99	1662
Robb, William J., Portadown, Ireland. Valve-gear for explosive-engines.....	715,150	Dec. 2	3958	207	101	2032
Robbin, Fredrick, New York, N. Y. Hot-water heater.....	690,612	Jan. 7	466	101	98	100
Robbins, Alfred L., Chicago, Ill. Barometer.....	706,112	Aug. 5	202	42	100	1158
Robbins, Andrew L. (See Mahana and Robbins.)						
Robbins, Benjamin G., Lexington, N. C. Register.....	701,935	June 10	1159	266	99	2367
Robbins, C. A. (See Hobbs, Bion D., assignor.)						
Robbins, Edward R., assignor to J. E. and R. J. Lynn, Sacramento, Cal. Game-table.....	712,732	Nov. 4	475	112	101	997
Robbins, Frank A., Worcester, Mass. Combination-tool.....	707,723	Aug. 26	3310	741	100	1849
Robbins, George B. (See Sharp, William E., assignor.)						
Robbins, John A. (See Weathers, James, assignor.)						
Robbins, John C., Waltham, Mass. Two-speed and differential gear for motor-vehicles.....	705,790	July 29	4773	1035	100	1028
Robbins, Lemuel A., Constantine, Mich. Washbench.....	706,785	Aug. 12	1529	339	100	1445
Robbins, Milo J., Chattanooga, Tenn. Fireplace.....	714,241	Nov. 25	3480	765	101	1667
Robbins, William A. (See Springer and Robbins.)						
Robbins, William H., J. J. Bye, and A. E. Jones, Ellwood City, Pa. Mill for rolling seamless tubes.....	692,478	Feb. 4	450	105	98	890
Robbins, Zenas C., Washington, D. C. Railway-tie.....	699,015	Apr. 29	4980	1101	99	1123
Robert Mitchell Machinery Company. (See Grall, Joseph G., assignor.)						
Roberts, A. J., et al. (See Manzer, Eugene N., assignor.)						
Roberts, A. P., et al. (See Andrews, John M., assignor.) (Reissue.)						
Roberts, Benjamin C., Windsor Station, Va. Cornstalk-cutter.....	695,581	Mar. 18	2347	532	98	2240
Roberts, C. P. (See Andrews, John M., assignor.) (Reissue.)						
Roberts Car & Wheel Company. (See Donovan, James, assignor.)						
Roberts, Charles A., Rensselaer, Ind. Top-box fastener for wagon-bodies.....	704,926	July 15	2948	632	100	634
Roberts, Charles C., Ansonia, Conn. Metal-boring machine.....	707,016	Aug. 12	1936	433	100	1528
Roberts, Charles C., Ansonia, Conn. Friction-drill chuck.....	715,298	Dec. 9	1238	264	101	2109
Roberts, Charles E., Oakpark, Ill. Ball-bearing.....	698,557	Apr. 29	4033	892	99	917
Roberts, Daniel W., Worcester, Mass. Means for actuating window-blinds.....	699,850	May 13	1405	325	99	1477
Roberts, David E., et al. (See Nolan and Mortenson, assignors.)						
Roberts, Edward E., Cloughton, near Birkenhead, England. Picking-up appliance for balls.....	698,226	Apr. 22	3456	759	99	782
Roberts, Elijah R., Bellevue, Pa. Electric-lamp glower and attaching terminal wires thereto.....	710,369	Sept. 30	4577	1032	100	2986
Roberts, Emmett R., Indianapolis, Ind. Egg-beater.....	692,479	Feb. 4	452	105	98	891
Roberts, Felix J., Tesla, W. Va. Cuff-holder.....	704,111	July 8	1397	300	100	294
Roberts, George E., Sr., New York, N. Y. Nut-lock.....	709,043	Sept. 16	1978	452	100	2416
Roberts, George H., Sr., assignor to himself and C. Wodle, New York, N. Y. Ticket-holder for car-seats.....	699,608	Sept. 23	3122	695	100	2670
Roberts, George I., New Rochelle, N. Y. Trap or separator.....	703,610	July 1	414	97	100	82
Roberts, George J., Dayton, Ohio. Water-pumping apparatus.....	715,871	Dec. 16	2359	522	101	2359
Roberts, George S. (See Carroll and Roberts.)						
Roberts, Goodwin M. (See Johnson and Roberts.)						
Roberts, Guy T., Coronado Beach, Cal. Lock.....	700,242	May 20	2205	504	99	1668
Roberts, Henry L., Philadelphia, Pa. Window-screen.....	714,519	Nov. 25	3981	882	101	1765
Roberts, Henry P., Boston, assignor to A. S. Mitchell, Lexington, and W. G. Jewett, Leominster, Mass. Curtain pole and hanger.....	701,817	June 3	954	211	99	2308
Roberts, Henry R., Northwood, Iowa. Spout for flour-sifters.....	701,936	June 10	1161	266	99	2367

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Roberts, Horace L., New York, N. Y. Machine for gathering signatures.	715,872	Dec. 16	2361	522 523 524	101	2359
Roberts, Isaiah L., New York, N. Y. Manufacturing calcium carbide.	708,921	Sept. 9	1711	41	100	2345
Roberts, James L., Pontiac, Ill. Car-loader.	703,473	July 1	177	41	100	37
Roberts, James M., Andrew County, Mo. Adjustable rocking and reclining chair.	702,891	June 10	1875	427 428	99	2309
Roberts, John C., London, England. Veneer for use in the manufacture of boxes, &c.	692,909	Feb. 11	1257	278	98	1083
Roberts, John D., New Decatur, and F. Kestler, Birmingham, Ala. Hose-coupling for air-brakes, vacuum-brakes, or steam-brakes.	605,830	Mar. 18	2800	638	98	2331
Roberts, John E., Onedia, Ky. Locomotive-engine.	716,107	Dec. 16	2830	622 623	101	2160
Roberts, John H., Shelbyville, Ill. Rail-joint.	694,993	Mar. 11	1261	276 277 278	98	1907
Roberts, John L., St. Louis, Mo. Cash-register.	713,243	Nov. 11	1474	334 335 336	101	1215
Roberts, John N., assignor to Lilly & Roberts Veneer Company, Indianapolis, Ind. Veneer-slicer.	704,213	July 8	1586	343	100	382
Roberts, Luke J. (See Tracy, Henry A., assignor.)						
Roberts, Max, et al. (See Curry, Monroe, assignor.)						
Roberts, Shelby S., Louisville, Ky., and A. H. Mann, Evansville, Ind. Switch for street-railways.	714,240	Nov. 25	3479	765	101	1667
Roberts, Webster M., Brownsville, Ore. Metal-working machine.	697,887	Apr. 15	2794	618	99	630
Roberts, William B., Washington, D. C. Spoke-socket.	714,951	Dec. 2	621	130 131	101	1990
Roberts, William D. (See Sturgis, Francis M., assignor.)						
Roberts, William P., et al. (See Curry, Monroe, assignor.)						
Robertshaw, Frederick W., Pittsburg, Pa. Water-heater controlling and reversing valve.	692,480	Feb. 4	453	106	98	891
Robertshaw, Frederick W., Pittsburg, Pa. Water-heater controlling and reversing valve. (Reissue.)	12,046	Oct. 21	2968	653	101	649
Robertson, Alexander W., London, England. Apparatus for loading or unloading bulk cargoes.	692,355	Feb. 4	243	58, 59	98	849
Robertson, Alexander Y., assignor to Illinois Malleable Iron Company, Chicago, Ill. Pipe-coupling.	694,422	Mar. 4	165	37	98	1748
Robertson, Andrew. (See Robertson, William and A.)						
Robertson, Arthur R., Somerville, Mass. Magnetic tack-hammer.	710,615	Oct. 7	423	80	101	85
Robertson, Elijah, Paragould, Ark. Broom.	701,393	June 3	196	43	99	2148
Robertson, George F., Beaumont, Tex., assignor to Perfect Domestic Oil Burner Company. Oil-burner.	715,151	Dec. 2	960	208	101	2033
Robertson, George R., Sydney, New South Wales. Fastening for hoop-irons with which bales containing wool or other soft produce are secured.	691,915	Jan. 28	2930	660	98	2661
Robertson, Henry C., Fayetteville, W. Va. School-bag.	701,224	May 27	4084	939	99	069
Robertson, James D., assignor, by mesne assignments, to Thames Arms Company, Norwich, Conn. Revolver.	708,078	Sept. 2	146	36	100	2011
Robertson, James D., assignor, by mesne assignments, to Thames Arms Company, Norwich, Conn. Ejector mechanism for revolvers.	710,008	Sept. 30	3907	882	100	2844
Robertson, John, Cincinnati, Ohio. Pump for atomizers.	694,666	Mar. 4	632	138	98	1846
Robertson, John, Cincinnati, Ohio. Air-pump.	695,492	Mar. 18	2153	496	98	2200
Robertson, John, Cincinnati, Ohio. Atomizing apparatus.	703,611	July 1	416	97, 98	100	82
Robertson, John, Portland, Me. Window shade and screen holder.	710,515	Oct. 7	235	51	101	48
Robertson, John A. (See Hutchings, Robertson, and Mutschler.)						
Robertson, John A., and C. E. Hutchings, assignors to Rochester Optical and Camera Company, Rochester, N. Y. Photographic-camera attachment.	704,378	July 8	1894	410	100	400
Robertson, John A., and C. E. Hutchings, assignors to Rochester Optical and Camera Company, Rochester, N. Y. Photographic view-finder.	704,379	July 8	1896	410	100	400
Robertson, John A., and C. E. Hutchings, assignors to Rochester Optical and Camera Company, Rochester, N. Y. Divided-bed photographic camera.	712,324	Oct. 28	3713	811	101	816
Robertson, John A., and C. E. Hutchings, assignors to Rochester Optical and Camera Company, Rochester, N. Y. Adjusting mechanism for photographic-camera fronts.	716,108	Dec. 16	2832	623	101	2460
Robertson, John A., Rochester, N. Y., and W. H. Wright, Akron, Ohio, assignors to Rochester Optical & Camera Co., Rochester, N. Y. Slide for photographic-plate holders.	711,347	Oct. 14	1837	399	101	398
Robertson, John H., New York, N. Y. Means for automatically controlling car motors and brakes.	696,752	Apr. 1	676	153	99	144
Robertson, Lee A., et al. (See Sartin, Louis M., assignor.)						
Robertson, Lennox, Penarth, England. Wardrobe.	710,009	Sept. 30	3908	882 883	100	2844
Robertson, Oliver H., Forestville, Conn. Cattle-stanchion.	697,105	Apr. 8	1370	304	99	311
Robertson, Robert C., Warwick East, Bermuda. Remedy for diseases of the skin or scalp and making same.	711,263	Oct. 14	1665	42, 43	101	360
Robertson, William, Chicago, Ill. Elevator for ciner-pits, &c.	696,491	Apr. 15	1667	42, 43	99	492
Robertson, William, Carnoustie, Scotland. Golf-club.	697,542	Apr. 15	2166	481	99	422
Robertson, William and A., Glasgow, Scotland. Combined cutting and collating machine.	710,010	Sept. 30	3911	833 834	100	2845
Robin, Jacob I., Mount Vernon, N. Y. Mantle-support.	696,492	Apr. 1	176	43	99	42
Robin, Jacob I., Mount Vernon, N. Y. Mantle-support.	696,493	Apr. 1	177	43	99	42
Robin, Jean B., St. Paul, Minn. Carving-machine.	692,356	Feb. 4	243	59, 60	98	850
Robin, Joseph T., New York, N. Y. Machine for trimming mantles.	709,044	Sept. 16	1980	452	100	2416
Robin, Joseph T., New York, N. Y. Machine for producing incandescent mantles.	713,572	Nov. 11	2159	483	101	1355
Robin, Joseph T., New York, N. Y. Manufacturing incandescent gas-mantles.	713,573	Nov. 11	2162	484	101	1355
Robin-Langlois, Joseph, Paris, France. Sugar-refining apparatus.	705,869	July 29	4911	1067	100	1054
Robin, Vavasor, et al. (See Hammond, Oliver S., assignor.)						
Robins, Daniel M., Toledo, Ohio. Cheese-box.	693,566	Feb. 18	2564	566	98	1372
Robinson, Hermann, Charlottenburg, Germany. Refrigerator.	697,888	Apr. 15	2796	618	99	626
Robinson, Andrew, Urbesville, Ohio. Apparatus for tanning terra-cotta pipes.	710,891	Oct. 7	386	205	101	190
Robinson, Arthur B., Dickinson, N. D. Phonograph apparatus.	691,000	Jan. 14	1200	271	98	266
Robinson, Arthur B., Dickinson, N. D. Tramway-switch.	707,640	Aug. 26	3141	707	100	1814
Robinson, Arthur W., Montreal, Canada. Dredge-bucket.	708,587	Sept. 9	1050	238	100	2205
Robinson, Arthur W., Montreal, Canada. Boom for dredges, excavators, &c.	708,588	Sept. 9	1051	239	100	2205
Robinson, Arthur W., Montreal, Canada. Hoisting-gear for dipper-buckets for use upon dredges, steam-shovels, &c.	708,589	Sept. 9	1053	239	100	2205
Robinson, Arthur W., Montreal, Canada. Steam-shovel, &c.	708,590	Sept. 9	1054	239 240	100	2205
Robinson, Blanche M., et al. (See Robinson, Robert, assignor.)						
Robinson, Charles D. (See Mack and Robinson.)						
Robinson, Charles M., Toledo, Ohio. Convertible horizontal and vertical bath-cabinet.	695,093	Mar. 11	1431	314 315	98	2032



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Robinson, Charles W., Sharpsville, Pa. Nut-lock for rail-joints.....	705,612	July 29	4457	966	100	963
Robinson, Clark, Hartley, Iowa. Carbureter.....	706,454	Aug. 5	917	190	100	1301
Robinson, Cyrus, Edgewood Park, Pa., assignor to Westinghouse Machine Company. Gas-engine.....	691,489	Jan. 21	2128	476 477	98	478
Robinson, Cyrus, Edgewood Park, Pa., assignor to Westinghouse Machine Company. Engine-bearing and adjusting means therefor.....	691,490	Jan. 21	2130	477	98	478
Robinson, Cyrus, Edgewood Park, Pa., assignor to Westinghouse Machine Company. Fly-wheel.....	691,491	Jan. 21	2131	477	98	479
Robinson, Cyrus, Edgewood Park, Pa., assignor to Westinghouse Machine Company. Fluid-pressure engine.....	693,947	Mar. 25	2998	678 679	98	2386
Robinson, Cyrus, assignor to Westinghouse Machine Company, Pittsburg, Pa. Blowing- engine.....	713,687	Nov. 18	2375	529 530	101	1416
Robinson, Dixon C., Menden, Pa. Stone or ore crusher.....	708,495	Sept. 2	894	202	100	2163
Robinson, Dixon C. (See Stone, Enoch G., assignor.)						
Robinson, Eli T., Marion, Ala. Combined comb and brush.....	691,873	Jan. 28	2855	643	98	646
Robinson, Eli T., Marion, Ala. Plow.....	717,453	Dec. 30	5532	1202	101	3068
Robinson, Francis M., Zion Station, Ky. Meat-tenderer.....	715,695	Dec. 9	1970	441	101	2256
Robinson, Frank, Bangor, Me. Exhaust for locomotives.....	715,673	Dec. 16	2305	524	101	2360
Robinson, Frank A., Auburn, assignor to M. Lary, New York, N. Y. Machine for filling and wrapping powders.....	702,482	June 17	2174	436 437	99	2502
Robinson, Frank A., Auburn, assignor to M. Lary, New York, N. Y. Powder filling and folding machine.....	702,591	June 17	2385	544 545	99	2636
Robinson, Frank A., Syracuse, assignor to M. Lary, New York, N. Y. Machine for feed- ing and wrapping powders.....	716,281	Dec. 16	3158	692 693	101	2527
Robinson, Frederick L., New Bedford, Mass. Billiard-cue tip.....	690,613	Jan. 7	468	101	98	101
Robinson, Freeman C., and J. E. Green, Council Bluffs, Iowa. Burglar-alarm.....	708,496	Sept. 2	895	202	100	2163
Robinson, George N. (See Ellis, George A., assignor.)						
Robinson, Harry G., Wakefield, Mass. Recapper and decapper for cartridge-shells.....	711,231	Oct. 14	1615	346	101	351
Robinson, Henry A., Port Huron, Mich. Washing-machine.....	699,766	May 13	1232	287	99	1441
Robinson, Henry G. (See Gulliver, Harry, assignor.)						
Robinson, Herbert E., et al. (See Robinson, Robert, assignor.)						
Robinson, Hugh C., London, England. Apparatus for cutting screws or spirals.....	701,225	May 27	4084	940	99	2069
Robinson, James F., Waco, Tex. Nut-lock.....	703,612	July 1	420	98	100	83
Robinson, John, Taylor and Robinson.)						
Robinson, John A., Berwind, Colo. Boiler-cleaning compound.....	701,508	June 3	408	98	99	2192
Robinson, John M., Goldthwaite, Tex. Weed-cutting attachment for plows.....	707,801	Aug. 26	3516	793	100	1889
Robinson, Lewis T., Schenectady, N. Y., assignor to General Electric Company. Indi- cating instrument.....	701,937	June 10	1162	267	99	2367
Robinson, Martin W., Medford, Mass. Electric battery.....	705,148	July 22	3433	746	100	744
Robinson, Max. (See Long, Barnett, assignor.)						
Robinson, Minn, Newton, Mass. Switch, outlet, or receptacle box.....	691,874	Jan. 28	2856	643	98	647
Robinson, Percy J. H. (See Sadler, Frederick, assignor.)						
Robinson, Peyton C. (See Smith, William, assignor.)						
Robinson, R. P., et al. (See Thomas, Charles T., assignor.)						
Robinson, Ralph C., Boston, assignor to J. Irving, Newton, Mass. Chemical appara- tus.....	706,784	Aug. 12	1528	330	100	1445
Robinson, Robert, assignor to R. E., H. E., and B. M. Robinson, Portland, Oreg. Cre- matory for refuse.....	699,635	May 6	961	222	99	1373
Robinson, Robert E., et al. (See Robinson, Robert, assignor.)						
Robinson, Robert P., Ottawa, Canada. Suspenders.....	694,194	Feb. 25	3781	836	98	1636
Robinson, Seymour N. (See Payne, Theodore P., assignor.)						
Robinson, Squire, Springfield, Mass. Adjustable former-block for forming paper boxes.....	700,442	May 20	2607	596	99	1743
Robinson, Theodore D. (See Vele, Walker, and Robinson.)						
Robinson, Theodore D., Albany, N. Y. Type-writing machine.....	704,112	July 8	1398	301	100	294
Robinson, Theodore D., Albany, and R. D. Vele, Troy, N. Y. Cutting-machine.....	716,479	Dec. 23	3566	1770 1780	101	2626
Robinson, Thomas C., Boston, assignor of one-half to E. B. and H. A. Welch, Cambridge, Mass. Bicycle driving mechanism.....	703,613	July 1	421	98	100	83
Robinson, Walter W., Chicago, Ill. Motor-vehicle.....	696,596	Apr. 1	359	85, 86	99	79
Robinson, Willard E., et al. (See McCombie, Joseph C., assignor.)						
Robinson, Willard E., Malden, Mass. Soap cake.....	692,481	Feb. 4	476	106	98	862
Robinson, Willard E., Malden, Mass. Applicator.....	714,952	Dec. 2	624	131	101	1960
Robinson, William. (See Greenawalt, John E., assignor.)						
Robinson, William, Brooklyn, N. Y. Radial car-truck.....	694,787	Mar. 4	878	194 195	98	1897
Robinson, William, Boston, Mass. Electric-railway system.....	714,746	Dec. 2	183	37	101	1874
Robinson, William A., Independence, Iowa. Elevator-closing device.....	693,444	Feb. 18	2314	508	98	1322
Robinson, William, William V., assignor to Art Stove Company, Detroit, Mich. Stove.....	710,616	Oct. 7	429	90	101	86
Robinson, William W., Des Moines, Iowa. Sulky-plow.....	708,405	Sept. 2	730	164	100	2129
Robinson, Charles W., McKees Rocks, Pa. Sash lock and lift.....	708,406	Sept. 2	733	165	100	2130
Robison, Samuel D., Sewickley, Pa. Die for making forks.....	696,753	Apr. 1	678	153	99	145
Robsaum, Tycko R. (See Bok and Robsaum.)						
Robson, George, London, England. Means for longitudinally compressing wired-on cushion-tires before fitting them into their rims.....	704,214	July 8	1590	344	100	333
Rocca, Emilien, Marseilles, France. Refining oil.....	699,571	May 6	827	195	99	1346
Rocca, Emilien, Marseilles, France. Apparatus for refining oil.....	699,572	May 6	829	195	99	1347
Roche, Edward, Providence, R. I. Boot or shoe. (Reissue.).....	11,967	Feb. 11	2156	473	98	1269
Roche, James, assignor to Eagle Lock Co., Terryville, Conn. Detachable cylinder desk- lock.....	713,244	Nov. 11	1483	336	101	1217
Roche, James, assignor to Eagle Lock Co., Terryville, Conn. Detachable cylinder desk- lock.....	713,245	Nov. 11	1485	336	101	1217
Roche, William, Jersey City, N. J. Circuit-closer for portable electrical apparatus.....	704,113	July 8	1399	301	100	294
Rochester, John F. Y., Ottawa, Canada. Ball-bearing.....	714,612	Nov. 25	4156	919	101	1803
Rochester, Marz F., Ingleside, Md. Pharmaceutical implement.....	693,156	Feb. 11	1761	388	98	1185
Rochester Optical & Camera Co. (See Goddard, Joseph, assignor.)						
Rochester Optical & Camera Co. (See Robertson and Wright, assignors.)						
Rochester Optical and Camera Company. (See Hutchings, Charles E., assignor.)						
Rochester Optical and Camera Company. (See Hutchings, Robertson, and Mutschler, assignors.)						
Rochester Optical and Camera Company. (See Robertson and Hutchings, assignors.)						
Rochester Steam Motor Works. (See Fox, William T., assignor.)						
Rochet, Louis. (See Mettewie, Rochet, and Beec.)						
Rochford, Mark P., Kingman, Ariz. Ter Concentrator.....	698,737	Apr. 29	4444	982	99	1006
Rock, Frederick W., assignor of three-fourths to R. C. Sprague, E. H. Patterson, and J. A. M. Moreton, Detroit, Mich. Car-brake.....	703,614	July 1	422	98	100	84

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Rock Island Plow Company. (See Tinsman, Samuel H., assignor.)						
Rock, Melvin F. (See Dithley and Rock.)						
Rock, Samuel C., Quincy, Pa. Coupling-frame	691,179	Jan. 14	1510	340	98	330
Rockliffe, George. (See Bowey and Rockliffe.)						
Rockstroh, Wilhelm M., Klein-Sedlitz, Germany. Abrading-tool	699,242	May 6	197	47	99	1214
Rockwell, David W., Brockton, Mass. Water-gate for steam-boilers	707,943	Aug. 26	3784	549	100	1042
Rockwell, Edward D., assignor to Liberty Bell Company, Bristol, Conn. Fish-line reel	700,559	May 20	2822	648	99	1788
Rockwell, Frederick C. (See Metter, Caspar W. and A., assignors.)						
Rockwell, Frederick C. (See Mettler and Rockwell.)						
Rockwell, Frederick C., West Hartford, Conn. Handwriting-developer	709,114	Sept. 16	2121	486	100	2448
Rockwell, John M., Mount Carmel, Pa. Stuffing-box for steam-engines	712,966	Nov. 4	950	220	101	1091
Rockwell, Lucius A., et al. (See Holmes, Daniel M., assignor.)						
Rockwell, Ludlem H., assignor of one-half to W. M. Kramer, Mount Carmel, Pa. Toy bubble-blower	705,966	July 29	5088	1109	100	1090
Rodary, Ferdinand. (See Ducousso and Rodary.)						
Rodde, Henry, New York, N. Y. Aerial climbing apparatus and support	716,109	Dec. 16	2835	623	101	2461
Rodecker, Thomas, Mendon, Ohio. Fence	707,305	June 24	3721	897	99	2425
Rodde, Archie L., et al. (See Bangs, Edwin D., assignor.)						
Rodemeyer, Henry, New York, N. Y. Musical sounder	699,978	May 13	1659	381	99	1530
Röder, Louis. (See Oprendek, Franz, assignor.)						
Rodger Ballast Car Company. (See Hart, Harry S., assignor.)						
Rodger Ballast Car Company. (See Meissner, Otto W., assignor.)						
Rodgers, Elias, et al. (See Hudgins, Franklin M., assignor.)						
Rodgers, Everett D., Chicago, Ill. Appliance for men's trousers	693,172	Mar. 11	1005	336	98	2068
Rodgers, George B. (See Rogers, James T., W. R., and G. B.)						
Rodgers, James T., W. R., and G. B., Memphis, Tenn. Cotton-cleaner	690,614	Jan. 7	469	101	98	101
Rodgers, John F., Chartiers Township, Pa. Flush tank and valve	692,797	Feb. 4	1036	293	98	1008
Rodgers, John S. (See Alman, John C., assignor.)	692,357	Feb. 4	249	99	98	850
Rodgers, Robert, deceased; G. A. Gritton, Volcano, Cal., administrator. Chair	693,323	Feb. 11	2038	455	98	1252
Rodgers, Samuel R., Mount Airy, Ga. Folding chair	715,607	Dec. 9	1814	402	101	2223
Rodgers, William B. (See Rodgers, James T., W. R., and G. B.)						
Rodgers, William S. (See Williams, John, assignor.)						
Rodiger, William, Chicago, Ill. Paste-vessel	713,921	Nov. 18	2821	627	101	1511
Rodman, George G., Washington, Iowa. Device for grouping photographs	696,272	Mar. 25	3655	818	98	2521
Rodman, Hugh, assignor to Electric Storage Battery Company, Philadelphia, Pa. Storage-battery separator	704,759	July 15	2586	558	100	555
Rodriguez, Joseph, New York, N. Y. Hat-hook	708,666	Sept. 9	1200	274	100	2326
Rodriguez, Sebastian, assignor of one-half to F. P. Perret, Franklin, La. Cultivator	712,096	Oct. 28	3297	723	101	731
Roe, Alpheus E., New Wheaton, Wash., assignor to himself, and B. Cornwall, San Francisco, Cal. Gang-edger sawing-machine	702,592	June 17	2389	545	99	2637
Roe, Robert A. (See Rea, John G., assignor.)						
Roe, Samuel E., New York, N. Y. Spirit-level	703,306	June 24	3722	857	99	2925
Roebuck, Alvah C., and F. McMillan, Chicago, Ill. Kinetographic apparatus	706,113	Aug. 5	204	12,48	100	1158
Roebuck, Alvah C., and F. McMillan, Chicago, Ill., assignors to Enterprise Vending Machine Company. Coin-controlled mechanism	693,157	Feb. 11	1765	388	98	1185
Roebuck, Alvah C., and F. McMillan, Chicago, Ill., assignors to Enterprise Vending Machine Company. Rotary feeding mechanism	693,158	Feb. 11	1769	388	98	1186
Roedde, Gustav A., Vancouver, Canada. Detachable book-cover	691,731	Jan. 21	2566	575	98	570
Roedde, Gustav A., Vancouver, Canada. Temporary binder	697,889	Apr. 15	2797	619	99	627
Roedel, Frederick W., et al. (See Krotz, Linford E., assignor.)						
Roedel, Louis, Passaic, N. J. Rotary slide-valve for pumps, compressors, or motors	709,682	Sept. 23	3246	725	100	2695
Roedel, Louis, Passaic, N. J. Rotary slide-valve for pumps, compressors, or motors	709,683	Sept. 23	3252	728	100	2696
Roeder, John, Denver, Colo. Strip-holder for barber-chairs	700,669	May 20	3007	690	99	1828
Roegner, George, Passaic, assignor to Carlton Manufacturing Company, Carlton Hill, N. J. Calculator	698,141	Apr. 23	3293	721	99	746
Roeh, John, Oroville, Wash. Automatic current-motor	705,967	July 29	5089	1109	100	1090
Roehm, Charles M. (See Vliet, Joshua B., assignor.)						
Roemer, Arthur M., Cleveland, Ohio. Heating apparatus	717,280	Dec. 30	5224	1135	101	3005
Roemer, Henry C., Toledo, Ohio. Carpet-fastener	693,567	Feb. 18	2565	566	98	1372
Roemer, William, Newark, N. J. Handle for bags, satchels, &c.	712,206	Oct. 28	3491	796	101	768
Roemisch, Paul, and A. Orre, said Roemisch assignor, by mesne assignments, to B. E. Ranzel, Chicago, Ill. Carburetor	702,378	June 10	1964	448	99	2528
Roenius, Edmund, Grand Rapids, Wis. Computing-machine	704,114	July 8	1401	301	100	295
Roepper, Charles W., and G. P. Scholl, Philadelphia, Pa.; said Scholl assignor to said Roepper. Apparatus for fused-bath electrolysis	699,851	May 13	1406	325	99	1477
Roesch, Alfred, Bridgeport, Conn., assignor to Davis & Roesch Temperature Controlling Co. Air valve	695,948	Mar. 25	3002	679	98	2336
Roesch, Alfred, Bridgeport, Conn., assignor to Davis & Roesch Temperature Controlling Company, New York, N. Y. Thermostat	704,115	July 8	1403	302	100	295
Roesch, Alfred, Bridgeport, Conn., assignor to Davis & Roesch Temperature Controlling Company, New York, N. Y. Temperature-regulator	705,613	July 29	4158	966	100	963
Roesch, Alfred, Bridgeport, Conn., assignor to Davis & Roesch Temperature Controlling Company, New York, N. Y. Pressure-governor	717,122	Dec. 30	4906	1063	101	2935
Roesch, Alfred, Bridgeport, Conn., assignor to Davis & Roesch Temperature Controlling Company, New York, N. Y. Jacob, assignor.						
Roesen, Oscar, assignor to R. Hoe, New York, N. Y. Web-guide for printing-machines	697,173	Apr. 8	1483	332	99	335
Roesen, Oscar, assignor to R. Hoe, New York, N. Y. Device for preventing smearing	697,174	Apr. 8	1484	332	99	335
Roeske, Henry, Philadelphia, Pa. Rotary steam-motor	715,152	Dec. 2	962	208	101	2033
Roesky, Emil W. (See Deplanty, Charles F., assignor.)						
Roessler, Anton, Geneva, Nebr. Draft-equalizer	712,598	Nov. 4	263	63	101	952
Roessler, Fritz, Frankfort-on-the-Main, Germany, assignor to Roessler & Hasslacher Chemical Company, New York, N. Y. Making sodium cyanid	708,079	Sept. 2	147	100	101	2011
Roessler, Fritz, Frankfort-on-the-Main, Germany, assignor to Roessler & Hasslacher Chemical Company, New York, N. Y. Making sodium cyanid	711,910	Oct. 21	2932	101	101	641
Roessler, Fritz, Frankfort-on-the-Main, Germany, assignor to Roessler & Hasslacher Chemical Company, New York, N. Y. Making sodium cyanid	716,350	Dec. 16	3297	101	101	2554
Roessler & Hasslacher Chemical Company. (See Roessler, Fritz, assignor.)						
Roessler, John, Denver, Colo. Conveyor	696,273	Mar. 25	3656	818	98	2521
Roger, John, Denver, Colo. Conveyor	712,335	Oct. 28	3716	812	101	817
Rogers, Arthur, Barnesville, Ohio. Die	691,666	Jan. 21	2451	550	98	545
Rogers, Arthur C., Collingwood, Ohio. Safety device for coin-receptacles	696,194	Mar. 25	3504	785	98	2490



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Rogers, Arthur C., Cleveland, Ohio. Safety device for coin-receptacles	715,608	Dec. 9	1815	403	101	2224
Rogers, Arthur R. (See Johnson, Charles, assignor.)						
Rogers, Charles, Allegheny, Pa. Steering apparatus for boats	714,035	Nov. 18	3040	676	101	1557
Rogers, Charles L. and M. S. Shotwell, Milton, Pa., assignors to American Car & Foundry Company, St. Louis, Mo. Tank-car	714,397	Nov. 25	3769	832	101	1735
Rogers, Charles M., et al. (See Ivor Barry, assignor.)						
Rogers, Charles W., assignor of twelve twenty-fifths to J. W. Mathis and E. Worthing, Chicago, Ill. Radiator	705,614	July 20	4460	967	100	963
Rogers, Charles W., assignor of sixty-nine one-hundredths to J. W. Mathis, E. Worthing, and C. L. Linley, Chicago, Ill. Radiator	702,483	June 17	2181	497	99	2594
Rogers, Christopher L., assignor to S. M. Long, Seattle, Wash. Buttonhole-cutter	698,142	Apr. 22	3296	729	99	746
Rogers, Daisy F., Lakewood, N. J. Folding ice-box	696,754	Apr. 1	679	153	99	145
Rogers, Edgar P., Brooklyn, N. Y. Boehm flute	698,322	Apr. 22	3616	798	99	814
Rogers, Edwin F., Philadelphia, Pa. Lock	691,180	Jan. 14	1512	340	98	330
Rogers, George B., Saratoga, N. Y. Stanchion	712,967	Nov. 4	952	221	101	1092
Rogers, Isaac N., New York, N. Y. Stone grinding and polishing machine	696,195	Mar. 25	3507	786	98	2490
Rogers, J. S., New York, N. Y. Internal-combustion engine	702,246	June 10	1731	391	99	2481
Rogers, John E. (See Menzie and Rogers.)						
Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Justifying device for linotypes	694,788	Mar. 4	881	195	98	1898
Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Matrix for linotype-machines	694,789	Mar. 4	883	196	98	1899
Rogers, Joseph W., Montgomery, Pa. Combined washing and wringing machine	704,934	July 15	2982	639	100	639
Rogers, Thomas B., Brooklyn, N. Y. Tank or ice-chest	706,455	Aug. 5	919	199	100	1391
Rogers, William H., New York, N. Y. Box or crate	710,213	Sept. 30	4312	99	100	2931
Rozler, Fredrick W., Budapest, Austria-Hungary. Arrangement of valves for pumps, &c.	690,879	Jan. 7	961	217	98	262
Rozgoza, Sava, Brussels, Belgium. Safety device for railway points or switches	702,593	June 17	2390	546	99	2637
Rohleder, Robert, assignor of one-fourth to A. Bufo, Troy, N. Y. Attachment for knitting-machines	694,195	Feb. 25	3782	836	98	1637
Rohlf, Charles J. (See Soehren and Rohlf.)						
Rohlmann, Oscar F. F. (See Jenkins and Rohlmann.)						
Rohmer, William B., Bay St. Louis, Miss. Car-fender	702,484	June 17	2183	497	99	2594
Rohmer, William B., Bay St. Louis, Miss. Mail-bag catching and delivering mechanism	707,017	Aug. 12	1939	433	100	1529
Rohmer, William B., Bay St. Louis, Miss. Combined fertilizer-distributor and seed-planter	710,011	Sept. 30	3914	884	100	2846
Rohrbacher, William, and R. Weddell, Duquesne, Pa. Combination coffee and tea pot	695,173	Mar. 11	1607	356	98	2069
Rohwedder, Detlef H., Chicago, Ill. Propeller for vessels	692,910	Feb. 11	1258	279	98	1083
Rojat, David, Nimes, France. Filtering apparatus	708,533	July 1	844	186	100	169
Rolfe, Charles A., assignor to Rolfe Electric Company, Chicago, Ill. Electric-circuit protector	697,219	Apr. 8	1562	350	99	351
Rolfe, Charles A., assignor to Rolfe Electric Company, Chicago, Ill. Electrical protector	701,396	June 3	197	43	99	2148
Rolfe Electric Company. (See Rolfe, Charles A., assignor.)						
Rolfe, Frederick H., Chicago, Ill. Door check and closure	711,591	Oct. 21	2296	500	101	507
Rolfe, Orrin M., Lowell, Mass. Bobbin-holder	696,082	Mar. 25	3258	736	98	2439
Roll, Harry W. (See Reed, Franklin M., assignor.)						
Roll, John J., Natrona, Pa. Grate-front and fender	700,560	May 20	3825	648	99	1789
Rollason, Minnie E., Brooklyn, N. Y. Glove	704,570	July 15	2277	494	100	491
Rolle, Max. (See Jones, Walter J. H., assignor.)						
Roller, Frank W., New York, N. Y. Packing or gasket	695,174	Mar. 11	1608	356	98	2069
Rollins, Alden H., Cambridge, Mass. Swivel-rowlock	709,827	May 27	3362	773	99	1913
Rollins, Charles H., Watertown, assignor of one-half to E. W. Anthony, Brookline, Mass. Flushing apparatus for closets	711,232	Oct. 14	1618	347	101	351
Rollins, Robert W., Hartford, Conn. Regulating apparatus for refrigerating compartments	716,480	Dec. 23	3569	780	101	2626
Rollman, Elmer A., West Manchester, Ohio. Machine for sorting tobacco-leaves	705,300	July 22	3702	816	100	811
Rollo, Louie C., et al. (See Ivor Barry, assignor.)						
Rom, Herman von, Stuttgart, Germany. Preserving meat	699,979	May 13	1660	399	99	1530
Romaine, George W., New York, N. Y. Packet-closer	693,023	Feb. 18	2768	591	98	1396
Romani, François D., Lyons, France. Automatic and instantaneous apparatus for producing photographs	696,656	Apr. 1	477	110	99	103
Romanski, Hermann, Zwickau, Germany. Fluid-pressure engine	715,513	Dec. 9	1632	334	101	2187
Römer, Albert, Oberdellendorf-on-the-Rhine, Germany. Apparatus for mercerizing	694,109	Feb. 25	3611	799	98	1602
Romer, William J. (See Lyon, Fred, assignor.)						
Romic, William H. (See Kinter and Romic)						
Rommel, Mike, Westgate, Iowa. Screen-door attachment	692,711	Feb. 4	876	200	98	978
Romundt, Hermann, Newark, assignor to Convertible Car Company, Bloomsbury, N. J. Convertible car	707,018	Aug. 12	1942	484	100	1530
Ronaldson, Adam L., London, England. Boring apparatus	710,012	Sept. 30	3915	885	100	2847
Ronan, Anson G., Toronto, Canada. Muffler	702,031	June 10	1944	307	99	2401
Ronan, Anson G., Toronto, Canada. Revolving electric igniter	708,080	Sept. 2	149	36	100	2011
Rond, Charles A., Jr. (See Johnson and Rond.)						
Roney, Alexander B., Chicago, Ill. Elevator	698,738	Apr. 29	4446	982	99	1007
Roney, James C., Lynn, W. G., Jersey City, N. J. Pulley-block	691,492	Jan. 21	2133	478	98	479
Rontke, Albert, Elizabeth, N. J., assignor to Singer Manufacturing Company. Double-chain-stitch sewing-machine	712,852	Nov. 4	732	169	101	1048
Rontke, Albert, Elizabeth, N. J., assignor to Singer Manufacturing Company. Needle-bar mechanism for sewing-machines	712,853	Nov. 4	734	169	101	1049
Rood, Will C., Chicago, Ill. Billiard-cue	694,423	Mar. 4	168	37	98	1748
Rooskus, John J., Zeeland, Mich. Beet-harvester	710,075	Sept. 30	4030	969	100	2870
Roome, Henry C. and W. G., Jersey City, N. J. Electric burglar-alarm	693,067	Feb. 11	1560	341	98	1146
Roome, Henry C. and W. G., Jersey City, N. J. Electrical burglar-alarm	693,068	Feb. 11	1564	341	98	1147
Roome, William G. (See Roome, Henry C. and W. G.)						
Rooney, Henry F., Randolph, assignor of three-fourths to J. J. Horter, Somerville, and P. Dean, Second, Randolph, Mass. Automatic car-fender	715,153	Dec. 2	963	208	101	2033
Rooney, John J., Scarsdale, N. Y. Incandescent electric lamp	711,532	Oct. 21	2191	477	101	486
Rooney, Patrick B. (See Odell, Robert C., assignor.)						
Rooney, Patrick B., New York, N. Y. Bed-bottom	702,485	June 17	2184	498	99	2594
Rooney, Patrick B., New York, N. Y. Bed-bottom	704,215	July 8	1592	1345	100	333
Roos, Edward. (See Shaw, Roos, and Peltou.)						
Roose-Jones, David, Birmingham, England. Detergent	692,358	Feb. 4	250		98	850
Root, Elam E., assignor to J. F. Haas, Lancaster, Pa. Vehicle-wheel spindle	705,968	July 29	5691	1110	100	1091
Root, Ellis J., San Francisco, Cal. Latch	705,301	July 22	3764	817	100	811

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Root, F. S., <i>et al.</i> (See Brooks, Theodore L., assignor.)						
Root, Frank J. (See Brandt and Root.)						
Root, Frank J., Binghamton, N. Y. (Gas-pressure regulator)	713,496	Nov. 11	1984	448	101	1321
Root, Fred N., Kalamazoo, Mich. Track-scraper attachment for street-railway cars	699,573	May 6	830	99	101	1347
Root, Fred N., Kalamazoo, Mich. Ice-cleaner for trolley-wires	710,516	Oct. 7	195	51	101	48
Root, Hiram J. (See Brunner and Root.)						
Root, Sanford O., Lodi, N. Y. Vise attachment	698,858	Apr. 29	4714	1039	99	1068
Root, Wayland L., Spokane, Wash. Multiplying attachment for cameras	695,626	Mar. 18	2430	549	98	2256
Root, William H., Alledo, Ill. Paper-hanging scaffold	714,520	Nov. 25	3983	822	101	1765
Roots, Francis T. (See Heinemann, Theodore F., assignor.)						
Roper, Charles F., assignor to Draper Company, Hopedale, Mass. Loom	692,911	Feb. 11	1259	279	98	1083
Roper, Charles F., assignor to Draper Company, Hopedale, Mass. Thread-parting mechanism for looms	701,988	June 10	1168	268	99	2368
Roper, Charles F., assignor to Draper Company, Hopedale, Mass. Mechanism for truing spinning-rings	709,512	Sept. 23	2055	600	100	2635
Roper, Charles F., assignor to Draper Company, Hopedale, Mass. Filling-carrier receptacle for filling-replenishing looms	711,126	Oct. 14	1388	301	101	303
Roper, Charles F., assignor to Draper Company, Hopedale, Mass. Filling-replenishing mechanism for looms	711,736	Oct. 21	2576	560	101	567
Roper, Charles F., assignor to Draper Company, Hopedale, Mass. Thread-partier for filling-replenishing looms	711,737	Oct. 21	2580	567	101	568
Roper, Charles F., assignor to Draper Company, Hopedale, Mass. Grinding-machine for looms	714,036	Nov. 18	3048	677	101	1560
Roper, Charles F., assignor to Draper Company, Hopedale, Mass. Take-up mechanism for looms	716,282	Dec. 16	3164	693	101	2327
Roper, Charles F., Hopedale, Mass. assignor to Draper Company, Portland, Me., and Hopedale, Mass. Warp-stop-motion mechanism	696,083	Mar. 25	3259	737	98	2440
Roper, Charles F., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Heddle for looms	696,084	Mar. 25	3261	737	98	2449
Roper, George W., Norfolk, Va. Shingle-machine	711,533	Oct. 21	2192	477	101	486
Rorty, Malcolm C. (See Bullard and Rorty.)						
Rosati, Tito, Florence, Italy. Electric cable	706,599	Aug. 12	1165	258	100	1367
Rosback, Frederick P., Chicago, Ill. Wire-stitching machine	706,690	Aug. 12	1333	296	100	1404
Rosborough, John, St. Louis, Mo. Cracker-machine	697,663	Apr. 15	2389	531	99	536
Rose, Alonzo N., New York, N. Y. Water-cooler	715,609	Dec. 9	1816	403	101	2224
Rose, Edward, and I. Isbill, Chattanooga, Tenn. Bed-bottom	710,304	Sept. 30	4465	1007	100	2963
Rose, Frank, Dayton, Ky., assignor to H. Schmit & Co., Cincinnati, Ohio. Reclining chair	695,493	Mar. 18	2154	486	98	2200
Rose, George, Brighton, England. Apparatus for repairing drains	694,196	Feb. 25	3785	837	98	1637
Rose, Georges. (See Rose, Henri and G.)						
Rose Gold Reclamation Company. (See Johnson, Frederick M., assignor.)						
Rose, Harry, Utica, N. Y. Transforming-gear	694,197	Feb. 25	3786	837	98	1637
Rose, Harry, assignor to Remington Automobile & Motor Company, Utica, N. Y. Controlling mechanism	705,302	July 22	3765	817	100	812
Rose, Harry R., Allegheny, Pa. Fire-door	695,175	Mar. 11	1610	337	98	2060
Rose, Henri and G., Poissy, France. Grain-crusher	696,755	Apr. 1	680	153	99	145
Rose, Isaac E. (See Powell and Vaughan, assignors.)						
Rose, James A., Hastings, Nebr. Washer and gasket cutter	692,712	Feb. 4	878	200	98	979
Rose, John A., and W. P. Brooks, assignors to Aldine Manufacturing Company, Grand Rapids, Mich. Heating-grate	695,840	Mar. 18	2803	638	98	2332
Rose, Joseph F., Danbury, Iowa. Boiler	701,939	June 10	1171	268	99	2369
Rose, Marshall. (See Hindley, Walker, and Rose.)						
Rose, Samuel S., Amador City, Cal. Rotary explosive-engine	700,243	May 20	2209	505	99	1664
Rose, Thomas A., London, W. A. Gwynn, Walthamstow, and A. M. Barnes, assignors of three-tenths to W. G. Bate, London, England. Vacuum pump or exhauster	716,110	Dec. 16	2837	624	101	2461
Rose, William H. (See Watson and Rose.)						
Rose, William H., Bemidji, Minn. Buckle for tug-straps	697,543	Apr. 15	2166	481	99	492
Rosen, Felix, <i>et al.</i> (See Holdsworth, Frederic, assignor.)						
Rosen, Felix, <i>et al.</i> (See McClintock, Frank, assignor.)						
Rosen, Felix, <i>et al.</i> (See McClintock and Holdsworth, assignors.)						
Rosen, Felix, <i>et al.</i> (See Watson, John, assignor.)						
Rosen, John N., Chicago, Ill. Woodworking-machine	717,454	Dec. 30	5534	1302	101	3068
Rosen, Nathan, New York, N. Y. Finger-ring	704,273	July 8	1693	363	100	335
Rosenblum, Henry, New York, N. Y. Traveling-case	698,553	Apr. 29	4034	822	99	917
Rosenbeck, Andrew K., Stamford, Conn. Clothes-line holder	716,387	Dec. 30	4553	989	101	2861
Rosenbeck, John H. (See Janssen, Carsten D., assignor.)						
Rosenberg, Augustus, London, England. Cinematographic apparatus	691,493	Jan. 21	2134	478	98	480
Rosenberg, Charles K., San Francisco, Cal. Account-book	704,216	July 8	1593	345	100	333
Rosenberg, Herman, assignor to Standard Varnish Works, New York, N. Y. Imitation leather and producing it	695,627	Mar. 18	2434		98	2256
Rosenberg, William. (See Moelter, John, assignor.)						
Rosenberry, Alvin M., assignor of one-half to M. H. Davis, Shelby, Ohio. Carbureter	709,647	Sept. 23	3185	711	100	2682
Rosenblatt, George H. (See Strauch, Edward, assignor.)						
Rosenbluth, Edwin M., Philadelphia, Pa. Acetylene-gas-generating lamp	693,069	Feb. 11	1568	342	98	1147
Rosenbluth, Edwin M., Philadelphia, Pa. Carriage-lamp	693,070	Feb. 11	1570	342	98	1148
Rosenbluth, Edwin M., Philadelphia, Pa. Carbid-cartridge	702,594	June 17	2392	547	99	2658
Rosenbluth, Edwin M., Philadelphia, Pa. Carbid-lamp	702,595	June 17	2395	548	99	2658
Rosenbrook, August C., Brook, Ind. Automatic blowpipe	712,097	Oct. 28	3299	723	101	731
Rosenbush, Otto. (See Beemer, Dennis, assignor.)						
Rosenfeld, Louis, New York, N. Y. Adjustable loading-chute	709,609	Sept. 23	3123	696	100	2670
Rosenfeld Manufacturing Company. (See Rosenfeld, William W., assignor.)						
Rosenfeld, William W., assignor to Rosenfeld Manufacturing Company, New York, N. Y. Coin-controlled machine	701,940	June 10	1172	268	99	2369
Rosengrén, Anders A., Malmö, assignor of one-half to P. Hansson, Dalköpings, Trelleborg, Sweden. Automatic coupling for railway-cars	707,724	Aug. 26	3313	741	100	1849
Rosenthal, August, Milwaukee, Wis., assignor to Rosenthal Husker Company. Corn husker and shredder and ensilage-cutter	701,397	June 3	200	43, 44	99	2149
Rosenthal, Charles S., <i>et al.</i> (See Beier, Frank J., assignor.)						
Rosenthal, Elias L., New York, N. Y. Device for unrolling cloth or other fabrics	702,822	June 17	2815	647	99	2726
Rosenthal Husker Company. (See Rosenthal, August, assignor.)						
Rosenthal, James H., London, England, assignor to Babcock & Wilcox Company, New York, N. Y. Header for sectional steam-generators	704,968	July 15	3058	657	100	653



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Rosenthal, John S. (See Ragan and Rosenthal.)						
Rosenthal, Sigmond A., London, England. Generation of motive power.	709,115	Sept. 16	2122	486	100	2448
Rosentreter, Albert J., Boonton, assignor to J. Bardsley, Montclair, N. J. Door-holder.	693,568	Feb. 18	2566	567	98	1372
Rosentreter, Albert J., Boonton, assignor to J. Bardsley, Montclair, N. J. Spring-hinge.	695,494	Mar. 18	2155	487	98	2200
Rosenzweig, Samuel, <i>et al.</i> (See Simpson, Daniel B., assignor.)						
Roser, Louis, Jr. (See Eiseeman, Moses H., assignor.)						
Roser, Louis, Jr., Chicago, Ill. Garment-supporting device	708,497	Sept. 2	897	203	100	2103
Roser, Louis, Jr., Chicago, Ill. Hose-supporter	712,968	Nov. 4	933	221	101	1092
Rosett, Dora T., New York, N. Y. Hospital-mattress	710,076	Sept. 30	4032	900	100	2871
Rosvelt, Henry J., Little Silver, N. J. Putty	696,148	Mar. 25	3429		98	2476
Rösgen, Heinrich, Erkrath, assignor to M. C. Burchartz & Co., Elberfeld, Germany. Weaving pile fabrics	695,582	Mar. 18	2348	532	98	2240
Roslund, Oscar. (See McIntyre, Edward F., assignor.)						
Ross, Adelle H. (See Ross, Charles J., assignor.)						
Ross, Charles C., Beaver Creek Township, Ohio. Hand-planter	692,482	Feb. 4	457	106	98	802
Ross, Charles J., assignor to A. H. Ross, Galesburg, Ill. Hose-supporter	696,912	Nov. 1	990	222	99	211
Ross, Charles M., Falmouth, T. Hall, Aburndale, and E. W. Johnson, Medford, Mass. Railway-gate	712,723	Apr. 4	776	112	101	977
Ross, Delmar C., assignor of one-half to W. D. Thompson and S. D. Anderson, Detroit, Mich. Draft-rigging for railway-cars	692,074	Jan. 28	3228	720	98	720
Ross, Delmer C., <i>et al.</i> (See Chubb, James A., assignor.)						
Ross, George D., Glasgow, Scotland. Arrangement for shifting the points of tramway or railway	701,398	June 3	203	44	99	2140
Ross, George D., Glasgow, Scotland. Mechanism for shifting points of tramway-lines	711,398	Nov. 25	3770	832	101	1725
Ross, Isom J., Waynesville, Ind. Band-cutter and feeder for threshing-machines	699,243	May 6	198	47	99	1214
Ross, James A., St. Clair, Mich. Plow	694,079	Feb. 25	3567	787	98	1504
Ross, James K., Springfield, Ohio. Open-fireplace stove	711,339	Nov. 25	3771	833	101	1725
Ross, John D., <i>et al.</i> (See Sharpneck, William S., assignor.) (Reissue.)						
Ross, John H., Aston, England. Acetylene-gas generator	690,773	Jan. 7	784	174	98	166
Ross, Joseph. (See Gaisman and Ross.)						
Ross, Joseph W., Alma, Ill. Plant-protector	701,116	July 8	1405	302	100	295
Ross, Julius C. D., Chicago, Ill. Cigar-holder and ash-receiver	717,281	Dec. 30	5237	1136	101	3005
Ross, Maurice J. (See Wachhorst and Ross.)						
Ross, Maurice J., and N. B. Wachhorst, San Francisco, Cal. Can-body-forming machine	716,111	Dec. 16	2838	624 625	101	2461
Ross, Oscar, <i>et al.</i> (See Darwin, Frank L., assignor.)						
Ross, Samuel. (See Hutchinson, Elias S., assignor.)						
Ross, Walter. (See Fischer, Albert, assignor.)						
Ross, Walter D., Worcester, Mass. Display-board for seed-packages	712,724	Nov. 4	479	113	101	997
Ross, Walter T. (See Paul and Gundlach, assignors.)						
Ross, William L., Omaha, Nebr. Furnace	708,474	July 1	178	11,42	100	38
Rosseau, Sol, <i>et al.</i> (See White, Nathan, assignor.)						
Rosset, Georges, Paris, France. Electric battery	716,762	Dec. 23	4103	900	101	2741
Rossetier, William. (See Talbot and Rossetier.)						
Rossi, Auguste J., New York, assignor of one-half to J. MacNaughton, Tahawas, N. Y. Producing alloys or compounds of copper and titanium	700,244	May 20	2212		99	1664
Rossi, Auguste J., New York, assignor of one-half to J. MacNaughton, Tahawas, N. Y. Combining titanium with iron	713,802	Nov. 18	2586		101	1462
Rossier, Charles, Buffalo, N. Y. Speed-vehicle	698,559	Apr. 29	4035	892	99	917
Rossler, Konrad, Port Worth, Tex. Shears-sharpener	709,048	Sept. 23	3188	712	100	2683
Rossman, James G., Boston, Mass. Adjustable brace or support for movable structures	705,707	July 29	4631	1003	100	996
Rossow, Martin, Dessau, Germany. Veneer-drying machine	705,708	July 29	4631	1003	100	996
Rost, Ernst, Dresden, Germany. Cushioning device for valves	707,160	Aug. 19	2218	497	100	1003
Rostochil, John, Chicago, Ill. Edging device	707,641	Aug. 26	3142	707	100	1814
Rotary Engine Company. (See Warren, Edward C., assignor.)						
Roth, Albert J., Lafayette, Ind. Voting-machine	690,880	Jan. 7	963	218 219	98	203
Roth, Alfred P. (See Engelhardt, Frederick, assignor.)						
Roth, Edward N. (See Keane, James P., assignor.)						
Roth, Frank G., <i>et al.</i> (See Kenney, Thomas F., assignor.)						
Roth, Ludwig, St. Louis, Mo. Rail-joint	709,045	Sept. 16	1981	432	100	2416
Rothberg, Mathew E., Lebanon, Pa. Coke-oven	705,446	July 22	4065	882 883	100	873
Rothe, Hermann. (See Swoboda and Rothe.)						
Rothensbuecher, George E. R., Brooklyn, N. Y. Combination-wrench	703,741	July 1	675	150	100	135
Rothensbusch, Philipp, assignor to F. Ruth, New York, N. Y. Combination table and ironing-board	709,176	Sept. 16	2242	510	100	2471
Rothenshauser, Gebhard, Philadelphia, Pa. Milk-can	692,548	Feb. 4	588	138	98	918
Rother, Julius, Katscher, Germany. Making disinfectant-powder	701,620	June 3	606		99	2235
Rothermel, Curtis J., <i>et al.</i> (See Hemingway, Joseph, assignor.)						
Rothermel, William E., <i>et al.</i> (See Hemingway, Joseph, assignor.)						
Rothman, Elias M. (See Hartman, Jacob, assignor.)						
Rothschild, David, Allegheny, Pa. Soap-saving device	711,244	Oct. 14	1666	359	101	361
Rothschild, Jacob. (See Winn, Jasper C., assignor.)						
Rothweiler, Josef, Chicago, Ill. Insect-trap	713,803	Nov. 18	2586	576	101	1402
Rott, Eduard, Dassel, Germany. Manufacture of artificial stones, tiles, &c.	693,906	Feb. 25	3219		98	1524
Rottler, Theodor, assignor to Wm. L. Gilbert Clock Company, Winsted, Conn. Beat-adjuster for pendulum clocks	716,481	Dec. 23	3574	781	101	2628
Rouget, Paul, assignor to Compagnie Anonyme Continentale pour la Fabrication des Compteurs à Gaz et Autres Appareils, Paris, France. Electricity-meter	717,123	Dec. 30	4909	1063	101	2936
Roughan, James. (See Norris and Roughan.)						
Rounds, Albert C., assignor of one-half to U. V. Schaubert, Buffalo, N. Y. Insole	707,642	Aug. 26	3144	707	100	1815
Rounds, Charles H., assignor to J. E. Prescott, Passaic, N. J. Machine for filling receptacles	711,680	Oct. 21	2470	543	101	545
Rounds, Myron, Roxbury, Mass., assignor to J. A. Brill, Philadelphia, Pa. Snow-plow	716,283	Dec. 16	3166	693	101	2528
Rouquaud, Lucien J. M., Kieff, Russia. Heating system	715,514	Dec. 9	1633	354	101	2187
Rourke, James, Parkersburg, W. Va. Portable drilling-machine	705,791	July 29	4775	1036 1037	100	1026
Rouse, George, assignor of one-fourth to J. Mason, Joliet, Ill. Bottle-stopper	692,359	Feb. 4	251	61	98	850
Rouse, Shelley D. (See Hunter, Hamilton, assignor.)						
Rousey, Verd. (See Speicher and Rousey.)						
Roussanoff, Wassily, Moscow, Russia. Steam-generator	703,834	July 1	845	186 187	100	109
Roussy de Sales, Georges de, and F. Gueugnon, Lyons, France. Accumulator	696,496	Apr. 1	180	44	99	43

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Row, George L. (See Lowe, John M., assignor.)						
Rowbottom, George, assignor to American Pin Company, Waterbury, Conn. Machine for sewing hooks and eyes on cards	710,517	Oct. 7	237	52 53	101	48
Rowbottom, George, assignor to American Pin Company, Waterbury, Conn. Machine for sewing hooks and eyes on cards	710,518	Oct. 7	244	54, 55	101	49
Rowbottom, George, assignor to American Pin Company, Waterbury, Conn. Machine for sewing hooks and eyes on cards	710,519	Oct. 7	246	55	101	50
Rowe, Edward, Indiana, Pa. Railway signaling apparatus	709,798	Sept. 23	3481	784 785 786	100	2743
Rowe, John J., New Kensington, Pa. Wheel	706,477	Aug. 5	954	451	100	1308
Rowe, Willard C., Decatur, Ill. Feed-drag for corn-shellers	694,667	Mar. 4	633	138	98	1846
Rowell, Benton C., Chicago, Ill. Rail-bond	697,890	Apr. 15	2799	619	99	627
Rowell, Benton C., Chicago, Ill., assignor to Rowell Potter Safety Stop Company, Portland, Me. Block system for railways	695,648	Mar. 18	2469	560	98	2264
Rowell, Benton C., Chicago, Ill., assignor to Rowell Potter Safety Stop Company, Portland, Me. Train-indicating apparatus	695,649	Mar. 18	2470	560	98	2264
Rowell, Benton C., Chicago, Ill., assignor to Rowell Potter Safety Stop Company, Portland, Me. Truck-machine for automatically applying brakes	695,650	Mar. 18	2471	561	98	2265
Rowell Potter Safety Stop Company. (See Rowell, Benton C., assignor.)						
Rowland, Calvin, Denver, Colo. Means for hanging screens	697,020	Apr. 8	1224	274	99	278
Rowland, Calvin, Denver, Colo. Means for hanging screens	702,886	June 17	2932	676	99	2750
Rowland, David E., Canton, Ohio. Hoist	690,774	Jan. 7	785	174	98	166
Rowland, David E., Canton, Ohio. Hoist	697,376	Apr. 8	1664	373	99	374
Rowland, Henrietta H., administratrix. (See Rowland, Henry A.)						
Rowland, Henry A., deceased, Baltimore, Md.; H. H. Rowland, administratrix. Telegraphy	713,497	Nov. 11	1986	449 450 451 452 453	101	1321
Rowland, Henry A., assignor to Rowland Telegraphic Company, Baltimore, Md. Synchronous telegraph system	691,067	Jan. 21	2452	550	98	545
Rowland, Henry A., deceased; H. H. Rowland, administratrix, assignor to Rowland Telegraphic Company, Baltimore, Md. Telegraphic distribution	699,574	May 6	832	196 197	99	1347
Rowland, Henry A., deceased; H. H. Rowland, administratrix, assignor to Rowland Telegraphic Company, Baltimore, Md. Telegraphic page-printer	699,575	May 6	847	197 198 199	99	1349
Rowland, Henry A., deceased; H. H. Rowland, administratrix, assignor to Rowland Telegraphic Company, Baltimore, Md. Keyboard for use in telegraphy	704,927	July 15	2950	683 684 685	100	635
Rowland, Henry A., deceased; H. H. Rowland, administratrix, assignor to Rowland Telegraphic Company, Baltimore, Md. Telegraphic distribution	704,928	July 15	2954	635 636	100	636
Rowland, Henry A., deceased; H. H. Rowland, administratrix, assignor to Rowland Telegraphic Company, Baltimore, Md. Means for producing and maintaining synchronous motion	704,929	July 15	2970	637	100	637
Rowland, Henry A., deceased; H. H. Rowland, administratrix, assignor to Rowland Telegraphic Company, Baltimore, Md. Means for impressing periodically-varying electric currents upon telegraph or other circuits	704,930	July 15	2976	637	100	638
Rowland, Henry A., deceased; H. H. Rowland, administratrix, assignor to Rowland Telegraphic Company, Baltimore, Md. System of telegraphic distribution	715,696	Dec. 9	1971	441 442	101	2256
Rowland, Jesse H. (See Ritter and Rowland.)						
Rowland Telegraphic Company. (See Penniman, Thomas D., assignor.)						
Rowland Telegraphic Company. (See Penniman and Wiegand, assignors.)						
Rowland Telegraphic Company. (See Rowland, Henry A., assignor.)						
Rowland, Thomas F., New York, N. Y. Manufacture of welded plate-metal cylinders, &c.	694,994	Mar. 11	1262	276	98	1997
Rowlands, Erroll G., Racine, Wis. Screw-driver	701,941	June 10	1176	268	99	2370
Rowley, Aaron V. (See Jude, August, assignor.)						
Rowley, Charles O., assignor of one-third to A. J. Boote, Toledo, Ohio. Valve	714,747	Dec. 2	187	38	101	1875
Rowley, James M., Chicago, Ill. Artificial limb	692,360	Feb. 4	233	61	98	851
Rowley, James M. (See Gebhard and Rowley.)						
Rowley, Raymond W., St. Louis, Mo. Boring-machine	693,743	Feb. 18	2896	637	98	1441
Rowley, Samuel H., et al. (See Rowley, Wilfrid B., assignor.)						
Rowley, Wilfrid B., Rockville, assignor of three-fourths to S. H. Rowley, M. J. Adams, and T. Tili, Swadincote, England. Apparatus for molding hollow articles in clay or other plastic materials	692,361	Feb. 4	255	61	98	851
Rowley, Wilson H., St. Louis, Mo. Making white lead	713,155	Nov. 11	1300	294	101	1181
Rowley, Winfield S., and L. B. Freeman, Indianapolis, Ind. Medical cabinet	700,561	May 20	2826	649	99	1789
Rowntree, Harold, assignor to Burdett-Rowntree Manufacturing Company, Chicago, Ill. Safety device for elevators	693,907	Feb. 25	3220	710	98	1324
Rowntree, Harold, assignor to Burdett-Rowntree Manufacturing Company, Chicago, Ill. Controlling mechanism for elevator-hoisting motors	693,908	Feb. 25	3223	710	98	1325
Rowntree, Harold, assignor to Burdett-Rowntree Manufacturing Company, Chicago, Ill. Elevator-hoisting mechanism	700,375	May 20	2484	569 570	99	1718
Rowntree, Harold, assignor to Burdett-Rowntree Manufacturing Company, Chicago, Ill. Electric elevator	715,239	Dec. 9	1241	265	101	2109
Rowntree, Harold, Chicago, Ill., assignor to Otis Elevator Company, New York, N. Y. Elevator hoisting mechanism	698,412	Apr. 22	3768	832	99	846
Rowntree, Harold, Chicago, Ill., assignor to Otis Elevator Company, New York, N. Y. Elevator hoisting mechanism	702,155	June 10	1577	337	99	2451
Rowse, George V., assignor of one-half to W. H. Crownshield and C. H. Lawton, Pawtucket, R. I. Brake mechanism for coin-controlled apparatus	691,181	Jan. 14	1513	341 342	98	330
Rowsey, Charles S. (See Getz and Rowsey.)						
Rowson & Morrison Manufacturing Company. (See Norris and Roughan, assignors.)						
Roxburgh, James, and R. McClean, Dublin, Ireland. Composite printing-form	703,307	June 24	3723	857	99	2925
Roxburgh, James, and R. McClean, Dublin, Ireland. Apparatus for slotting linotype-slugs	712,969	Nov. 4	953	221	101	1092
Roy, Joseph A., Dudley, Mass. Alarm device	695,236	Mar. 11	1721	381	98	2062
Roy, Thomas L., and T. Marshall, Jr., Chicago, Ill. Burner attachment	695,278	Sept. 16	2446	553	100	2515
Royal, Belford G., assignor to Gramophone and Typewriter, Limited, London, England. Coin-operated talking-machine	706,203	Aug. 5	389	83	100	1197
Royal Brush and Broom Company. (See Baldwin, Alonzo, assignor.)						
Royal Manufacturing Company. (See Uffel, Herman von, assignor.)						
Royal Metal Manufacturing Company. (See Lewenthal, Isaac, assignor.)						
Royal, Theodore A., Jr., et al. (See Fowler, Frank L., assignor.)						
Boyce, Edgar A., Excelsior Springs, Mo. Wheel-hub	700,376	May 20	2488	570	99	2718



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Royce, Harley E. (See Flinn, Patrick J., assignor.)						
Royle, Vernon, Paterson, N. J. Machine for lacing jacquard-cards.	690,615	Jan. 7	471	102	98	101
Royle, Vernon, Paterson, N. J. Shuttle for sewing-machines.	690,616	Jan. 7	475	103	98	101
Royle, Vernon, Paterson, N. J. Machine for punching jacquard-cards.	691,973	Jan. 28	3038	688	98	683
Royle, Vernon, Paterson, N. J. Cylinder-routing machine.	695,119	Mar. 11	1545	335	98	2046
Royle, Vernon, Paterson, N. J. Brake.	708,835	July 1	848	187	100	170
Roys, Margaret T. (See Roys, Willis E., assignor.)						
Roys, Willis E., Richmond Hill, assignor to M. T. Roys, New York, N. Y. Steam-heating system.	705,969	July 29	5093	1110	100	1001
Royster, John A., Louisville, Ky., assignor to Thomas Manufacturing Company. Springfield, Ohio. Grain-drill.	711,003	Oct. 14	1139	232	101	250
Rubber and Celluloid Harness Trimming Co. (See Schreiner, Joseph, assignor.)						
Rübel, Walter, Ludwigsburg, Germany. Alloy.	697,544	Apr. 15	2168		99	492
Rubens, George B., Indianapolis, Ind. Protector for traveling-bags.	711,881	Oct. 21	2858	632	101	627
Rubenstein, Nathan, New York, N. Y. Device for securing seats and lids of closet-basins.	711,127	Oct. 14	1889	302	101	303
Rubin, Max, New York, N. Y. Suspension-clasp.	696,196	Mar. 25	3509	786	98	2491
Rubin, Max, New York, N. Y. Suspender-buckle.	700,828	May 27	3303	773	99	1919
Rubin, Moses I., Philadelphia, Pa. Artificial tooth.	715,422	Dec. 9	1466	316	101	2155
Rubin, William, South Omaha, Nebr. Machine for testing cans.	690,244	May 6	200	48	99	1215
Rubin, William, South Omaha, Nebr. Can-heading machine.	710,895	Oct. 7	938	205	101	191
Rubin, William, South Omaha, and L. C. Sharp, Omaha, Nebr. Adjustable square-can-heading machine.	692,912	Feb. 11	1262	279	98	1084
Rubinson, Bernard, Philadelphia, Pa. Dental mandrel.	692,713	Feb. 4	879	200	98	979
Ruble, Martin R., Philadelphia, Pa. Machine for cleaning and renovating feathers.	696,494	Apr. 1	178	44	99	42
Rübsam, Carl, Fulda, Germany. Candle-molding machine.	710,806	Oct. 7	792	169	101	162
Ruck, John W. (See Stoll and Ruck.)						
Ruecker, Benjamin P., Brooklyn, N. Y. Circuit-breaker.	701,621	June 3	606	133	99	2235
Rücker, Karl, Zernsdorf, Germany. Fireproofing wood.	691,812	Jan. 23	2755		98	625
Rückgauer, Eugen, Stuttgart, Germany. Gin.	714,037	Nov. 18	3057	678	101	1562
Rucknitch, Alban V., Brooklyn, assignor to J. D. Baucus, New York, N. Y. Type-setting machine.	693,445	Feb. 18	2316	509	98	1323
Ruckstuhl, Frederick W., and A. Pohlmann, New York, N. Y. Potato-creamer.	707,019	Aug. 12	1944	435	100	1530
Rudd, David, Lacona, N. Y. Sapsout.	695,841	Mar. 18	2804	639	98	2332
Rudd, Ole, West Duluth, Minn. Die for making cant hook clasps.	706,691	Aug. 12	1336	297	100	1405
Ruddick, John J., Newton, assignor to United States Electric Signal Company, Watertown, Mass. Signaling system.	707,357	Aug. 19	2587	584	100	1082
Rudesill, John T. W., East St. Louis, Ill., assignor to Damascus Brake Beam Company, St. Louis, Mo. Finger-guard clip for brake-beams.	704,117	July 8	1406	362	100	296
Rudge, Arthur E. (See Rudge, Charles H., assignor.)						
Rudge, Charles H., assignor of one-half to A. E. Rudge, Newark, N. J. Crupper-dock-forming machine.	699,929	May 13	1561	359	99	1511
Rudhardt, Paul, Geneva, Switzerland. Protecting apparatus for electrical machines and plants.	704,969	July 15	3059	1257	100	653
Rudner, Samuel, assignor, by mesne assignments, to American Filtering Funnel Company, New York, N. Y. Filtering-funnel.	703,153	June 24	3459	792	99	2872
Rudolph, Charles, Paris, France, assignor to J. B. Brady, New York, N. Y., and C. T. Schoen, Philadelphia, Pa. Flexible metallic tube without joints.	712,336	Oct. 28	3718	812	101	817
Rudolph, Charles, Paris, France, assignor to J. B. Brady, New York, N. Y., and C. T. Schoen, Philadelphia, Pa. Flexible metallic tube.	712,418	Oct. 28	3868	847	101	852
Rudolph, Johannes P., Görlitz, Germany. Ornamenting surfaces.	714,332	Nov. 25	3640	804	101	1701
Rudolph, Robert E., Paducah, Ky. Ventilator.	708,498	Sept. 2	836	203	100	2164
Rudolphs, John, and J. Landin, assignors to A. Jacobi, Stockholm, Sweden. Extracting metals from their oxid ores.	699,016	Apr. 29	4980	1102	99	1123
Rudometoff, Michael, Gatschina, Russia. Multicolor or polychromatic printing.	698,739	Apr. 29	4448		99	1007
Ruebel, C. A., Ernst, St. Louis, Mo., assignor of one-half to E. H. R. Green, Terrell, Tex. Electric gas-light.	714,953	Dec. 2	624	131	101	1960
Ruebel, C. A., Ernst, St. Louis, Mo., assignor of one-half to E. H. R. Green, Terrell, Tex. Signal-lantern.	696,108	Mar. 25	3330	751	98	2455
Ruebsam, John E., Washington, D. C. Diaphragm meter and exerciser.	699,576	May 6	853	199	99	1351
Rueckert, George C. (See Lenzen, Bertram, assignor.)						
Rueckheim & Brother, F. W. (See Rice, Ida H., assignor.)						
Ruefy, Albert, Toledo, Ohio. Roller-bearing.	706,114	Aug. 5	207	43	100	1159
Ruef, Charles S., and C. L. Tomlinson, assignors to Grand Detour Plow Company, Dixon, Ill. Riding-plow.	704,274	July 8	1694	369	100	355
Ruef, Charles S., and C. L. Tomlinson, assignors to Grand Detour Plow Company, Dixon, Ill. Plow.	713,198	Nov. 11	2421	433	101	1328
Rueff, Emil, New York, N. Y. Compound of magnesia.	691,421	Mar. 4	169		98	1749
Rueger, Charles C., Butte, Mont. Stamp-battery cam.	692,483	Feb. 18	2397	537	98	892
Rueger, Charles C., Butte, Mont. Stamp-tappet.	707,259	Aug. 19	2397	537	100	1646
Rueger, Charles C., Butte, Mont. Pocket-compass.	709,046	Sept. 16	1982	432	100	2413
Rueger, Charles C., Butte, Mont. Pipe-wrench.	710,077	Sept. 30	4083	909	100	2871
Ruegg, Werner, Sömmerda, Germany. Projectile and time-fuse therefor.	699,577	May 6	854	199	99	1351
Ruegg, Werner, Sömmerda, Germany. Safety device for shell-fuses.	708,833	Sept. 9	1542	353	100	2909
Ruehs, Charles L. (See Streich and Ruehs.)						
Ruemmler Clemons, et al. (See Morris, Margaret E., assignor.)						
Rueter, Bernhard H., Burlington, Wis. Stuffing for horse-collars.	694,193	Feb. 25	3788	837	98	1638
Ruetgers, Rudolf. (See Kahl, Leopold, assignor.)						
Ruff, William J., Quincy, Ill. Lubricating apparatus.	696,197	Mar. 25	3510	787	98	2491
Ruff, William J., Quincy, Ill. Pasteurizer.	701,632	June 3	611	134	99	2236
Ruffner, Friedrich H., Teara, Germany. Knitted or looped undergarment.	716,482	Dec. 23	3373	781	101	3628
Rugz, Ephraim T., Newark, Ohio. Rope halter.	698,560	Apr. 20	4036	892	99	917
Ruggles, Henry B., Redlands, assignor to F. Stebler, Riverside, Cal. Fruit-brusher.	692,362	Feb. 4	256	62	98	852
Ruzzles, Nelson J., Columbus, Ohio. Wall-plaster.	708,591	Sept. 9	1057		100	2906
Ruhl, Amos P., New York, N. Y. Knife-sharpening device.	700,562	May 20	2828	649	99	1789
Ruhl, Otto, Bremen, Germany. Concrete and metal skeleton for building purposes.	700,443	May 20	2608	596	99	1744
Ruhland, Sidney, New York, N. Y. Billiard-cue bridge.	690,617	Jan. 7	475	103	98	102
Ruhlman, George H., and G. C. Miller, Cardington, Ohio. Can holder or jacket for can-capping machines.	698,037	Apr. 22	3109	684	99	799

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Ruiz, Thomas, <i>et al.</i> (See Espinosa, Albert, assignor.)						
Ruley, William W. (See Donnelly, James H., assignor.)						
Rulf, Ari, Brussels, Belgium. Apparatus for carbonating liquids	706,115	Aug. 5	208	43	100	1159
Rumbarger, Victor E., Dayton, Ohio. Means for expanding the tubes of bicycle parts and securing same	693,159	Feb. 11	1771	389	98	1187
Rumboski, Leo, assignor, by mesne assignments, of one-half to J. S. Longhurst, Jr., New York, N. Y. Pump connection	712,461	Oct. 28	3059	866	101	808
Rumely, William N., Laporte, Ind. Valve-gearing	692,913	Feb. 11	1264	280	98	1084
Rumely, William N., Laporte, Ind. Adjustable screen	694,496	Mar. 4	289	66	98	1773
Rummler, Eugene A., <i>et al.</i> (See Pitney, Arthur H., assignor.)						
Rumney, Fred A., East Somerville, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for setting eyelets	707,643	Aug. 26	3146	708	100	1815
Rumney, Fred A., East Somerville, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for setting eyelets	707,644	Aug. 26	3150	708	100	1816
Rumsey, Bronson, Buffalo, N. Y. Combined gun and cartridge carrier	695,176	Mar. 11	1611	357	98	2069
Rumsey, Theodore P., Elmira, N. Y. Horse-detacher	710,520	Oct. 7	247	56	101	50
Rundell, Albert L., Providence, R. I., assignor of one-half to E. G. Davis, Plainfield, Conn. Ash-sifter	708,257	Sept. 2	486	111	100	2079
Rundell, William, Plymouth, England. Sash-fastener	704,589	July 15	2278	494	100	492
Rundlett, William D., assignor to Davis & Furber Machine Company, North Andover, Mass. Adjustable eccentric	717,282	Dec. 30	5238	1136	101	3005
Rundquist, William, Elgin, Ill. Jewel-setting machine	696,733	Apr. 1	682	154	99	146
Rundquist, William, assignor to H. G. Weatherill, Elgin, Ill. Wrench	699,017	Apr. 29	4982	1102	99	1123
Runge, Walter C., London, England. Graphophone, phonograph, or the like	692,363	Feb. 4	258	62	98	552
Runnals, Richard, Westley, R. I. Corset-reel	708,667	Sept. 9	1201	274	100	2536
Runnells, William F., Newburyport, Mass. Diaphragm-pump	696,696	Apr. 1	562	128	99	122
Runnoe, Joseph, Crested Butte, Colo. Car-brake	713,499	Nov. 11	2024	454	101	1329
Runtz, Henry, Chicago, Ill. Display device for neckties	699,715	May 13	1126	264	99	1119
Runtz, Henry, Chicago, Ill. Display-holder for neckties	701,942	June 10	1178	269	99	2371
Runyan, Clay M., and O. D. Levering, Columbus, Ohio; said Levering assignor to said Runyan. Combined printing and addressing machine	715,871	Dec. 16	2368	525	101	2360
Runyon, Charles. (See Coleman and Runyon.)						
Runyon, Lewis M., Allamuchy, N. J. Fence	699,816	May 13	1326	398	99	1461
Runtz, Henry, Chicago, Ill. Display-holder for neckties	705,149	July 22	3434	746	100	745
Ruping, Max, Charlottenburg, Germany. Impregnating wood	709,739	Sept. 23	3486		100	2743
Ruple, Mary T. (See Davis, Katherine M., assignor.)						
Rupley, George H., Schenectady, N. Y., assignor to General Electric Company. High-potential insulator	715,875	Dec. 16	2370	525	101	2361
Rupp, Charles, Philadelphia, Pa. Skylight	691,698	Jan. 21	2459	551	98	547
Rupp, Charles, assignor to J. S. Thorne Company, Philadelphia, Pa. Automatic releasing device for window-sashes	700,800	Sept. 23	3487	786	100	2743
Rupp, Peter. (See Studer and Rupp.)						
Rupp, William D., Marion, Ind. Fire-escape	715,876	Dec. 16	2371	526	101	2361
Rusbatch, Alfred, Cleveland, Ohio. Gage	703,086	June 24	3311	767	99	2849
Rusby, Joseph H., Nutley, N. J. Adjustable switch or outlet box	702,247	Nov. 10	1734	391	99	2482
Rusby, Joseph H., Nutley, N. J. Knuckle-joint	712,725	Nov. 4	480	113	101	998
Ruse, Joseph, <i>et al.</i> (See McIntosh, John A., and W., assignors.)						
Rush, Henry G., Oil City, Pa. Gas-burner for firing barrels	699,578	May 6	856	200	99	1351
Rush, John, Waterloo, Iowa. Carbureter	706,600	Aug. 12	1165	258	100	1367
Rush, Madison, Memphis, Tenn. Electric time-switch	713,500	Nov. 11	2025	454	101	1330
Rush, Stephen F., assignor to J. L. Troutwine and H. E. Seeds, Tyrone, Pa. Railway-chair	713,895	Nov. 18	2594	518	101	1463
Rusk, Elam J., Kleinwood, La. Turtle-trap	703,475	July 1	181	43	100	38
Russel, Jacob B., Delray, Mich. Carpet-stretcher	695,495	Mar. 18	2160	487	98	2291
Russell, A. W. (See Blake, Frederick W., assignor.)						
Russell, Andrew J. and W. H., Auburn, Ind. Gate	691,409	Jan. 21	1989	446	98	419
Russell, Burdall & Ward Bolt and Nut Company. (See James, Charles W., assignor.)						
Russell, Burdall & Ward Bolt & Nut Company. (See Tyberg, Oluf, assignor.)						
Russell Car and Snow-Plow Company. (See Russell, James W., assignor.)						
Russell, Charles H., Manistee, Mich. Collapsible carton	704,380	July 8	1898	411	100	401
Russell, Edgar A., Wallingford, Conn. Expandible bolt	699,245	May 6	204	49	99	1216
Russell, Edgar A., Wallingford, Conn. Shade-holder for incandescent electric lamps	703,308	June 24	3724	878	99	2925
Russell & Erwin Manufacturing Company. (See Brady, James, assignor.)						
Russell & Erwin Manufacturing Company. (See Jones, Horace K., assignor.)						
Russell & Erwin Manufacturing Company. (See Voight, Henry G., assignor.)						
Russell & Erwin Manufacturing Company. (See Voight and Jones, assignors.)						
Russell & Erwin Manufacturing Company. (See Voight and Parker, assignors.)						
Russell, Francis E. (See Gardiner, Thomas H., assignor.)						
Russell, Frank J., New York, N. Y. Combined switch and plug receptacle-box	696,597	Apr. 1	363	86	99	80
Russell, Frank J., New York, N. Y. Water-tight fixture for electric lights	699,817	May 13	1327	398	99	1461
Russell, Frank K., Dallas, Tex. Embossing-machine	709,422	Sept. 16	2736	614	100	2577
Russell, George E., Buffalo, N. Y. (See Russell, William H., and O. E.)						
Russell, George H., Pittsfield, Mass. Overhead trolley	703,476	July 1	181	43	100	38
Russell, Herbert S., London, England. Apparatus for lining casks, barrels, or like vessels	707,260	Aug. 19	2398	537	100	1643
Russell, Isaac H., <i>et al.</i> (See Marshall, John, assignor.)						
Russell, James A., Tacoma, Wash. Burning wood or charcoal fuels, &c	714,038	Nov. 18	3058	678	101	1562
Russell, James H., Philadelphia, Pa. Machine for treating tubes	704,581	July 15	2270	494	100	492
Russell, James V., Sheldon, Iowa. Band-cutter and feeder	713,804	Nov. 18	2590	577	101	1462
Russell, James W., Boston, Mass., assignor to Russell Car and Snow-Plow Company	717,283	Dec. 30	5230	1136	101	3006
Russell, John A., Keywest, Fla. Washboard	694,790	Mar. 4	884	196	98	1890
Russell, John A., Keywest, Fla. Window-ventilator	705,393	July 22	3767	817	100	812
Russell, John J., Jr., Deepwater, Mo. Storm-shield attachment for vehicles	713,970	Nov. 4	955	222	101	1082
Russell, John K., and W. F. Clausen, Sheboygan, Wis. Gas arc-lamp	691,001	Jan. 14	1202	277	98	286
Russell, John M., Ottumwa, Iowa. Life-saving net	713,922	Nov. 18	2822	627	101	1511
Russell, John W., Baltimore, Md. Hammer and rake for culling oysters	695,651	Mar. 18	2472	561	98	2295
Russell, Leon L., Greene, Iowa. Lacing-stud	704,118	July 8	1413	303	100	30
Russell, Manning W., Joquin, Tex. Body-brace	703,477	July 1	183	43	100	39
Russell, Margaret J., Stamford, N. Y. Dough-kneader	702,248	June 10	1735	392	99	2482
Russell, Oscar, assignor of two-thirds to W. G. Wise and F. M. Edwards, Chicago, Ill. Composition of matter	714,039	Nov. 18	3059		101	1563
Russell, Peter H., Camptonville, Cal. Current water-wheel	692,364	Feb. 4	260	63	98	853
Russell, Ross M., Binghamton, N. Y. Attachment for lathes	710,897	Oct. 7	793	171	101	163



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Russell, Ross M., Binghamton, N. Y. Grinding attachment for lathes	710,808	Oct. 7	798	171	101	163
Russell, William H. (See Russell, Andrew J. and W. H.)						
Russell, William H. and G. E., Jersey City, N. J. Apparatus for burning liquid hydrocarbons	708,258	Sept. 2	487	111	100	2080
Russell, William H. and G. E., Jersey City, N. J. Bunsen burner	708,259	Sept. 2	488	112	100	2080
Russell, William R., and E. R. Mead, Fort Scott, Kans. Sliding-door fastening	716,284	Dec. 16	3168	694	101	2528
Rust, Edwin G., Pueblo, Colo. Water-tube boiler	698,323	Apr. 22	3617	799	99	814
Rust, Edwin G., Pueblo, Colo. Water-tube boiler	700,091	May 13	1846	429 1430	99	1568
Rust, Edwin G., Pueblo, Colo. Water-tube boiler	710,340	Sept. 30	4528	1021 1022	100	2977
Rust, George M., and E. J. Faulkner, Dayton, Ohio. Toilet-paper holder and cutter	716,993	Dec. 30	4556	989	101	2861
Rustin, Gilbert. (See Klindworth, Otto S., assignor.)						
Ruth, Frederick. (See Rothenbusch, Philipp, assignor.)						
Ruth, George W., Norristown, Pa. Tension device for knitting-machines	690,775	Jan. 7	787	175	98	166
Ruth, George W., assignor to Ruth Automatic Knitting Machine Company, Norristown, Pa. Knitting-machine	715,154	Dec. 2	965	1208 1209	101	2034
Ruth, John F., and E. Preiser, St. Louis, Mo. Range	712,854	Nov. 4	736	170	101	1049
Ruth Knitting Machine Company. (See Ruth, George W., assignor.)						
Ruthenburg, Marcus, Philadelphia, Pa. Reducing metals from their ores	711,738	Oct. 21	2585	567	101	570
Rutherford, Richard H., Marion, Oreg. Car-coupling	698,740	Apr. 29	4449	982	99	1007
Rutter, Charles A. (See Bell, Robert A., assignor.)						
Ruttkamp, Charles. (See Ruttkamp, Ernest, assignor.)						
Ruttkamp, Ernest, assignor of one-half to C. Ruttkamp, Allegheny, Pa. Mixing-machine	707,261	Aug. 19	2400	539	100	1643
Rutkowski, Emil, Briesen, Germany. Permanent way for railways	710,617	Oct. 7	430	90	101	86
Rutz, Frank A. C., Rochester, N. Y. Device for holding chalk or other material	703,478	July 1	184	43	100	39
Ruud, Rudolf R. F., Christiania, Norway. Apparatus for use in angling	693,071	Feb. 11	1573	343	98	1149
Ryan, Andrew C., Cheroke, Cal. Adjustable conduit for taking water from rivers	716,483	Dec. 23	3576	781	101	2628
Ryan, Catherine, Ottawa, Canada. Garment measuring and drafting device	717,284	Dec. 30	5233	1137	101	3006
Ryan, Charles, Glasgow, Scotland. Guide for band-saws	716,763	Dec. 23	4105	900	101	2741
Ryan, David, Centralia, Ill. Candlestick	716,484	Dec. 23	3578	782	101	3029
Ryan, George F., Chicago, Ill. Pipe connection	702,596	June 17	2398	548	99	2638
Ryan, George F., Chicago, Ill. Joint for metallic and earthenware pipes	715,423	Dec. 9	1467	317	101	2155
Ryan, J. M., et al. (See Brooks, Theodore L., assignor.)						
Ryan, John, assignor to J. D. Ryan, Watertown, N. Y. Electric-railway system	694,425	Mar. 4	170	38	98	1749
Ryan, John D. (See Ryan, John, assignor.)						
Ryan, John F., Brooklyn, and W. McEwan, Winfield, N. Y., assignors to A. H. Eyles, Ad-dingham, Pa. Filter-faucet	701,943	June 10	1179	269	99	2371
Ryan, John J., San Jose, Cal. Cigar-wrapping machine	693,669	Feb. 18	2760	609	98	1413
Ryan-McDonald Manufacturing Co. (See Farlow and Schimpf, assignors.)						
Ryan, Peter, et al. (See McIntosh, John A. and W., assignors.)						
Ryan, Thomas, Germantown, Pa. Yielding hoof-pad	705,615	July 29	4462	967	100	964
Ryan, Thomas F., et al. (See Brackney, Orville J., assignor.)						
Ryckman, S. S., et al. (See Chinnock, George H., assignor.)						
Ryden, Axel, assignor to Chicago Writing Machine Company, Chicago, Ill. Copy-holder for type-writers' use	704,119	July 8	1415	303	100	298
Ryder, Malcolm, New York, N. Y., assignor, by mesne assignments, to Large Tree Trans-planting Company. Apparatus for extracting, transporting, and replanting trees	713,501	Nov. 11	2027	455 456	101	1330
Rye, Thor, assignor of one-half to W. A. Crowe, Minneota, Minn. Miter-joint for eaves-troughs	702,156	June 10	1531	357	99	2452
Ryerson, Edward J., Jackson, Mich. Stock	696,845	Apr. 1	844	194	99	178
Ryland, Dudley B. (See Giddens, Benjamin F., assignor.)						
Ryland, E. C. W. (See Davison, John C., assignor.)						
Rylander, Johan A., Norrköping, Sweden. Preserving eggs	696,495	Apr. 1	179		99	42
Rylands, James J., Millvale, assignor to Homestead Valve Manufacturing Company, Homestead, Pa. Valve	699,818	May 13	1330	308	99	1462
Rylands, James J., Millvale, assignor to Homestead Valve Manufacturing Company, Homestead, Pa. Valve	701,509	June 3	408	92	99	2192
Ryder, William H., Liverpool, England. Bucket or manger	710,341	Sept. 30	4'30	1022	100	2977
Ryon, Epps H. (See Hutchins and Ryon.)						
Rypinski, Maurice C., Schenectady, N. Y., assignor to General Electric Company. Shunt for electrical instruments	696,757	Apr. 1	687	156	99	147
Rypinski, Maurice C., Schenectady, N. Y., assignor to General Electric Company. Elec-trolytic cell	714,400	Nov. 25	3772	833	101	1725
Ryther, Frank A., assignor to Deering Harvester Company, Chicago, Ill. Knotting de-vices for automatic binders	714,242	Nov. 25	3481	766	101	1667
S. Karpen & Bros. (See Weyer, Theodore G., assignor.)						
S. Twitchell Company. (See Weed, Jacob K., assignor.)						
S. A. Woods Machine Company. (See Blood, Charles W. H., assignor.)						
S. A. Woods Machine Company. (See Blood, Charles W. H., assignor.) (Reissue.)						
S. H. Howe Shoe Company. (See Underwood, John H., assignor.)						
S. S. White Dental Manufacturing Company. (See Browne, Arthur W., assignor.)						
S. S. White Dental Manufacturing Company. (See Hollingsworth, Merrill W., assignor.)						
S. S. White Dental Manufacturing Company. (See Richardson, Charles H., assignor.)						
Saberhagen, Helge C. M., Byron, Ill. Bracket-hook	713,156	Nov. 11	1302	294	101	1182
Sabin, Herbert B., Cleveland, Ohio. Folding support for game or other boards	695,949	Mar. 25	3003	679	98	2387
Sacher, Siegfried. (See Boucay, Léon, assignor.)						
Sachs, Joseph, Hartford, Conn. Automatic electric circuit-controller	711,790	Oct. 21	2084	591	101	589
Sack, Lawrence, Farwell, Neb. Combination-drill	716,764	Dec. 23	4106	901	101	3742
Sack, Richard E., Detroit, Mich. Steering-gear	694,791	Mar. 4	885	196	98	1800
Sacket, Edward A., Denver, assignor of one-half to J. C. Anderson, Telluride, Colo. Combined sash-fastener and shade-support	706,456	Aug. 5	920	199	100	1302
Sacket, Edward A., J. C. Anderson, and G. P. Betts, Denver, Colo. Sash-fastener	711,348	Oct. 14	1839	399	101	398
Sackett, Frank L., Fredonia, N. Y. Chute	708,081	Sept. 2	151	36	100	2012
Sackett, Frank L., Fredonia, N. Y. Chute	708,082	Sept. 2	153	36.37	100	2012
Sackett, Hiram B., Chicago, Ill. Coal-bagger	707,358	Aug. 19	2589	585	100	1683
Sackett, Homer M., Telluride, Colo., assignor to A. Leschen & Sons Rope Company, St. Louis, Mo. Rope-grip	694,029	Feb. 25	3475	766	98	1576
Sackville, James A., Pendleton, Manchester, England. Apparatus for dyeing, &c.	693,446	Feb. 18	2335	510	98	1326
Saco and Pettee Machine Shops. (See James, Frederick H. L., assignor.)						
Saco & Pettee Machine Shops. (See Mills and Hutton, assignors)						
Saco & Pettee Machine Shops. (See Threlfall, William V., assignor.)						
Sacora, John, DeKalb, Ill. Grain-screen	698,447	Feb. 18	2337	511	98	1326
Sadler, Frederick, assignor of one-half to P. J. H. Robinson, London, England. Handle-bar for cycles, &c.	690,464	Jan. 7	150	31	98	34
Sadler, Thomas. (See Levey and Sadler.)						
Sadowsky, Julius, Pittsburg, Pa. Punching-machine	714,401	Nov. 25	3773	833	101	1726

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Sadtler, Samuel S., Philadelphia, Pa. Extracting metals from ores and scrap containing same.	700,563	May 20	2829	650	99	1790
Safe Deposit and Trust Company of Baltimore City <i>et al.</i> , executors. (See Mergenthaler and Hootnagle.)						
Safety Car Heating & Lighting Company. (See Creveling, John L., assignor.)						
Safety Car Heating and Lighting Company. (See Creveling, John L., assignor.) (Re-issue.)						
Safety Gaslight Co. (See Kitten, Joseph W., assignor.)						
Safety Lock Snap Manufacturing Company. (See Chapman, Leo M., assignor.)						
Safety Shredder Co. (See Lawter, Benjamin H., assignor.)						
Safety Stage Support Company. (See Jolliffe, Edward, assignor.)						
Saffell, Silas B. (See McKee and Saffell.)						
Safford, Charles L. (See Glover, Francis W., assignor.)						
Safford, Clarence E., Buffalo, N. Y. Sheet-metal radiator	692,365	Feb. 4	261	63	98	853
Safford, Edmund T. (See Hunker, John M., assignor.)						
Safford, William C. (See Bierley, Henry A., assignor.)						
Sagar, Donald. (See Sagar, Joe and D.)						
Sagar, Joe and D., Halifax, England. Dovetailing-machine	703,002	June 24	3170	729 730	99	2816
Sage, Augusta M., administratrix. (See Sage, George F.)						
Sage, Frederick B., <i>et al.</i> (See Rennie and Van Derbeek, assignors.)						
Sage, Frederick B., <i>et al.</i> (See Whitney, Clinton E., assignor.)						
Sage, George F., deceased, Cleveland, Ohio; A. M. Sage, administratrix. Rotary engine	692,212	Jan. 28	3476	786	98	771
Sage, Leverett H., <i>et al.</i> (See Whitney, Clinton E., assignor.)						
Sage, Leveritt H., <i>et al.</i> (See Rennie and Van Derbeek, assignors.)						
Sage, Ralph V., Westmont, Pa. Car-bolster	692,914	Feb. 11	1265	280	98	1085
Sage, Ralph V., Westmont, Pa. Hopper-car and door therefor	699,819	May 13	1331	399	99	1462
Sage, Ralph V., Westmont, Pa. Door for dumping cars	699,820	May 13	1334	310	99	1463
Sage, Ralph V., Johnstown, Pa. Door for hopper-cars	693,910	Feb. 25	3226	711	98	1526
Sage, Ralph V., Johnstown, Pa. Drop-door gondola car	697,021	Apr. 8	1226	274	99	279
Sage, Ralph V., Johnstown, Pa. Truck-bolster	697,664	Apr. 15	2390	582	99	537
Sage, Ralph V., Johnstown, Pa. Sill and bolster connection for steel cars	698,058	Apr. 22	3110	684	99	709
Sage, Ralph V., Johnstown, Pa. Truck-bolster	700,564	May 20	2831	650	99	1790
Sage, Ralph V., Johnstown, Pa. Draft-rigging for cars	711,255	Oct. 14	1667	359	101	361
Sage, Ralph V., Johnstown, Pa. Ball-bearing truck for cars	717,124	Dec. 30	4910	1064	101	2936
Sager, Chauncy A., Los Angeles, Cal. Grass-edge trimmer and sod-cutter	717,030	Dec. 30	4746	1029	101	2902
Sager, Firm of Hermann. (See Goerke, Emil J. G., assignor.)						
Sager Gear Company. (See Ashley, Edward G., assignor.)						
Sager, Harry F., <i>et al.</i> (See Freed, Hoover W., assignor.)						
Sager, James H., and G. D. Green, Rochester, N. Y. Cushion-frame for bicycles or like vehicles	707,262	Aug. 19	2402	539	100	1644
Sager, James H., and G. D. Green, assignors to Regas Vehicle Company, Rochester, N. Y. Frame-joint	714,402	Nov. 25	3775	833	101	1726
Sague, James E., Schenectady, N. Y. Compound steam-engine	692,034	Jan. 28	3146	709 710 711	98	703
Sague, James E., Schenectady, N. Y. Compound steam-engine	692,035	Jan. 28	3150	711	98	704
Sahler, Emil, Waseca, Minn. Fence-wire stretcher	699,246	May 6	205	49	99	1216
Sahlin Corset Company. (See Howd, Charles B., assignor.)						
Saillet, Jules L., Paris, France. Automatic thread-feeder for sewing-machines	704,690	July 15	2454	530	100	528
Sakrzewski, Julius, Hanover, Germany. Combined road and ice skate	700,377	May 20	2489	579	99	1719
Sala, Joseph C., <i>et al.</i> (See Stabile, Gioacchino, assignor.)						
Sala, Joseph C., San Francisco, Cal. Surveying and reconnaissance instrument	707,161	Aug. 19	2219	498	100	1604
Sala, Joseph C., and C. Stabile, San Francisco, Cal. Windmill	692,714	Feb. 4	880	201	98	979
Salamandrine Boiler Company. (See Ofeldt, August W., assignor.)						
Salamon, Alfred G. (See Smith, Gidden, and Salamon.)						
Saldin, Max, assignor to O. L. Mayer, New York, N. Y. Knitting-machine	709,047	Sept. 16	1987	453 454	100	2418
Sale, Archie P., <i>et al.</i> (See Manson, Thomas C., assignor.)						
Sale, Clarence. (See Currier, Jeremiah M., assignor.)						
Sale, George G., Dunedin, New Zealand. Concentrator for gold-bearing material	694,199	Feb. 25	3789	838	98	1638
Salem Iron Works. (See Martin, Whitley E., assignor.)						
Saleme, Frank P., Juniata, Pa. Keyway rail-joint tie	715,698	Dec. 9	1979	443	101	2258
Salenius, Erik G. N., assignor to Salenius' Werkstäder, Manufacturing Firm, Stockholm, Sweden. Apparatus for cooling milk or cream	716,112	Dec. 16	2841	625	101	2462
Salenius' Werkstäder, Manufacturing Firm. (See Salenius, Erik G. N., assignor.)						
Salisbury, Edgar E., assignor of one-half to F. B. Taylor, Chicago, Ill. Automatic gravity-signalphone	696,198	Mar. 25	3512	787	98	2491
Salisbury, George F., Boston, Mass. Combined shaving-brush and soap-holder	692,484	Feb. 4	460	107	98	892
Salisbury, Herbert L., assignor of one-third to W. Waring, Springfield, Mass. Acetylene-gas generator	692,213	Jan. 28	3479	786 787	98	772
Sallade, Jacob, Milton, Pa., assignor of one-half to B. F. Johnson, Richmond, Va. Twin envelop	693,624	Feb. 18	2679	591	98	1396
Salmon, Benjamin F., Freehold, Pa. Protecting attachment for legs of trousers	694,200	Feb. 25	3790	838	98	1638
Salmon, Delbert B., and D. C. Mitchell, Potsdam, N. Y. Suit-hanger	706,497	Aug. 5	987	217	100	1316
Salmon, John, New York, N. Y. Electric call	694,792	Mar. 4	886	196 197	98	1899
Salmon, John, Liverpool, England. Table-tennis net	699,980	May 13	1661	381	99	1530
Salmon, William B. (See Allen and Salmon.)						
Salmon, William C., Washington, D. C. Steam cooking apparatus	702,597	June 17	2401	549	99	2639
Salmon, Wilmer W., Chicago, Ill. (See Wilson and Salmon.)						
Salmon, Wilmer W., Chicago, Ill. Electric railway signaling system	692,916	Feb. 11	1275	281	98	1088
Salmon, Wilmer W., Chicago, Ill. Electric signaling system	692,917	Feb. 11	1278	281	98	1089
Salmon, Wilmer W., Chicago, Ill., assignor to Hall Signal Company. Signaling system for single-track railways	692,915	Feb. 11	1268	281	98	1086
Salmon, Wilmer W., Chicago, Ill., assignor to Hall Signal Company. Signaling system for single-track railways	697,277	Apr. 8	1666	373	99	374
Salmon, Colin, San Francisco, Cal. Clothes-hook	703,742	July 1	677	150	100	135
Salmons, Robert H., Rochester, N. Y. Apparatus for racking liquids	694,608	Mar. 4	636	139	98	1847
Salomon, Jacob, San Francisco, Cal. Egg-stand	710,078	Sept. 30	4035	909	100	2871
Salter, John, Jr., Philadelphia, Pa. Exhaust-valve for internal-combustion engines	701,944	June 10	1181	269	99	2371
Salter, Sidney, <i>et al.</i> (See Hackett, George H., assignor.)						
Saltzman, David B. (See Hoyt and Saltzman.)						
Saltutrynski, Eugene, Genille, France. Boot or like stretching and molding device	691,076	Jan. 14	1335	301	98	293



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Salvesen, Nils, Grimstad, Norway. Oil-distributing apparatus for calming waves .....	710,013	Sept. 30	3920	885	100	2847
Salveter, Theodore C., St. Louis, Mo. Arch-bar .....	699,981	May 13	1662	382	99	1530
Salver, Harry M., assignor to Ludwig and Company, New York, N. Y. Self-playing attachment for musical instruments .....	700,820	May 27	3364	773 774	99	1919
Salver, Harry M., assignor to Ludwig and Company, New York, N. Y. Playing attachment for musical instruments .....	700,830	May 27	3370	774	99	1920
Salver, Harry M., assignor to Ludwig & Company, New York, N. Y. Playing attachment for key musical instruments .....	703,743	July 1	679	151	100	135
Salver, Harry M., assignor to Ludwig & Co., New York, N. Y. Automatic playing attachment for musical instruments .....	711,004	Oct. 14	1142	252 253	101	250
Salver, Harry M., New York, N. Y., assignor to Ludwig & Co. Apparatus for perforating music-sheets .....	702,887	June 17	2034	676 677	99	2750
Salzman, Christian A., assignor to Salzman Manufacturing Company, Hamilton, Ohio. Swing .....	696,355	Mar. 25	3846	855	98	2561
Salzman Manufacturing Company. (See Salzman, Christian A., assignor.)						
Samaïn, Pierre, Clamart, France. Liquid-meter .....	714,833	Dec. 2	337	74.75	101	1906
Samberg, Gustaf F., San Francisco, Cal. Shipping-package .....	699,417	May 6	557	127	99	1289
Samen, Edward W., Lasalle, Ill. Metal truss .....	702,332	June 10	1877	428	99	2560
Samen, Edward W., Lasalle, Ill. Draft-spring rigging for railway-cars .....	709,361	Sept. 16	2615	586	100	2550
Sammons, Hugh G., assignor of one-half to T. H. St. John, Canton, Ohio. Toy .....	691,325	Jan. 14	1813	400	98	391
Sammons, Timothy J., Corona, N. Y. Car-coupling .....	697,032	Apr. 8	1229	275	99	275
Samorski, Peter, Chicago, Ill. Air-ship .....	701,510	June 3	410	98	99	2192
Sampere, Jose, New York, N. Y. Automatic piano-player .....	690,618	Jan. 7	476	103 104	98	111
Sample, Ezekiel A., Fredericktown, Mo. Car-fender .....	701,945	June 10	1182	269 270	99	2371
Sampson, James, Duluth, Minn. Bevel attachment for squares .....	715,610	Dec. 9	1818	403	101	2264
Sampson, William P., assignor of one-half to P. S. Brown, Kansas City, Mo. Rein-holder .....	709,855	Sept. 23	3578	806	100	2721
Samson, Sewall D., Woburn, Mass. Sash-fastener .....	710,896	Oct. 7	940	206	101	191
Samskog, Henry N. (See Verret and Samsteg.)						
Samuel, David, Baltimore, Md. Burton guard or retainer .....	711,739	Oct. 21	2586	658	101	570
Samuel, Edward. (See Angerer and Samuel.)						
Samuel Winz, Skate Mfg. Co. (See Everett, Otis W., assignor.)						
Samuels, Jonathan J., assignor to D. M. Sechler Carriage Company, Moline, Ill. Seed-ing-machine .....	702,486	June 17	2186	498 499	99	2505
Samuelson, Charles J., and E. M. Johnson, Calders Station, Utah. Attachment for dis-integrators .....	708,972	Sept. 9	1820	419	100	2365
Sanborn, Gertrude V., Chicago, Ill. Spinning-top .....	693,448	Feb. 18	2338	511	98	1826
Sander, Firm of Franz. (See Goetze, Paul C. E., assignor.)						
Sanders, Bertha D., New York, N. Y. Flower support or holder .....	706,358	Aug. 5	403	105 106	100	1216
Sanders, Ebenezer A., et al. (See Edwards, Isaac L., assignor.)						
Sanders, Edward A., Saginaw, Mich. Window .....	691,182	Jan. 14	1518	342	98	331
Sanders, Edward A., Saginaw, Mich. Window .....	711,179	Oct. 14	1513	325 326	101	330
Sanders, Ernest B., Oakgrove, La. Store-fixture .....	697,665	Apr. 15	2201	532	99	537
Sanders, Francis L., Nottingham, England. Two-speed driving mechanism .....	707,944	Aug. 26	3785	840	100	1942
Sanders, Henry L., Jersey City, N. J. Screen .....	712,971	Nov. 4	956	232	101	1933
Sanders, James E., Dalton, Ga. Hulling-machine .....	695,120	Mar. 11	1510	335	98	247
Sanders, John, Dundee, Tex. Plow .....	699,716	May 13	1127	264	99	1419
Sanders, John F., Boise, Idaho. Crushing and pulverizing mill .....	705,870	July 29	4912	1068	100	1054
Sanders, John M., Dalton, Ga. Pea-huller .....	693,072	Dec. 11	1574	343	98	1149
Sanders, Joseph. (See Berliner and Sanders.)						
Sanders, Joseph, assignor to E. Berliner, Washington, D. C. Floor-covering .....	713,155	Feb. 2	968	309	101	2343
Sanders, Louis, Brooklyn, N. Y. Belt-clamp for buckles .....	701,091	May 27	3843	882	99	2018
Sanders, Newell, Chattanooga, Tenn. Multiple or gang plow .....	717,455	Dec. 30	5536	1202 1203	101	3908
Sanders, Richard D., Blackheath, England. Apparatus for the manufacture of compound wire bars by electrodeposition .....	696,109	Mar. 25	3332	751	98	2456
Sanders, Rudolph, New York, N. Y. Folding lounge .....	712,599	Nov. 4	264	64	101	932
Sanders, Wilbur E., Helena, assignor of one-half to J. Berkin, Boulder, Mont. Car-axle-journal-box .....	694,995	Mar. 11	1265	276 277	98	1908
Sanderson, Frederick H., Cambridge, England. Photographic camera .....	694,080	Feb. 25	3568	787 788	98	1594
Sanderson, Herbert H., Walpole, Mass. Stair-pad .....	708,260	Sept. 2	489	112	100	2080
Sanderson, James A. (See Taylor, William A., assignor.)						
Sanderson, Thomas C., Chelsea, N. Y. Producing metallic antimony .....	714,040	Nov. 18	3069	101	1563	
Sandle, Babe, Thompson, Miss. Weeting implement .....	704,120	July 8	1416	303	100	238
Sandler, Charles, assignor of one-half to I. Smolensky, Washington, D. C. Compound tool .....	696,758	Apr. 1	688	156	99	147
Sandmeyer, Traugott, assignor to Aniline Colour and Extract-Works, formerly John E. Geigy, Basle, Switzerland. Making indigo .....	697,545	Apr. 15	2168	99	492	
Sands, Charles, Palatka, Fla. Can-opener .....	692,918	Feb. 11	1283	281	98	1090
Sands, William B. (See Whitaker, Morris M., assignor.)						
Sandstedt, Edmund W., Hankow, China. Paper-file .....	704,935	July 15	2084	639	100	610
Sandstrom, Charles E., Chicago, Ill. Sawing, jointing, and boring machine .....	701,623	June 3	615	135 136	99	2237
Sandstrom, Charles E., Chicago, Ill. Machine for forming elliptical frames .....	701,624	June 3	620	136 137	99	2238
Sandstrom, Charles E., Chicago, Ill. Machine for forming elliptical frames .....	701,625	June 3	628	137 138	99	2240
Sandstrom, Charles E., Chicago, Ill. Machine for manufacturing picture-frames .....	713,157	Nov. 11	1304	295 296	101	1182
Sandstrom, Edward, assignor of one-third to T. G. Holland, Wilmington, Del. Root-dig- ging machine .....	691,292	Jan. 14	1727	393 394	98	375
Sandusky Portland Cement Company. (See Newberry, Spencer B., assignor.)						
Sandusky Portland Cement Company. (See Reilly and Newberry, assignors.)						
Sandvig, Anders, Lillehammer, Norway. Apparatus for forming plates .....	699,018	Apr. 29	4983	1102	99	1123
Sandy, Edward M., Eaton, Colo. Dumping-wagon .....	710,214	Sept. 30	4313	970	100	2331
Sanford, Alfred F., Knoxville, Tenn. Collection-form .....	702,487	June 17	2190	499 500	99	2596
Sanford, Byron J. (See Barton, Arthur D., assignor.)						
Sanford, Charles H., Dadeville, Ala. Fertilizer-distributor .....	699,247	May 6	207	49	99	1216

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Sanford, Lewis H. (See Weaver and Sanford.)						
Sanford Mills. (See Knowlton, John D., assignor.)						
Sanford, William W., East Orange, assignor of one-half to F. D. Bennett, Freehold, N. J. Fountain-pen	691,974	Jan. 28	9039	683	98	683
Sanford, William W., East Orange, assignor of one-half to F. D. Bennett, Freehold, N. J. Stylographic pen	698,859	Apr. 29	4716	1039	99	1069
Sanford, William W., Newark, assignor of one-half to F. D. Bennett, Freehold, N. J. Fountain-pen	703,479	July 1	185	44	100	39
Sanger, Otto C., Blue Earth City, Minn. Toy	698,324	Apr. 23	3619	790	99	815
Sangster, Charles T. B., Birmingham, England. Motor-vehicle	705,304	July 22	3769	819	100	812
Sanitary Coupling Company. (See Day, Isaac W., assignor.)						
Sanitary Coupling Company. (See Smith and Meade, assignors.)						
Sanitary Coupling Company. (See Underhill, George E., assignor.)						
Saniter, Francis L., Seaton-Carew, and J. L. Smith, Eaglescliffe, England. Open-hearth steel-furnace	703,309	June 24	3725	858	99	2925
Sanker, Leonard J., and J. H. Sullivan, Cleveland, Ohio. Tube for grain-drills	709,649	Sept. 23	3189	712	100	2083
Sankey, Eben B. (See Hight, Albert W., assignor.)						
Sanson, Louis H. M., Dieppe, France. Carburetor for explosive-engines	694,110	Feb. 25	3613	799	98	1603
Sansone, Antonio, J. C., and F. Keokuk, Iowa. Adjustable measure	713,688	Nov. 18	2379	530	101	1416
Sansone, Charles. (See Sansone, Antonio, J. C., and F.)						
Sansone, Frank. (See Sansone, Antonio, J. C., and F.)						
Sansone, John. (See Sansone, Antonio, J. C., and F.)						
Sansone, Joseph. (See Black, Alonzo C., assignor.)						
Santers, George H. (See Wagner and Santers.)						
Sarazin, Frank C. (See Kelly and Sarazin.)						
Sarfert, Alexander T., Chemnitz, Germany, assignor to D. Gessner, Worcester, Mass. Machine	707,725	Aug. 26	3315	742	100	1850
Sargeant, Thomas C., Northampton, England. Fertilizer, seed, and grain distributor	692,715	Feb. 4	882	201	98	979
Sargent, Charles E., assignor of one-half to W. L. Abbott, Chicago, Ill. Steam-turbine	716,765	Dec. 23	4108	901	101	2742
Sargent & Co. (See Sargent, Edward R., assignor.)						
Sargent, Edward R., assignor to Sargent & Co., New Haven, Conn. Casket ornament	691,002	Jan. 14	1203	272	98	266
Sargent, Frederick, Chicago, Ill. Condenser	697,666	Apr. 15	2394	532	99	537
Sargent, Frederick, Chicago, Ill. Furnace	700,831	May 27	3374	775	99	1920
Sargent, Frederick G., Granitville, Mass. Wool-cleaning machine	695,652	Mar. 18	2473	561	98	2265
Sargent, Harvey, Corvallis, Oreg. Animal-trap	713,502	Nov. 11	2032	456	101	1331
Sargent, Howard R., Schenectady, N. Y., assignor to General Electric Company. Fuse-box	696,497	Apr. 1	181	44	99	43
Sargent, Howard R., Schenectady, N. Y., assignor to General Electric Company. Switch-board-socket	712,600	Nov. 4	265	64	101	953
Sargent, Howard R., Schenectady, N. Y., assignor to General Electric Company. Fuse-carrier	713,503	Nov. 11	2034	456	101	1331
Sargent, Howard R., Schenectady, N. Y., assignor to General Electric Company. Lighting-arrester	717,285	Dec. 30	5236	1137	101	3907
Sargent, James F., Jr., assignor of one-half to O. R. Chaffee, Grand Rapids, Mich. Hose-pliers	699,349	May 6	417	95	99	1259
Sargent, James F., Jr., assignor of one-half to H. K. Dean, Grand Rapids, Mich. Hose-coupling	714,243	Nov. 25	3483	766	101	1668
Sargent, James F., Jr., assignor of one-half to H. K. Dean, Grand Rapids, Mich. Washboard	694,669	Mar. 4	638	140	98	1847
Sargent, William D., Chicago, Ill., assignor to American Brake Shoe & Foundry Company, Jersey City, N. J. Flange brake-shoe	711,740	Oct. 21	2587	598	101	570
Sargent, William D., Chicago, Ill., assignor to American Brake Shoe & Foundry Company, Jersey City, N. J. Brake-shoe	713,689	Nov. 18	2379	530	101	1416
Sargent, William H., Cambridge, Mass. Filter	705,447	July 22	4096	883	100	874
Sargent, Willis H. (See Taylor and Sargent.)						
Sarr, Leon, Carlon, Ohio. Jar-cover-repairing tool	704,217	July 8	1594	345	100	334
Sartain, Louis M., assignor of two-thirds to L. J. Cox and L. A. Robertson, Tracy City, Tenn. Attachment for chairs, cradles, &c.	694,426	Mar. 4	176	38	98	1750
Sasse, William, Chicago, Ill. Air-feeding device	711,681	Oct. 21	2472	543	101	545
Saterbakken, Ole, Dunn, Tenn. Rein-holder	701,399	June 3	205	45	99	2150
Sattelberg, William H., Washington, assignor of one-half to A. J. Smith, Pittsburg, Pa. Adjustable window-shade bracket	710,215	Sept. 30	4317	970	100	2932
Satterfield, William S., Bellaire, Ohio. Wainscoting or the like	715,156	Dec. 2	970	210	101	2035
Sattley Manufacturing Company. (See Heineke, Martin, assignor.)						
Sattley Manufacturing Company. (See Weaver, Ira A., assignor.)						
Sauer, Albert, Warsaw, Russia, assignor to Deutsche Continental Gas Gesellschaft, Dessau, Germany. Obtaining Prussian blue	712,726	Nov. 4	431	101	998	
Sauer, Emil L., Chicago, Ill. Steam-engine valve	701,626	June 3	636	139	99	2242
Sauer, Theodor B., Ober-Reifenberg, Germany. Holdfast	694,996	Mar. 11	1268	277	98	1998
Sauerstoff Fabrik Berlin, G. M. B. H. (See Giesberg, Erich, assignor.)						
Saulles, Arthur B. de. (See Conyers and Saulles.)						
Saun, David F., New York, N. Y., assignor to New York Stone, Brick & Terra-Cotta Renovating Company, of New York. Building renovating apparatus	708,922	Sept. 9	1711	395	100	2345
Saum, George N., and M. Mercatoris, Chicago, Ill. Air-brake-testing apparatus	702,679	June 17	2551	586	99	2671
Saunders, Addison T., assignor of one-half to F. A. Seiberling, Akron, Ohio. Golf-ball	707,263	Aug. 19	2403	539	100	1644
Saunders, Alfred G., Adelaide, South Australia, Australia. Making mineral absorbent preparations	710,521	Oct. 7	249	101	50	
Saunders, Henry B., New Rochelle, N. Y. Musical clock	691,875	Jan. 23	2857	643	98	647
Saunders, Lewis H., Colby, Kans. Calf-weaner	707,620	Aug. 12	1945	435	100	1530
Saunier, Ermans E., Paris, France. Manufacture of lace representing mosaic work	699,019	Apr. 29	4984	1103	99	1124
Sauntry, William, Stillwater, Minn. Lumber loading or unloading device	707,162	Aug. 19	2223	498	100	1604
Saurman, Thomas M., Norristown, Pa. Pipe	702,249	June 10	1736	392	99	2482
Sausser, Jacob M. (See Sausser, William M. and J. M.)						
Sausser, William M. and J. M., Schuylkill Haven, Pa. Visual-protector	709,048	Sept. 16	1990	454	100	2418
Sauter, Josef A., Buffalo, N. Y. Adjustable holder for printing-films	690,619	Jan. 7	483	104	98	103
Sautter, Gaston. (See Rateau and Sautter.)						
Sauvage Duplex Air Brake Company. (See Mallinckrodt, John F., assignor.)						
Sauvage Duplex Air Brake Company. (See Sauvage, William H., assignor.)						
Sauvage, William H., assignor of one-half to C. A. Tripp, Denver, Colo. Automatic means for regulating brake-shoes	693,806	Feb. 18	3004	664	98	1463
Sauvage, William H., Denver, Colo., assignor to C. A. Tripp, Salt Lake City, Utah. Slack-adjuster	704,970	July 15	3061	653	100	654
Sauvage, William H., Denver, assignor of one-half to A. V. Tabor, Creede, Colo. Railway electric signal and safety apparatus	698,143	Apr. 22	3297	722	99	746



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Sauvage, William H., assignor to Sauvage Duplex Air Brake Company, Denver, Colo. Air-brake mechanism	703,480	July 1	186	44	100	39
Sauvage, William H., assignor of one-fifth to R. McKnight, Denver, Colo. Automatic safety-lock for air-brake systems	710,522	Oct. 7	250	56	101	50
Sauvage, William H., assignor of three-twentieths to F. B. Stevenson and R. McKnight, Denver, Colo. Fluid-brake mechanism	717,286	Dec. 30	5239	1138	101	3008
Savage, Edward S., New York, N. Y. Fluid-pressure engine	712,601	Nov. 4	267	64	101	953
Savage, Ernest L., Lancaster, N. H. Beating engine	710,014	Sept. 30	3921	885	100	2847
Savage, Giles C., Nashville, Tenn. Water heating and distributing system	713,504	Nov. 11	2035	456	101	1391
Savage, Joseph, Kingsley Falls, Canada. Turbine water-wheel of the parallel-flute type	713,158	Nov. 11	1310	296	101	1183
Savage, Thomas A., Carrollton, Mo., assignor to M. S. Evans, J. W. Weaver, Media, Ill. D. Arthaud, Burlington, Iowa, C. W. Layman, Lomax, and A. Mueller, Dallas, Ill. Car-coupling	698,413	Apr. 22	3770	832	99	847
Savell, William B., Newark, N. J. Type-writer or analogous key cap	705,709	July 29	4633	1004	100	997
Savery, Thomas H., Wilmington, Del. Paper-making machine	694,427	Mar. 4	177	39	98	1750
Savery, Thomas H., Wilmington, Del. Air-exhaust for revolving steam drying or heating cylinders	705,905	July 22	3775	819	100	819
Savlan, Max M., Petoskey, Mich. Lace-rack	694,428	Mar. 4	181	39	98	1751
Savoie, Emile, Paris, France. Lacing device	704,381	July 8	1900	411	100	401
Sawhill, James T., et al. (See Lippy, David, assignor.)	691,003	Jan. 14	1204	272	98	267
Sawin, George H., Worcester, Mass. Combined door stop and lock						
Sawrie, Lee E., et al. (See Anderson, Albert, assignor.)						
Sawtelle, Elmer P., assignor of one-half to C. E. Getchell, Boston, Mass. Non-refillable bottle	715,877	Dec. 16	2373	526	101	2962
Sawyer, George M., Schroon Lake, N. Y. Watch-winding device	706,204	Aug. 5	392	83	100	1197
Sawyer, George W., Marietta, Ind. Ter. Hot-air apparatus for the human body	709,03	Sept. 30	3758	849	100	2812
Sawyer, Gerard W., El Reno, Okla. Ter. Book-support or copy-holder	707,979	Aug. 26	3849	864	100	1954
Sawyer, Harry, Muskegon, Mich. Gearing for washing-machines	711,534	Oct. 21	2199	478	101	487
Sawyer, Harry, Muskegon, Mich. Load-brake mechanism for hoisting or other machines	715,424	Dec. 9	1470	317	101	2155
Sawyer, Henry G., Carpentersville, Ill. Sheet-metal shovel-clip	714,403	Nov. 25	3777	834	101	1727
Sawyer, Howard D., Revere, Mass. Tilting water-grate	701,946	June 10	1185	270	99	2372
Sawyer, John R., Arroyoseco, N. Mex. Ter. Amalgamator	694,301	Feb. 25	3791	838	98	1638
Sawyer, Norton A., Lowestoft, England. Hand-propelled chair	692,136	Jan. 28	3153	712	98	704
Sawyer, Sophia H. (See Wetherell, Mary E., assignor.)						
Sawyer Spindle Company. (See Kilburn, John, assignor.)						
Sawyer Spindle Company. (See Lovejoy, Charles E., assignor.)						
Saxby, Frederick W., Liverpool, England. Focusing attachment for cameras	699,767	May 13	1243	287	99	1441
Saxe, Sigmond, New York, N. Y. Plumping and tanning process	695,765	Mar. 18	2355	589	98	2301
Saxon, Frank, Worthington, Minn. Cog-wheel	702,747	June 17	2674	615	99	2696
Saxon, Louis, New York, N. Y., assignor to General Electric Company. Means for transmitting synchronous motion to distant points	701,947	June 10	1186	270	99	2372
Saxton, Lionel D., Philadelphia, Pa. Tire	698,860	Apr. 29	4718	1039	99	1069
Saxton, Thomas G., assignor to J. R. Barr, Lexington, Ky. Packing device for pistons-rods	691,813	Jan. 28	2756	621	98	625
Sayer, Robert C., Bristol, England. Fluid-pressure engine	702,488	June 17	2197	500	99	2508
Sayer, Robert C., Bristol, England. Rotary motor	706,116	Aug. 5	209	43, 44	100	1159
Saylor, Charles, Cody, Wyo. Clover-hulling attachment for grain threshers and separators	696,498	Apr. 1	183	44, 45	99	43
Saylor, Franklin G., Franklin, assignor to W. E. Andrew, Boston, Mass. Boot or shoe heel	690,768	May 13	1235	287	99	1441
Saylor, Franklin G., Franklin, assignor of one-half to G. H. Morrill, Jr., Norwood, Mass. Vehicle tire and rim	714,333	Nov. 25	3785	805	101	1701
Saylor, George, Mattawana, Pa. Grate	691,004	Jan. 14	1205	273	98	267
Sayre & Co., L. A. (See Cottrell, Herbert, assignor.)						
Sayre, James W., Seneca, Mo. Four-horse everer	707,946	Aug. 26	3789	851	100	1943
Scate, Charles, Burns, Wis. Hay and stock rack	705,448	July 22	4067	883	100	878
Scaife, James V. (See Clarke, William C., assignor.)						
Scamman, Charles F., deceased, Portland, Me.; T. L. Scamman, administratrix. Machine for forming and drying toothpicks	709,049	Sept. 16	1991	454	100	2418
Scamman, Charles F., deceased, Portland, Me.; T. L. Scamman, administratrix. Machine for drying toothpicks	709,050	Sept. 16	1992	455	100	2419
Scamman, Thalia L., administratrix. (See Scamman, Charles F.)						
Scaulan, Sam G., Chicago, Ill. Sterilizer	699,717	May 13	1129	264	99	1420
Scaulin, Patrick, Boone, Iowa. Railway bumping-post	704,275	July 8	1699	370, 371	100	357
Scannell, Joseph C., assignor, by mesne assignments, to S. Scannell, Boston, Mass. Sinew-extractor	706,853	Aug. 12	1657	370	100	1473
Scannell, Sadie. (See Scannell, Joseph C., assignor.)						
Scantlebury, William, Sr., assignor of two-thirds to R. B. Rives, Washington, D. C., and J. J. Rives, Baltimore, Md. Engine	691,005	Jan. 14	1206	273	98	267
Scantlin, Emma E. (See Leftwich, Andrew B., assignor.)						
Scarborough, William W. (See Johnson and Scarborough.)						
Scarritt, Charles W., Belton, Mo., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Card-index file. (Reissue)	12,048	Oct. 28	3982	870	101	873
Scarritt-Comstock Furniture Company. (See Taylor, Calvin C., assignor.)						
Scarritt, Sanford G. (See Forney, Matthias N., assignor.)						
Scattergood, Henry W. (See Taluan, Julius, assignor.)						
Scattergood, Henry W. (See Taluan and Scattergood.)						
Scattergood, Henry W., Philadelphia, Pa. Sponges or mullage holder	698,325	Apr. 22	3620	799	99	815
Scattergood, Henry W., Philadelphia, Pa. Framing glass or other materials	709,513	Sept. 23	2962	661	100	2637
Seets, George N., assignor of one-half to G. A. Woodman, Chicago, Ill. Journal-bearing	705,871	July 29	4916	1068	100	1053
Seets, George N., Chicago, Ill., assignor of fifty-one one-hundredths to A. J. Weil, New York, N. Y. Journal-bearing	714,113	Nov. 18	3196	706	101	1592
Seets, George N., Chicago, Ill., assignor of fifty-one one-hundredths to A. J. Weil, New York, N. Y. Journal-bearing	714,114	Nov. 18	3198	707	101	1592
Schaad, John, Knoxville, Tenn. Drawer-guide	710,523	Oct. 7	254	56	101	51
Schaaf, Heinrich, Neustadt-on-the-Hardt, assignor to R. Dietrich, Merseburg-on-the-Saale, Germany. Paper-pulp-discharge valve	691,975	Jan. 28	3040	684	98	688
Schaaff, John T., Washington D. C. Writing-machine carriage	702,879	June 10	1967	1449	99	2529
Schaal, Eugen and M., Feuerbach, Germany. Hardening rosin	698,741	Apr. 29	4451		99	1008
Schaal, George A. (See Ahlers and Schaal.)						
Schaal, Max. (See Schaal, Eugen and M.)						
Schad, Frank X. (See Nichols and Schad.)						
Schaefer, Adam and F., Williamsport, Pa. Folding umbrella	707,451	Aug. 19	2757	625	100	1718

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Schaefer, Carl, Bangalore, assignor to K. North-Row, Bangalore, Mysore, India. Sewing-machine-needle threader	698,414	Apr. 22	3772	882 883	99	847
Schaefer, Charles G., Jr., et al. (See Troxler, Laurence E., assignor.)						
Schaefer, Conrad, Canton, Ohio. Nut-lock for vehicle-axles	699,020	Apr. 29	4985	1103	99	1124
Schaefer, Edward. (See Yearwood, Bird O., assignor.)						
Schaefer, Frederick. (See Schaefer, Adam and F.)						
Schaefer, O. H., et al. (See Troxler, Laurence E., assignor.)						
Schaefer, Wilhelm, Hamburg, Germany. Bunsen or like burner	715,300	Dec. 9	1251	266	101	2112
Schaefer, William C., Menomonee, Wis., assignor to Coffin's Box & Lumber Co. Basket-making machine	716,582	Dec. 23	3787	823	101	2673
Schaeffer, Arthur, Berlin, Germany. Fastening device for brooches, safety-pins, or the like	712,727	Nov. 4	482	114	101	998
Schaeffer, Walter F., Schoharie, N. Y. Thill-coupling	697,667	Apr. 15	2398	533	99	538
Schaefer, Caesar, Superior, Nebr. Match-box	691,183	Jan. 14	1519	342	98	382
Schaefer, Caesar, Superior, Nebr. Boat	702,823	June 17	2816	648	99	2727
Schaefer, Frank, Philadelphia, Pa. Means for filling and closing match-boxes	712,419	Oct. 28	3868	848 849 851 793 794 795 796 797 798	101	852
Schaefer, Frank, assignor to E. H. Fairbanks, Philadelphia, Pa. Match-making machine.	703,154	June 24	3460	795 796 797 798	99	2872
Schaefer, Frederick W. L., Los Banos, Cal. Butt-hinge	691,077	Jan. 14	1337	302	98	293
Schaefer, John C. F., Mount Pulaski, Ill. Magazine plate-holder for cameras	701,400	June 3	206	15, 46	99	2150
Schäfer, Wilhelm, Eifeln, near Uelde, Germany. Feed apparatus for threshing-machines	711,647	Oct. 21	2397	537	101	528
Schaffer, Augustus H., Ontonagon, Mich. Harrow-tooth	690,776	Jan. 7	789	175	98	165
Schaffer, Jakob, New York, N. Y. Medicine-carrier	692,166	Jan. 28	3879	765	98	751
Schaffer, Jakob, New York, N. Y. Bucket-handle	713,505	Nov. 11	2039	457	101	1332
Schaffer, Morse B., St. Louis, Mo., assignor to D. Eagan, Philadelphia, Pa. Body-boiler for railway-cars	693,160	Feb. 11	1773	389	98	1187
Schaffer, Morse B., and C. H. Howard, St. Louis, Mo. Car-wheel bearing	696,085	Mar. 25	3263	737	98	2440
Schaffner, Henry L., Florence, Italy. Brake	699,579	May 6	858	200	99	1332
Schaffner, Henry L., Florence, Italy. Brake	715,157	Dec. 2	971	210	101	2035
Schalby, Theobald E. J., Brooklyn, N. Y. Warehouse-truck caster	696,499	Apr. 1	185	45	99	41
Schalberger, Christian, Vancouver, Canada. Wood-preserving compound	714,531	Nov. 25	3983	—	101	1766
Schaller, Otto, East St. Louis, Ill. Ruler attachment	714,404	Nov. 25	3778	834	101	1727
Schaller, Richard. (See Reutlinger and Schaller.)						
Schaller, Wilhelm, New York, N. Y. Ash-cart	707,163	Aug. 19	2224	499	100	1604
Schamber, Meyer. (See Maines, Potter F., assignor.)						
Schambers, Charles H., Warren, Pa. Extension-ladder	703,836	July 1	849	187	100	170
Schamp, George H., Ridgeville, assignor of one-half to E. W. Buck, Portland, Ind. Swivelled valve-pipe union	715,425	Dec. 9	1473	318	101	2156
Schan, John P., Brooklyn, assignor to Parker, Stearns & Sutton, New York, N. Y. Combined cushion, water-bag, and fountain-syringe	698,861	Apr. 29	4719	1039	99	1069
Schanbacher, Orville L., assignor of one-half to H. Gleckler, Eastpoint, Pa. Curtain-fixture	690,881	Jan. 7	908	219	98	203
Schanck, Ephraim L., near Delaware, Ohio. Potato-harvester	715,158	Dec. 2	974	210 211	101	2085
Schanck, Henry I., Holmdel, N. J. Asparagus-buncher	694,997	Mar. 11	1268	277	98	1998
Schancke, William G. (See Emanuel, John, assignor.)						
Schanz, Conrad M., Chelsea, Mich. Neck-yoke fastener	694,232	Feb. 25	3792	—	98	1639
Schanz, William, assignor to Detroit Composite Company, Detroit, Mich. Making ornamental and advertising articles	692,549	Feb. 4	589	—	98	918
Scharbach, Peter J., Pe Ell, Wash. Changeable gear for bicycles	707,359	Aug. 19	2590	585	100	1683
Scharf, Maximilian. (See Knietzsch and Scharf.)						
Scharffe, Adolf, Tientsin, China. Vapor generation	705,306	July 22	3779	830	100	814
Scharnweber, William, assignor of one-half to A. S. Gross, Seattle, Wash. Knob attachment	692,550	Feb. 4	589	138	98	918
Scharnweber, William, assignor of one-half to R. Fleming, Seattle, Wash. Sash-lock	698,744	Apr. 29	4452	983	99	1008
Scharpf, Herman C., et al. (See Kenney, Thomas F., assignor.)						
Scharrer, Edmund, Cannstadt, Germany. Loading-beam	399,021	Apr. 29	4986	1103	99	1124
Scharr, Adam E. (See Moberg, Carl J., assignor.)						
Schaub, Adolf, Paterson, N. J., assignor to Schaub and Uhlinger. Loom-shuttle.	708,592	Sept. 9	1058	240	100	2206
Schaub, Ferdinand. (See Otto and Schaub.)						
Schaub, George, Lake Beulah, Wis. Wrench	704,532	July 15	2281	495	100	492
Schaub, Henry, assignor to Bryce Brothers Company, Mount Pleasant, Pa. Apparatus for fire-finishing glassware	696,500	Apr. 1	186	45	99	44
Schaub, Henry, assignor to Bryce Brothers Company, Mount Pleasant, Pa. Manufacture of glassware	704,760	July 15	2587	559	100	555
Schaub, Henry, assignor to Bryce Brothers Company, Mount Pleasant, Pa. Apparatus for the manufacture of glassware	704,761	July 15	2588	559	100	555
Schaum, Otto W., Philadelphia, Pa. Self-oiling bearing	712,602	Nov. 4	271	65	101	955
Schaum and Uhlinger. (See Schaub, Adolf, assignor.)						
Schaumloeffel, Allan M. (See Schaumloeffel, Eleanor E. and A. M.)						
Schaumloeffel, Eleanor E. and A. M., Kansas City, Mo. Cake-pan	692,919	Feb. 11	1284	282	98	1091
Schauroth, Udo V. (See Rounds, Albert C., assignor.)						
Schebler, George M., Indianapolis, Ind. Carburetor	711,005	Oct. 14	1146	253	101	251
Scheck, Bertha. (See Torley, Heinrich, assignor.)						
Schedlbauer, Michael E., Jr. (See Wall and Schedlbauer.)						
Scheeffer, Gustave A., assignor to Diamond Meter Company, Peoria, Ill. Electric meter	699,899	May 13	1508	346 347	99	1501
Scheel, Michael J. (See Mosher, Scheel, and Marting.)						
Scheele, Walter T., Catonsville, assignor of two-thirds to H. Knollenberg and W. F. Asau, Baltimore, Md. Soup material and making same	707,646	Aug. 26	3155	—	100	1817
Scheer, Herman F., et al. (See Gibson, Levi D., assignor.)						
Scheibe, Oscar A. (See Phillips, Elwood C., assignor.)						
Scheiber, Eugen, and E. Kravayser, Vienna, Austria-Hungary. Siphon-bottle	710,305	Sept. 30	4467	1007	100	2964
Scheid, Theodore G. (See Klay and Scheid.)						
Scheidt, William. (See Luschka, August R., assignor.)						
Scheidt, William, Chicago, Ill. Induction apparatus	702,032	June 10	1346	307	99	2402
Scheidt, William, Chicago, Ill. Current-interrupter	716,583	Dec. 23	3790	824	101	2674
Scheideman, John, Washington, D. C. Ammonia-purifier for refrigerating plants	704,882	July 8	1901	411	100	401



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Scheideman, John, Washington, D. C. Purifying refrigerants in circulation in refrigerating plants	704,389	July 8	1902	411	100	402
Scheier, Georg, Dumont, N. J. Toy animal	695,653	Mar. 16	2476	562	98	2266
Scheinsky, Solomon, New York, N. Y. Supplemental waistband for pants	691,006	Jan. 14	1210	274	98	328
Schell, Charles F., Buffalo, N. Y. Advertising device	699,718	May 13	1132	265	99	1420
Schell, James D., Evanston, Ill. Bottle-capping machine	708,093	Sept. 2	154	37	100	2013
Schell, Otto, New Ulm, Minn. Attachment for beer-coolers	703,481	July 1	189	45	100	40
Schell, Wilhelm, Jr., Offenbach, Germany. Illuminated advertising apparatus	715,150	Dec. 2	975	211	101	2036
Schellenbach, George W., Joplin, Mo. Railway-tie	717,287	Dec. 30	5242	1188	101	3069
Schellinger, Isaac M. (See Baldwin and Schellinger)						
Scheltenbach, Theodore, assignor of one-half to S. Setzer Paterson, N. J. Shuttle-check	708,923	Sept. 9	1713	395	100	2345
Schemmel, Robert C., Union City, Ind. Backstay for carriage-tops	704,384	July 8	1903	412	100	402
Schenck, Unico H. W., assignor of one-half to H. W. Hedge, New York, N. Y. Game apparatus	715,515	Dec. 9	1635	354	101	2187
Schenk, Carl L. E., Walkers Mills, assignor of one-half to Tate, Jones & Company, Incorporated, Pittsburg, Pa. Downhaul for mines	699,022	Apr. 29	4987	1103	99	1124
Schenk, Carl L. E., Walkers Mills, assignor of one-half to Tate, Jones & Company, Incorporated, Pittsburg, Pa. Downhaul for mines	699,023	Apr. 29	4989	1104	99	1124
Schenk, Carl L. E., Walkers Mills, assignor of one-half to Tate, Jones & Company, Incorporated, Pittsburg, Pa. Brake for uphauls for mines	699,024	Apr. 29	4989	1104	99	1124
Schenk, Frederick J., Monticello, Ill. Harness	692,716	Feb. 4	883	202	98	980
Schenk, Henry H., Memphis, Mo. Vehicle-wheel	703,003	June 24	3172	731	99	2816
Schenk, Henry H., Memphis, Mo. Tank-heater	703,067	June 24	3343	768	99	2849
Schenker, Francis. (See Williams, James F., assignor.)						
Schenker, Frank, S., and E. Aubry, Vincennes, Ind. Clasp	715,611	Dec. 9	1819	403	101	2234
Schepke, Herman, Chicago, Ill. Apparatus for dispensing beverages	691,203	Jan. 14	1730	394	98	376
Scherer, Albert G., Chicago, Ill. Sheet-metal stovepipe	696,066	Mar. 25	3264	738	98	2441
Scherer, Albert G., Chicago, Ill. Adjustable pipe-elbow and fastening means therefor	704,396	July 15	2985	639	100	640
Scherer, Ida M., Philadelphia, Pa. Gas-range utensil for toasting bread, &c	702,489	June 17	2198	500	99	2598
Scherhag, Franz, Vienna, Austria-Hungary. Making primings (coatings) for transparencies or the like	712,728	Nov. 4	482		101	998
Schermerhorn, John, New York, N. Y. Invalid's chair	695,496	Mar. 18	2160	488	98	2201
Schermerhorn, Alexander M. V., et al. (See Seiler, Philipp, assignor.)						
Schermerhorn, Augustus T., Newhope, Pa. Rubber boot or shoe	712,437	Oct. 28	3920	858	101	860
Schermerhorn, Franklyn B., and G. E. Moffett, Jarilla, N. Mex. Ter. Rotary fan-blower	705,307	July 22	3781	820	100	814
Schermerhorn, George L. (See Priest and Schermerhorn.)						
Schertiger, William, Aalborg, Denmark. Spinning-machine for chewing-tobacco	708,172	Sept. 2	325	77.78	100	2047
Scheuer, Max, New York, N. Y. Combination pocket-book	693,449	Feb. 18	2339	511	98	1326
Scheuer & Sohn, S. (See Geisenheimer, William, assignor.)						
Scheuffgen, Robert, Salzkotten, Germany. Apparatus for preventing explosions in vessels containing explosive fluids	695,297	Mar. 11	1722	381	98	2092
Schichtl, Martin, North Yakima, Wash. Reversible rotary harrow and cultivator	694,429	Mar. 4	182	39.40	98	1751
Schick, Frank, St. Louis, Mo. Spectacle-frame	710,015	Sept. 30	3622	885	100	2847
Schick, Frank, St. Louis, Mo. Spectacles	714,522	Nov. 25	3984	892	101	1766
Schick, Fred, Brooklyn, N. Y. Gas-regulator	691,185	Jan. 14	1522	343	98	332
Schickler, Heinrich, Wilmersdorf, near Berlin, Germany. Coloring-tool	691,184	Jan. 14	1520	343	98	332
Schiedel, Friedrich A. M., Frankfurt-on-the-Main, Germany. Magnetic separator	691,007	Jan. 14	1211	274	98	398
Schieding, Albert C., Grand Rapids, Mich. Bedstead-table	717,031	Dec. 30	4748	1029	101	2903
Schieffelin and Company. (See Whyte, Robert M., assignor.)						
Schiegner, Hermann. (See Riedel and Schiegner.)						
Schick, George H., Joliet, Ill. Detachable spring-hinge	694,670	Mar. 4	639	140	98	1848
Schiele, Anna M., Philadelphia, Pa. Kitchen-rack	694,703	Mar. 4	889	197	98	1940
Schiele, Anna M., Philadelphia, Pa. Kettle or pot scraper	717,456	Dec. 30	5337	1203	101	3069
Schielke, Carl. (See Lambrecht and Schielke.)						
Schier, Adolph. (See Schier, Joseph J. and A.)						
Schier, Joseph J. and A., Milwaukee, Wis. Packing-gasket	697,546	Apr. 15	2170	481	99	492
Schier, Joseph J. and A., Milwaukee, Wis. Packing-gasket. (Reissue.)	12,066	Dec. 23	4388	951	101	2810
Schies, John, Anderson, Ind., assignor of one-half to F. R. Myers, St. Louis, Mo. Bottle-closure	693,161	Feb. 11	1774	389	98	1187
Schietkiewics, Nicolas, St. Petersburg, Russia. Preparing foundations	695,853	Mar. 18	2349	533	98	2240
Schiff, Abraham, Mosyr, Russia. Drying apparatus	712,007	Oct. 28	3137	686	101	700
Schiffer, Alfred, et al. (See Parsons, Francis F., assignor.)						
Schiffer, Herman, et al. (See Parsons, Francis F., assignor.)						
Schind, Edward H., Baltimore, Md. Eyeglasses	709,824	Sept. 23	3529	735	100	2753
Schiller, Heinrich, New York, Germany. Centrifugalizing apparatus for sizing wood-pulp or similar materials for the manufacture of paper	690,777	Jan. 7	790	175	98	167
Schiller, Karl, Zitzkow, Austria-Hungary. Automobile car	691,078	Jan. 14	1337	302	98	294
Schilling, Charles A. (See Bearer, Albert J., assignor.)						
Schilling, Charles B., Chicago, Ill. Sheet-metal window frame and sash	709,514	Sept. 23	2965	661	100	2637
Schilling, Charles B., Chicago, Ill. Window frame and sash	716,286	Dec. 16	3170	1694	101	2528
Schilling, William E., Laporte, Ind., and O. M. Ridgway, Kansas City, Mo. Device for operating street-railway switches	691,008	Jan. 14	1214	274	98	268
Schilz, Eugen, Johannesburg, South African Republic. Cyanid process of extracting precious metals from their ores	696,274	Mar. 25	3658		98	2522
Schilz, Frank, assignor to H. Loewenbach, Milwaukee, Wis. Toilet-paper package	691,294	Jan. 14	1732	394	98	376
Schilz, Frank, assignor to H. Loewenbach, Milwaukee, Wis. Paper-feeding machine	691,381	Mar. 25	3906	866	98	2571
Schilz, Frank, assignor to H. Loewenbach, Milwaukee, Wis. Paper-feeding device	716,465	Dec. 23	3579	782	101	2639
Schindler, Charles A., Jr., West Hoboken, N. J. Horizontal swing	691,404	Jan. 21	2138	479	98	480
Schindler, Charles W., and J. Freeman, New Albany, Ind. Hydraulic motor	704,589	July 15	2282	496	100	492
Schinkel, Max, Philadelphia, Pa. Game-board	705,873	July 29	4923	1070	100	1056
Schinneller, Jacob, Brooklyn, Pa. Cash-register	713,159	Nov. 11	1312	1297	101	1183
Schippers, Frank, Brooklyn, assignor to American Bell and Chime Company, New York, N. Y. Key-plate for use in the manufacture of tune plates or cylinders	716,287	Dec. 16	3172	605	101	2529
Schirm, Max, Dusseldorf, Germany. Ornamenting wood by fire	695,417	Mar. 11	2028	455	98	2156
Schirmacher, Karl, Soden, assignor to Farbwerke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Disazo wool-dye and making same	693,670	Feb. 18	2762		98	1413
Schirmer, Baldwin F., Indianapolis, Ind. Pasteurizing apparatus	708,738	Sept. 9	1334	304	100	2264
Schirmer, Gustav, Chicago, Ill. Fountain-syringe holder	692,920	Feb. 11	1285	282	98	1091
Schirmer, Gustav, Chicago, Ill. Measuring instrument for liquids	711,128	Oct. 14	1390	302	101	303
Schirmer, Theodor F., assignor to Egly Autographic Register Company, Dayton, Ohio. Autographic register	690,465	Jan. 7	151	32	98	34
Schirp, Paul, Barmen, Germany. Apparatus for dyeing, &c.	700,882	May 27	3377	775	99	1921

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Schisgal, David, Vernon, France. Suturing instrument.....	715,426	Dec. 9	1475	318	101	2157
Schlachter, Philipp, Sr., and A. W. Allen, assignors of one-third to P. Schlachter, Jr., Streator, Ill. Drawing board and appliances.....	707,165	Aug. 19	2226	500	100	1605
Schlachter, Philipp, Jr. (See Schlachter and Allen, assignors.).....						
Schlachter, Robert H., Clay Center, Nebr. Furrow-opener for disk grain-drills.....	702,598	June 17	2403	549	99	2639
Schlachter, Robert H., assignor to Clay Center Manufacturing Company, Clay Center, Nebr. Feed-regulating device for grain-drills.....	692,717	Feb. 4	884	202	98	980
Schacks, Joseph T., Helper, Utah. Key connection.....	705,792	July 29	4777	1087	100	1027
Schlaepfer, Edouard, Lausanne, Switzerland. Self-closing valve.....	711,849	Oct. 14	1840	400	101	398
Schladfy, Julius H., assignor to Berger Manufacturing Company, Canton, Ohio. Machine for tapering the ends of corrugated pipes.....	707,648	Aug. 26	3163	711	100	1818
Schlangen Co. (See Schlangen, Simon, assignor.).....						
Schlangen, Simon, Chicago, Ill., assignor, by mesne assignments, to Schlangen Co. Hung.....	693,314	Feb. 11	2066	452	98	1249
Schlegel, Ernst, Cologne, Germany. Rail.....	712,337	Oct. 28	3718	813	101	817
Schlehr, Joseph A., Frazee, Minn. Steam-boiler.....	708,407	Sept. 2	735	165	100	2130
Schleicher, Erhart. (See Schraube, Schleicher, and Bucherer.).....						
Schleicher, Frank J., assignor to St. Louis Paper Box Company, St. Louis, Mo. Paper box.....	697,668	Apr. 15	2400	533	99	539
Schleicher, Charles, Heinsberg, Germany. Machine for making baskets.....	693,911	Feb. 25	3228	711	98	1526
Schleicher, William A., Cleveland, Ohio. Snap-hook.....	690,185	Jan. 14	1521	343	98	332
Schlenker, Jakob, Schweinigen, Germany. Watchman's time-detector.....	698,862	Apr. 29	4729	1040	99	1070
Schlenker, Leon M. (See Donovan, Michael J., assignor.).....						
Schleppay, Fred A., Lattimer Mines, Pa. Horseshoe.....	710,618	Oct. 7	431	90	101	86
Schlesinger, Louis. (See Merritt, George M., assignor.).....						
Schlesinger, Louis, and G. W. Young, Milwaukee, Wis.; said Young assignor to said Schlesinger. Spacing mechanism for type-writing machines.....	714,523	Nov. 25	3955	883 884	101	1766
Schlesinger, Max L. (See Anderson, Alfred B., assignor.).....						
Schleuning, Wilhelm, <i>et al.</i> (See Friz, Otto, assignor.).....						
Schley, Frederick. (See Craw and Schley.).....						
Schlichter, Heinrich C., Singen, Germany. Water filtering or cleaning plant.....	717,032	Dec. 30	4749	1029	101	2902
Schlick, Ernst R., Chicago, Ill. Ice-cream freezer.....	692,551	Feb. 4	590	138	98	918
Schlie, William, Chicago, Ill. Trap-nest.....	700,245	May 20	2215	506	99	1664
Schliesser, Charles R., Elliott, assignor of one-half to E. E. Erikson, Pittsburg, Pa. Fastening device.....	695,628	Mar. 18	2435	550	98	2257
Schlinsock, Gustav A. (See Mangold and Schlinsock.).....						
Schloetzer, Hans A., <i>et al.</i> (See Lutz, William F. J., assignor.).....						
Schlomann, Henry W., deceased, New York, N. Y.; M. Schlomann, executrix. Mechanism for utilizing the power of engines or motors.....	697,175	Apr. 8	1487	332 333	99	336
Schlomann, Minna, executrix. (See Schlomann, Henry W.).....						
Schluenbach, Adolph von, Martinsburg, Va. Crate machines.....	694,794	Mar. 4	890	197	98	1900
Schlumberger, Gustav R., Allegheny, Pa. Steering device for automobiles.....	709,684	Sept. 23	3253	729	100	2696
Schluter, August, Jr., New York, N. Y. Hanging and fastening device.....	697,278	Apr. 8	1671	373	99	375
Schluter, William, Applington, Iowa. Draft-equalizer.....	698,059	Apr. 22	3113	684 685	99	710
Schmelz, Richard W., Brooklyn, assignor of one-half to W. V. Geis, New York, N. Y. Garter.....	706,855	Aug. 12	1659	371	100	1474
Schmelz, Richard W., Brooklyn, assignor of one-half to W. V. Geis, New York, N. Y. Shade-holder for incandescent electric lamps.....	706,856	Aug. 12	1660	371	100	1474
Schmelz, Richard W., Brooklyn, assignor of one-half to W. V. Geis, New York, N. Y. Shade-holder for incandescent electric lamps.....	708,739	Sept. 9	1336	305	100	2265
Schmertz, Bessie K., Pittsburg, Pa. Toaster.....	691,410	Jan. 21	1991	446	98	449
Schmick, Henry J., Hamburg, Pa. Motor.....	712,855	Nov. 4	738	170 171	101	1050
Schmid, Albert, Havre, France. Truck-frame for motor-cars.....	710,809	Oct. 7	801	172	101	164
Schmid, Albert, Havre, France. Driving mechanism of motor-cars.....	716,113	Dec. 16	2842	625	101	2462
Schmid, Ernst. (See Müller and Schmid.).....						
Schmid, Harry W. (See Fischer and Schmid.).....						
Schmid, Oscar, and H. A. Drandt, Columbus, Ohio. Valve-gear.....	698,863	Apr. 29	4721	1040	99	1070
Schmid, Sophie, Chicago, assignor of one-half to E. Ingalls, Oakpark, Ill. Game-board.....	703,971	July 1	1109	239 240	100	220
Schmidner, Georg E., Nuremberg, Germany. File for papers and documents.....	709,559	Sept. 23	3041	677	100	2652
Schmidt, Carl W. L., Holzminden, Germany. Cycle-stand.....	694,030	Feb. 25	3479	766	98	1576
Schmidt, Charles A., <i>et al.</i> (See Goode, George, assignor.).....						
Schmidt, Charles F., assignor of one-half to C. Kleinknecht, Philadelphia, Pa. Washing-machine.....	707,867	Aug. 26	3642	821	100	1913
Schmidt, Charles G., and H. C. Chambers, assignor to Cincinnati Butchers' Supply Co., Cincinnati, Ohio. Meat-chopping machine.....	713,690	Nov. 18	2381	531	101	1416
Schmidt, E. H., <i>et al.</i> (See Diehl, Jacob, assignor.).....						
Schmidt, Ernst H., London, England. Packing or displaying articles.....	693,450	Feb. 18	2340	511 512	98	1327
Schmidt, Georg, Charlottenburg, Germany. Hydraulic boring apparatus.....	704,385	July 8	1904	412	100	402
Schmidt, Godfrey P., Brooklyn, N. Y. Automatic feeding mechanism for stamping-presses or the like.....	705,308	July 12	3783	820 821	100	815
Schmidt, Gustav, Sr., Colmar, Germany. Take-up mechanism for looms.....	709,582	Sept. 23	3081	685 686	100	2661
Schmidt, Herman, Jr., Swanton, Nebr. Apparatus for setting or removing tiles.....	707,264	Aug. 19	2406	539	100	1644
Schmidt, Herman E., Cincinnati, Ohio. Tower for cooling and condensing water.....	693,625	Feb. 18	2679	591 592	98	1396
Schmidt, Herman B., Cincinnati, Ohio, and O. T. Joslin, New York, N. Y. Apparatus for refining glycerin.....	705,712	Sept. 29	4642	1005	100	998
Schmidt, Hermann, Hamburg, Germany. Pneumatically-operated lubricator.....	708,973	July 9	1832	419	100	2366
Schmidt, Hubert, and W. Haensch, Berlin, Germany. Cinematograph.....	691,411	Jan. 21	1992	446 447	98	450
Schmidt, Jean, Frankfurt-on-the-Main, Germany. Photographing.....	716,939	Dec. 30	4557	989	101	2861
Schmidt, Jean, assignor to Society Vertrieb von Schmidt's Electr. Beleuchtungsapparat für Photographie, G. M. B. H., Frankfurt-on-the-Main, Germany. Flashing apparatus for use in taking photographs.....	716,940	Dec. 30	4558	989	101	2861
Schmidt, John B., St. Louis, Mo. Sign.....	702,863	June 17	2891	669	99	2742
Schmidt, John B. (See Leinberger and Schmidt.).....						
Schmidt, John M., Elkhorn, W. Va. Insulating-hanger.....	710,216	Sept. 30	4318	971	100	2932
Schmidt, Joseph, Jr., assignor to J. L. Flannery, Chicago, Ill. Box-stapling machine.....	694,031	Feb. 25	3479	766 767	98	1577
Schmidt, Joseph G., and W. P. Mueller, assignors of one-third to C. P. Herrmann, Milwaukee, Wis. Combined lifting-jack and air-pump.....	708,406	Sept. 2	736	165	100	2130
Schmidt, Julius, Ludlow, Ky. Lubricating-can.....	696,501	Apr. 1	188	46	99	44



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Schmidt, Julius H., Bayonne, N. J., assignor to W. E. Sharps, trustee, Philadelphia, Pa. Cigar-bunching machine.....	705,449	July 22	4069	884 885 886 887	100	874
Schmidt, Karl, Dresden, Germany. Pipe-compensator.....	700,378	May 20	2490	570 571	99	1719
Schmidt, Lambert, Weehawken, N. J. Field-telephone set.....	703,004	June 24	3173	731	99	2816
Schmidt, Max, and E. J. Gebler, Dresden, Germany. Gripping mechanism for printing-presses.....	708,409	Sept. 2	737	166	100	2131
Schmidt, Michael, Philadelphia, Pa. Driving mechanism for bicycles.....	713,350	Nov. 11	1729	389	101	1268
Schmidt, Nicolaus, Milwaukee, Wis. Water-motor.....	697,547	Apr. 15	2170	482	99	492
Schmidt, Nicolaus, Milwaukee, Wis. Water-motor.....	709,279	Sept. 16	2448	553	100	2516
Schmidt, Oscar. (See Krufft, John, assignor.).....						
Schmidt, Oscar. (See Langfelder, Henry, assignor.).....						
Schmidt, Otto, Leutenberg, Germany. Shield for bicycle-handles.....	706,346	Aug. 5	686	150	100	1255
Schmidt-Perrin Manufacturing Company. (See McCullough, James, assignor.).....						
Schmidt, Philipp, Chicago, Ill. Combined mop and brush holding means.....	698,671	Feb. 18	2763	609	98	1413
Schmidt, Philipp, Chicago, Ill. Mop-holder.....	696,759	Apr. 1	688	156	99	147
Schmidt, Rudolph, Kansas City, Mo. Adjustable bottle-rest.....	708,173	Sept. 2	327	78	100	2448
Schmidt Steam Power Parent Co. (See Schmidt and Thomsen, assignors.).....						
Schmidt, Wilhelm, Wilhelmshöhe, near Cassel, Germany. Device for preventing sea-sickness.....	713,806	Nov. 18	2595	578	101	1463
Schmidt, Wilhelm, and P. Thomsen, Wilhelmshöhe, near Cassel, Germany, assignors to Schmidt Steam Power Parent Co., Ltd., London, England. Superheating device in tubular steam-boilers.....	709,482	July 1	190	45	100	40
Schmidt, William. (See Kraemer and Hesse, assignors.).....						
Schmidt, William A., assignor of one-fourth to A. Volkmann, Milwaukee, Wis. Sidewalk covering or protector.....	696,199	Mar. 25	3516	757	98	2492
Schmidt, Wm. H., et al. (See Diehl, Jacob, assignor.).....						
Schmied, Adolf G., assignor of one-eighth to D. von Riesen, Marysville, Kans. Mattress or cushion and heating attachment therefor.....	697,279	Apr. 8	1672	374	99	376
Schmiedeke, Louis, assignor of one-half to J. Gerlach, Theresa, Wis. Postal-car and station appliance.....	708,174	Sept. 2	328	78, 79	100	2448
Schmiermund, John, et al. (See Lyon, William S., assignor.).....						
Schmitt & Co., Henry. (See Rose, Frank, assignor.).....						
Schmitt, Benjamin C. (See Butterfield and Schmitt.).....						
Schmitt, Edward D., Baltimore, Md., assignor, by mesne assignments, to Universal Seal and Stopper Company, Camden, N. J. Bottle-seal. (Reissue).....	12,032	Sept. 16	2819	632	100	2596
Schmitt, Edward D., Baltimore, Md., assignor, by mesne assignments, to Universal Seal and Stopper Company, Camden, N. J. Bottle-seal. (Reissue).....	12,033	Sept. 16	2821	633	100	2596
Schmitt, Edward D., Baltimore, Md., assignor, by mesne assignments, to Universal Seal and Stopper Company, Camden, N. J., and Baltimore, Md. Machine for applying bottle-seals.....	697,280	Apr. 8	1674	374	99	376
Schmitt, Edward D., Baltimore, Md., assignor, by mesne assignments, to Universal Seal and Stopper Company, Camden, N. J., and Baltimore, Md. Machine for applying bottle-seals.....	697,281	Apr. 8	1677	374 375	99	377
Schmitt, Edward D., Baltimore, Md., assignor, by mesne assignments, to Universal Seal and Stopper Company, Baltimore, Md., and Camden, N. J. Machine for applying bottle-seals.....	697,282	Apr. 8	1679	375	99	377
Schmitt, Edward D., Baltimore, Md., assignor, by mesne assignments, to Universal Seal and Stopper Company, Baltimore, Md., and Camden, N. J. Tool for forming bottle-necks.....	706,344	Aug. 5	682	148	100	1254
Schmitt, Frederick E., Greenbay, Wis. Paper-fastening for polishing-cylinders.....	714,244	Nov. 25	3484	766 767	101	1668
Schmitt, Johann R., Oberrad, Germany. Tobacco-conveying device for cigar-bunching machines.....	710,018	Sept. 30	3925	886 887	100	2848
Schmitz, Cornelius, Godesberg, Germany. Apparatus for continuous beer production.....	710,396	Sept. 30	4026	1043 1044	100	2996
Schmitz, Frank. (See Bitner, Harry, assignor.).....						
Schmitz, Frank, Chicago, Ill. Banana-shipping case.....	694,998	Mar. 11	1270	278	98	1999
Schmitz, Frank, Chicago, Ill. Supporting-frame for the construction of open cylindrical crates.....	698,060	Apr. 22	3115	685	99	710
Schmitz, Frank, Chicago, Ill. Banana-shipping case.....	698,061	Apr. 22	3115	685	99	711
Schmitz, Frank, Chicago, Ill. Banana-shipping case.....	710,016	Sept. 30	3923	886	100	2848
Schmitz, Frank, Chicago, Ill. Banana-shipping case.....	710,017	Sept. 30	3924	886	100	2848
Schmitz, Frank, Chicago, Ill. Elastic hub and axle for bicycles, &c.....	711,077	Oct. 14	1309	283	101	285
Schmitz, Frank, Chicago, Ill. Running-gear for vehicles.....	711,592	Oct. 21	2300	501	101	508
Schmitz, Frederick A., et al. (See Blake, John T., assignor.).....						
Schmitz, Joseph, assignor to E. Zaum, Cologne, Germany. Turbine for water-meters.....	693,807	Feb. 18	3005	664	98	1463
Schmitz, Wilhelm, Elberfeld, assignor to Continentale Gesellschaft für Elektrische Unternehmungen, Nuremberg, Germany. Suspended railway-vehicle.....	708,175	Sept. 2	330	79	100	2048
Schnucker, Charles L. (See Morris and Schnucker.).....						
Schnebl, J. Ralph. (See Smith, William R., assignor.).....						
Schneck, Fredrick. (See Straeten and Schneck.).....						
Schneekloth, Hans A., New York, N. Y. Cigar-machine.....	693,626	Feb. 18	2682	592 593	98	1396
Schneekloth, Hans A., New York, N. Y. Cigar-machine.....	705,872	July 29	4917	1069 1070	100	1055
Schneible, Joseph, New York, N. Y. Manufacture of malt liquors.....	694,671	Mar. 4	640	140	98	1848
Schneible, Joseph, New York, N. Y. Manufacture of fermented liquors.....	700,893	May 27	3378	776	99	1922
Schneible, Joseph, New York, N. Y. Cooler or condenser.....	710,810	Oct. 7	801	172 173	101	164
Schneider, Adolph, Chicago, Ill. Bottle-holder.....	713,160	Nov. 11	1316	297	101	1184
Schneider, Adolph, and C. A. Carlson, Chicago, Ill. Bottle-holder.....	717,093	Dec. 30	4749	1030	101	2903
Schneider, Carl, assignor to Edward Stern & Company, Incorporated, Philadelphia, Pa. Kite-body.....	712,603	Nov. 4	273	65	101	955
Schneider, Carl O., Chicago, Ill., assignor to R. Friedlander & Co. Current-interrupter.....	716,584	Dec. 23	3792	824	101	2674
Schneider, Charles P. E., Le Creusot, France. Dynamo-electric machine.....	694,999	Mar. 11	1271	279 280	98	1999
Schneider, Charles P. E., and J. B. G. A. Canet, Le Creusot, France. Apparatus for setting time-fuses.....	699,900	May 13	1510	347 348	99	1501
Schneider, Charles P. E., and J. B. G. A. Canet, Le Creusot, France. Apparatus for sighting guns with independent line of sight.....	706,345	Aug. 5	385	148 149	100	1254
Schneider, Charles P. E., and J. B. G. A. Canet, Le Creusot, France. Recoil apparatus for guns.....	713,691	Nov. 18	2384	531 532	101	1417

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Schneider, Charles P. E., and J. B. G. A. Canet, Le Creusot, France. Apparatus for sighting guns.	716,114	Dec. 16	2343	636	101	2463
Schneider, Emil, Xuyuy, N. J. Shingle.	716,385	Dec. 23	3793	824	101	3373
Schneider, Ernst W., Buffalo, N. Y. Window shade and curtain fixture.	697,023	Apr. 8	1232	275	99	280
Schneider, Franklin, Cleveland, Ohio, assignor to Whitley Exerciser Company, Chicago, Ill. Exercising apparatus.	691,295	Jan. 11	1733	305	98	377
Schneider, Frederick, New York, N. Y. Overshoe for horses.	708,668	Sept. 9	1202	274	100	2236
Schneider, George, Newport, Ky. Tongueless buckle.	706,857	Aug. 12	1661	372	100	1474
Schneider, George, Newport, Ky. Crupper.	707,868	Aug. 26	3644	821	100	1913
Schneider, George, Baltimore, Md., assignor to George Schneider Manufacturing Company of Baltimore City. Shoe-horn.	703,310	June 24	3726	858	99	2926
Schneider, Henry C., North Milwaukee, Wis. Extension-table.	705,711	July 29	4640	1005	100	998
Schneider, Hermann. (See Fischer and Schneider.)						
Schneider, John, Newark, N. J. Leather-stretching clamp.	707,869	Aug. 26	3645	821	100	1913
Schneider, John, Newark, N. J. Leather-stretching device.	717,288	Dec. 30	5243	1139	101	3009
Schneider, Louis C., Mittweida, Germany. Card-clothing.	691,916	Jan. 28	2551	090	98	662
Schneider, Louis H. (See Barlow, Howard E., assignor.)						
Schneider, Peter, Oswego, N. Y. Lumber-gluing press.	716,288	Dec. 16	3173	695	101	2329
Schneider, Wilhelm H. (See Pfeil and Schneider.)						
Schneider, William, Chicago, Ill., assignor to Whitfield Company, Memphis, Tenn. Telescopic compound engine.	690,620	Jan. 7	436	105	98	104
Schneider, William, Chicago, Ill., assignor to Whitfield Company, Memphis, Tenn. Telescopic compound engine.	707,647	Aug. 26	3156	710	100	1817
Schneider, William, Chicago, Ill., assignor to Whitfield Company, New York, N. Y. Telescopic compound engine.	716,115	Dec. 16	2845	626	101	2463
Schneider, William J. (See Williams, Michael, assignor.)						
Schneller, John P., Catasauqua, Pa. Heat-radiator for smoke-pipes.	709,051	Sept. 16	1993	455	100	2419
Schniewind, Frederic W. C., New York, N. Y., assignor to United Coke & Gas Company, Charleston, W. Va., and Philadelphia, Pa. Manufacturing gas.	698,062	Apr. 22	3117	086	99	711
Schniewind, Frederic W. C., New York, N. Y., assignor to United Coke & Gas Company, Charleston, W. Va., and Philadelphia, Pa. Plant for manufacturing gas.	698,063	Apr. 22	3120	086	99	712
Schoch, Irvin E., Damascus, Ill. Sterilizer for liquids or fluids.	714,041	Nov. 18	3062	679	101	1563
Schock, Gustav, New York, N. Y. Barrel-cleaning machine.	703,088	June 24	3343	768	99	2549
Schock, Gustav, New York, N. Y. Sprinkling or spraying device.	701,089	June 24	3345	769	99	2850
Schodde, Louis F., Allegheny, Pa. Rail-joint.	714,405	Nov. 25	3779	824	101	1727
Schoeffel, George J., Milwaukee, Wis. Photographic-plate-developing apparatus.	715,301	Dec. 9	1252	286	101	2112
Schoff, Frederic. (See Jackson, James H., assignor.)						
Schoff, Frederic, New York, N. Y. Signal-recording mechanism.	694,327	Feb. 25	4080	909	98	1690
Schoeler, Arthur, Elberfeld, Germany. Swiveling trumpet for telephones.	715,878	Dec. 16	2374	526	101	2362
Schoeler, Felix, Berlin, Germany. Instrument for measuring the degree of exposure to light.	707,164	Aug. 19	3225	499	100	1605
Schoeller, Gustav A., Mulheim-on-the-Ruhr, assignor to F. Krupp, Essen, Germany. Ammunition conveyor or rammer for guns.	696,087	Mar. 25	2265	738	98	2441
Schoellkopf & Company. (See Albee, Washington L., assignor.)						
Schoellkopf, Hartford & Hanna Company. (See Culmann, Edward, assignor.)						
Schoen, Charles T. (See Loss, Henrik V., assignor.)						
Schoen, Charles T., et al. (See Rudolph, Charles, assignor.)						
Schoenhut, Albert. (See Meinecke, Fritz K. T., assignor.)						
Schoenhut, Charles B., Waterbury, Conn. Galvanic battery.	705,616	July 29	4463	968	100	964
Schoff, Frederic. (See Jackson, James H., assignor.)						
Schofield, Albert B., New York, N. Y. Jar-closure.	703,005	June 24	3174	731	99	2817
Schofield, Albert B., Brooklyn, assignor to Keystone Seal & Press Company, New York, N. Y. Shackle-seal.	690,466	Jan. 7	152	32	98	21
Schofield, Albert B., Brooklyn, assignor to Keystone Seal & Press Company, New York, N. Y. Seal-press.	691,079	Jan. 14	1339	302	98	294
Schofield, Arthur F., Westford, Conn. Calk-equipped horseshoe.	706,205	Aug. 5	393	84	100	1197
Schofield, Ernest, Leeds, England. Excavator for trenches, cuttings, or the like.	708,972	July 1	1110	240	100	220
Schofield, Frank H., U. S. Navy. Mount for guns.	713,506	Nov. 11	2040	457	101	1332
Schofield, George W., Brooklyn, N. Y. Amusement or roundabout apparatus.	708,834	Sept. 9	1546	353	100	2310
Schofield, George W., Brooklyn, N. Y. Merry-go-round.	708,835	Sept. 9	1549	354	100	2310
Schofield, George W., New York, N. Y. Amusement apparatus.	717,457	Dec. 30	5538	1203	101	3069
Schofield, James, Marshall, Tex. Plow.	695,950	Mar. 25	3004	680	98	2287
Schofield, John, Paterson, N. J. Window-screen.	697,106	Apr. 8	1372	304	99	312
Schofield, Robert, assignor of two-thirds to C. Burgess, New Bedford, Mass. Skewer for bobbins.	704,584	July 15	2284	496	100	493
Schofield, Silas C., Freeport, Ill. Tool-guide for grindstones.	709,177	Sept. 16	2245	510	100	2472
Schofield, Silas C., Freeport, Ill. Tool holder and guide for grindstones.	709,178	Sept. 16	2246	510	100	2472
Schofield, William H., Chicago, Ill. Metal wagon-body.	697,949	Apr. 15	2902	640	99	647
Schofield, William H., Chicago, Ill. Metal wheel.	697,950	Apr. 15	2904	641	99	647
Schofield, William H., Chicago, Ill. Metal tongue for vehicles.	697,951	Apr. 15	2905	641	99	647
Schofield, William H., Chicago, Ill. Metal running-gear for wagons.	697,952	Apr. 15	2906	641	99	648
Scholes, August, Pittsburg, Pa. Metallic tie and rail-fastener.	705,617	July 29	4465	968	100	964
Scholes, William, assignor of one-half to J. S. MacElroy, Philadelphia, Pa. Woven figured fabric.	698,743	Apr. 29	4454	983	99	1008
Scholl, Albert, Mannheim, Germany. Packing for pressure-pistons.	700,834	May 27	3380	776	99	1922
Scholl, Albert, Mannheim, Germany. Apparatus for raising liquids by means of steam or compressed air.	703,669	Sept. 9	1203	275	100	2236
Scholl, Albert, Mannheim, Germany. Apparatus for raising liquids.	716,941	Dec. 30	4559	990	101	2861
Scholl, Carl, Göppingen, Germany. Magnetic separator.	715,160	Dec. 2	977	212	101	2036
Scholl, Franz, assignor to Farbwerke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Orange-red dye and making same.	695,238	Mar. 11	1723	—	98	2092
Scholl, George, assignor to W. E. Gallacher, South Framingham, Mass. Filter.	711,535	Oct. 21	2201	478	101	487
Scholl, Julian. (See Longenecker, Charles K., assignor.)						
Schön, Frank, New York, N. Y. Mandrel for paper-rolls.	708,740	Sept. 9	1337	305	100	2265
Schöning, William, Christiania, Norway. Preserving eggs.	709,583	Sept. 23	3082	—	100	2662
Schooley, Edward A., Pittsburg, assignor to Schooley-McClure Company, Sutersville, Pa. Railway-torpedo.	691,326	Jan. 14	1804	409	98	591
Schooley, Frank W., assignor of one-half to B. L. Hiatt, Dublin, Ind. Wire-reel truck.	709,932	Sept. 30	3760	850	100	2813
Schooley-McClure Company. (See Schooley, Edward A., assignor.)						
Schoonmaker, Herbert, Roseton, N. Y. Safety appliance for sanding and feeding brick-molds.	702,821	June 17	2817	648	99	2727



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Schoonover, Harrison R., Eagle Grove, Iowa. Copy-holder for photographic purposes	714,334	Nov. 25	3653	805	101	1702
Schoonover, Noah E., Big Springs, S. D., assignor to J. C. Beck and W. W. Burrill, Akron, Iowa. Marker for seed-planters	702,825	June 17	2822	649	99	2728
Schopbach, Charles H., Aurora, Ill. Combined corset and bust-form	697,669	Apr. 15	2401	533 534	99	539
Schopbach, Charles H., assignor to Chicago Corset Company, Aurora, Ill. Apparel-corset	690,665	Jan. 7	571	124	98	122
Schopbach, Charles H., Aurora, assignor to S. F. and N. Florsheim, Chicago, Ill. Attaching button or stud	690,666	Jan. 7	573	125	98	123
Schopf, Amos, Newport, Mo. Tile-laying machine	713,692	Nov. 18	2386	532	101	1418
Schorno, Antony. (See Reichlin, Xaver, assignor.)						
Schott, George. (See Watts, Louis A., assignor.)						
Schott, John B., Quincy, Ill. Overdraw-check for bridles	708,410	Sept. 2	739	166	100	2131
Schouboe, Jens T. S., Rungsted, Denmark. Fork-pivot for mitraillease	700,835	May 27	3382	776	99	1922
Schrader, Charles A., San Diego, Cal. Shelf-hook	698,257	Apr. 23	3457	759	99	782
Schrader, Frederick, St. Louis, Mo. Hot-air furnace	703,003	June 24	3175	73	99	2817
Schrader, George H. F., New York, N. Y. Tire-valve cap	691,296	Jan. 14	1735	395	98	377
Schrader, Henry F., Brooklyn, N. Y. Amusement apparatus	697,891	Jan. 25	2800	619	99	627
Schrader, William, Brooklyn, N. Y. Combined packing and displaying box	701,401	June 3	209	46	99	2150
Schrader-Wittstein Company. (See Wittstein, Charles T., assignor.)						
Schrafft, George F., Somerville, and F. E. Hall, Brookline, Mass. Combination premium-ticket	715,879	Dec. 16	2375	526	101	2362
Schrag, John J., assignor of one-half to T. L. Gourley, Toledo, Ohio. Switch-stand	707,360	Aug. 19	2592	527 586	100	1683
Schramm, Adolph W., Philadelphia, Pa., assignor to Electro Dental Manufacturing Company, Camden, N. J. Switch mechanism for electric motors	691,187	Jan. 14	1522	343 344	98	332
Schramm, Adolph W., Philadelphia, Pa., assignor to Electro Dental Manufacturing Company, Camden, N. J. Means for regulating electric motors	691,188	Jan. 14	1527	345	98	333
Schramm, Adolph W., Philadelphia, Pa., assignor to Electro Dental Manufacturing Company, Camden, N. J. Dental engine	704,937	July 15	2986	640	100	640
Schramm, Adolph W., and E. B. Wilford, assignors to Electro Dental Manufacturing Company, Philadelphia, Pa. Hot-air syringe	693,162	Feb. 11	1775	380	98	1187
Schramm, Adolph W., E. B. Wilford, and B. Fulton, assignors to Electro Dental Manufacturing Company, Philadelphia, Pa. Handpiece for dental engines	714,613	Nov. 25	4158	919	101	1803
Schratwieser, Jacob, Brooklyn, N. Y. Floor and ceiling construction	690,621	Jan. 7	489	105	98	105
Schratwieser, Jacob, Brooklyn, N. Y. Plaster-board	694,111	Feb. 25	3614	799	98	1963
Schraube, Conrad, and H. T. Bucherer, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen, Germany. Azo dye and making same	700,565	May 20	2832		99	1790
Schraube, Conrad, and W. Voigtlander-Tetzner, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Red disazo dye and making same	713,507	Nov. 11	2622		101	1333
Schraube, Conrad, E. Schleicher, and H. T. Bucherer, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Azo dye	716,239	Dec. 16	3175		101	2529
Schrauder, Martin, Cincinnati, Ohio. Lock	702,333	June 10	1879	429	99	2510
Schreck, Conrad J., Gallipolis, Ohio. Safety-harness for children	703,483	July 1	191	46	100	40
Schreffler, George W. H., Lockhaven, Pa. Snap-hook	697,307	Apr. 8	1812	406	99	105
Schreiber, Edward, and J. G. Klier, Rochester, N. Y. Razor-guard	714,524	Nov. 25	3996	884	101	1770
Schreiber, Philip J., Toledo, Ohio. Device for therapeutic application of smoke	691,732	Jan. 21	2567	575	98	570
Schreidt, Frank, Mansfield, Ohio. Relief-valve	702,157	June 10	1581	358	99	2452
Schreier, Emil, and H. Dümmler, Vienna, Austria-Hungary. Switch for electromotors for driving dental apparatus	701,637	June 3	638	140	99	2242
Schreiner, Joseph, Irvington, N. J., assignor to Rubber and Celluloid Harness Trimming Co., Brush	699,610	Sept. 23	3124	696	100	2670
Schreiner, Ludwig, Barmen-Rittershausen, Germany. Calendaring-machine	701,511	June 8	412	93	99	2192
Schrock, Harvey J., Goshen, Ind. Folding crate	706,692	Aug. 12	1337	297	100	1405
Schrock, W. A. (See Konetsky, John R., assignor.)						
Schroder, August M. (See Schroder, Benjamin C. A. M., and J. M.)						
Schroder, Benjamin C. A. M., and J. M. Osmond, Nebr. Tilt-hammer	717,280	Dec. 30	5244	1139	101	3991
Schroder, Friedrich. (See Schroder, Alonzo C., assignor.)						
Schroder, John M. (See Schroder, Benjamin C. A. M., and J. M.)						
Schroeder, Conrad, Milwaukee, Wis. Cap for bottle-stoppers	713,693	Nov. 18	2287	532	101	1118
Schroeder, Frederick, New York, N. Y. Electric fuse for explosives	711,006	Oct. 14	1147	253	101	252
Schroeder, George G., Washington, D. C., assignor, by mesne assignments, to Federal Automatic Machine Company, New York, N. Y. Match-vending machine	699,821	May 13	1338	310 311	99	1464
Schroeder, Henry A., Baltimore, Md. Combined lock and latch	712,604	Nov. 4	273	65	101	965
Schroeder, John. (See Kirvall, John, assignor.)						
Schroeder, Otto. (See Devine, Charles E., assignor.)						
Schroeder, Richard, Walcott, Iowa. Attachment for threshing-machines	694,430	Mar. 4	183	40	98	1752
Schroeter, August, Berlin, Germany. Apparatus for filling bottles or jugs with beer	704,386	July 8	1906	412 413	100	402
Schroetter, August and P., Berlin, Germany. Bottle-stopper	715,880	Dec. 16	2376	527	101	2362
Schroetter, Paul. (See Schroetter, August and P.)						
Schroth, Charles E., Winona, Minn. Chimney double	690,778	Jan. 7	791	176	98	167
Schrotke, Franz, Berlin, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Alternating-current motor	697,670	Apr. 15	2402	534	99	539
Schrottke, Franz, Berlin, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Alternating-current meter	697,671	Apr. 15	2404	534	99	540
Schrottky, Eugene C., Dresden, Germany. Malting rice	693,569	Feb. 18	2568	567	98	1373
Schroyer, Harry H. (See Donaldson and Schroyer.)						
Schroyer, Harry H., assignor to himself, J. H. Donaldson, and E. J. Ward Company, Chicago, Ill. Diaphragm for car-vestibules or the like	710,924	Oct. 7	989	218	101	201
Schrum, George D., assignor of one-half to W. Schrum, Detroit, Mich. Belt-holder	712,098	Oct. 28	3300	723	101	731
Schrum, William. (See Schrum, George D., assignor.)						
Schryver, Henry A., and F. C. March, Warren, Ohio. Steering-gear for motor-carriages	715,302	Dec. 9	1252	266	101	2112
Schubert, Daniel N., assignor of one-half to J. W. Peter and J. L. Bilan, Alvada, Ohio. Combined hay rake and loader	715,427	Dec. 9	1476	318	101	2157
Schubert, Willie H. C., Britt, Iowa. Plow	693,451	Feb. 18	2341	512	98	1327
Schuch, John P., Jr., Cripple Creek, Colo. Ore-mixing machine	713,694	Nov. 18	2389	533	101	1418
Schuch, William, West Hoboken, N. J. Safety attachment for razors	713,018	Nov. 4	1032	241	101	1107
Schucker, Alvin B., Reading, Pa. Necktie-band fastener	698,561	Apr. 29	4037	893	99	918
Schuessler, Joseph, Cincinnati, Ohio. Locking means for dampers	691,009	Jan. 14	1216	275	98	269
Schultz, Henry J., assignor to P. W. Herzog, St. Paul, Minn. Street-car fender	705,150	July 22	3435	746 747	100	715
Schule, Friedrich H., Hamburg, Germany. Appliance for taking up or neutralizing shocks	700,092	May 13	1848	430	99	1568
Schult, Lars G., Chicago, Ill. Loose-leaf binder	711,536	Oct. 21	2292	479	101	148

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Schult, Lars G., assignor to E. L. Krag, Chicago, Ill. Loose-leaf file.....	712,008	Oct. 28	3138	686	101	700
Schulte, Eduard. (See Brejcha and Schulte.)						
Schulte, Levi N. and S. H., Oregon, Mo. Pump-pipe grapple .....	702,374	June 10	1881	429	99	2510
Schulte, Samuel H. (See Schulte, Levi N. and S. H.)						
Schulteis, Albert, <i>et al.</i> (See Fillmore, George M., assignor.)						
Schultz, Charles L. and R. A., Chicago, Ill. Flexible coupling .....	700,246	May 20	2218	506	99	1065
Schultz, Charles W., assignor of two-thirds to J. C. Kenney, Detroit, Mich., and R. E. Schultz, Windsor, Ontario, Canada. Ventilating attachment for water-closet bowls .....	712,207	Oct. 28	3493	766	101	769
Schultz, Clarence B. (See Deissler, Robert, assignor.) (Reissue.)						
Schultz, Emil. (See Hoeft and Schultz.)						
Schultz, Emmet, Arlington, N. J., assignor to Arlington Company. Golf-ball .....	716,290	Dec. 16	3178	696	101	2570
Schultz, Emmet, Arlington, N. J., assignor to Arlington Company. Golf-ball .....	716,291	Dec. 16	3179	696	101	2530
Schultz, Ernest E., and C. Sintasy Orfila, Barcelona, Spain. Automatic device for the safe operation of electric conductors with or without guard-wires .....	699,025	Apr. 29	4990	1104	99	1125
Schultz, Oskar A., Ellerbeck, Germany. Ratchet-drill .....	712,856	Nov. 4	711	172	101	1050
Schultz, Otto, Hanover, Germany. Type-writer .....	718,695	Nov. 18	2391	533	101	1419
Schultz, Richard E., <i>et al.</i> (See Schultz, Charles W., assignor.)						
Schultz, Robert A. (See Schultz, Charles L. and R. A.)						
Schultz, William H., Minneapolis, Minn. Vehicle-thill .....	715,303	Dec. 9	1255	266	101	2119
Schultze, Gustav F. W., Berkeley, Cal. Coin-controlled weighing-machine .....	696,598	Apr. 1	38	90	99	80
Schulz, Adolph, Chicago, Ill. Flow .....	694,672	Mar. 4	642	141	98	1848
Schulz, Adolph, Chicago, Ill. Flow .....	707,726	Aug. 26	3332	743	100	1851
Schulz, Arthur, Friedenau, Germany. Means for moving heavy loads .....	704,387	July 8	1908	413	100	403
Schulz, Henry, New York, N. Y. Machine for winding drum-armatures .....	709,179	Sept. 16	2247	512	100	2473
Schulz, Otto C., assignor to W. C. Barton and C. F. Hanson, Chicago, Ill. Safety coat-book .....	697,753	Apr. 15	2550	567	99	571
Schulz, Richard, Berlin, Germany. Combined axial and radial turbine .....	702,826	June 17	2823	649	99	2728
Schulz, Richard, Berlin, Germany. Combined superheater and steam-generator .....	707,021	Aug. 12	1946	436	100	1530
Schulz, Richard, Berlin, Germany. Steam-turbine .....	707,727	Aug. 26	3321	743	100	1852
Schulz, Richard, Berlin, Germany. Oil-separator .....	707,728	Aug. 26	3326	745	100	1852
Schulze, Carl W. R., Leipzig, Germany. Perambulator .....	706,854	Aug. 12	1653	371	109	1474
Schulze, Hermann, Cossebande, by Dresden, Germany. Bathing-tub .....	702,380	June 10	1968	449	99	2529
Schumacher, Charles J., Allegheny, Pa. Key-holder .....	692,167	Jan. 28	3879	766	98	751
Schumacher, Henry, San Francisco, Cal. Geographical clock .....	712,739	Nov. 4	483	114	101	998
Schumacher, John F., Leonard, Ohio. Journal-box .....	702,159	June 10	1585	358	99	2452
Schumacher, John N., Chicago, Ill. Halbiting device .....	715,161	Dec. 2	979	212	101	2480
Schumacher, John W., Baltimore, Md. Fire-escape .....	696,149	Mar. 25	3420	769	98	2176
Schuman, Alexander C., assignor to S. Coleman, Louisville, Ky. Adding-machine .....	704,938	July 15	2988	640	100	641
Schuman, Alexander C., assignor to S. Coleman, Louisville, Ky. Calculating-machine .....	709,362	Sept. 16	2607	587	100	2551
Schuman, Alexander C., assignor to S. Coleman, Louisville, Ky. Computing-machine .....	709,363	Sept. 16	2618	589	100	2573
Schuman, Alexander C., assignor to S. Coleman, Louisville, Ky. Dating attachment for calculating-machines .....	709,364	Sept. 16	2633	591	100	2556
Schuman, Alexander C., assignor to S. Coleman, Louisville, Ky. Calculating-machine .....	709,365	Sept. 16	2635	591	100	2556
Schuman, Alexander C., assignor to S. Coleman, Louisville, Ky. Clock-striking mechanism .....	713,696	Nov. 18	2393	534	101	1419
Schumann, Charles W., Jr., <i>et al.</i> (See Suman, Harry P., assignor.)						
Schumann, Ferdinand, Leipsic Klein-Zschocher, assignor to M. Steinberg, Leipsic, Germany. Potato-planter .....	700,566	May 20	2834	650	99	1790
Schuneman, Edgar J., Newton, Iowa. Folding device .....	698,562	Apr. 29	4037	893	99	918
Schureman, David S., Rockford, Ill. Water-closet .....	710,342	Sept. 30	4530	1022	100	2978
Schureman, Jacob L., Chicago, Ill. Pressure-regulator .....	706,260	Aug. 5	496	106	100	1217
Schureman, Jacob L., Jr., assignor of one-half to J. W. Hayden, Chicago, Ill. Electrical controller .....	715,428	Dec. 9	1477	319	101	2157
Schürmann, Carl, Dusseldorf, Germany. Manufacture of braided cords or cables for electric lighting or like purposes .....	703,837	July 1	852	187	100	171
Schürmann, Felix J., Münster, Germany. Bicycle-saddle cloth .....	714,245	Nov. 25	3486	767	101	1668
Schussler, John H., assignor of one-half to W. M. Caldwell, Denver, Colo. Means for ink-jet printing-press rolls .....	690,855	Jan. 7	996	225	98	209
Schuster, Daniel. (See Hermann and Schuster.)						
Schuster, Ernst. (See Eder, Reinhold, assignor.)						
Schuster, Ernst. (See Hamann, Christel, assignor.)						
Schüttauf, Richard, assignor to Firm C. Zeiss, Jena, Germany. Photographic curtain-shutter .....	708,007	June 24	3176	732	99	2817
Schüttauf, Richard, assignor to Firm C. Zeiss, Jena, Germany. Photographic-plate shutter .....	711,741	Oct. 21	2588	568	101	570
Schutte, Louis. (See Bordo and Schutte.)						
Schutte, Louis, Philadelphia, Pa. Induction-condenser .....	704,585	July 15	2387	497	100	493
Schutte, Louis, Philadelphia, Pa. Reducing-valve .....	712,009	Oct. 28	3139	686	101	701
Schutz, William C., assignor to F. R. Rice Mercantile Cigar Company, St. Louis, Mo. Jar .....	703,155	June 24	3475	799	99	2874
Schütze, August, Rudolstadt, assignor to F. A. Richter, Rudolstadt, Schwarzburg-Rudolstadt, Germany. Toy railway .....	699,685	Sept. 23	3254	729	100	2696
Schuurman, Dirk, Hoboken, N. J. Feed-bag .....	696,760	Apr. 1	690	156	99	147
Schuurman, Dirk, Hoboken, N. J. Suction-pump .....	711,350	Oct. 14	1841	400	101	398
Schuyler, Daniel. (See Laughlin and Schuyler.)						
Schwab, Benjamin, Nogales, Mexico. Bar or fastener for doors .....	698,326	Apr. 22	3621	800	99	815
Schwab, Frank X., Buffalo, N. Y. Keg .....	700,567	May 20	2837	651	99	1791
Schwab, Louis. (See Fielding, William L., assignor.)						
Schwab, Martin C., Baltimore, Md. Conveyor .....	702,115	June 10	1508	338	99	2433
Schwab, Nathan, New York, N. Y. Envelop-moistener .....	697,548	Apr. 15	2171	482	99	493
Schwabacher, Heinrich. (See Francke and Schwabacher.)						
Schwalen, John N., Hudson, Wis. Draft-equalizer .....	697,549	Apr. 15	2172	482	99	493
Schwan, Nicolaus. (See Homolka and Schwan.)						
Schwanangel, John C., Dayton, Ohio. Ball-bal and explosive .....	708,261	Sept. 2	490	112	100	2080
Schwaner, Christian C., Winterset, Iowa. Traze-buckle .....	715,613	Dec. 9	1821	404	101	2225



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Schwaninger, Vitus, Oggersheim, Germany. Apparatus for raising liquids	716,942	Dec. 30	4560	990	101	2862
Schwartz, Alfred, Munich, assignor to Helios Electricaets-Aktiengesellschaft, Cologne-Ehrenfeld, Germany. Clutch for induction-motors	706,117	Aug. 5	212	44	100	1160
Schwartz, Alfred, Cologne, assignor to Helios Electrical Construction Company, Cologne-Ehrenfeld, Germany. Starting induction-motors	714,824	Dec. 2	340	75	101	1906
Schwartz, David D., et al. (See Morrissey, Thomas F., assignor.)						
Schwartz, Edward H., assignor of two-thirds to Hawley Down Draft Furnace Company, Chicago, Ill. Melting-furnace	708,782	Sept. 9	1418	327	100	2283
Schwartz, Edward H., assignor to Hawley Down Draft Furnace Company, Chicago, Ill. Melting and treating metals	708,783	Sept. 9	1422	327	100	2284
Schwartz, George J., Natchez, Miss. Bill-collecting book or file	715,162	Dec. 2	980	213	101	2037
Schwartz, Henry. (See Koons, John H., assignor.)						
Schwartz, Herman, and I. Silbermann, New York, N. Y. Fountain-brush	701,402	June 3	210	46	99	2151
Schwartz, Herman M., assignor to Florence Manufacturing Company, Northampton, Mass. Brush-machine	696,761	Apr. 1	691	157	99	147
Schwartz, James M., et al. (See Morrissey, Thomas F., assignor.)						
Schwartz, Louis, New York, N. Y., assignor to Eagle Chemical Works, Secaucus, N. J. Receptacle for ethyl chloride	701,274	May 27	4182	960	99	2087
Schwartz, Mendel, New York, N. Y. Chimney cowl or ventilator	700,568	May 20	2828	651	99	1791
Schwartz, Michael, assignor to E. Payson, Chicago, Ill. Adjustable door-spring	698,744	Apr. 29	4455	983	99	1004
Schwartz, Nicolaus C. E., New York, N. Y. Vaginal syringe	703,615	July 1	424	99	100	84
Schwartz, Nicolaus C. E., New York, N. Y. Vaginal syringe	703,616	July 1	426	99	100	84
Schwartz, Walter M., assignor to Philadelphia Textile Machinery Company, Philadelphia, Pa. Machine for treating tobacco, yarn, &c.	716,766	Dec. 23	4111	903	101	2743
Schwartz, York, Hanover, Germany. Photographic emulsion	710,019	Sept. 30	3928	100	2849	
Schwarz, Arthur, Berlin-Schöneberg, Germany. Apparatus for toning photographs	708,671	July 1	546	124	100	108
Schwarz, Carl, Quincy Township, and W. H. Drittler, Hancock, Mich. Automatic railway-switch	691,010	Jan. 14	1218	275	98	209
Schwarz, Carl, Quincy Township, and W. C. Bryant, Franklin Township, Houghton county, Mich. Combined fire-escape and water-tower	705,710	July 29	4635	1004	100	997
Schwarz, Emerich, Chicago, Ill. Nail-machine	705,450	July 22	4082	887	100	878
Schwarz, Louis, Jersey City, N. J. Cushion for shoe-heels	699,773	Jan. 7	731	176	98	167
Schwarz, William J., Brooklyn, N. Y. Gas-cove	698,327	Apr. 22	3622	800	99	816
Schwarzlose, Andreas W., Suhl, Germany. Breech mechanism for guns	692,921	Feb. 11	1287	282	98	1091
Schwarzlose, Andreas W., Suhl, Germany. Recoil-operated firearm	712,730	Nov. 4	485	114	101	998
Schwarzlose, Andreas W., Suhl, Germany. Automatic firearm	712,972	Nov. 4	957	223	101	1093
Schwechler, John, Philadelphia, Pa., assignor, by mesne assignments, to R. W. Cavanaugh, New York, N. Y. Soap-granulator	698,144	Apr. 22	3300	722	99	747
Schwedtmann, Ferdinand, and G. E. Wells, St. Louis, Mo. Transformer	694,673	Mar. 4	645	142	98	1849
Schwegel, Peter, Dayton, Ohio. Self-closing cock	704,121	July 8	1417	304	100	298
Schweitzer, Henry, Altoona, Pa. Razor-cleaner	708,262	Sept. 2	491	113	100	2080
Schweitzer, Joseph, Paris, France, assignor to La Société Internationale de Meunerie et de Panification Systeme Schweitzer, Brussels, Belgium. Grooving millstones	706,259	Aug. 5	494	106	100	1216
Schwenke, Philipp F., and J. W. Case, Jackson, Mich. Lighting and heating device for vehicles	708,593	Sept. 9	1059	240	100	2206
Schwend, George M., Birmingham, Ala. Valve-motion	707,452	Aug. 19	2759	685	100	1718
Schwenk, Johann M. (See Strakele, John, assignor.)						
Schwerdtle, Edward S. (See Strauss and Schwerdtle.)						
Schwerin, Silas, assignor to Hardman Rubber Company, Belleville, N. J. Bottle-stopper	706,693	Aug. 12	1338	297	100	1405
Schwiebus, Hermann, Dresden, Germany. Furnace or hearth	717,034	Dec. 30	4732	1090	101	2903
Schwing, George, Newark, N. J., assignor to Newark Cornice and Skylight Works. Window frame and sash	713,506	Nov. 11	2044	457	101	1338
Schwinzel, George A., Akron, Ohio. Belt-tightener	704,888	Nov. 8	1909	413	100	403
Scior, John, Mansfield, Ohio. Combination bung and tapping bush	701,226	May 27	4067	941	99	2069
Soobee, Claude S., Winchester, Ky. Lubricator for loose pulleys	703,838	July 1	833	188	100	171
Soofield, Edson D., et al. (See Winkler, William, assignor.)						
Soofield, Edson M. (See Thacher, Edwin, assignor.)						
Soofield, William E., Long Island City, assignor to Sunlight Gas Machine Company, New York, N. Y. Carbide-feeding device for acetylene gas generators	697,024	Apr. 8	1284	275	99	281
Soognamilo, Salvatore, and C. H. Posner, New York, N. Y. Speed-regulating mechanism for motor-vehicles	714,614	Nov. 25	4160	920	101	1804
Scott, Alexander A., Knoxville, Tenn. Elevating-truck	703,744	July 1	685	151	100	136
Scott, Alexander A., Knoxville, Tenn. Elevating-truck	709,245	Sept. 16	2383	539	100	2502
Scott, Alexander A., Knoxville, Tenn. Elevating-truck	711,007	Oct. 14	1148	254	101	252
Scott, Alexander A., Knoxville, Tenn. Elevating-truck	711,008	Oct. 14	1150	254	101	252
Scott, Baptist H., Allegheny, Pa. Garment-support	714,406	Nov. 25	3780	835	101	1727
Scott, Calvin, Byttheadale, Mo. Identification-tag	703,008	June 24	3178	732	99	2817
Scott, Charles C., assignor to A. C. and M. L. Felkin, Boston, Mass. Illuminated sign	700,836	May 27	3333	776	99	1922
Scott, Charles C., assignor to A. C. and M. L. Felkin, Boston, Mass. Illuminated display-sign	704,122	July 8	1418	304	100	298
Scott, Charles H., Minneapolis, Minn. Separator	691,876	Jan. 28	2858	644	98	647
Scott, Charles H., Minneapolis, Minn. Separator	691,877	Jan. 28	2863	645	98	648
Scott, Charles H., Gloucester, England. Press for pressing linoleum, &c	697,550	Apr. 15	2174	482	99	493
Scott, Charles H., Gloucester, England. Machinery for the manufacture of inlaid linoleum	697,551	Apr. 15	2176	483	99	494
Scott, Charles H., Gloucester, England. Manufacture of linoleum	697,552	Apr. 15	2180	484	99	495
Scott, Charles H., Chicago, Ill. Combined bustle and hip-form	702,158	June 10	1583	358	100	2452
Scott, Edna L., Portland, Me. Suspending device for catamenial bandages	706,457	Aug. 5	922	200	100	1362
Scott, Edwin V. (See Chedell and Scott.)						
Scott, Frank, assignor of one-half to L. T. Everett, Catlettsburg, Ky. Broom-holder	716,116	Dec. 16	2849	627	101	2464
Scott, George, Amsterdam, N. Y. Sewing-machine guide	716,117	Dec. 16	2850	628	101	2464
Scott, George, Amsterdam, N. Y., and E. D. Weyburn, Chicago, Ill. Cutting-machine and cutting-table and pattern therefor	698,064	Apr. 22	3122	687	99	712
Scott, George C., Boston, Mass. Chair-tip	698,238	Apr. 22	3458	759	99	762
Scott, George D., Birmingham, Ala., assignor to Kitson Hydrocarbon Heating & Incandescent Lighting Company, Philadelphia, Pa. Vaporizer for hydrocarbon-burners	713,500	Nov. 11	2045	458	101	1333
Scott, George L., Rochdale, M. W. Mills and T. C. Ormerod, Heywood, assignors of one-fourth to J. P. Ormerod, Castleton, England. Construction of driving or similar pulleys	715,904	Dec. 9	1256	267	101	2113
Scott, Gerard C., Columbus, Ohio. Amalgamating-machine	694,112	Feb. 25	3615	800	98	1603
Scott, Gerard C., Columbus, Ohio. Amalgamating-machine	694,203	Feb. 25	3794	889	98	1639

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Scott, Gerard C., Columbus, Ohio. Amalgamating-machine.....	694,294	Feb. 25	8795	889	98	1639
Scott, Gerard C., Columbus, Ohio. Amalgamating-machine.....	697,176	Apr. 8	1488	333	99	336
Scott, Gerard C., Columbus, Ohio. Amalgamating-machine.....	697,177	Apr. 8	1489	333	99	336
Scott, Gerard C., Columbus, Ohio. Amalgamating-machine.....	700,379	May 20	2493	571	99	1719
Scott, Gordon J., assignor of one-half to W. S. Janney, Philadelphia Pa. Coupling device.....	710,524	Oct. 7	255	56	101	52
Scott, Henry M., and H. Anderson, Sheboygan Falls, Wis. Composition of matter for use with renet.....	714,748	Dec. 2	188		101	1875
Scott, Henry P. (See McLaughlin, George M., assignor.).....						
Scott, Henry R., Kansas City, Mo. Boiler-furnace.....	703,710	July 1	616	137 138	100	122
Scott, Henry S., et al. (See Tyzack, Henry F., assignor.).....						
Scott, Henry W. (See Dearing, David M., assignor.).....						
Scott, Jacob R., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for buffing articles of leather.....	694,431	Mar. 4	184	40, 41	98	1752
Scott, Jacob R., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for buffing articles of leather.....	699,248	May 6	208	49	99	1216
Scott, Jacob R., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Counter-skiving machine.....	703,617	July 1	428	99 100	100	85
Scott, James A., assignor of one-half to C. E. Fuller, Somerville, Mass. Folding stand or easel.....	702,093	June 10	1348	307	99	2402
Scott, James T., Buffalo, Ala. Press for baling hay, cotton, &c.....	698,229	Apr. 22	3459	760	99	782
Scott, James W., Warren, Me. Combined stop and alarm mechanism for carding-machines.....	706,261	Aug. 5	498	106 107	100	1217
Scott, John, Edinburgh, Scotland. Rotary plow.....	700,247	May 20	2219	506	99	1655
Scott, John, Edinburgh, Scotland. Rotary cultivator.....	701,512	June 3	413	94	99	2193
Scott, John, Edinburgh, Scotland. Rotary plow.....	716,943	Dec. 30	4562	990	101	2862
Scott, John E., Philadelphia, Pa. Punching-machine.....	706,601	Aug. 12	1167	259	100	1367
Scott, John F., Evansville, Ind., assignor of one-half to I. G. Reading, Chicago, Ill. Railway-car body.....	712,557	Nov. 4	742	173	101	1051
Scott, John G., and J. C. Brecker, Girardville, Pa. Conveyer-chain.....	708,924	Sept. 9	1714	396	100	2345
Scott, John R., Oakland, assignor of one-half to E. L. Cook, Diamond Springs, Cal. Oil-burning-furnace attachment.....	716,486	Dec. 23	3581	782	101	2630
Scott, Joseph A., Yonkers, N. Y. Water-tube boiler.....	700,243	May 20	2920	506 507	99	1665
Scott, Lothian K., Farnborough, England. Sight for ordnance.....	712,420	Oct. 28	3886	851 852	101	854
Scott, Melville, Simpsonville, Md. Wrench.....	711,233	Oct. 14	1619	347	101	351
Scott-Moncrieff, William D., Westminster, England. Apparatus for distributing liquids over filter-beds.....	710,525	Oct. 7	256	57	101	52
Scott, Oliver P., Chicago, Ill. Incubator.....	709,630	Dec. 23	3191	712	100	2883
Scott, Paul S., Brooklyn, N. Y. Fastener for show-cases.....	716,118	Dec. 16	28532	628	101	2464
Scott, Richard C., Liverpool, England. Aging or treating spirits.....	704,389	July 8	1910	414	100	403
Scott, Robert, San Jose, Cal. Quicksilver-furnace.....	699,822	May 13	1341	311	99	1465
Scott, Robert, San Jose, Cal. Quicksilver-furnace.....	710,897	Oct. 7	940	206	101	191
Scott, Robert L., Arlington, Cal. Ladder.....	704,123	July 8	1419	304	100	299
Scott, Robert W. (See Williams, Louis N. D., assignor.).....						
Scott, Robert W., et al. (See Bellis, David C., assignor.).....						
Scott, Robert W., Philadelphia, Pa. Gun-cartridge.....	694,894	Mar. 4	1069	237	98	1938
Scott, Robert W., Philadelphia, assignor of one-half to L. N. D. Williams, Ashbourne, Pa. Firing multishot guns.....	694,674	Mar. 4	647	142	98	1849
Scott, Robert W., Philadelphia, assignor of one-half to L. N. D. Williams, Ashbourne, Pa. Gun-cartridge.....	694,675	Mar. 4	650	142	98	1849
Scott, Robert W., Philadelphia, assignor of one-half to L. N. D. Williams, Ashbourne, Pa. Gun-cartridge.....	694,595	Mar. 4	1072	237	98	1938
Scott, Robert W., Philadelphia, assignor of one-half to L. N. D. Williams, Ashbourne, Pa. Gun-cartridge.....	694,896	Mar. 4	1073	237	98	1939
Scott, Robert W., Philadelphia, assignor of one-half to L. N. D. Williams, Ashbourne, Pa. Cartridge.....	703,839	July 1	854	188	100	171
Scott, Robert W., Philadelphia, assignor of one-half to L. N. D. Williams, Ashbourne, Pa. Gun-cartridge.....	703,840	July 1	857	188	100	171
Scott, Robert W., Philadelphia, assignor of one-half to L. N. D. Williams, Ashbourne, Pa. Shaft-coupling.....	707,453	Aug. 19	2762	626	100	1719
Scott, Robert W., Philadelphia, assignor of one-half to L. N. D. Williams, Ashbourne, Pa. Knitting-machine needle.....	707,980	Aug. 26	3851	865	100	1954
Scott, Robert W., Philadelphia, assignor of one-half to L. N. D. Williams, Ashbourne, Pa. Knitted fabric.....	709,825	Sept. 23	3531	795	100	2754
Scott, Robert W., Philadelphia, assignor of one-half to L. N. D. Williams, Ashbourne, Pa. Ribbed knitted fabric.....	709,826	Sept. 23	3532	796	100	2754
Scott, Robert W., Philadelphia, assignor of one-half to L. N. D. Williams, Ashbourne, Pa. Knitted fabric.....	709,827	Sept. 23	3533	796	100	2754
Scott, Robert W., Philadelphia, assignor of one-half to L. N. D. Williams, Ashbourne, Pa. Ribbed knitted fabric.....	709,828	Sept. 23	3534	796	100	2754
Scott, Robert W., Philadelphia, assignor of one-half to L. N. D. Williams, Ashbourne, Pa. Rib-knitting machine.....	709,829	Sept. 23	3536	797	100	2755
Scott, Robert W., Philadelphia, assignor of one-half to L. N. D. Williams, Ashbourne, Pa. Rib-knitting machine.....	716,767	Dec. 23	4112	903 904	101	2743
Scott, Robert W., Philadelphia, assignor of one-half to L. N. D. Williams, Ashbourne, Pa. Explosive charge for guns or other uses.....	716,768	Dec. 23	4117	904	101	2744
Scott, Robert W., Philadelphia, L. N. D. Williams, Ashbourne, and H. Swinglehurst, Philadelphia, Pa., assignors to said Scott and Williams. Knitting-machine.....	697,953	Apr. 15	2908	642 643 644	99	648
Scott-Snell, Charles, Saltash, England. Producing draft.....	710,370	Sept. 30	4578	1032 1033	100	2986
Scott, Stacy W., Bondurant, assignor of one-half to H. C. Windsor, Des Moines, Iowa. Windmill-oiling apparatus.....	716,292	Dec. 16	3181	696	101	2530
Scott, Thomas, Bendigo, Victoria, Australia. Cloth-cleaning attachment for gyratory sifters.....	695,842	Mar. 18	2806	639	98	2332
Scott, Thomas H., Port Huron, Mich. Fountain shaving-brush.....	715,881	Dec. 16	2376	527	101	2362
Scott-Uda, Mary B. (See Bontempi, Augusto, assignor.).....						
Scott, Walter, Plainfield, N. J. Slip-sheet-introducing mechanism.....	698,745	Apr. 29	4457	983 984	99	1008
Scott, Walter, Plainfield, N. J. Printing-press.....	704,124	July 8	1421	304 305	100	299
Scott, Walter, Plainfield, N. J. Sheet-delivery mechanism.....	708,741	Sept. 9	1387	305 306	100	2265



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Scott, Walter, Plainfield, N. J. Delivery mechanism .....	708,836	Sept. 9	1551	1354 1355	100	2310
Scott, Walter, Plainfield, N. J. Delivery mechanism .....	709,140	Sept 16	2254	513	100	2474
Scott, Walter, Plainfield, N. J. Printing-machine .....	709,515	Sept. 23	2967	1662	100	2698
Scott, Walter, Plainfield, N. J. Printing and folding machine .....	711,742	Oct. 21	2389	569	101	570
Scott, Walter A. (See Küber, William A., assignor.) .....						
Scott, Wilber H., Ottawa, Canada. Bottle-capping machine .....	697,072	Apr. 15	2405	535	99	540
Scott, William, Medford, Mass. Flushing device .....	713,161	Nov. 11	1319	297	101	1185
Scott, William G., Rockford, Minn. Cultivator .....	698,363	Apr. 29	4039	893	99	918
Scott, William M., Philadelphia, Pa., assignor to Cutter Electrical & Manufacturing Company. Automatic magnetic circuit-breaker .....	704,974	July 15	3068	659	100	654
Scott, William R., Fort Worth, Tex. Ballast-spreading car .....	707,649	Aug. 26	3164	712 713	100	1819
Scovill Manufacturing Company. (See Eddy, George W., assignor.) .....						
Scovill Manufacturing Company. (See Stanley, Frederick E., assignor.) .....						
Seranton Glass Mfg. Company. (See Levick, Edward A., assignor.) .....						
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Supervisory signal for telephone-switchboards. (Reissue) .....	12,007	July 1	1121	243	100	222
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Supervisory signal for telephone-exchange systems .....	716,293	Dec. 16	3182	696	101	2531
Scrimgeour, William, Jr., and J. Bunte, Portsmouth, Va., assignors of one-half to R. A. Carter, Pittsburg, Pa. Machine for welding links .....	692,366	Feb. 4	265	64	98	854
Scripps, William. (See Lee, Charles F., assignor.) .....						
Scrivener, John. (See Stearn, Thomas M., assignor.) .....						
Scrivenes, James H., Cleveland, Ohio. Sash-fastener .....	699,580	May 6	860	201	99	1352
Scroggins, Allen C., Jr., et al. (See Patrick, William P., assignor.) .....						
Scruggs, William M., Monteagle, Tenn. Gun-cartridge .....	700,983	May 27	3639	886	99	1973
Scrymser, L. C., et al. (See Lewis, Charles F., assignor.) .....						
Scullin-Gallagher Iron & Steel Company. (See Gallagher, Thomas M., assignor.) .....						
Scully, John S. (See Wright, William J., assignor.) .....						
Scuri, Alessandro, B. L. Leuzer, Belgium. Hair-clipper .....	704,300	July 8	1911	414	100	403
Se Dite Gilardoni Fils, A. Brault et Cie. (See Gilardoni, Xavier F., assignor.) .....						
Seabrook, Percy B. H., London, England. Clamp particularly adapted for securing fittings to the frames of cycles .....	702,160	June 10	1586	359	99	2452
Seabury, George J., New York, N. Y. Tube-compressor .....	715,429	Dec. 9	1480	320	101	2157
Seabury, Gorcham T., et al. (See Krotz, Linford E., assignor.) .....						
Seabury, Jacob F., and C. Lutz, Newark, N. J. Disinfecting device for sink-drains .....	699,982	May 13	1663	382	99	1531
Seabury & Johnson. (See Lovis, Henry C., assignor.) .....						
Seabury, Robert H., et al. (See Delgrande, Antonio, assignor.) .....						
Seacoy, Margaret. (See Fisher and Taylor, assignors.) .....						
Seager, George B. M., et al. (See Murphy, John F., assignor.) .....						
Seager, George B. M., Adrian, Mich. Dress-shirt .....	692,367	Feb. 4	266	64	98	854
Seagrave, Frederic S., Columbus, Ohio. Aerial ladder .....	691,878	Jan. 28	2866	646	98	649
Seagrave, Frederic S., Columbus, Ohio. Aerial ladder .....	691,879	Jan. 28	2867	646	98	649
Seagrave, Frederic S., and H. P. Elliott, Columbus, Ohio; said Elliott assignor to said Seagrave. Antifrictional bearing .....	707,650	Aug. 26	3170	718	100	1820
Seagren, Fred E., Curlew, Iowa. Calk-cutting machine .....	708,925	Sept. 9	1715	396	100	2346
Seaman, Albert R., Connellsville Township, Pa. Automatic fire-lighter .....	703,841	July 1	850	188	100	172
Seaman, Claude D., assignor of one-half to C. C. Gardiner, Topeka, Kans. Electric railway-signal .....	709,032	Sept. 16	1994	455	100	2419
Seaman, Elizabeth C. (See Carswell, Edwin H., assignor.) .....						
Seaman, Elizabeth C. (See De Lacy, Peter, assignor.) .....						
Seaman, Elizabeth C. (See Keiner, Henry A., assignor.) .....						
Seaman, Elizabeth C. (See Reynolds, Henry S., assignor.) .....						
Seaman, Elizabeth C., New York, N. Y. Milk-can .....	697,553	Apr. 15	2183	485	99	406
Seaman, Elizabeth C., New York, N. Y. Garbage or refuse can .....	703,745	July 1	686	132	100	137
Seaman, Elizabeth C., assignor to Iron Clad Manufacturing Company, New York, N. Y. Garbage or refuse can .....	703,711	July 1	619	138	100	122
Seaman, John W., Bay City, Mich. Device for stringing electric wires .....	706,786	Aug. 12	1530	340 341	100	1445
Seamless Rubber Co. (See Menges, Edward E., assignor.) .....						
Seamless Steel Tubes Company. (See McIntosh and Thornburgh, assignors.) .....						
Seanon, William T., and E. M. Kepple, Goff, Pa. Car-coupling .....	709,686	Sept. 23	3256	730	100	2696
Seaneust, Charles J., Silverlake, Wash. Mortising-machine .....	706,458	Aug. 5	922	200	100	1302
Searight, Frank A., and G. J. Stevens, Union City, Mich. Building-block .....	708,499	Sept. 2	898	203	100	2164
Searing, Hudson R., Bayonne, N. Y. Hydrocarbon-burner .....	713,697	Nov. 18	2394	534	101	1420
Searle, Frederick, assignor to Loring Coes & Company, Incorporated, Worcester, Mass. Construction of wrenches .....	699,719	May 13	1134	265	99	1421
Searle, Harry, assignor to Coes Wrench Company, Worcester, Mass. Construction of wrenches .....	705,874	July 29	4924	1071	100	1056
Searle, Harry, assignor to Coes Wrench Company, Worcester, Mass. Construction of wrenches .....	705,875	July 29	4925	1071	100	1057
Searle, John C., Hilea Kau, Hawaii. Device for smokelessly heating insect-powder .....	692,075	Jan. 28	3229	729	98	720
Searle, John Q. C., deceased, Chicago, Ill.; J. E. Searle, executrix. Railway-car-heating apparatus .....	707,361	Aug. 19	2508	586	100	1684
Searle, Julia E., executrix. (See Searle, John Q. C.) .....						
Searle, Willard W., Troy, N. Y. Making collars .....	713,807	Nov. 18	2596	578 579	101	1464
Searles, Charles P., assignor to W. D. Sommers, Columbus, Ohio. Clothes-wringer .....	708,000	June 24	3179	733	99	2817
Searles, Charles P., and D. J. Minton, Columbus, Ohio. Non-refillable bottle .....	705,309	July 22	3786	821	100	815
Searls-Manufacturing Company. (See Dickinson, William A., assignor.) .....						
Sears, Charles, Cleveland, Ohio. Alignment mechanism for type-writers .....	691,180	Jan. 14	1528	345	98	393
Sears, Charles, Cleveland, Ohio. Type-writer .....	706,838	Aug. 12	1961	372	100	1474
Sears, Charles, Cleveland, Ohio. Carriage mechanism for type-writers .....	710,393	Sept. 30	4621	1042	100	2095
Sears, Charles, Cleveland, Ohio. Carriage mechanism for type-writers .....	693,744	Feb. 18	2898	637	98	1441
Sears, Clarence M., Botsford, Conn. Gage .....	705,451	July 22	4083	888	100	876
Sears, Edward H., assignor to Collins Co., Collinsville, Conn. Wrench-handle .....	707,524	Aug. 19	2892	654	100	1746
Sears, Frank M., assignor of one-half to A. Chaloupka, Charlevoix, Mich. Con-actuated vending machine .....				655		
Sears, Richard H., Cleveland, Ohio. Automatic winding mechanism for spring-motors .....	690,882	Jan. 7	969	220	98	204
Sears, Robert B., assignor to H. C. Mudd, Sacramento, Cal. Egg-preserving safe .....	699,418	May 6	357	127	99	1289
Sears, Willard T. (See Reynolds and Sears.) .....						
Seat, Norman F., Madisonville, Ky. Knockdown stove .....	692,718	Feb. 4	885	2-2	98	99-0

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Name, residence, and invention.	No.	Date.	Monthly volume		Official Gazette.	
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Seaver, Frank B., Johnson Township, Clinton county, Ind. Drag and harrow-pulverizer combined.	702,084	June 10	1349	307	90	2402
Seaver, John W. (See Wellman, Seaver, and Morgan.)						
Seaver, John W. (See Wellman, Seaver, and Wellman.)						
Seaver, John W., assignor to Wellman-Seaver-Morgan Engineering Company, Cleveland, Ohio. Manufacturing coke.	707,525	Aug. 19	2896	635	100	1747
Seaver, John W., assignor to Wellman Seaver Engineering Company, Cleveland, Ohio. Ore storage and delivery bin.	716,769	Dec. 23	4122	904	101	2745
Sebastian, Daniel S., assignor of one-half to F. Bernier, Wallace, Idaho. Brake mechanism.	693,163	Feb. 11	1778	390	98	1188
Sebbas, Solomon, and A. Cohen, Capetown, Cape Colony. Photographic shutter.	708,837	Sept. 9	1555	355	100	2311
Sebillot, Amédée M. G., Paris, France. Apparatus for making sulfuric acid.	710,717	Oct. 7	609	128	101	125
Sebillot, Amédée M. G., Paris, France. Furnace for separating zinc from ores.	700,249	May 20	2321	508	99	1666
Seebree, Robert M., Kansas City, Kans. Horse-protector.	710,217	Sept. 30	4320	971	100	2333
Secker, Robert C., Southampton, N. Y. Door catch and lock.	707,169	Aug. 19	2224	500	100	1605
Secor, Theodosius F., New York, N. Y. Ice-box cover.	698,588	Mar. 18	2883	477	98	2351
Security Coin Box Company. (See Williams, John, assignor.)	698,564	Apr. 29	4010	891	99	218
Seddon, Edward H., Brooklands, England. Hand-wheel.	702,381	June 10	1969	449	99	2329
Seddon, Edward H., Brooklands, England. Pneumatic tire.	715,305	Dec. 9	1257	267	101	2113
Seddon, Frederick J., Manchester, England. Pneumatic tire.	692,368	Feb. 4	267	65	98	854
Seddon, William D., Paterson, N. J. Diamond-cutting tire.	712,155	Oct. 28	3460	747	101	753
Seddon, William D., Paterson, N. J. Battery.	704,125	July 8	1429	305	100	301
Sedgewick, H. G. (See Foote, Walter E., assignor.)						
Sedgwick, Frederick, assignor to E. L. Krag, Chicago, Ill. Loose-leaf ledger.	701,092	May 27	3844	882	99	2019
Sedgwick, Frederick, assignor to International Battery Company, Chicago, Ill. Storage battery.	711,537	Oct. 21	2204	479	101	488
Sedjaczek, Konstantin, Klembowka, Saeław, Russia. Drawing off and measuring liquor from diffusion vessels.	696,290	Mar. 25	3518	788	98	2403
See, Alonzo B., et al. (See Cowperthwait, Allan, assignor.)						
See, Alonzo B., et al. (See Lindstrom, Nils O., assignor.)						
See, Charles E., Charlevoix, Mich. Ladder.	708,670	Sept. 9	1205	275	100	2237
See, James W. (See Hooven and See.)						
Seebach, Reinhardt, New York, N. Y. Picture-frame.	696,502	Apr. 1	190	46	99	45
Seeburger, John, assignor to J. H. Jones, Watervliet, N. Y. End panel and seat-post for open cars.	709,516	Sept. 23	2972	662	100	2639
Seeburger, John, assignor to J. H. Jones, Watervliet, N. Y. End panel for open-car seats and the seat-post with which it connects.	709,517	Sept. 23	2973	663	100	2639
Seeds, Harry E., et al. (See Rush, Stephen P., assignor.)						
Seefels, William, London, England. Fire-resisting partition, wall, or the like.	694,583	Mar. 4	472	102	98	1813
Seefeis, William, London, England. Fire-resisting staircase.	696,593	Apr. 1	191	46	99	45
Seeger, John B., Dallas, Tex. Crucible burner.	710,718	Oct. 7	614	128	101	125
Seekamp, Herman D., and A. H. Hampe, assignors to W. F. Little and said Seekamp, St. Louis, Mo. Machine for forming and applying tags on plug-tobacco.	711,882	Oct. 21	2850	632	101	627
Seel, Eugene, Stuttgart, Germany, assignor to Farbenfabriken of Elberfeld Co., New York, N. Y. Alolin derivative and making same.	698,746	Apr. 29	4101	888	99	1149
Seeley, Aaron A., and C. Silet, Chicago, Ill. Automatic cut-out.	695,497	Mar. 18	2102	488	98	221
Seeley, J. S., et al. (See Brown, Thomas R., assignor.)						
Seeley, James E., assignor to W. W. Sweeney Co., Los Angeles, Cal. Artificial limb.	692,710	Feb. 4	887	212	98	921
Seeley, James E., assignor to W. W. Sweeney Co., Los Angeles, Cal. Strong light body and producing same.	706,498	Aug. 5	928	218	100	1316
Seelye, Nelson H., Winchester, Mass. Bearing for shafts of machines.	707,167	Aug. 19	2258	500	100	1605
Seelye, Nelson H., Winchester, Mass. Reciprocating-beam machine.	707,168	Aug. 19	2229	500	100	1605
Seeman, John J., assignor of one-half to L. E. Porter, Barstow, Cal. Chain wrench.	710,719	Oct. 7	615	129	101	126
Seeman, Richard, Ealing, London, England. Apparatus for treating copper ores.	702,490	June 17	2199	501	99	2598
Seerup, William T., Pocatontos, Ark. Folding rocking-chair.	697,025	Apr. 8	1236	275	99	281
Seessle, Charles, Irvington, N. J., assignor of one-half to G. Seessle, New York, N. Y. Fire-escape.	704,126	July 8	1430	306	100	301
Seessle, Gustav. (See Seessle, Charles, assignor.)						
Seevers, Byron V. (See Mendenhall, Albert, assignor.)						
Seger, Harry G., et al. (See Pitney, Arthur H., assignor.)						
Segner, Charles B. (See Segner, Harry H. and C. B.)						
Segner, Harry H. and C. B., Hagerstown, Md. Governor for explosive-engines.	717,508	Dec. 30	5633	1223	101	3088
Segner, Harry H. and C. B., assignors of one-third to A. S. Dornblaser, Hagerstown, Md. Sparker for explosive-engines.	706,859	Aug. 12	1664	372	100	1475
Seguy, Paul C., Paris, France. Insulating-conduit for conductors of electric tramways.	691,495	Jan. 21	2198	479	98	480
Schmer, Theodor. (See Ehrhardt, Ludwig, assignor.)						
Seib Bros. (See Seib, Simon H. M., assignor.)						
Seib, Simon H. M., assignor to Seib Bros., Jersey City, N. J. Truck for masts or flag-staffs.	691,076	Jan. 28	3041	684	98	683
Seiberling, Frank A. (See Saunders, Addison T., assignor.)						
Seiberling, Frank A., Akron, Ohio. Solid-rubber vehicle-tire.	700,837	May 27	3385	777	99	1923
Seiberling, Frank A., Akron, Ohio. Detachable pneumatic tire.	715,420	Dec. 9	1481	320	101	2158
Seibert, Charles E., Baltimore, Md. Felt boot.	710,925	Oct. 7	690	218	101	202
Seibert, Joseph F., Reading, Pa. Curtain-bracket.	712,858	Nov. 4	743	172	101	1051
Seibert, Leonard, St. Paul, Minn. Attachment for window-sash.	710,811	Oct. 7	803	173	101	164
Seibert, Nicholas, Malden, Mass. Sanding mechanism for cars.	716,944	Dec. 30	4562	991	101	2862
Seidel, Bruno. (See Wishart and Seidel.)						
Seidel, Paul, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Indigo paste.	692,720	Feb. 4	888	.....	98	981
Seidel, Paul, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen, Germany. Making indigo from indol.	698,328	Apr. 22	3624	.....	99	816
Seidel, Paul, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen, Germany. Indigo-diacetic acid and making same.	699,581	May 6	861	.....	99	1352
Seifert, Bruno E., Radebeul, C. Philipp, and M. H. Gmeiner, Dresden, assignors to Chemische Fabrik von Heyden, Actiengesellschaft, Radebeul, Germany. Making indigo and intermediate products.	714,042	Nov. 18	3066	.....	101	1564
Seifert, John W., assignor of one-half to L. Eikel, Waco, Tex. Pneumatic conveyer.	705,310	July 22	3787	821	100	815
Seifert, John W., assignor of two-thirds to A. P. Matthews and J. Eikel, Waco, Tex. Cotton-gin feeder and cleaner.	715,699	Dec. 9	1980	443	101	2258



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Seifert, Paul M. (See Fitzgerald, Seifert, and Kimmel.)						
Seifried, Samuel J., assignor to Chicago Writing Machine Company, Chicago, Ill. Type-writer hammer mechanism	704,218	July 8	1595	1345	100	334
Seiler, Eugen, Berlin, Germany. Incandescent gas-burner	712,731	Nov. 4	487	115	101	990
Seiler, Hubert, Dusseldorf, Germany. Apparatus for heating or cooling liquids	697,554	Apr. 15	2184	485	99	496
Seiler, Joseph, South Norwalk, Conn. Fishing device	700,093	May 13	1850	1430	99	1509
Seiler, Philipp. (See Keller and Seiler.)						
Seiler, Philipp, assignor, by mesne assignments, to A. M. V. Schermerhorn, S. S. Butler, and L. I. Wilson, Chicago, Ill. Match-box	714,749	Dec. 2	188	38	101	1875
Seim, William. (See Brewington, Henry S., assignor.)						
Seim, William F. (See Brewington, Henry S., assignor.)						
Seiss, George J. (See Westenfeld, Herman E. F., assignor.)						
Seither, Jacob, Keokuk, Iowa. Flue-stop	707,022	Aug. 12	1950	437	100	1531
Seither, Jacob, Keokuk, Iowa. Cream-separator	707,023	Aug. 12	1952	438	100	1531
Seitz, Clinton H., Shrewsbury, Pa. Automatic air-brake coupling	701,628	June 8	641	140	99	2242
Seitz, Frank B., Buffalo, N. Y. Tripod-support	714,043	Nov. 18	3068	679	101	1564
Seitz, Frederick A., Newark, N. J. Sparking igniter for explosive-gas engines	696,201	Mar. 25	3519	788	98	2493
Seitz, Howard K., and C. H. Hannigan, Glenrock, Pa. Tension device for loom-shuttles	693,164	Feb. 11	1779	390	98	1189
Seitzinger, Monroe W., Reading, Pa. Combined draw-bar and shaft-support for vehicles	712,732	Nov. 4	488	115	101	999
Selby, Starr & Company. (See Bolus, William G., assignor.)						
Seldin, Charles, Baltimore, Md. Combined district telegraph and telephone signal	704,127	July 8	1432	306	100	301
Seldner, Jonas J., assignor to Universal Centrifugal Dryer Company, Baltimore, Md. Treating grease-containing material	692,922	Feb. 11	1287	283	98	1001
Sely, Charles A. (See Lewis and Sely.)						
Sely, Charles A., assignor of one-half to W. H. Lewis, Roanoke, Va. Air-brake	694,328	Feb. 25	4085	909	98	1691
Selfridge, William, executor. (See Angerer and Samuel.)						
Selig, Otto, and C. Guntrum, Brooklyn, N. Y. Converting wort into beer	694,584	Mar. 4	473	102	98	1814
Selig, Otto, and C. Guntrum, Brooklyn, N. Y. Apparatus for converting wort into beer	694,585	Mar. 4	475	103	98	1814
Selig Polyscope Company. (See Selig, William N., assignor.)						
Selig, William N., assignor to Selig Polyscope Company, Chicago, Ill. Machine for exhibiting and taking pictures	712,462	Oct. 28	2760	1866	101	869
Seligman, Joseph, assignor of one-half to S. Herman, New York, N. Y. Dress-shield fastener	711,234	Oct. 14	1621	348	101	332
Selke, Willy A. C., Berlin, Germany. Apparatus for copying models	706,450	Aug. 5	924	200	100	1302
Selke, Willy A. C., Berlin, Germany. Photoculture apparatus	706,860	Aug. 12	1665	1373	100	1475
Selkirk, Alexander. (See Mergenthaler and Selkirk.)						
Selkirk, David, Brooklyn, N. Y. Propeller	709,801	Sept. 23	3488	784	100	2744
Selkirk, James, Janesville, Wis. Bridle	698,747	Apr. 29	4461	984	99	1000
Sell, William E., assignor to Gilliam Manufacturing Company, Canton, Ohio. Knee or arm brot	714,044	Nov. 18	3070	679	101	1565
Sella, Carlo, Biella, Italy. Composition for oiling fiber and making same	704,939	July 15	2905	100		642
Selleck, Wallace L., Platteville, Wis. Hinge for supporting and operating doors	694,432	Mar. 4	186	41	98	1752
Selleck, William J., Riverside, Conn. Conveyor-belt	705,876	July 29	4927	1071	100	1057
Sellers, W. F. (See Phillips, Luther M., assignor.)						
Sellers, William, Haverhill, Mass. Trolley-wheel	697,892	Apr. 15	2802	619	99	637
Selman, Fred E., St. Louis, Mo. Smoke-abating device	698,145	Apr. 22	3301	723	99	748
Sellmayer, John M., Rochester, N. Y. Buffering-machine	698,912	Feb. 25	3230	712	98	1583
Selph, Ben ami, Hillsboro, Ohio. Harvester-reel	700,094	May 13	1851	431	99	1569
Seltz, Claus, Seattle, Wash. Bookkeeping	709,725	Sept. 23	3321	746	100	2711
Seltzer, Cyrus J., Philadelphia, Pa. Tip for atomizers and nebulizers	692,798	Feb. 4	1038	233	98	1008
Seltzer, Cyrus J., Philadelphia, Pa. Apparatus for drying	693,746	July 1	688	152	100	137
Seltzer, Cyrus J., assignor to G. Woodward, Philadelphia, Pa. Atomizer and nebulizer	692,435	Feb. 4	461	107	98	893
Seltzer, Cyrus J., assignor to G. Woodward, Philadelphia, Pa. Combined atomizer and nebulizer	692,552	Feb. 4	591	139	98	918
Seltzer, Cyrus J., assignor to G. Woodward, Philadelphia, Pa. Atomizer	692,721	Feb. 4	888	203	98	881
Seltzer, Cyrus J., assignor to G. Woodward, Philadelphia, Pa. Atomizer	692,722	Feb. 4	890	203	98	881
Seltzer, Cyrus J., Philadelphia, Pa., assignor to Davidson Rubber Company, Boston, Mass. Atomizer	700,894	May 27	3386	777	99	1923
Selz, Andrew J., New Rochelle, N. Y. Game or puzzle	701,093	May 27	3846	883	99	2010
Selzer, Lawrence M., Akron, Ohio. Golf-ball	716,945	Dec. 30	4564	991	101	2863
Sémat, Laurent, Cairo, Egypt. Means for operating signals automatically at level crossings, &c	695,498	Mar. 18	2166	489	99	2202
Semm, Fred F., Charles City, Iowa. Pump attachment	712,010	Oct. 28	3141	687	101	701
Semonite, Annie, Brooklyn, N. Y. Toilet-case	694,497	Mar. 4	290	67	98	1774
Simple, James C. (See Drake and Simple.)						
Simple, John B., Sewickley, Pa. Projectile	694,032	Feb. 25	3414	768	98	1573
Simple, John B., Sewickley, Pa. Projectile	707,024	Aug. 12	1953	438	100	1532
Simple, John B., Sewickley, Pa. Projectile	708,411	Sept. 2	740	166	100	2131
Sindelbach, Edward, Terre Haute, Ind. Vehicle-hub	701,767	June 3	872	193	99	2290
Sindlein, Andreas, St. Louis, Mo. Molding and compressing machine	711,883	Oct. 21	2864	634	101	628
Saneeca Falls Manufacturing Company. (See Davis, Adelbert S., assignor.)						
Saney, Henry W. (See Heckert, William, assignor.)						
Saney, Joshua C., Waxahachie, Tex. Percolator	698,913	Feb. 25	3233	712	98	1527
Seng Company. (See Gay, Edgar A., assignor.)						
Seng Company. (See Seng, Wendelin P., assignor.)						
Seng, Joseph, Allegheny, Pa. Carriage-pole	708,784	Sept. 9	1424	327	100	2285
Seng, Joseph, Allegheny, Pa. Hobby-horse	710,218	Sept. 30	4321	971	100	2083
Seng, Wendelin P., assignor to Seng Company, Chicago, Ill. Platform-rockers	714,750	Dec. 2	190	38	101	1876
Sengelaub, Günther, Berlin, Germany. Harness	698,329	Apr. 22	3025	800	99	816
Senn, Preston L., Vaulchuse, S. C., assignor to Draper Company, Hopedale, Mass. Apparatus for extracting screw-bolts, &c	701,948	June 10	1188	271	99	2372
Searns, Consuelo A., Merrifield, Va. Disabling lock for ordnance	716,946	Dec. 30	4565	991	101	2863
Serafinski, Anthony, Jersey City, N. J. Means for sustaining and adjusting window shades	710,070	Sept. 30	4036	910	100	2872
Sergeant, Henry C., Westfield, N. J., and W. Prellwitz, Easton, Pa., assignor to Ingersoll-Sergeant Drill Company, New York, N. Y. Regulating device for air-compressors	696,504	Apr. 1	192	46.47	99	45
Serpollet, Leon, Paris, France. Automatic proportional feeding device	702,491	June 17	2201	501	99	2599
Serr, Joseph J. (See Middleton, George W., assignor.)						
Serrell, John A., Bayonne, N. J., assignor to American Steam Heating Specialty Company. Valve device or fitting	694,093	Feb. 25	3486	768	98	1573

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Serrell, John A., Bayonne, N. J., assignor to Warren Webster and Company. Valve device for steam-heating systems.....	700,569	May 20	2840	652	99	1791
Serrell, John A., Bayonne, N. J., and J. A. Donnelly, Brooklyn, N. Y., assignors to American Steam Heating Specialty Company. Valve device for steam-heating systems.....	696,202	Mar. 25	3522	788	98	2494
Sessions, Frank L., Oakpark, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Magnetic clutch.....	700,830	May 27	3387	777	99	1923
Sessions, Frank L., Oakpark, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Armature.....	704,975	July 15	3070	660	100	636
Sessions, Irone H., Washington, D. C. Fastening device for articles of women's wear.....	715,516	Dec. 9	1637	354	101	2188
Setbacken, Julius and P. J. Cynthiana, Ind. Fire-escape.....	701,094	May 27	3547	883	99	2019
Setbacken, Peter J. (See Setbacken, Julius and P. J.)						
Setbacken, Peter J. Cynthiana, Ind. Gate-latch.....	714,954	Dec. 2	625	133	101	1961
Sette, Edward, Ironridge, Wis. Fluid-compressor.....	706,861	Aug. 12	1667	374	100	1475
Settergren, Bernhard, Chicago, Ill. Mixer or vaporizer for hydrocarbon-engines.....	697,555	Apr. 15	2185	486	99	496
Settle, George E. (See Smith, Charles H., assignor.)						
Setzler, Samuel. (See Schellenbach, Theodore, assignor.)						
Seumenicht, Johana A. F. C., Lagerdorf, Germany. Shaft-furnace for burning cement, &c.....	699,852	May 13	1412	326	99	1478
Severs, Robert M., New York, N. Y. Machine for preparing paper for stereotype-matrices.....	695,230	Mar. 11	1723	382	98	2092
Severy, Melvin L., Arlington Heights, Mass. Printing-press.....	712,090	Oct. 28	3301	1223 724	101	731
Sewall, Stephen A. (See Abbee and Sewall.)						
Seward, Simon E. V., assignor to Seward Trunk and Bag Company, Petersburg, Va. Trunk.....	696,846	Apr. 1	845	194 185	99	178
Seward Trunk and Bag Company. (See Seward, Simon E. V., assignor.)						
Sewell, Charles S. (See Mitchell and Sewell.)						
Sewell, George B., Detroit, Mich. Automatic release for brake-cylinders.....	693,452	Feb. 18	2342	512	98	1327
Sewell, Jonathan, Anacosta, Mont. Automatic elevator or hoist.....	713,698	Nov. 18	2397	534	101	1430
Seyfarth, Gustav, Brooklyn, N. Y. Split holder and puller.....	692,369	Feb. 4	263	65	98	854
Sewell, William E., Detroit, Mich. Disinfecting-cabinet for barbers' use, &c.....	694,675	Mar. 4	653	143	98	1850
Sexton, Ernest H., Sandyhill, N. Y. Split collar.....	709,366	Sept. 16	2637	531	100	2557
Sexton, Harry, New York, N. Y. Snap-hook.....	691,669	Jan. 21	2461	551	98	548
Sexton, Michael H., Utica, N. Y. Coffee-pot.....	704,586	July 15	2288	497	100	494
Sexton, Patrick J. (See Aregood, John V., assignor.)						
Seybold, Edward, and C. E. Mountford, assignors to Eclipse Office Furniture Company of Ottawa, Limited, Ottawa, Canada. Handle.....	690,622	Jan. 7	489	106	98	105
Seybold, Edward, and C. E. Mountford, assignors to Eclipse Office Furniture Company of Ottawa, Limited, Ottawa, Canada. Handle.....	692,486	Feb. 4	463	107	98	893
Seybold, Seward R. (See Klingensmith, Hiram E., assignor.)						
Seybolt, Edward. (See Malette, Frederick A., assignor.)						
Seyd, Harold O. (See Hanrott and Seyd.)						
Seyer, Robert W., and F. Pratt, Indianapolis, Ind. Fluid-pressure regulator.....	707,651	Aug. 26	3172	714	100	1821
Seyfarth, Gustav, Brooklyn, N. Y. Gravity-level.....	704,219	July 8	1596	346	100	334
Seyler, Carl P., et al. (See Auxer, Perrie H., assignor.)						
Seyler, Carl P., and P. H. Auxer, Cleveland, Ohio. Cable-hanging hook.....	694,677	Mar. 4	655	143	98	1850
Seymour, Albert P., Syracuse, N. Y. Socket for incandescent lamps.....	716,487	Dec. 23	3582	782	101	2630
Seymour, Charles, assignor to Defiance Machine Works, Defiance, Ohio. Spoke-throat-ing machine.....	692,076	Jan. 28	3230	729 730 731	98	720
Seymour, James A. (See McIntosh and Seymour.)						
Seymour, John, Toronto, Canada. Gas and air mixer.....	704,762	July 15	2590	559 560	100	555
Seymour, John, Toronto, Canada. Machine for mixing gas and air.....	704,763	July 15	2593	561	100	556
Seymour, John, Toronto, Canada. Air and gas mixer.....	704,764	July 15	2595	562	100	557
Seymour, Ralph C., South Orange, N. J., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Anti-offset device.....	699,853	May 13	1413	326 107	99	1478
Seymour, Ralph C., South Orange, N. J., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Machinery for folding, packing, and stacking sheets of paper, &c.....	706,262	Aug. 5	503	106 109	100	1217
Seymour, Ralph C., New York, N. Y., assignor to C. B. Cottrell & Sons Co., Jersey City, N. J., and Stonington, Conn. Web-folding machine.....	706,862	Aug. 12	1668	374 375	100	1476
Seymour, Ralph C., South Orange, N. J., assignor to C. B. Cottrell & Sons Company, New York, N. Y., and Stonington, Conn. Machinery for cutting and folding paper or other fabrics.....	710,030	Sept. 30	4038	910 911	100	2872
Seymour, Ralph C., South Orange, N. J., assignor to C. B. Cottrell & Sons Company, New York, N. Y., and Stonington, Conn. Machinery for cutting and folding paper, &c.....	715,517	Dec. 9	1638	355 356	101	2188
Seymour, William S., Philadelphia, Pa. Manufacture of tubes.....	711,180	Oct. 14	1514	326	101	331
Seymour, William S., Philadelphia, Pa. Blank-forming machine for tubes.....	711,442	Oct. 14	1597	433 434	101	431
Seymour, William S., Philadelphia, Pa., assignor to Pennsylvania Tube Company, Philadelphia, Pa., and Camden, N. J. Umbrella-tip.....	693,745	Feb. 18	2899	638	98	1442
Seymour, William S., Philadelphia, Pa., assignor to Pennsylvania Tube Company, Philadelphia, Pa., and Camden, N. J. Umbrella-runner retainer.....	704,128	July 8	1434	307	100	302
Seymour, Harry A., assignor of one-half to J. Lowenthal, Chicago, Ill. Adjustable stand for mirrors, tables, or the like.....	695,951	Mar. 25	3007	680	98	2388
Serlozza, Alfonso, New York, N. Y. Fire-escape.....	708,838	Sept. 9	1557	356	100	2311
Shaber, Jacob, Reading, Pa. Armor-plate.....	712,605	Nov. 4	276	65	101	956
Shabley, Charles, Wessington Springs, S. D. Harrow.....	704,587	July 15	2290	497	100	494
Shackelford, William O. (See Daniel and Shackelford.)						
Shackelford, Gibbon C., Allegheny, Pa. Blast-furnace.....	710,120	Sept. 30	4125	980 981 982	100	2889
Shade, Albert A., assignor of one-half to E. H. Moore, Chicago, Ill. Electric furnace.....	713,923	Nov. 18	2823	627 628	101	1511
Shaeffer, Charles D., Canon City, Colo. Type-writing machine.....	692,370	Feb. 4	270	65	98	855
Shafer, Charles T., assignor to Western Manufacturing Company, Springfield, Ohio. Tool-holder.....	708,176	Sept. 2	331	79	100	2049
Shafer, Fruit R., Burlington, Wash. Ventilating-stove.....	717,290	Dec. 30	5246	1139	101	3010
Shafer, Howard S., Nazareth, Pa. Type-writing machine.....	698,864	Apr. 29	4732	1040	99	1070
Shafer, Ira, Afton, Iowa. Twine-cutter.....	703,544	July 1	192	46	100	40
Shafer, Riley A., Bellefontaine, Ohio. Bicycle.....	693,914	Feb. 25	3234	713	98	1527
Shaffer, Clares, Indianapolis, Ind. Disposit-table.....	702,035	June 10	1351	308	99	2402
Shaffer, Francis F., Cumberland, Md. Railway-car truck.....	693,672	Feb. 18	2765	609	98	1414
Shaffer, Francis F., Cumberland, Md. Car-brake.....	697,283	Apr. 8	1681	375 376	99	378



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Shaffer, Ira E., Mount Vernon, N. Y. Therapeutic electrical apparatus	706,602	Aug. 12	1172	260	100	1369
Shaffer, Ira E., Mount Vernon, N. Y. Therapeutic electrical apparatus	717,035	Dec. 30	4752	1030	101	2903
Shaffer, John Q., Pittsburg, Pa. Manufacturing glass tombstones, &c.	706,863	Aug. 12	1675	375	100	1476
Shaffner, Samuel C., Mobile, Ala. Signal apparatus	699,582	May 6	862	201	99	1352
Shaine, Boris M., New York, N. Y. Umbrella-tip retainer	702,492	June 17	2203	502	99	2599
Shainsey, Fred J., Dayton, Ohio, assignor to Krentler-Arnold Hinge Last Company, Detroit, Mich. Last	706,490	Aug. 5	989	218	100	1317
Shaler, Frank L., Hebron, Ohio. Cleaner for shaking-sieves	699,025	Apr. 29	4993	1105	99	1125
Shallenberger, Charles S., Milwaukee, Wis., assignor, by mesne assignments, of one-half to M. J. Hurley, St. Louis, Mo. Metallic railway-tie	701,513	June 3	413	94	99	2193
Shallenberger, Charles S., Milwaukee, Wis., assignor, by mesne assignments, of one-half to M. J. Hurley, St. Louis, Mo. Combined spring and friction draft-rigging	701,514	June 3	414	94, 95	99	2193
Shallenberger, Charles S., Milwaukee, Wis., assignor, by mesne assignments, of one-half to M. J. Hurley, St. Louis, Mo. Car-bolster	701,515	June 3	416	95	99	2193
Shallenberger, Charles S., Milwaukee, Wis., assignor of one-half to E. S. Marshall, St. Louis, Mo. Tie-plate	707,362	Aug. 19	2596	586	100	1684
Shallenberger, Charles S., Milwaukee, Wis., assignor of one-half to E. S. Marshall, St. Louis, Mo. Rail-fastener for metallic ties	710,371	Sept. 30	4580	1033	100	2986
Shallenberger, Charles S., Milwaukee, Wis., assignor of one-half to M. J. Hurley, St. Louis, Mo. Truck side frame	713,510	Nov. 11	2047	458	101	1334
Shallenberger, Charles S., Milwaukee, Wis., assignor of one-half to M. J. Hurley, St. Louis, Mo. Flexible car-truck	716,294	Dec. 16	3184	697	101	2531
Shallenberger, Charles S., Jacksonville, Ill., assignor, by mesne assignments, of one-half to M. J. Hurley, St. Louis, Mo. Dust-guard for journal-boxes	701,629	June 3	642	140	99	2242
Shallenberger, Jesse J., Weldon, Ill. Compound-tool	713,808	Nov. 18	2598	579	101	1464
Shallow, Edward F., West Philadelphia, Pa. Water-gage for boilers	701,516	June 3	417	95	99	2194
Shambaugh, Elias J., Batavia, N. Y. Cloth-fender	695,000	Mar. 11	1274	281	98	1999
Shanafelt, George W. (See Hornaday, Edson, assignor.)						
Shanahan, John D., Buffalo, N. Y. Dumping-car	691,814	Jan. 28	2758	621	98	626
Shanahan, John W., and F. C. Mason, assignors to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Bearing for carpet-sweepers	717,458	Dec. 30	5541	1204	101	3069
Shanahan, Thomas B., Gloversville, N. Y. Automatic trolley-catcher	697,674	Apr. 15	2408	535	99	541
Shandley, John C., Fairmont, W. Va. Whiffletree-coupling	697,556	Apr. 15	2186	486	99	496
Shanger, Charles H., et al. (See Ambrosius, Carl A., assignor.)						
Shanger, Jesse E., et al. (See Ambrosius, Carl A., assignor.)						
Shank, Augustus W., assignor to E. A. Hall and W. C. Hollar, Detroit, Mich. Street-car fender	699,769	May 13	1236	287	99	1441
Shank, Tilden, Glass, Ala. Hay-press	712,538	Oct. 28	3719	818	101	817
Shannon, Albert M., and W. Bobbitt, Laporte, Tex. Stock-weaner	693,165	Feb. 11	1781	390	98	1189
Shannon, Irvin M., et al. (See Furman, John C., assignor.)						
Shannon, Lemuel A., assignor of two-thirds to S. P. McDonald and I. Childs, Cullman, Ala. Automatic stop mechanism for screw-presses	692,723	Feb. 4	891	203	98	981
Sharkie, William, and D. Crawford, Glasgow, Scotland. Steam-generator	701,403	June 3	211	46, 47	99	2151
Sharman, Frederick. (See Pirie and Sharman.)						
Sharp, Albert P. (See Boorman and Sharp.)						
Sharp, Archibald, London, England. Rolling packing-tube	691,190	Jan. 14	1531	345	98	334
Sharp, Archibald, London, England. Continuously-variable-speed gear	692,077	Jan. 28	3236	731	98	722
Sharp, Archibald, London, England. Cycle	692,078	Jan. 28	3240	732	98	722
Sharp, Archibald, London, England. Handle for operating cycle-brakes	711,443	Oct. 14	2000	434	101	431
Sharp, Bird H., Victoria, Tex. Game-cards	706,938	Aug. 12	1173	200	100	1369
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Harrow	694,113	Feb. 25	3617	800	98	1694
Sharp, Edward J., Alhambra, Cal. Oil-burner	710,898	Oct. 7	942	207	101	191
Sharp, Francis M., and L. E. Partridge, Okla. Ter. Cotton-chopper	701,768	June 3	873	194	99	2291
Sharp, Herbert D., Berlin Heights, Ohio. Saw filing and setting device	711,078	Oct. 14	1310	283	101	285
Sharp, James A., assignor of one-half to C. F. Craver, Harvey, Ill. Cord-carrier for self-binding harvesters	714,407	Nov. 25	3781	835	101	1727
Sharp, John W., Sidney, Ark. Drag for gathering mussels	702,530	June 10	1737	392	99	2482
Sharp, Judson C., Salt Springsville, N. Y. Fire-escape	695,001	Mar. 11	1275	281	98	1999
Sharp, Lee C. (See Rubin and Sharp.)						
Sharp, Lee C., Omaha, Nebr. Can	715,163	Dec. 2	962	213	101	2037
Sharp, Lewis E. (See Sharp, Francis M. and L. E.)						
Sharp, Morris T., Mount Vernon, Ohio. Meat-cutting block	698,627	Feb. 18	2685	593	98	1397
Sharp, Samuel J., assignor of three-fourths to H. E. Dunlap, L. F. and H. E. Stifel, Wheeling, W. Va. Lock for overhead-trolley tracks	701,517	June 3	419	95	99	2194
Sharp & Smith. (See Weder, Paul J., assignor.)						
Sharp, William E., Chicago, assignor of one-half to G. B. Robbins, Hinsdale, Ill. Journal-box	693,073	Feb. 11	1576	343	98	1149
Sharp, William E., assignor to Armour & Company, Chicago, Ill. Double-deck car	704,709	July 15	2486	536	100	536
Sharpe, David, South Hadley Falls, Mass. Screen apparatus for paper-pulp	694,678	Mar. 4	656	143	98	1851
Sharpe, Fred. (See Palmer and Sharpe.)						
Sharpe, John E., Oneida, assignor of one-half to N. D. Bartie, Guilford, N. Y. Insulator-supporting arm	700,570	May 20	2841	652	99	1792
Sharpe, Joseph K., Jr., assignor to Indiana Manufacturing Company, Indianapolis, Ind. Fan for pneumatic stackers	714,525	Nov. 25	3998	884	101	1770
Sharpe, Joseph K., Jr., assignor to Indiana Manufacturing Company, Indianapolis, Ind. Fan for pneumatic stackers	714,526	Nov. 25	3999	886	101	1770
Sharpe, William, et al. (See MacCallum, John, Jr., assignor.)						
Sharples Company. (See Beach, Milo D., assignor.)						
Sharples, David T., Westchester, Pa. Feed-regulating mechanism for liquids	699,249	May 6	210	50	99	1217
Sharples, David T., Westchester, Pa. Apparatus for tempering cream, &c.	711,000	Oct. 14	1151	254	101	253
Sharples, Philip M., Westchester, Pa. Centrifugal liquid-separator	690,883	Jan. 7	971	290	98	204
Sharples, Philip M., Westchester, Pa. Combined tempering-var, churn, and butter-worker	706,118	Aug. 5	213	45	100	1100
Sharpless, Lydia C., Philadelphia, assignor to C. Chambers, Jr., Overbrook, Pa. Apparatus for mixing dough	710,619	Oct. 7	432	90	101	86
Sharpneck, Eliel L., Chicago, Ill. Apparatus for the treatment of ores	697,178	Apr. 8	1401	333	99	336
Sharpneck, Frank A., et al. (See Sharpneck, William S., assignor.)						
Sharpneck, William S., assignor to J. D. Ross and E. W. Brooks, Chicago, Ill. Centrifugal pump. (Reissue)	12,001	June 17	2970	684	99	2758

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Sharpneck, William S., assignor of seven-ninths to O. G. Orr and F. A. Sharpneck, Chicago, Ill. Grain elevator and transmitter.	715,906	Dec. 9	1258	267	101	2114
Sharps, Herbert E., assignor to O. Turney, Fairfield, Conn. Automatically-operated musical instrument.	696,762	Apr. 1	694	157	99	148
Sharps, Herbert E., and W. F. Cooper, Bridgeport, Conn. Automatic spring-winding mechanism for mechanical musical-instrument devices.	697,754	Apr. 15	2552	568	99	571
Sharps, Leone S., assignor of one-half to E. Reynolds, Brooklyn, N. Y. Combined awning and window-shade.	695,240	Mar. 11	1724	382	98	2993
Sharras, William E., trustee. (See Schmidt, Julius H., assignor.)						
Sharrard, James W., and T. W. Lloyd, Atchison, Kans. Mechanical movement.	699,823	May 13	1342	312	99	1465
Shartle, Charles W., Middletown, Ohio. Fastening for divided wheels.	713,955	Dec. 2	627	132	101	1961
Sharum, Stephen A., Bob. Ind. Ter. Metallic railway-tie.	705,452	July 22	4084	888	100	877
Sharwell, Joseph G., Newark, N. J. Trolley connection and guard for electric cars.	717,291	Dec. 30	5248	1139	101	3010
Shatford, Philip, Dalmuir, Scotland, assignor to Singer Manufacturing Company. Waxed-thread sewing-machine.	715,491	Dec. 9	1483	320	101	2158
Shatto, James W., Lorimor, Iowa. Sash support and lock.	710,720	Oct. 7	616	129	101	126
Shattuc, Clark E. (See Shattuck, Cranmer S. and C. E.)						
Shattuc, Cranmer S. and C. E., Chicago, Ill. Vapor-burner.	708,926	Sept. 9	1718	397	100	2346
Shattuck Manufacturing Company. (See Shattuck, William P., assignor.)						
Shattuck, Orville F., Denver, Colo. Solar attachment for transit instruments.	705,970	July 29	5095	1110	100	1091
Shattuck, William P., assignor to Shattuck Manufacturing Company, Minneapolis, Minn. Calculator.	717,125	Dec. 30	4912	1065	101	2937
Shattuck, William P., assignor to Shattuck Manufacturing Co., Minneapolis, Minn. Adding and listing machine.	717,126	Dec. 30	4916	1066	101	2938
Shaw, Arthur M., Gallon, Ohio. Bicycle driving-gear.	697,675	Apr. 15	2410	536	99	541
Shaw, Arthur M., Gallon, Ohio. Curtain-fastener.	701,630	June 3	643	141	99	2243
Shaw, Arthur M., Gallon, Ohio. Chair attachment.	710,526	Oct. 7	259	58	101	53
Shaver, Henry L. (See Howarth, Fred A., assignor.)						
Shaver, Joseph, Milwaukee, Wis. Sand-blast-controlling apparatus.	709,448	Sept. 16	2788	627	100	2588
Shaver, William E., Weldon, Ill. Combined reel and barrel-carrier.	695,241	Mar. 11	1726	382	98	2993
Shaw, A. B., West Melford, Mass. Automatic gas-lighting mechanism.	704,391	July 8	1313	415	100	403
Shaw, Alexander B., et al. (See Dillon, Lybran J., assignor.)						
Shaw, Arthur D. (See Dodge and Shaw.)						
Shaw, Ashby A., and K. A. Stevens, Cambridge, Mass. Means for producing dental amalgam.	715,216	Dec. 2	1082	232	101	2953
Shaw, Bert J., assignor to T. D. Hanrotty, Warren, Ind. Automatic tightener for stuffing-boxes.	692,371	Feb. 4	271	65	98	855
Shaw, Campbell B., Kirkwood, assignor to Shaw Manufacturing Company, St. Louis, Mo. Automatic alarm-valve for fire-extinguishing apparatus.	705,544	July 22	4323	935	100	921
Shaw, Charles H., Brooklyn, N. Y. Photographic film.	709,053	Sept. 16	2000	456	100	2420
Shaw, Charles H., Denver, Colo. Pneumatic hammer.	712,438	Oct. 28	3921	858	101	861
Shaw, Charles H., Brooklyn, assignor to R. H. Thompson, New York, N. Y. Sulfur candle.	698,748	Apr. 29	4462	934	99	1010
Shaw, Charles H., Brooklyn, assignor to Aeolian Company, New York, N. Y. Perforated music-sheet for automatic musical instruments.	709,054	Sept. 16	2002	456	100	2420
Shaw, Charles K. and W. T. Bellport, N. Y. Oyster-tongs.	711,351	Oct. 14	1842	401	101	399
Shaw, Chester J. (See Fox and Shaw.)						
Shaw, Clifford. (See Young and Shaw.)						
Shaw & Cocker Company. (See Cocker, Thomas W., assignor.)						
Shaw & Cocker Machine Company. (See Shaw, James, assignor.)						
Shaw, Daniel D., Denver, Colo. Water-heater.	710,528	Oct. 7	263	58	101	53
Shaw, Daniel D., Denver, Colo. Motive power for operating systems of pumps.	715,614	Dec. 9	1822	404	101	2225
Shaw, David A., E. Roos, and H. B. Pelton, Mishawaka, Ind. Forming bellows folds in felted boots or fabrics.	710,527	Oct. 7	261	58	101	53
Shaw, Edgar, Swampscott, Mass. Dish-washing machine.	693,746	Feb. 18	2901	638	98	1442
Shaw, Edward, London, England. Vending-machine.	714,615	Nov. 25	4164	921	101	1804
Shaw, Frederick H., Chester, Pa. Attachment for watering-cans.	712,606	Nov. 4	277	66	101	956
Shaw, George E., Cincinnati, Ohio. Pulp-compression apparatus.	693,570	Feb. 18	2570	567	98	1373
Shaw, George E., Cincinnati, Ohio. Collapsible mandrel for pulp-compressing apparatus.	698,571	Feb. 18	2573	568	98	1374
Shaw, Gilbert E. (See Rexroth, John J., assignor.)						
Shaw, James, assignor to Shaw & Cocker Machine Company, Paterson, N. J. Reel.	708,263	Sept. 2	492	113	100	2081
Shaw, James C., W. J., and B. E., Bessemer, Ala. Paint.	706,119	Aug. 5	215		100	1160
Shaw, James H. (See Baldwin, Chester M., assignor.)						
Shaw, John E., Litchfield, Minn. Means for preventing clogging of corn-binder packer.	696,203	Mar. 25	3323	788	98	2494
Shaw, John J., trustee. (See Appleton, Charles J., assignor.)						
Shaw, John P., Aberdeen, Miss. Baling-press.	707,802	Aug. 26	3516	794	100	1889
Shaw, John W., Berryessa, Cal. Washer-fastener.	697,368	Apr. 8	1513	406	99	405
Shaw Manufacturing Company. (See Shaw, Campbell B., assignor.)						
Shaw Manufacturing Company. (See Shaw, Samuel H., assignor.)						
Shaw, Nathaniel H., Boston, Mass. Automatic lighter or extinguisher for gas-lamps.	691,917	Jan. 28	2931	660	98	662
Shaw, Philip E., Nottingham, England. Measuring instrument.	693,628	Feb. 18	2687	593	98	1397
Shaw, Robert E. (See Shaw, James C., W. J., and R. E.)						
Shaw, Robert S., Wanstead, England. Traveling type-writing machine.	702,433	June 17	3204	502	99	2599
Shaw, Samuel, Newton, Mass. Damper for fireplaces.	697,893	Apr. 15	2503	620	99	628
Shaw, Samuel H., Philadelphia, assignor to Shaw Manufacturing Company, Easton, Pa. Attachment for ink-roller mechanism of printing-presses.	714,045	Nov. 18	3071	680	101	1565
Shaw, Thomas P., and J. Fee, assignors to Gas Appliance Manufacturing Company, Limited, Montreal, Canada. Gas-furnace.	711,010	Oct. 14	1152	255	101	253
Shaw-Walker Company. (See Miller, Adam H., assignor.)						
Shaw-Walker Company. (See Tobey, Fred W., assignor.)						
Shaw-Walker Company. (See Wigle, Eli, assignor.)						
Shaw, William T. (See Shaw, Charles K. and W. T.)						
Shaw, William T., Hoosick Falls, N. Y. Hay-tender fork.	714,751	Dec. 2	191	33	101	1876
Shaw, Willie J. (See Shaw, James C., W. J., and R. E.)						
Shawver, Charles I., Springfield, Ohio. Machine for cutting picture-mats.	709,116	Sept. 16	2123	487	100	2448
Shawver, Charles I., assignor to A. B. Nolte, Springfield, Ohio. Throttle-valve.	717,292	Dec. 30	5249	1140	101	3010
Shay, Ephraim, Harbor Springs, Mich. Locomotive-truck.	706,604	Aug. 12	1175	260	100	1369



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Shay, Jeremiah M., Fall River, Mass., assignor of one-half to A. B. Pitkin Machinery Company, Providence, R. I. Welt-replenishing mechanism for looms.	696,657	Apr. 1	480	111 112 113 114	99	103
Shea, Francis A., et al., administrators. (See Reece, John.)						
Shea, Michael P., New London, Conn. Bottle-weighing machine	705,877	July 29	4928	1072	100	1057
Shea, Smith & Company. (See Kell, William H., assignor.)						
Shea, Thomas A., assignor to G. B. Sloan, Jr., Oswego, N. Y. Car-spring	714,732	Dec. 2	192	39	101	1876
Shear, Louis S., Chicago, Ill. Machine for making dishes or trays	693,572	Feb. 18	2575	569 570 571	98	1374
Shear, William A., et al. (See Webb, Henry F., assignor.)						
Shearer, John A., Schenectady, N. Y. Steel spring-tire for vehicles	712,793	Nov. 4	488	116	101	999
Shearer, Robert. (See Belfield, Shearer, Findlay, and Belfield.)						
Shearman, Henry C., Providence, R. I. Spring-tire for vehicle-wheels	707,169	Aug. 19	2230	501	100	1606
Shears, Edward C., Lakota, N. D. Barrel-head fastening	708,412	Sept. 2	741	166	100	2131
Shears, Sidney S., New York, N. Y. Sanitary water fountain and cooler	690,896	Jan. 7	999	226	98	210
Sheble, Horace, Philadelphia, Pa. Talking-machine cabinet	701,769	June 3	874	194	99	2291
Sheckells, George W., Baltimore, Md. Shirt-vest	704,392	July 8	1917	415	100	484
Shedd, Orlando B., St. Johnsville, N. Y. Bow-facing oar	691,080	Jan. 14	1340	303	98	294
Shedenhelm, Robert, Des Moines, Iowa. Animal-shears	711,129	Oct. 14	1391	302	101	304
Shedlock, Alfred, Jersey City, N. J., assignor to Cushman and Denison, New York, N. Y. Paper clip or fastener	703,485	July 1	194	46	100	41
Shedley, Dennis, and M. W. Iles, Denver, Colo. Roasting-furnace	711,352	Oct. 14	1844	401	101	399
Sheddy, Matthew J. (See Clements, William G., assignor.)						
Sheddy, Patrick, and A. Campbell, Los Angeles, Cal. Liquid-delivery apparatus	704,129	July 8	1435	307	100	302
Sheddy, Patrick, and A. Campbell, Los Angeles, Cal. Circulator for locomotive-cylinders	704,130	July 8	1438	308	100	303
Sheehan, Patrick C., trustee. (See Sword, Charles D., assignor.)						
Sheehan, William E., Albany, N. Y. Roller for paper-making machinery	691,011	Jan. 14	1222	276	98	270
Sheeley, Fred, Fleischmanns, N. Y. Horseshoe	707,454	Aug. 19	2763	626	100	1719
Sheen, Daniel R., Peoria, Ill. Bow-facing rowing mechanism	710,048	Dec. 16	2377	527	101	2362
Sheermesser, John, New York, N. Y. Fire-plug	712,859	Nov. 4	744	173	101	1051
Sheets, Joshua S., assignor to J. E. Reyburn, Philadelphia, Pa. Car-brake	712,811	Oct. 28	3144	987	101	702
Sheffield Car Company. (See Matthews, John G., assignor.)						
Sheffield, James A. D. and J. C. Houston Co., Tex. Cultivator-plow	695,499	Mar. 18	2168	489	98	2202
Sheffield, John C. (See Sheffield, James A. D. and J. C.)						
Sheffield, Lucius T., deceased, New York, N. Y.; M. J. Sheffield, executrix. Metallic railway tie	692,372	Feb. 4	272	66	98	855
Sheffield, Mary J., executrix. (See Sheffield, Lucius T.)						
Sheftall, Charles H., assignor of one-half to M. Hilborn, New York, N. Y. Sad-iron	700,444	May 20	2609	597	99	1744
Shelk, Frank P., New York, N. Y. Support for hand-drills	693,166	Feb. 11	1782	390	98	1189
Shelain, Frank G., assignor to himself and F. R. Brown, Rockford, Ill. Mechanism for transversely severing webs of knit fabrics	714,825	Dec. 2	343	75, 76	101	1906
Shelby Electric Company. (See Chaillet, Adolphe A., assignor.)						
Shelby, Evan, West Lafayette, Ind. Telephone or telegraph system	700,380	May 20	2495	572	99	1719
Shelby Spring Hinge Company. (See Stump and Brucker, assignors.)						
Sheldon, Edgar H., Chicago, Ill. Jointing device	713,511	Nov. 11	2048	459	101	1334
Sheldon, Edward P., Brooklyn, N. Y. Machine for wrapping pamphlets or similar articles	699,419	May 6	559	128	99	1399
Sheldon, John R., Watertown, Mass. Vaporizer	694,679	Mar. 4	659	144	98	1852
Sheldon, Philo B., Erie, Pa., assignor to Philo Burt Manufacturing Company, Jamestown, N. Y. Body-brace	709,055	Sept. 16	2003	456	100	2421
Shell, William H., Glencoe, Okla. Ter. Draft-equalizer	711,538	Oct. 21	2206	479	101	488
Shellabarger, Edward F., Dekalb, Ill. Barbed-wire machine	704,710	July 15	2489	537 538 539	100	536
Shellabarger, George H., Bartow, Fla. Saw-tooth wrench	705,451	July 22	4085	888 889	100	877
Shelly, William F., Newcastle, Ind. Door for mail-wagons	706,694	Aug. 12	1340	298	100	1406
Shelters, Ernest E., Lowell, assignor to Draper Company, Hopedale, Mass. Shuttle for looms	714,408	Nov. 25	3782	835	101	1728
Shelton, Charles L., Columbus, Ohio. Packing-case	712,100	Oct. 28	3303	724	101	732
Shelton Company. (See Howe, Albert W., assignor.)						
Shelton, George W., Morrill, Kans. Trousers clamp and hanger	704,940	July 15	2996	641	100	642
Shelton, James, assignor of one-half to J. Shelton, Jr., Towanda, Pa. Stocking	691,927	Jan. 14	1805	410	98	391
Shepard, Charles H., North Plainfield, N. J. Pneumatic tire	713,351	Nov. 11	1731	390	101	1269
Shepard, Charles H., Brooklyn, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine	697,676	Apr. 15	2411	536 537	99	541
Shepard, Charles H., Brooklyn, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine	700,445	May 20	2611	597	99	1744
Shepard, Charles H., Brooklyn, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine	702,748	June 17	2675	615 616	99	2696
Shepard, Charles H., Brooklyn, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine	710,812	Oct. 7	804	173	101	165
Shepard, Charles H., Brooklyn, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine	712,607	Nov. 4	278	66	101	956
Shepard, Charles U., Summerville, S. C. Withering tea-leaves	716,770	Dec. 23	4124	905	101	2745
Shepard and Company, Sidney. (See Foster and Ferber, assignors.)	694,795	Mar. 4	891	198	98	1900
Shepard, George B., Ogdensburg, N. Y. Matrix-making machine	711,593	Oct. 21	2302	501 502 503 504	101	508
Shepard, George B., Ogdensburg, N. Y. Matrix-making machine	713,246	Nov. 11	1486	396 397 398	101	1218
Shepard, James P., Pennsboro, W. Va. Rotary engine	697,026	Apr. 8	1238	276	99	262
Shepard, Joseph H., Toronto, Canada. Advertising street and station indicator	692,023	Feb. 11	1289	283	98	1092
Shepard, Sylvander C., Hannibal, Mo. Rotary engine	701,404	June 3	213	48	99	2151
Shephard, Henry F., Brooklyn, N. Y. Dumping-vehicle	700,571	May 20	2842	632 633	99	1792
Shepherd, Edwin W., Chicago, Ill. Trap	694,680	Mar. 4	661	144	98	1852
Shepherd, Gilbert C., Brooklyn, N. Y. Detachable-sheet book and binder therefor	716,647	Dec. 23	3913	833	101	2701

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Shepherd, John H. (See Montgomery, Walter R., assignor.)						
Shepherd, Joseph A., Brooklyn, N. Y. Lock for detachable binders	716,947	Dec. 30	4567	992	101	2863
Shepherd, Joseph H., Dover, N. J. Machine for reinforcing collars, &c	713,247	Nov. 11	1496	1330	101	1218
Shepherd, Joseph H., Dover, N. J. Punching and printing machine	716,586	Dec. 23	3794	824	101	2075
Shepherd, Robert L., and H. B. Bradford, Jr., New Orleans, La. Printing-machine	699,420	May 6	571	180	99	1293
Shepler, Pius L., Toledo, Ohio. Mowing-machine	707,981	Aug. 26	3852	865	100	1954
Sheppard, Eustace G., assignor of one-half to Vernst Electric Light, Limited, London, England. Electric-incandescent-lamp holder	701,949	June 10	1190	271	99	2373
Sheppard, Franklin L., Philadelphia, Pa. Stove-door hinge	707,025	Aug. 12	1955	438	100	1532
Sheppard, Howard R., Philadelphia, Pa. Vaporizing and igniting device for gas or explosion motors	694,681	Mar. 4	602	145	98	1832
Sheppard, James M., Jr., Columbia, Tenn. Non-refillable bottle	696,275	Mar. 25	3660	818	98	2522
Sheppard, John L., Charleston, S. C. Drum or barrel head	697,027	Apr. 8	1239	276	99	282
Sheppard, John L., Charleston, S. C. Compress for cotton	711,353	Oct. 14	1846	1402	101	399
Shepherd, Frederick W., New York, N. Y. Fireman's shield	702,096	June 10	1352	308	99	2403
Sher, Louis, Atlantic City, N. J. Means for guiding and propelling steamships	694,433	Mar. 4	187	41	98	1752
Sherardizing Syndicate. (See Cowper-Coles, Sherard, assignor.)						
Sherck, Sophia, et al. (See Loffi, George, assignor.)						
Sherer, Anna B. (See Sherer, George W., assignor.)						
Sherer, George W., assignor to A. B. Sherer, Rockford, Ill. Ice-cream disher.	697,677	Apr. 15	2415	537	99	542
Sherer, Joseph S., assignor to American Suspender Company, Aurora, Ill. Suspender.						
Sherer, Joseph S., assignor to American Suspender Company, Aurora, Ill. Suspender.	695,701	Mar. 18	2554	578	98	2280
Sheridan, Annie, New York, N. Y. Hair-curler	717,036	Dec. 30	4753	1030	101	2903
Sheridan, George W., Bridgeport, Conn. Puzzle or toy	716,345	Dec. 16	3186	687	101	2532
Sheridan, William H., Fittsfield, Mass. Knitting-machine	712,439	Oct. 28	3924	859	101	861
Sherk, Henry H., Pasadena, Cal. Means for automatic control of motor-vehicles	699,390	May 13	1562	360	99	1511
Sherlock, Walter A., San Francisco, Cal. Ampere-hour meter	699,583	May 6	866	202	99	1353
Sherman, Clifton W., Bellevue, assignor to Pennsylvania Car Wheel Company, Pittsburg, Pa. Bottom-pouring ladle	714,046	Nov. 18	3075	680	101	1566
Sherman, Frederic W., Park City, Utah. Journal-box	698,565	Apr. 20	4042	894	99	918
Sherman, Frederic W., Park City, Utah, assignor to Gates Iron Works, Chicago, Ill. On pump distributor	717,127	Dec. 30	4924	1067	101	2939
Sherman, George H., Detroit, Mich. Vehicle running-gear	695,674	Mar. 18	2477	562	98	2266
Sherman, George R., Providence, R. I. Thermostat	701,631	June 8	644	141	99	2443
Sherman, George W., Fall River, Mass. Ellipsograph	695,655	Mar. 18	2479	562	98	2266
Sherman, John H., Beaverdam, Wis. Hernal truss	715,863	Dec. 16	2380	528	101	2363
Sherman, John S., and G. H. Harms, Detroit, Mich. Vapor-burner	705,453	July 22	4084	888	100	877
Sherman, John S., and G. H. Harms, Detroit, Mich. Vapor-burner	695,889	Mar. 18	2991	655	98	2351
Sherman, John W., assignor to himself and J. L. Sherman, New York, N. Y. Theatrical appliance						
Sherman, John W., assignor to himself and J. L. Sherman, New York, N. Y. Theatrical appliance	700,381	May 20	2497	572	99	1720
Sherman, Louie A., Kansas City, Mo. Target-trap	696,763	Apr. 1	696	157	99	148
Sherman, Morris, Chattanooga, Tenn. Grate-bar for furnaces	699,824	May 13	1344	312	99	1465
Sherman, Richard E., assignor to J. S. Murray, Chicago, Ill. Horse-starter	713,699	Nov. 18	2393	534	101	1420
Sherman, William H., New York, N. Y. Bottle stopper	708,264	Sept. 2	492	113	100	3081
Sherman, Willis S., Milwaukee, Wis. Boring-machine	708,177	Sept. 2	333	80	100	2049
Sherwin, Edward J. (See Wadsworth and Sherwin.)						
Sherwood, Earl, Brooklyn, N. Y. Fender for vehicles	713,162	Nov. 11	1320	298	101	1185
Sherwood, Earl, Brooklyn, N. Y. Car-fender	713,163	Nov. 11	1326	298	101	1186
Sherwood, George R., Kearney, Nebr. Stamp-canceling machine	702,494	June 17	2206	502	99	2600
Sherwood, Harry B., Ashbourne, Pa., assignor to Automatic Scale Company, Washington, D. C. Price-scale						
Sherwood Manufacturing Company. (See Hart, Thomas J., assignor.)						
Sherwood, William E., Oneida, N. Y. Measuring-can	706,460	Aug. 5	924	201	100	1303
Shetterly, George A. (See Imel, John, assignor.)						
Shewlin, George F. (See Baker, Shewlin, and Baker.)						
Shew, Matt, Cambridge City, Ind. Cultivator	701,950	June 10	1191	271	99	2373
Shibe, Benjamin F., Bala, Pa. Leg-guard	696,764	Apr. 1	699	158	99	149
Shick, William F., R. J. Lehman, and I. J. Walker, Duquesne, Pa. Valve for heating-furnaces	705,618	July 29	4466	968	100	964
Shickle, Harrison and Howard Iron Company. (See Carr, William M., assignor.)						
Shields, Frederick. (See Montgomery, William G., assignor.)						
Shields, James C., et al. (See Lewis, Albert H., assignor.)						
Shields, John W., Greensburg, Ind. Beet-cultivator	697,028	Apr. 8	1241	276	99	282
Shields, Nelson T. (See Jernigan, George F., assignor.)						
Shields, Patrick T., San Antonio, Tex. Fireproof floor	714,047	Nov. 18	3077	680	101	1566
Shields, William S., Chicago, Ill. Automatic device for discharging liquid-tanks	703,090	June 24	3346	769	99	2850
Shiley, William F., assignor of one-half to C. A. Haslett, Philadelphia, Pa. Weighing-tongs	697,894	Apr. 15	2803	620	99	628
Shilling, Edward C., Columbus, Ohio. Non-refillable bottle	698,330	Apr. 22	3626	801	99	816
Shillito, Stewart. (See Crain, Sidney L. and W. S., assignors.)						
Shulton, George T., Greymouth, New Zealand. Metallic device for fastening up mail-matter	713,352	Nov. 11	1733	390	101	1269
Shimer, Elmer S. (See Pardoe and Shimer.)						
Shimer, Elmer S., Milton, Pa. Expandible cutter-head	691,191	Jan. 14	1532	346	98	334
Shimer, Elmer S., Milton, Pa. Cutter-head	698,331	Apr. 22	3628	801	99	817
Shimer, Elmer S., Milton, Pa. Plate-shift	701,095	May 27	3548	884	99	2019
Shimer, Elmer S., Milton, Pa. Line-spacing mechanism for type-writers	701,096	May 27	3549	884	99	2020
Shimer, Elmer S., and H. A. Pardoe, assignors to S. J. Shimer and Sons, Milton, Pa. Grinding-machine	698,315	Apr. 22	3604	795	99	811
Shimer, Milton J., Freemansburg, Pa. Holder for blank cartridges	707,026	Aug. 12	1956	438	100	1532
Shimer & Sons, Samuel J. (See Ettinger, Joel, assignor.)						
Shimer and Sons, Samuel J. (See Pardoe and Shimer, assignors.)						
Shimer and Sons, Samuel J. (See Shimer and Pardoe, assignors.)						
Shinn, Della E., Brooklyn, N. Y. Filter	702,495	June 17	2210	503	99	2601
Shinn, Joseph A., Pittsburg, Pa. Artificial sand and producing same	707,170	Aug. 19	2241	501	100	1610
Shinn, Martin E., assignor to F. J. Herbert, Chicago, Ill. Carpet-stretcher	708,974	Sept. 9	1823	420	100	2366
Shinn, Martin E., and F. J. Herbert, Chicago, Ill.; said Shinn assignor to said Herbert.						
Wire-stretcher	707,526	Aug. 19	2298	655	100	1747



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Shinn, William N. (See Doby, Joseph U., assignor.)						
Shippe, William H., and J. P. Gleeson, Scottsdale, Pa. Rail-joint	693,808	Feb. 18	3006	665	98	1464
Shipman, Henry J., Brooklyn, N. Y. Bowling-alley	709,802	Sept. 23	3189	787	100	2744
Shipley, Jack J., assignor of one-half to E. J. Cowart, Pilotgrove, Tex. Wagon brake	691,670	Jan. 21	2461	551	98	548
Shipley, James T., Detroit, Mich. Shirt	695,629	Mar. 18	3136	550	98	2257
Shipley, John W. (See Ham and Shipley.)						
Shipley, Malcolm A., Philadelphia, Pa. Fishing-reel	699,825	May 13	1345	312	99	1465
Shipman, Madison D., et al. (See Reynolds, Samuel D., assignor.)						
Shipman, Madison D., Dekalb, Ill. Stud member	692,373	Feb. 4	274	66	98	855
Shipman, Madison D., Dekalb, Ill. Wire fencing	707,455	Aug. 19	2764	626	100	1719
Shipman, Madison D., Dekalb, Ill. Button and making same	707,456	Aug. 19	2764	626	100	1719
Shipman, Madison D., Dekalb, Ill. Wire fence	707,457	Aug. 19	2765	627	100	1719
Shipway, Cornelius J., and H. May, Meningie, South Australia, Australia. Sheep-shears	715,615	Dec. 9	1824	405	101	2225
Shirley, Ulysses A., Lincoln, Neb. Tender for traction-engines	693,074	Feb. 11	1578	344	98	1150
Shirk, William, Panama, Iowa. Wrench	701,951	June 10	1194	272	99	2374
Shirley, Joseph J. (See Balou and Shirley.)						
Shirreffs, John, Greenwich, assignor to A. W. Maconochie, London, England. Ejecting device for stamping machines	701,405	June 3	215	48	99	2151
Shirreffs, Reuben, Richmond, Va. Snow-compressing machine	698,566	Apr. 29	4043	894	99	919
Shives, Peter P., Dickey's Mountain, Pa., assignor of one-half to J. V. Fisher, Baltimore, Md. Message-delivering device for trains	709,518	Sept. 23	2974	663	100	2639
Shoebert, Fred C., Allegheny, Pa. Copy-holder and line-indicator for type-writing machines	697,895	Apr. 15	2804	620	99	628
Shock, Floyd, St. Louis, Mo. Inventory and appraisal blank	712,101	Oct. 28	3304	724 725	101	732
Shoemaker, Franklin T., assignor of one-half to T. K. Jones, Corinth, Miss. Cut-off-valve mechanism	701,406	June 3	216	49	99	2152
Shoemaker, George, Philadelphia, Pa. Street-railway switch	703,311	June 24	3726	859	99	2926
Shoemaker, Harry, Philadelphia, Pa. Coherer	730,704	May 20	3107	706	99	1850
Shoemaker, Harry, assignor of one-half to G. P. Gehring, Philadelphia, Pa. Coherer	691,815	Jan. 28	2761	622	98	626
Shoemaker, Harry, assignor of one-half to G. P. Gehring, Philadelphia, Pa. Wireless telegraphy	707,064	Aug. 12	2029	453	100	1548
Shoemaker, Harry, assignor of one-half to G. P. Gehring, Philadelphia, Pa. Wireless telegraphy	713,700	Nov. 18	2400	535	101	1421
Shoemaker, Harry, assignor of one-half to M. V. Gehring, Philadelphia, Pa. Wireless telegraphy	714,648	Nov. 25	4233	934	101	1815
Shoemaker, Harry, assignor to M. V. Gehring, Philadelphia, Pa. Wireless telegraphy	703,712	July 1	621	138	100	122
Shoemaker, Harry, assignor of one-half to American Wireless Telephone and Telegraph Company, Philadelphia, Pa. Wireless telegraphy	703,842	July 1	860	189	100	172
Shoemaker, Harry, assignor to G. P. Gehring and American Wireless Telephone and Telegraph Company, Philadelphia, Pa. Wireless telegraphy	711,130	Oct. 14	1893	302	101	304
Shoemaker, Harry, assignor to G. P. Gehring, Philadelphia, Pa., and American Wireless Telephone and Telegraph Company, Philadelphia, Pa. Wireless telegraphy	700,250	May 20	2222	508	99	1666
Shoemaker, Harry, assignor to G. P. Gehring, Philadelphia, Pa., and American Wireless Telephone and Telegraph Company, Philadelphia, Pa. Wireless telegraphy	710,121	Sept. 30	4127	931	100	2890
Shoemaker, Harry, assignor to M. V. Gehring and Consolidated Wireless Telegraph and Telephone Company, Philadelphia, Pa. Wireless telegraphy	706,500	Aug. 5	990	218	100	1317
Shoemaker, Harry, assignor to M. V. Gehring and Consolidated Wireless Telegraph and Telephone Company, Philadelphia, Pa. Decoherer	710,372	Sept. 30	4581	1034	100	2987
Shoemaker, Harry, assignor to M. V. Gehring and Consolidated Wireless Telegraph and Telephone Company. Interrupter for electric apparatus	710,373	Sept. 30	4583	1034	100	2987
Shoemaker, Harry, assignor to M. V. Gehring, Philadelphia, Pa., and American Wireless Telephone and Telegraph Company. Wireless telegraph system	710,122	Sept. 30	4130	982	100	2890
Shoemaker, Harry, assignor to M. V. Gehring, Philadelphia, Pa., and American Wireless Telephone and Telegraph Company. Transmitting intelligence	711,181	Oct. 14	1517	327	101	331
Shoemaker, Harry, assignor to M. V. Gehring and American Wireless Telephone and Telegraph Company, Philadelphia, Pa. Wireless telegraphy	714,246	Nov. 25	3487	767 768	101	1668
Shoemaker, Harry, assignor to Consolidated Wireless Telegraph and Telephone Company and M. V. Gehring, Philadelphia, Pa. Wireless telegraphy	711,131	Oct. 14	1395	303	101	304
Shoemaker, Harry, assignor to Consolidated Wireless Telegraph and Telephone Company and M. V. Gehring, Philadelphia, Pa. Wireless telegraphy	711,132	Oct. 14	1398	303	101	305
Shoemaker, Harry, assignor to Consolidated Wireless Telegraph and Telephone Company and M. V. Gehring, Philadelphia, Pa. Signaling system	711,182	Oct. 14	1519	327	101	332
Shoemaker, Harry, assignor to Consolidated Wireless Telegraph and Telephone Company, and M. V. Gehring, Philadelphia, Pa. Wireless signaling system	711,183	Oct. 14	1521	327	101	332
Shoemaker, Harry, assignor to Consolidated Wireless Telegraph and Telephone Company and M. V. Gehring, Philadelphia, Pa. Wireless telegraphy	711,184	Oct. 14	1526	328	101	332
Shoemaker, Harry, assignor to Consolidated Wireless Telegraph and Telephone Company and M. V. Gehring, Philadelphia, Pa. Wireless telegraphy	711,296	Oct. 14	1669	360	101	361
Shoemaker, Harry, assignor to Consolidated Wireless Telegraph and Telephone Company and M. V. Gehring, Philadelphia, Pa. Transmitting intelligence	711,445	Oct. 14	2004	434 435	101	432
Shoemaker, Harry, assignor to American Wireless Telephone and Telegraph Company and M. V. Gehring, Philadelphia, Pa. Signaling system	711,444	Oct. 14	2001	431	101	431
Shoemaker, Harry, assignor to G. P. and M. V. Gehring, Philadelphia, Pa. Telautomotor	711,743	Oct. 21	2593	569 570 571	101	571
Shoemaker, Harry, assignor to G. P. and M. V. Gehring, Philadelphia, Pa. Multiplex telegraphy	716,771	Dec. 23	4126	905 906	101	2745
Shoemaker, Harry, and G. W. Pickard, Philadelphia, Pa. assignors to American Wireless Telephone and Telegraph Company. Wave-detecting device	707,266	Aug. 19	2408	540	100	1645
Shoemaker, Marshall N. (See Simpson and Shoemaker.)						
Shoenberg, Milton H., and H. Levv, San Francisco, Cal. Electric water-heater	696,599	Apr. 1	370	87	99	81
Sholes, Frederick, Chicago, Ill. Type-writing machine	697,078	Apr. 15	2416	537	99	542
Sholes, Louis, assignor to C. Latham Sholes Typewriter Manufacturing Company, Milwaukee, Wis. Type-writing machine	698,749	Apr. 29	4463	985 986	99	1010
Sholes, Zalmon G., Evanston, Ill., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine	690,250	May 6	211	51 52 53	99	1217
Shone, Isaac, and E. Ault, Westminster, London, England. Mode of and means for venting and flushing house-drains or other drains and sewers	697,369	Apr. 8	1813	406 407	99	406
Shoop, Saul W., Front Royal, Va. Linoleum	717,459	Dec. 30	5542	1204	101	3070
Shope, William A., Kansas City, Mo. Dumping-wagon	711,539	Oct. 21	2207	480	101	488
Shorb, William A., et al. (See Field, William C., assignor.)						
Shore, Albert F., assignor of two-thirds to D. N. Hurlburt, New York, N. Y. Electric-arc lamp	710,374	Sept. 30	4584	1034 1035	100	2987

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Shore, Charles, Bolton, assignor of one-half to C. Heap, Caldershaw, Rochdale, England. Electric-ail apparatus.....	690,623	Jan. 7	490	106	98	105
Shore, Edward. (See Smith, Cyrus E., assignor.)						
Shores, Enoch H. (See Hall, Peter C., assignor.)						
Shorey, George E., Fairfield, Me. Folding table.....	707,171	Aug. 19	2342	502	100	1610
Short, Benjamin F., Brantley, Ga. Rat-trap.....	710,020	Sept. 30	3929	887	100	2849
Short, Robert L., et al. (See Blanton, Jacob L., assignor.)						
Short, Robert L., assignor to Cleveland Toy and Manufacturing Company, Cleveland, Ohio. Toy-cartridge exploder.....	708,084	Sept. 2	155	37	100	2013
Short, Sidney H., London, England. Engine.....	706,120	Aug. 5	216	45	100	1161
Short, Sidney H., Cleveland, Ohio, assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Bearing for electric-motor shafts.....	690,467	Jan. 7	153	32	98	34
Shortell, Thomas E., Pittsburg, Pa. Non-refillable bottle.....	707,265	Aug. 19	2407	540	100	1645
Shortill, William J., Markdale, Canada. Escapement-motion.....	716,946	Dec. 30	4598	992	101	2864
Shortley, Albert T., and D. O. Thompson, Sioux City, Iowa. Can-painting machine.....	692,079	Jan. 28	3243	733	98	722
Shortt, Edward G., Carthage, N. Y. Gas-engine.....	711,235	Oct. 14	1632	349	101	352
Shortt, Edward G., Carthage, N. Y., assignor to International Air Brake Company, Jersey City, N. J. Air-brake valve mechanism.....	690,468	Jan. 7	156	34	98	35
Shottenberg, Theodor H., Hubbard, Ohio. Book or parcel carrier or holder.....	705,878	July 29	4982	1073	100	1058
Shottwell, Melancthon S., Harrisburg, Pa. Wheel.....	710,375	Sept. 30	4587	1035	100	2988
Shough, Alexander M., South Charleston, Ohio. Automatic gas cut-off.....	716,119	Dec. 16	2853	628	101	2464
Shoup, Henrietta P. (See Shoup, James C., assignor.)						
Shoup, James C., assignor to H. P. Shoup, New York, N. Y. Autographic register.....	707,458	Aug. 19	2766	627	100	1719
Shoup, Samuel and S. R., Wilmington, Del. Sales slip and blank therefor.....	701,407	June 3	218	49	99	2152
Shoup, Samuel R. (See Shoup, Samuel and S. R.)						
Shoup, Samuel R., Wilmington, Del. Numbering-machine.....	694,682	Mar. 4	664	145	98	1653
Shoup, Saxton C., Fostoria, Ohio. Preserving compound.....	700,446	May 20	2613	-----	99	1745
Shouse, Charles B. (See Doud and Shouse.)						
Shove, Edward. (See Smith, Cyrus E., assignor.)						
Showalter, Erasmus W., Claypool, Ind. Grinding attachment for power-machines.....	703,486	July 1	195	47	100	41
Shreffler, James L., Lewistown, Pa. Insulator.....	712,440	Oct. 28	3925	859	101	861
Shrider, James H., et al. (See Winkelman, Benjamin, assignor.)						
Shriver, Augustus F., deceased; H. Shriver, Arbuckle, administratrix, assignor to M. Zoberbier and S. B. Caldwell, San Francisco, Cal. Coffee-filter.....	701,632	June 3	646	141	99	2243
Shriver, Augustus F., deceased; H. Shriver, Arbuckle, administratrix, assignor to M. Zoberbier and S. B. Caldwell, San Francisco, Cal. Message-box.....	708,594	Sept. 9	1060	240	100	2207
Shriver, Henrietta, administratrix. (See Shriver, Augustus F.)						
Shryock, Leonard D. (See Dedman, Bryant, assignor.)						
Shryock, William T., Allegheny, Pa. Car-truck.....	694,114	Feb. 25	2619	801	98	1604
Shuck, William B., Chicago, Ill. Tassel-feestoning.....	713,809	Nov. 18	2599	579	101	1464
Shuck, William B., Chicago, Ill. Motto-banner.....	715,884	Dec. 16	2382	528	101	2363
Shuel, Alfred H., Edgar Mills, Canada. Whiffletree connection.....	691,496	Jan. 21	2140	479	98	481
Shuler, Darius P., Sudbury, Canada. Treating copper-nickel-sulfid ores.....	697,370	Apr. 8	1817	-----	99	406
Shulte, Theodore. (See Johnson, Hans G., assignor.)						
Shultz, Samuel, Strongtown, Pa. Water-wheel.....	702,251	June 10	1738	392	99	2483
Shulze, Charles G., et al. (See Davis, Lot, assignor.)						
Shumaker, Isaac E., Deenville, Pa. Reaping-machine attachment.....	716,120	Dec. 16	2854	629	101	2465
Shumate, William A. (See Powell, Noah M., assignor.)						
Shumway, Charles E., Albion, Mich. Rotary engine.....	711,354	Oct. 14	1849	403	101	400
Sipe, Isaac. (See Steele, John C., assignor.)						
Shupert, Frank W., Spokane, Wash. Feed-water heater.....	701,518	June 3	420	96	99	2194
Shuping, Charles L. (See Shuping, Jacob A., and C. L.)						
Shuping, Jacob A., and C. L., Morganton, N. C. Plow.....	708,265	Sept. 2	494	113	100	2081
Shurick, Amy, New York, N. Y. Sandpaper-holder.....	714,247	Nov. 25	3489	768	101	1669
Shurmer, Thomas, Bolton, England. Woodworking-machine.....	692,487	Feb. 4	464	108	98	893
Shurtz, Jacob H., et al. (See Leabo, Thomas J., assignor.)						
Shuster, Andy C., assignor of one-half to T. Spellacy, Bakersfield, Cal. Drill for boring wells.....	712,734	Nov. 4	491	116	101	999
Shutt, George, Littlefalls, N. J. Finishing-machine.....	710,620	Oct. 7	434	91	101	87
Shuttleworth, Charles H., Corunna, Mich. Mail-box.....	714,409	Nov. 25	3783	836	101	1728
Shuttleworth, Charles H., assignor of one-half to W. S. Jones, Corunna, Mich. Low-water alarm.....	692,488	Feb. 4	465	109	98	893
Slyer, N. B. (See Guernsey, Charles C., assignor.)						
Sibley, Clarence C., Perth Amboy, N. J. Implement for stripping insulation from wire.....	698,567	Apr. 29	4045	895	99	919
Sibley, Edward L., Bennington, Vt. Eyeletting-machine.....	691,012	Jan. 14	1223	276	98	270
Sibley, Edward W., assignor of two-thirds H. Dunster, Jr., and H. Thurston, Providence, R. I. Calculator.....	707,652	Aug. 26	3174	715	100	1821
Sibley, Frank J., et al. (See Underwood and Butterfield, assignors.)						
Sibley, Gideon, Philadelphia, Pa. Back-rest for dental chairs.....	694,683	Mar. 4	669	146	98	1353
Sibley, Gideon, Philadelphia, Pa. Head-rest for dental chairs.....	694,684	Mar. 4	670	146	98	1354
Siebenhaar, Christian J., Wallington, N. J. Safety attachment for poison-bottles.....	700,095	May 13	1853	403	99	1569
Siebenhaar, Otto W., Rosendale, assignor of two-thirds to E. Falbe, Princeton, and R. W. Wyse, Milwaukee, Wis. Horseshoe-machine.....	694,205	Feb. 25	3797	839	98	1639
Sieber & Trussell Manufacturing Company. (See Trussell, Emory A., assignor.)						
Siebert, Alfred, St. Louis, Mo. Condensing-coil.....	694,797	Mar. 4	894	198	98	1901
Siebert, Alfred, St. Louis, Mo. Air-cooling apparatus.....	697,679	Apr. 15	2417	538	99	543
Siebert, Otto. (See Herzberg and Siebert.)						
Siedel, Johannes E., Güstrow, Germany. Centrifugal separator.....	698,332	Apr. 22	3629	802	99	817
Siefert, John. (See Pfanschmidt and Siefert.)						
Sieffert, Aloys H. H., Evansville, Ind. Automatic window-fastener.....	715,217	Dec. 2	1083	232	101	2059
Siegel, Charles R., St. Louis, Mo., assignor to Peerless Pouch Company. Closure and feeder for bags.....	705,455	July 22	4088	889	100	877



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Siegel, Ferdinand, <i>et al.</i> (See Szabo, Basil V., assignor.)						
Siegel, Samuel L., <i>et al.</i> (See Cohnhoff, Louis, assignor.)						
Siegfried, Robert, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Collector-ring for electrical machines	702,599	June 17	2405	549	99	2940
Siegfried, Wilhelm, Chemnitz, Germany. Label with metal fastening-clamp	706,695	Aug. 12	1841	288	100	1406
Siegrist, Jean G., (called Guido Sigrist), Neuilly-sur-Seine, France. Photographic shutter	691,497	Jan. 21	2141	481	98	481
Sieling, Heinrich, Hüllen, Germany. Steam cooking apparatus	717,037	Dec. 30	4755	1031	101	2904
Siemens, Alexander, Westover, Milford-on-Sea, assignor to Siemens Brothers & Co., Limited, Westminster, London, England. Device for connecting the electrical gear of electric cars	708,927	Sept. 9	1720	397	100	2346
Siemens Brothers & Co. (See Siemens, Alexander, assignor.)						
Siemens & Halske Aktiengesellschaft. (See Dolezalek, Friedrich, assignor.)						
Siemens & Halske Aktiengesellschaft. (See Frölich, Huth, and Edelmann, assignors.)						
Siemens & Halske, Aktien-Gesellschaft. (See Weyl, Theodor, assignor.)						
Siemens & Halske Electric Company of America. (See Duncan, Thomas, assignor.)						
Siemens & Halske Electric Company of America. (See Kötigen, Carl, assignor.)						
Siemens & Halske Electric Company of America. (See Michalke, Carl, assignor.)						
Siemens & Halske Electric Company of America. (See Michalke, Carl J. A., assignor.)						
Siemens & Halske Electric Company of America. (See Reichel, Emil B. W., assignor.)						
Siemens & Halske Electric Company of America. (See Schrottke, Franz, assignor.)						
Siemens & Halske Electric Company of America. (See Sessions, Frank L., assignor.)						
Siems, Johann F., Columbus, Nebr. Hen-protector	712,339	Oct. 28	3720	813	101	818
Siemen, Jacob. (See Siemen, Jürgen, assignor.)						
Siemen, Jürgen, assignor of one-half to J. Siemen, Valparaiso, Nebr. Hay-rack	708,998	Sept. 9	1721	397	100	2347
Sieverkropp, Henry R., Racine, Wis. Separable button	705,793	July 29	4781	1037	100	1028
Sieverkropp, Henry R., Racine, Wis. Fly-paper protector	711,682	Oct. 21	2174	543	101	545
Sievers, Ferdinand, and M. Keppler, Brooklyn, N. Y. Game apparatus	717,128	Dec. 30	4925	1068	101	2940
Sievvert, Charles W., Los Angeles, Cal. Oil-burner	710,699	Oct. 7	943	207	101	152
Sievvert, Charles W., Los Angeles, Cal. Oil-burner	716,121	Dec. 16	2855	629	101	2455
Sievvert, Paul T., Dresden, Germany. Manufacture of hollow glass articles	694,685	Mar. 4	672	147	98	1854
Sievvert, Paul T., Dresden, Germany. Producing hollow glass bodies	708,618	July 1	433	100	100	85
Sievvert, Paul T., Dresden, Germany. Apparatus for the manufacture of molded hollow glass articles	704,488	July 8	2102	455	100	441
Sigafoos, Rudolph, Racine, Wis. Stationary chemical fire-engine	692,724	Feb. 4	893	204	98	982
Signal and Control Company. (See Schoeffel and Aylward, assignors.)						
Signalphone Company. (See Yurgace, Otto P. and R. H., assignors.) (Reissue.)						
Sigurdsson, Oddur V., and H. Burtles, London, England. Time-lamplighter	699,027	Apr. 29	4995	1105	99	1125
Silberman, Israel. (See Schwartz and Silberman.)						
Silberstein, Albert L., New York, N. Y. Safety-razor	690,780	Jan. 7	792	176	98	167
Silbiger, Adolphus, Vienna, Austria-Hungary. Collapsible box	698,568	Apr. 29	4046	895	99	919
Silet, Charles. (See Seeley and Silet.)						
Silicate Brick Syndicate. (See Anderson, Oskar H., assignor.)						
Silk, August, and P. Light, Cincinnati, Ohio. Steam-trap	712,441	Oct. 28	3926	859	101	862
Sill, Edward L., Woodward, Okla. Ter. Rotary engine	708,414	Sept. 2	744	167	100	2132
Sill, Edward L., Gage, Okla. Ter. Rotary engine	708,415	Sept. 2	745	167	100	2132
Sillman, Charles H. (See Best, William N., assignor.)						
Sills, Alfred. (See Dupont and Sills.)						
Sills, Edwin, <i>et al.</i> (See Blackman, Luman, assignor.)						
Silsby, Eugene W., Lagrange, Ill. Plaiting-machine	690,781	Jan. 7	794	176	98	167
Silsby, Eugene W., Lagrange, Ill. Die-press	710,621	Oct. 7	436	91	101	87
Silveira, Joseph C., San Francisco, Cal. Ridging-plow	699,826	May 13	1346	313	99	1466
Silver & Company. (See Silver, William H., assignor.)						
Silver & Company. (See Silver and Friedlander, assignors.)						
Silver, Herman L., Los Angeles, Cal. Camera	696,600	Apr. 1	872	88	99	82
Silver, William H., New York, assignor to Silver & Company, Brooklyn, N. Y. Expressing-press	696,304	Mar. 25	3525	789	98	2494
Silver, William H., and P. Friedlander, assignors to Silver & Company, Brooklyn, N. Y. Toaster	712,340	Oct. 28	3723	814	101	818
Silvestri, Giulio, Vienna, Austria-Hungary. Frictional gearing	690,884	Jan. 7	973	220	98	205
Silvey, William L., Dayton, Ohio. Secondary-battery plate	698,453	Feb. 18	2344	521	98	1327
Silvey, William L., Dayton, Ohio. Secondary battery	709,611	Sept. 23	3126	696	100	2670
Silvey, William L., Dayton, Ohio. Steam-engine	718,248	Nov. 11	1499	339	101	1219
Silvis, Harry J., <i>et al.</i> (See White and Taylor, assignors.)						
Silvis, Zachariah T., <i>et al.</i> (See White and Taylor, assignors.)						
Simard, Charles. (See Tillman, Oliver, assignor.)						
Simister, James. (See Simister, William A., assignor.)						
Simister, William A., Ingersoll, Canada, assignor of one-half to J. Simister, Upper Montclair, N. J. Cheese-box	694,798	Mar. 4	895	199	98	1901
Simmons, Charles H., <i>et al.</i> (See Draper, Alexander T., assignor.)	714,956	Dec. 2	628	132	101	1961
Simmons, Charles P., Baltimore, Md. Filter	692,725	Feb. 4	894	204	98	982
Simmons, Harry, Boone, Iowa. Bicycle attachment	700,461	Aug. 5	927	201	100	1303
Simmons, James W., Bloomington, Ind. Storm-curtain	709,560	Sept. 23	3341	677	100	2652
Simmons, Jesse W., Alvarado, Tex. Pumping apparatus	702,496	June 17	2211	504	99	2601
Simmons, John P., San Francisco, Cal. Steam-boiler	704,588	July 15	2291	497	100	494
Simmons Manufacturing Company. (See Gail, John F., assignor.)						
Simmons, Marcus A., Tecumseh, Okla. Ter. Cooler	714,248	Nov. 25	3490	768	101	1669
Simmons, Peter J. (See Norwood, Richard B., assignor.)						
Simmons, Samuel T., and W. T. Moore, Columbus, Ohio. Sander	708,929	Sept. 9	1722	398	100	2347
Simmons, William H., Alexandria, Va. Fluid-pressure coupling	702,497	June 17	2213	504	99	2602
Simms, Frederick R., Bermondsey, England, and R. Bosch, Stuttgart, Germany. Magneto-electric machine	690,469	Jan. 7	168	85	98	37
Simms, Frederick R., Bermondsey, England, and R. Bosch, Stuttgart, Germany. Ignition-gear for internal-combustion engines	706,121	Aug. 5	217	45	100	1161
Simms, William H., Grand Island, Nebr. Coal-chute	701,227	May 27	4089	941	99	2070

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Simola, Victor F., Bergenfield, N. J. Bench-clamp.....	708,312	June 24	3727	859	99	2926
Simon, A. H. (See Devore, Albert H., assignor.).....						
Simon, Adolph P., Evans, Tex. Hub-attaching device.....	718,810	Nov. 18	2600	579	101	1464
Simons, Albert, Bordeaux, France. Manufacture of iron, manganese, and alloys of these metals by aid of electricity.....	704,393	July 8	1918	416	100	404
Simon, Leo. (See Collet, Albert, assignor.).....						
Simon, Leo. (See Stahl, Felix, assignor.).....						
Simon, Monroe L. (See Love, Samuel, assignor.).....						
Simons, Frank A. (See Lisle, Myron C., assignor.).....						
Simonds, S. E. (See La France, Alfred, assignor.).....						
Simonds, William E. (See Fowler, Edward C., assignor.).....						
Simonini, Angelo, Brooklyn, N. Y. Gas-lighting device.....	712,156	Oct. 28	3410	747	101	758
Simons Bro. and Company. (See Peal, Albert H., assignor.).....						
Simons, George W., Thurston, N. Y. Gate.....	706,363	Aug. 5	510	109	100	1219
Simons, George W., Posey, Ill. Hay-cap.....	711,356	Oct. 14	1851	408	101	400
Simons, Joseph, New York, N. Y. Fuel-briquet.....	718,512	Nov. 11	2050		101	1384
Simons, Joseph, and K. P. Haugl, New York, N. Y. Machine for molding articles from plastic materials.....	712,735	Nov. 4	492	116 117	101	1000
Simons, William C., Arlington, Pa. Axle.....	710,529	Oct. 7	265	59	101	54
Simonsen, Jens P., Oakland, Cal. Oil-burner.....	709,803	Sept. 23	3491	787	100	2744
Simonson, Flavel, Sterling, Ill. Acetylene-gas generator.....	696,765	Apr. 1	700	158 159	99	149
Simonson, Flavel, Sterling, Ill. Carbide-holder.....	712,027	Aug. 12	1957	439	100	1532
Simonson, Flavel, Sterling, Ill. Acetylene-gas generator.....	716,488	Dec. 23	3585	783	101	2631
Simonson, John H., Presque Isle, Me. Seed-potato cutter.....	718,249	Nov. 11	1501	340	101	1219
Simonson, Knut A. (See Hyden and Simonsson.).....						
Simonton, Jackson, Altoona, Pa. Operating device for car-doors.....	707,459	Aug. 19	2768	627 628	100	1720
Simonton, James G. (See Leilich, Francis T., assignor.).....						
Simplex Electric Heating Company. (See Ayer, James I., assignor.).....						
Simplex Electrical Company. (See Ayer, James I., assignor.).....						
Simplex Motor Vehicle Company. (See Hood, Ralph O., assignor.).....						
Simplex Railway Appliance Company. (See Lamont, John A., assignor.).....						
Simpson, Alfred J., Jr., assignor of one-half to J. L. Wicks, Baltimore, Md. Incandescent vapor-lamp.....	712,341	Oct. 28	3725	814	101	818
Simpson, Alfred L. and H. B. Palmer, New York, N. Y.; said Palmer assignor to said Simpson. Automobile.....	699,028	Apr. 29	4996	1106	99	1125
Simpson, Alfred L. and H. B. Palmer, New York, N. Y.; said Palmer assignor to said Simpson. Controller for electric vehicles.....	699,020	Apr. 20	4999	1106 1107	99	1126
Simpson, Burwell C. H., and C. F. Creelius, Falmouth, Ky. Holder for tooth-brushes and tooth-powder.....	699,083	May 13	1664	382	99	1581
Simpson, Daniel B., assignor of two-thirds to J. Effron and S. Rosenzweig, Mount Sterling, Ky. Hand-rake.....	693,986	Feb. 25	3389	745	98	1537
Simpson, Edward C., Akron, Ohio, assignor to Federal Appliance and Manufacturing Company, Pittsburg, Pa. Printing-press attachment.....	699,854	May 13	1414	327	99	1479
Simpson, Henry, Liverpool, England. Marine brake.....	708,487	July 1	196	47	100	41
Simpson, Henry D., Coxsackie, N. Y. Ice-run.....	709,804	Sept. 23	3492	787	100	2744
Simpson, Henry W., Ithaca, N. Y. Lock.....	707,028	Aug. 12	1959	439	100	1532
Simpson, John, Stirling, Scotland. Means for regulating the supply of water and liquid fuel to steam-generators.....	699,030	Apr. 20	5062	1107	99	1127
Simpson, John T., and M. N. Shoemaker, Jersey City, assignors to American Concrete Steel Company, Newark, N. J. Fireproof partition construction.....	706,347	Aug. 5	687	150	100	1255
Simpson, John T., and M. N. Shoemaker, Jersey City, assignors to American Concrete Steel Company, Newark, N. J. Fireproof partition structure.....	706,348	Aug. 5	690	150	100	1256
Simpson, Richard H., Turnersville, Tex. Surgical instrument.....	709,367	Sept. 16	3638	592	100	2557
Simpson, Robert J., assignor to L. S. Starrett Company, Athol, Mass. Draftsman's scale.....	700,156	May 13	2007	460	99	1538
Simpson, Robert J., assignor to L. S. Starrett Company, Athol, Mass. Micrometer-gage.....	706,696	Aug. 12	1342	298	100	1406
Simpson, Simon L., New York, N. Y. Spring-bed.....	701,408	June 3	220	49,50	99	2153
Simpson, Solomon L. (See Girtanner, Frederick, assignor.).....						
Simpson, Thomas H., trustee, et al. (See Handiges, Philip T., assignor.).....						
Simpson, Thomas H., Detroit, Mich., assignor to Chicago Railway Equipment Company, Chicago, Ill. Railway brake-beam.....	715,518	Dec. 9	1642	356	101	2189
Simpson, William E., William, La. Washing-machine.....	695,500	Mar. 19	2169	490	98	2203
Simpson, William H., Chicago, Ill. Banana-crate.....	706,207	Aug. 5	394	84	100	1197
Simpson, William P., Overbrook, Pa. Motor-propelled lawn cutter and roller.....	706,864	Aug. 12	1676	375 376	100	1477
Sims, Harry E., et al. (See Bailey, Henry F., assignor.).....						
Sims, Heath H., Oceanpark, Cal. Article-attacher.....	706,697	Aug. 12	1443	399	100	1406
Sims, Henry, Erie, Pa. Oil-filter.....	694,454	Mar. 4	180	42	98	1753
Sims, Henry, Erie, Pa. Exhaust-hood.....	695,601	Apr. 1	373	88	99	82
Sims, Milton Z., Aurora, Ill. Brake-wheel.....	694,686	Mar. 4	673	147	98	1854
Sims, Richard, assignor to Whitehead & Hoag Company, Newark, N. J. Tape-holder.....	690,897	Jan. 7	1001	226	98	210
Sims, Steen J., Buffalo, N. Y. Dust-beater.....	698,065	Apr. 22	3124	687	99	712
Sims, W. L. (See Norton, Sheldon, assignor.).....						
Sinclair, Duncan, Coalbrookdale, England. Iridescent coating of copper, bronze, or like surfaces.....	705,456	July 29	4090		100	877
Sinclair, Ernest, London, England. Apparatus for copying documents, drawings, &c.....	701,400	June 3	221	50	99	2153
Sinclair, John, San Francisco, Cal. Paper-roll.....	696,276	Mar. 25	3662	819	98	2522
Sinclair, Millard F., assignor of one-half to M. F. Harbour, Okolona, Miss. Load-indicator.....	695,890	Mar. 18	2898	656	98	2351
Sindelar, Albert A., Chicago, Ill. Device for closing leaks in pipes.....	710,721	Oct. 7	617	129	101	126
Sindorf, William, Mobile, Ala. Jar-closure.....	697,371	Apr. 8	1818	408	99	406
Singer Automatic Ice Machine Company. (See Singer, William F., assignor.).....						
Singer, Joseph B., assignor to H. M. Stade, New York, N. Y. Game.....	696,602	Apr. 1	374	88	99	82
Singer Manufacturing Company. (See Allen, Edward B., assignor.).....						
Singer Manufacturing Company. (See Diehl, Philip, assignor.).....						
Singer Manufacturing Company. (See Diehl and Hemleb, assignors.).....						
Singer Manufacturing Company. (See Douglas and Hansen, assignors.).....						
Singer Manufacturing Company. (See Greene, James G., assignor.).....						
Singer Manufacturing Company. (See Hemleb, Martin, assignor.).....						
Singer Manufacturing Company. (See Hill, George S., assignor.).....						
Singer Manufacturing Company. (See Lennox, Alexander, assignor.).....						
Singer Manufacturing Company. (See Ronkte, Albert, assignor.).....						
Singer Manufacturing Company. (See Shatford, Philip, assignor.).....						
Singer Manufacturing Company. (See Steward, Hiram P., assignor.).....						
Singer, Samuel S., Greatfalls, Mont. Clasp for garment-supporters.....	696,205	Mar. 25	3526	789	98	2404



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Singer, Theophil G. (See Conklin and Singer.)						
Singer, William F., New York, N. Y., assignor to Singer Automatic Ice Machine Co., Jersey City, N. J. Refrigerating system	697,029	Apr. 8	1242	277	99	283
Singer, William F., New York, N. Y., assignor to Singer Automatic Ice Machine Company, of New Jersey. Valve	697,680	Apr. 15	2419	538	99	543
Singin, Louis N., Walls, Pa. Car-coupling	690,470	Jan. 7	169	35	98	37
Singleton, Eustace M., Marshfieldtown, Iowa. Eyeglasses	710,622	Oct. 7	439	92	101	88
Singley, Christian G., Manheim, Pa. Cigar-shaper	708,085	Sept. 2	157	37	100	2013
Singar, Orwig F., Canton, Ohio. Plumb-level	714,357	Dec. 2	630	133	101	1962
Sinnott, John H., Brooklyn, N. Y. Carrying and transferring device	708,595	Sept. 9	1061	241	100	2207
Sinnott, John W. (See Sinnott, Michael M., assignor.)						
Sinnott, Martin J., Brooklyn, assignor to Expanding Tread Company, New York, N. Y. Elastic tread horseshoe	698,573	Feb. 18	2583	571	98	1376
Sinnott, Michael M., assignor of one-half to J. W. Sinnott, Northampton, Mass. Tire-inflating device for vehicles	693,747	Feb. 18	2903	638	98	1442
Sintas y Orfila, Conrado. (See Schultz and Sintas y Orfila.)						
Sintzenich, Edwin B., Rochester, N. Y. Balanced valve	700,985	May 27	3642	837	99	1974
Sipe, Elzy L., Ionia, Kans. Blind for bridles	692,726	Feb. 4	896	204	98	982
Sippel, Theodore A., Newark, N. J. Sand-blast apparatus	709,181	Sept. 16	2258	513	100	2474
Sircolomb, Frank E., Denver, Colo. Curtain or shade fixture	702,827	June 17	2825	630	99	2759
Siteman, William G., Willsamoor to Station, Mass. Ladder	714,733	Dec. 2	194	39	101	1877
Sjoberg, Albert, Lincoln, assignor of one-half to J. W. Edgerton, Grand Island, Nebr. Cane	706,501	Aug. 5	992	218	100	1317
Sjoo, Sven A., and R. V. Tornell, Stockholm, Sweden. Cleaning beer vats and pipes	691,671	Jan. 21	2462		98	548
Sjöstrand, Ernst G., Stockholm, Sweden. Bathometer	717,129	Dec. 30	4927	1068 1069	101	2940
Sjostrom, Victor. (See Leu and Sjostrom.)						
Sjostrom, Victor, Los Angeles, Cal. Steering-propeller	711,884	Oct. 21	2867	634	101	629
Skaer, James A., Augusta, Kans. Pocket-clasp	694,498	Mar. 4	232	67	98	1774
Skaer, James A., Augusta, Kans. Lamp-chimney holder	713,513	Nov. 11	2051	459	101	1335
Skahen, Patrick D., Syracuse, N. Y. Rough box for burial-caskets	709,423	Sept. 16	2737	615	100	2577
Skellley, John K. (See Covan, William E., assignor.)						
Skidmore, Collie, et al. (See Tyler, Arthur M., assignor.)						
Skidmore, Marsden E. (See Alexander, Jesse, assignor.)						
Skiffington, William P., assignor to Fairbanks Company, New York, N. Y. Valve	697,284	Apr. 8	1684	376	99	379
Skinner, Burr R., Calmar, Iowa. Heated lunch-box	711,357	Oct. 14	1852	403	101	401
Skinner, Eddie W. (See Cheney, Davison, and Skinner.)						
Skinner, Ernest M., Dorchester, Mass., assignor to Aeolian Company, New York, N. Y. Tracker-board for automatic musical-instrument players	715,307	Dec. 9	1260	268	101	2114
Skinner, John J., Paso Robles, assignor of one-half to J. H. Henry, San Jose, Cal. Log-turner	698,750	Apr. 29	4465	985 986 985 986	99	1011
Skinner, Merton R., Leroy, N. Y. Window-screen	702,077	June 10	1447	325 326	99	2423
Skinner, William A., assignor of one-half to W. F. MacLennan, Gloucester City, N. J. Spring-hinge	702,888	June 17	2941	678	99	2752
Skodawerke Actiengesellschaft in Pilsen. (See Deinlein, Karl, assignor.)						
Skodawerke Actiengesellschaft in Pilsen. (See Götz, Constantin von, assignor.)						
Skotnick, Jean V., Bayonne, N. J. Refrigerating apparatus	710,623	Oct. 7	440	92	101	88
Skotnicki, Wincenty B., Warsaw, and A. F. Ostrowski, Korczew, Russia. Automatic sluice	700,096	May 13	1854	432 433	99	1570
Skowen, Carl J., Nelsonville, Wis. Rotary motor	705,457	July 22	4091	880 880	100	878
Slacks, Charles F. (See Udey, Milton R., assignor.)						
Slafker, Corden J., Detroit, Mich. Automatic motor	697,107	Apr. 8	1373	305	99	312
Slagle, Robert L., assignor to Automatic Railway Mail Pouch Delivery Company, Washington, D. C. Mail-box catcher	708,930	Sept. 9	1723	398	100	2347
Slagle, Robert L., and E. F. Pywell, assignors to Automatic Railway Mail Pouch Company, Washington, D. C. Apparatus for delivering mail from cars	693,167	Feb. 11	1783	391	98	1189
Slater, Andrew L., Butte, Mont. Wrench	706,208	Aug. 5	396	85	100	1197
Slater, Ebenezer H., Auckland, New Zealand. Cutting-tool for planing-machines	706,204	Aug. 5	511	109	100	1219
Slater, Elizabeth E. M., et al. (See Slater, Frank W., assignor.)						
Slater, Frank W., Montreal, Canada, assignor to G. Q. Clifford, Brockton, Mass., G. A. and E. E. M. Slater, Montreal, Canada. Boot or shoe	702,600	June 17	2407	550	99	2641
Slater, George A., et al. (See Slater, Frank W., assignor.)						
Slater, Henry S., et al. (See Locke, Albert V., assignor.)						
Slater, John, East Ham, England, assignor to Mable Todd and Bard, New York, N. Y. Means for attaching caps to fountain or other pens, &c	716,489	Dec. 23	3588	783	101	2631
Slater, Daniel A., et al. (See Brackney, Orville J., assignor.)						
Slaughter, Richard O. (See Damage and Slaughter.)						
Slauson, William G., Olean, N. Y. Printer's furniture	708,086	Sept. 2	158	38	100	2014
Slavicek, Victor, Vienna, Austria-Hungary. Fractional condenser	696,206	Mar. 25	3526	789	98	2495
Slazenger, Frank L., New York, N. Y. Golf-stick	697,179	Apr. 8	1493	334	99	337
Sleeman, James, Somerset, England. Apparatus for malting, drying, or otherwise treating grain	706,462	Aug. 5	929	202 203	100	1303
Sleeman, James B., and E. M. Africa, Huntingdon, Pa., assignors to J. C. Blair Company. Counting-machine	714,938	Dec. 2	631	133 687	101	1962
Sleeper, Charles W., Lancaster, N. H., assignor, by mesne assignments, to American Can Company, Jersey City, N. J. Side-seaming machine	698,066	Apr. 22	3125	688 689	99	713
Sleeper, Frank H., et al. (See Hopkinson, Richard O., assignor.)						
Sleeper, Frank H., Westmount, assignor of one-half to North West Shoe Company, Limited, Montreal, Canada. Engine	696,766	Apr. 1	707	150 150	99	151
Sleeper, Frank H., Westmount, assignor of one-half to North West Shoe Company, Limited, Montreal, Canada. Engine	696,767	Apr. 1	710	160	99	151
Sleeper, Frank H., Westmount, assignor of one-half to North West Shoe Company, Limited, Montreal, Canada. Engine	696,768	Apr. 1	713	160	99	152
Sleeper, Frank M., Westmount, Canada. Valve-gear for engines	717,038	Dec. 30	4756	1031	101	2904
Sleeper, Frank R., et al. (See Lottridge, George W., assignor.)						
Sleeter, Charles W., Independence, Mo. Vehicle-spoke puller	701,519	June 3	422	96	99	2105
Sleeter, Charles W., Decatur, Ill. Cultivator	704,131	July 8	1441	303	100	303
Sleezer, Flavius J., Newark, Ill. Creaming-can	698,569	Apr. 29	4018	805	99	920
Sleight, Milton W., Denton, assignor of one-half to J. D. Moore, Matagorda County, Tex. Draft-elevator	705,458	July 22	4094	890	100	878
Slenker, Benjamin F., Panola, Ill. Grain-loader	700,097	May 13	1857	434	99	1570
Slevin, James J., New York, N. Y. Elevator	716,949	Dec. 30	4571	992 993	101	2864

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Slevin, James J., New York, N. Y. Elevator	716,950	Dec. 30	4573	993	101	2865
Slick, Edwin E., Braddock, Pa. Means for ejecting metal pigs from their molds	691,977	Jan. 28	3042	684	98	683
Slick, Edwin E., Braddock, Pa. Rolling-mill feed-table	698,570	Apr. 29	4049	895	99	920
Slick, Edwin E., Pittsburg, Pa. Traveling cutter mechanism	704,941	July 15	2997	641	100	642
Slinack, Victor H. (See Prendergast and Slinack.)						
Slinack, Victor H., Philadelphia, Pa. Welsbach or other incandescent burner	699,251	May 6	225	58	99	1221
Slinack, Victor H., assignor to Pennsylvania Globe Gas Light Company, Philadelphia, Pa. Incandescent gas-burner						
Sloan, Francis E., Baltimore, Md. Friction-hinge	713,701	Nov. 18	2401	535	101	1421
Sloan, George B., Jr. (See Shea, Thomas A., assignor.)	714,959	Dec. 2	633	133	101	1962
Sloan, George L., et al. (See Zangel, Joseph, assignor.)						
Sloan, James W., assignor of two-thirds to J. S. Cullinan and H. G. Johnston, Corsicana, Tex. Bit for well-drilling apparatus	698,415	Apr. 22	3773	833	99	847
Sloane, John B., assignor of one-half to W. E. Partridge, Detroit, Mich. Toy	709,117	Sept. 16	2125	487	100	2446
Slocumb, John T., Providence, R. I., assignor to J. T. Slocumb Company. Micrometer-caliper	708,591	Sept. 9	1725	398	100	2347
Slocum, Eason L., Pawtucket, R. I. Galvanic battery	707,363	Aug. 19	2597	587	100	1684
Slocum, Edward S. (See Bosmann, Nicolas, assignor.)						
Sloss, James W., Birmingham, Ala. Calculating-machine	694,897	Mar. 4	1076	237	98	1939
Slotkin, Mayer, assignor of one-half to J. Praglin, New York, N. Y. Power-transmitting mechanism	715,164	Dec. 2	984	213	101	2037
Slough, Elmer J., Peoria, Ill. Hay-machine	696,207	Mar. 25	3528	789	98	2495
Slough, John T., Woodstock, Canada. Adhesive cement	709,651	Sept. 23	3192	790	100	2683
Sly, Marcus L., Medina, N. Y. Treating iron scrap	695,177	Mar. 11	1612		98	2070
Sly, William W., Cleveland, Ohio. Barrel-closure	703,313	June 24	3729	859	99	2926
Sly, William W., Cleveland, Ohio. Dust-collector	710,624	Oct. 7	442	92	101	88
Slyder, William J., assignor of one-half to H. F. Douglas, Troy, Ohio. Folding canopy for vehicles	706,605	Aug. 12	1177	261	100	1319
Small, Benjamin W., West Somerville, assignor of one-half to J. F. Adams, Watertown, Mass. Device for drawing tendons from the legs of poultry	692,214	Jan. 28	3482	787	98	772
Small, Charles E. (See Churchill and Christiansen, assignors.)						
Small, Chester C., Newton, Mass., assignor, by mesne assignments, to United Shoe Machinery Company. Nail-sorting mechanism	707,141	Aug. 19	2181	489	100	1596
Small, Frederick E., Boston, Mass. Metallic packing for piston-rods	715,616	Dec. 9	1825	405	101	2225
Small, Henry, Hartford, Conn. Retaining apparatus	715,165	Dec. 2	985	214	101	2038
Small, Henry J., Sacramento, Cal., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Car-brake. (Reissue.)	11,990	May 13	2042	467	99	1606
Small, Roscoe G., Bayonne, N. J. Differential gearing	701,633	June 3	646	141	99	2243
Smalley, Clarence C., Manitowoc, Wis. Means for securing wheels on shafts	706,265	Aug. 5	511	110	100	1219
Smalley, James B. (See Braden and Smalley.)						
Smalley, William H., Yonkers, N. Y. Fastening device for can-covers	695,656	Mar. 18	2479	568	98	2967
Smart, Charles W., Carbondale, Ill. Pipe-hanger	705,971	July 29	5098	1111	100	1062
Smart, Samuel H., trustee. (See Harris, John, assignor.)						
Smart, Walter J. (See Barton, William A., assignor.)						
Smart, Walter J., Orange, N. J. Vapor-burner	705,459	July 22	5095	890	100	878
Smart, Walter J., Brooklyn, assignor to Firm of J. Williams, New York, N. Y. Gas-burner						
Smart, Walter J., Brooklyn, assignor to Firm of J. Williams, New York, N. Y. Lamp	690,471	Jan. 7	172	36	98	38
Smart, Walter J., Brooklyn, assignor to Firm of J. Williams, New York, N. Y. Lamp	694,435	Mar. 4	190	42	98	1753
Smead, Isaac D., Cincinnati, Ohio. Combined crematory and heating system	715,835	Dec. 16	2383	528	101	2394
Smead, Isaac D., Cincinnati, Ohio. Hot-water heating system	691,328	Jan. 14	1906	411	98	392
Smead, Isaac D., Cincinnati, Ohio. House-heating apparatus	694,206	Feb. 25	3802	840	98	1640
Smead, Isaac D., Cincinnati, Ohio. Heating apparatus	700,382	May 20	2500	572	99	1720
Smead, Daniel W., assignor of one-half to A. F. Kanage, Wilmet, Ohio. Vehicle-axle lubricator	707,364	Aug. 19	2598	587	100	1684
Smedley, Frederic G., New York, N. Y. Foot-rest	703,488	July 1	198	47	100	42
Smeeton, Richard J., assignor to Whitehead & Hoag Company, Newark, N. J. Tape-holder	692,080	Jan. 28	3248	734	98	723
Smelker, Angeline, Northstar, Ohio. Fruit-jar closer	694,329	Feb. 25	4088	910	98	1662
Smiley, John F., Louisville, Ky. Advertising device	697,681	Apr. 15	2420	538	99	543
Smiley, William H. (See Burt, William J., assignor.)	715,886	Dec. 16	2385	528	101	2394
Smiser, Arno F., Elba, Nebr. Protecting river-banks	717,039	Dec. 30	4758	1031	101	2904
Smith, Alva P., Jr., Brockton, assignor to Boston Roller Chafe Iron Company, Boston, Mass. Brace-blank and chafe-iron holder	698,751	Apr. 29	4466	986	99	1011
Smith, Albert D., assignor to H. G. and F. Woehler, St. Louis, Mo. Coin-controlled newspaper-vending machine	699,252	May 6	227	53.54	99	1221
Smith, E. H., Albert T. Woonsocket, R. I. Shoe	712,442	Oct. 28	3028	850	101	862
Smith, Alfred and S. Jackson, Keighley, England. Means for automatically changing shuttles in looms	713,702	Nov. 18	2401	535	101	1421
Smith, Alfred B., Reading, England. Apparatus for golf practice	702,828	June 17	2408	550	99	2641
Smith, Alfred W., Adrian, Mich. Mail-box	699,253	May 6	227	53.54	99	1221
Smith, Allison D., Edinburgh, Scotland. Vehicle-wheel	690,531	Jan. 7	172	36	98	38
Smith, Allison D., Edinburgh, Scotland. Automatic buffer-coupling	716,772	Dec. 23	4129	906	101	2746
Smith, Allison D., Edinburgh, Scotland. Draw-gear for railway or like cars	716,773	Dec. 23	4132	907	101	2747
Smith, Altai G., Cheyenne, Wyo. Hair-fastener	698,339	Apr. 22	3630	802	99	817
Smith, Amos, Vienna Crossroads, Ohio. Grain-drill	694,499	Mar. 4	293	67	98	1774
Smith, Amour C., New York, assignor to E. S. Jaffray, trustee, Irvington, N. Y. Fluid-pressure engine	702,601	June 17	2408	550	99	2641
Smith, Andrew, Chicago, Ill. Machine for turning caster-wheels	698,752	Apr. 29	4467	987	99	1011
Smith, Andrew, Chicago, Ill. Wood-plate-cutting machine	706,349	Aug. 5	692	151	100	1256
Smith, Andrew C., Los Angeles, Cal. Combined set-square and bevel	693,075	Feb. 11	1580	344	98	1150
Smith, Andrew J. (See Sattelberg, William H., assignor.)						
Smith and Anthony Company. (See Anthony, Edgar W., assignor.)						
Smith and Anthony Company. (See Barber, William M., assignor.)						
Smith, Arthur O., Milwaukee, Wis., assignor to Automobile and Cycle Parts Company, Cleveland, Ohio. Lock for adjustable ball-bearing cones	700,251	May 20	2225	508	99	1667
Smith, Arthur P. and H., Springfield, Mass. Condenser or exhaust tube for steam-engines	691,978	Jan. 28	3043	684	98	684
Smith, Arthur W., New York, N. Y. Scrubbing-brush	697,682	Apr. 15	2422	539	99	543



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Smith, Arthur W., New York, N. Y. Mop holder and wringer	704,182	July 8	1443	308	100	303
Smith, Arthur W., New York, N. Y. Mop holder and wringer	704,183	July 8	1444	308	100	324
Smith, Asa D., Worcester, Mass. Attachment for linotype-machines	708,416	Sept. 2	749	169	100	2133
Smith, Augustus, New York, N. Y. Gate for hoppers or chutes	698,146	Apr. 22	3303	723	99	748
Smith, Augustus, Bradford, R. I. Storage structure	716,296	Dec. 16	3187	698	101	2532
Smith, B. C. <i>et al.</i> (See Brooks, Theodore L., assignor.)						
Smith, Benjamin F., assignor of one-half to C. G. Smith, Somerville, Mass. Sand-trap for Artesian or driven wells	695,952	Mar. 25	3008	680	98	2388
Smith, Benjamin H., Shippensburg, Pa. Railway-tie	704,394	July 8	1919	416	100	404
Smith, Benjamin W., assignor of one-half to W. P. Larcey, Princeton, Ind. Air-brake	714,826	Dec. 2	347	76,77	101	1907
Smith, Berton. (See Nason and Smith.)						
Smith, Birger, St. Paul, Minn. Stipple matrix-plate	694,115	Feb. 25	3621	801	98	1605
Smith, Caryl T., <i>et al.</i> (See Smith, Roy E., assignor.)						
Smith, Charles, <i>et al.</i> (See Manson, Thomas C., assignor.)						
Smith, Charles, South Croydon, and G. J. Hone, Romford, England. Safety releasing device for the sheets of boats, tow-lines, &c.	703,713	July 1	622	139	100	123
Smith, Charles A., Pinckney, Mich. Thill-coupling	705,151	July 22	3436	747	100	745
Smith, Charles B. (See Wescott and Smith.)						
Smith, Charles B., Dunedin, New Zealand. Fire-escape	715,308	Dec. 9	1262	368	101	2114
Smith, Charles C., Bellevue, Idaho. Nut-wrench	701,952	June 10	1195	272	99	2374
Smith, Charles D., St. Louis, Mo. Ventilator for chimneys	697,180	Apr. 8	1484	334	99	337
Smith, Charles E., Pittsburg, Pa. Furnace	707,870	Aug. 26	3646	821	100	1913
Smith, Charles F., Beaumont, assignor to Smith Single Belt Reversing Countershaft Company, Melrose, Mass. Reversing-gear	701,634	June 3	648	142	99	2244
Smith, Charles F., assignor to Landers, Frary and Clark, New Britain, Conn. Oil or molasses faucet	704,942	July 15	2998	642	100	643
Smith, Charles G. (See Smith, Benjamin F., assignor.)						
Smith, Charles H., assignor of one-third to G. E. Settle, Greeley, Colo. Dumping-vehicle	717,293	Dec. 30	5251	1140	101	3011
Smith, Charles H., and E. Jones, Milwaukee, Wis. Dry-goods sample and ticket holder	714,249	Nov. 25	3492	769	101	1670
Smith, Charles L. Oil City, assignor to Oil Well Supply Company, Pittsburg, Pa. Adjustable-grip elevator for casing or tubing	711,911	Oct. 21	2933	645	101	641
Smith, Charles M. (See McCoy, Henry L., assignor.)						
Smith, Charles M., <i>et al.</i> (See James, Ulysses S., assignor.)						
Smith, Charles M. W., Cambridge, Mass. Automatic regulator for hydraulic air-compressors	705,460	July 22	4097	801	100	879
Smith, Charles W., Columbus, Ohio. Identity-indicating device	395,584	Mar. 18	2350	533	98	2240
Smith, Charles W., assignor of one-half to S. T. Smith and W. N. Trowbridge, Piedmont, S. C. Bed-brace	698,416	Apr. 22	3775	833	99	848
Smith, Chauncey, and J. L. Mounce, Philadelphia, Pa. Support for hammocks	698,865	Apr. 29	4723	1040	99	1070
Smith, Chris N., Elgin, Ill. Extension-table	710,376	Sept. 30	4588	1035	100	2388
Smith, Clarence E., assignor to North & Judd Manufacturing Company, New Britain, Conn. Fastening device	698,571	Apr. 29	4050	896	99	920
Smith, Clarence W. (See Cutler and Smith.)						
Smith, Claude R., assignor of one-half to H. J. Gibney, Olean, N. Y. Bicycle-wheel carrier	702,829	June 17	2827	650	99	2729
Smith, Clayton B., Forestville, Conn. Ladder	709,118	Sept. 16	2126	487	100	2449
Smith and Co., B. K. (See Brown, Clinton W., assignor.)						
Smith, Curtis V., Bellefontaine, Ohio. Change-receiver	697,108	Apr. 8	1375	305	99	312
Smith, Cyrus E., assignor of one-half to E. Shore, Fall River, Mass. Locking device for stripping-brush in revolving flat cards	692,727	Feb. 4	896	204	98	982
Smith, Cyrus E., assignor of one-half to E. Shore, Fall River, Mass. Electric trolley	695,953	Mar. 25	3009	681	98	2388
Smith, Daniel, Griffin Corners, N. Y. Game apparatus	694,799	Mar. 4	896	199	98	1901
Smith, Daniel, Griffin Corners, N. Y. Game apparatus	708,839	Sept. 9	1558	356	100	2312
Smith, Daniel D. (See Titus, Burt, and Smith.)						
Smith, Daniel F., New York, N. Y. Rotary motor	704,943	July 15	2999	642	100	643
Smith & Davis Manufacturing Company. (See Jones, Benjamin H., assignor.)						
Smith, De Calvus, Colebrook, Ohio. Hose-bridge	693,168	Feb. 11	1785	391	98	1190
Smith, De Wane B., Deerfield, N. Y. Bicycle-pump	695,002	Mar. 11	1276	281	98	2000
Smith, De Wane B., Deerfield, N. Y. Bicycle-pump	703,010	June 24	3180	733	99	2317
Smith, De Wane B., Deerfield, N. Y. Cap or cover for jars	716,951	Dec. 30	4577	993	101	2866
Smith, Dunois E., assignor to Colorado Crude Oil Burner Company, Denver, Colo. Crude-oil burner	716,849	Dec. 23	4384	950	101	2809
Smith, Edgar B., Riverside, assignor of one-half to G. Brown, Chicago, Ill. Spinning-top	713,514	Nov. 11	3052	459	101	1335
Smith, Edmond C., Saugatuck, and C. L. Meade, Jr., Westport, Conn. Water-closet coupling	712,013	Oct. 28	3147	687	101	702
Smith, Edmond C., Saugatuck, and C. L. Meade, Jr., Westport, assignors to Sanitary Coupling Company, Saugatuck, Conn. Water-closet coupling	712,012	Oct. 28	3146	687	101	702
Smith, Edmond C., Saugatuck, and C. L. Meade, Jr., Westport, assignors to Sanitary Coupling Company, Saugatuck, Conn. Water-closet coupling	712,014	Oct. 28	3148	688	101	702
Smith, Edward, Bradford, England. Machine for producing water-marks on fabrics	709,368	Sept. 16	2640	592	100	2557
Smith, Edward, assignor of one-half to P. M. Ray, Arcola, Ill. Combined tack-driver and carpet-stretcher	717,400	Dec. 30	4759	1032	101	2905
Smith, Edward A., Middletown, Conn. Hook for type-writer covers	706,350	Aug. 5	694	151	100	1256
Smith, Edward A., Fowler, assignor to F. W. Nash and E. M. Sprague, Denver, Colo. Pick	698,147	Apr. 22	3304	724	99	748
Smith, Edward F., Bradford, Pa. Apparatus for leaching tanbark	693,748	Feb. 18	2904	638	98	1443
Smith, Edward F., Bradford, Pa. Apparatus for leaching tanbark	693,749	Feb. 18	2905	639	98	1443
Smith, Edward H., Mount Vernon, assignor to Dickelman-Bowers Manufacturing Company, Forest, Ohio. Manufacturing sheet-metal pipe-elbows	708,932	Sept. 9	1726	399	100	2348
Smith, Edward H., Mount Vernon, assignor to Dickelman-Bowers Manufacturing Company, Forest, Ohio. Blank for pipe-elbows	709,119	Sept. 16	2127	488	100	2449
Smith, Edward H., Mount Vernon, assignor to Dickelman-Bowers Manufacturing Company, Forest, Ohio. Machine for bending pipe-elbows	712,608	Nov. 4	281	66,67	101	957
Smith, Edward J., High Springs, Fla. Spark-arrester	699,031	Apr. 29	5004	1107	99	1127
Smith, Edward J., High Springs, Fla. Spark-arresting and discharging device	705,461	July 22	4099	891	100	879
Smith, Edward P., Springfield, Mass. Device for supporting rolls in developing-trays	694,116	Feb. 25	3622	801	98	1605
Smith, Edward W., assignor to Electric Storage Battery Company, Philadelphia, Pa. Apparatus for preparing material for use in storage batteries	693,750	Feb. 18	2906	639	98	1443
Smith, Edward W., Rochester, assignor of two-thirds to Wilkinson & Lancaster, Syracuse, and F. B. Thompson, Rochester, N. Y. Combined protector and opener for boxes	717,460	Dec. 30	5544	1204	101	3070
Smith, Eldridge J., Washington, D. C., assignor to Perfect Jar Cap Company, Alexandria, Va. Jar cap or closure	692,374	Feb. 4	275	66	98	856
Smith, Elmer S., Boundbrook, and H. Giles, South Boundbrook, assignors to Ideal Cash Register Company, New Boundbrook, N. J. Cash-register	690,472	Jan. 7	173	38,37	98	38
Smith, Elmer S., Boundbrook, and C. A. Sustrong, South Boundbrook, assignors to Ideal Cash Register Company, New Boundbrook, N. J. Cash-register	705,619	July 29	4467	968	100	964

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Smith, Elnathan H., Ocean City, N. J. Stamp.	703,011	June 24	3182	738	99	2818
Smith, Emory D. (See Morris and Smith.)						
Smith, Enos, Vernaldam Dean, near Hungerford, England, assignor to J. Smith, Troy, and H. Smith, New York, N. Y. Pneumatic tire	700,840	May 27	3388	778	99	1923
Smith, Ernest C., Hincley, Ill. Fertilizer-distributor	714,527	Nov. 25	4000	885 886	101	1771
Smith, Eugene F., Stockton, Cal. Bicycle-pump	700,841	May 27	3389	778	99	1924
Smith, Fannie S., Kansas City, Mo. Wire-fastener	695,854	Mar. 25	3011	681	98	2388
Smith, Ferdinand A., Los Angeles, Cal. Lawn-rake	710,000	Oct. 7	944	207	101	192
Smith, Finley M., Salubria, Idaho. Brake mechanism	694,207	Feb. 25	3894	841	98	1641
Smith, Frances C., assignor of one-fourth to A. I. Grant, Atlanta, Ga. Extensible corset	690,898	Jan. 7	1002	226	98	210
Smith, Frank E., and F. C. Watson, assignors to Smith-Watson Manufacturing Company, Philadelphia, Pa. Sign	715,309	Dec. 9	1263	268	101	2115
Smith, Frank N., assignor to S. R. Dresser, Bradford, Pa. Clamping-ring for pipe-couplings	696,603	Apr. 1	375	88, 89	99	83
Smith, Frank S., et al. (See Wilcox, Elmer A., assignor.)						
Smith, Fred C., Delavan, Wis. Lantern-lighter	715,166	Dec. 2	985	214	101	2038
Smith, Fred L., Franklin Falls, N. H. Clutch	697,683	Apr. 15	2423	339	99	544
Smith, Frederic J., Elizabeth, N. J., assignor to W. H. Bowker, Boston, Mass. Coated chemically-active substance and making same	714,960	Dec. 2	635		101	1963
Smith, Frederick F., Vandalia, Ill. Corn-planter	712,102	Oct. 28	3305	725	101	732
Smith, Frederick H., Wrights, Cal. Basket-packer	698,067	Apr. 22	3129	689	99	713
Smith, Frederick, and H. D. Gibbs, assignors to Cataract Tool and Optical Company, Buffalo, N. Y. Telescope	701,520	June 3	423	96	99	2195
Smith, Frederick W., Campbell, Cal. Check-blocker for irrigating	711,079	Oct. 14	1312	284	101	285
Smith, Gary B., assignor of two-thirds to J. H. Colwell and W. H. Elliott, Cleveland, Ohio. Valve for steam-engines	695,891	Mar. 18	2804	656	98	2352
Smith, George, Cambridge, Ohio. Spike-puller	714,350	Nov. 25	3493	709	101	1670
Smith, George A., et al. (See Chman, Charles, assignor.)						
Smith, George A., trustee. (See Clarke, Arthur R., assignor.)						
Smith, George A., Alberni, Canada. Lamp-burner	692,081	Jan. 28	3250	734	98	724
Smith, George D., Buffalo, N. Y. Musical toy	700,986	May 27	3444	837	99	1975
Smith, George F., Baltimore, Md. Baker's oven	706,351	Aug. 5	695	152	100	1256
Smith, George G., Florence, Italy. Lock	709,056	Sept. 16	2004	457	100	2421
Smith, George G., Florence, Italy. Door-catch	709,057	Sept. 16	2005	457	100	2422
Smith, George G., Florence, Italy. Acetylene-gas generator. (Reissue.)	12,041	Sept. 30	4645	1049 1050	100	3090
Smith, George G., Florence, Italy. Acetylene-gas generator	713,353	Nov. 11	1733	390 391	101	1269
Smith, George G., Florence, Italy. Means for storing and distributing gas	713,354	Nov. 11	1737	391	101	1270
Smith, George H., New York, N. Y. Fertilizer and making same	705,482	July 22	4100		100	880
Smith, George H., Cedar Rapids, Iowa, assignor to Union Typewriter Company, Jersey City, N. J. Type-bar mechanism for type-writers	700,206	Aug. 5	512	110	100	1219
Smith, George I., Mayview, Kans. Magazine nailing-hammer	713,703	Nov. 18	2404	536	101	1422
Smith, George J. (See McCulloch, James, assignor.)	704,467	July 8	2055	446	100	382
Smith, George L., Good Ground, N. Y. Butter-cutting machine	695,501	Mar. 18	2170	490	98	2308
Smith, George S., assignor of one-half to W. S. Lower, Burr, Nebr. Grain-car door	697,557	Apr. 15	2188	486	99	497
Smith, George W., Dallas, Tex. Bicycle	695,955	Mar. 25	3012	681	98	2388
Smith, George W., Hardin, Mo. Motor-vehicle	698,753	Apr. 29	4469	988 989	99	1012
Smith, George W., Evanston, Ill. Picture-projecting apparatus	700,447	May 20	2613	597 598	99	1745
Smith, George W., assignor to Smith Railway Mail Service Company, Rochester, N. Y. Mail-bag catcher	707,267	Aug. 19	2410	540	100	1645
Smith, George W., Evanston, Ill., and A. Somers, St. Paul, Minn.; said Somers assignor to said Smith. Picture-projecting apparatus	700,709	May 20	3108	706 707 309	99	1850
Smith, George W., Rockford, Ill., and E. J. Lees, Franklin, Pa., assignors to Ingersoll Milling Machine Company. Milling-machine	704,134	July 8	1445	310 311 312	100	304
Smith, Godfrey L., Newport News, Va. Compound lumber or structure	698,915	Feb. 28	3235	718	98	1527
Smith, Gustav A., Indianapolis, Ind. Combination gas and oil burner	697,030	Apr. 8	1245	277	99	284
Smith, Gustav E., et al. (See Harrington, Patrick S., assignor.)						
Smith, Hamilton E., Philadelphia, Pa. Apparatus for producing medicinal vapor or liquid from the smoke of green wood	713,515	Nov. 11	2053	459	101	1335
Smith, Hansen. (See Petre, Douglas A., assignor.)						
Smith, Hanson C., Ithaca, N. Y. Drawers-supporter	705,879	July 29	4933	1073	100	1038
Smith, Harper F., Philadelphia, Pa. Fluid-pressure regulator	693,170	Feb. 11	1790	392	98	1191
Smith, Harper W., Philadelphia, Pa. High or low pressure metallic diaphragm attachment for governors	714,048	Nov. 18	3078	681	101	1566
Smith, Harry, et al. (See Smith, Enos, assignor.)						
Smith, Harry B., et al. (See Smith, Philip S., assignor.)						
Smith, Harry B., New York, N. Y. Blank for paper boxes	693,169	Feb. 11	1787	392	98	1190
Smith, Harry B., Brooklyn, N. Y. Corner-stay for paper boxes	694,436	Mar. 4	191	42	98	1753
Smith, Harry F. (See Beisel, Peter J., assignor.)						
Smith, Harry W. (See Hamblin, Stephen M., assignor.)						
Smith, Harry M., Black River Falls, Wis. Ventilator	699,584	May 6	870	202	99	1354
Smith, Harry M., Minneapolis, Minn. Printing attachment for flour-packers	700,572	May 20	2844	653	99	1792
Smith, Harry P., Minneapolis, Minn. Printing attachment for flour-packers	697,285	Apr. 8	1687	376 377	99	379
Smith, Harry S., Pittsburg, Pa., assignor to Victor Rubber Company, Springfield, Ohio. Apparatus for rolling channel-irons	694,437	Mar. 4	193	42, 43	98	1753
Smith, Harry T., and A. T. Tarrant, Christchurch, New Zealand. Station-indicator	704,135	July 8	1456	312	100	306
Smith, Harry W., North Grafton, Mass. Filling-carrier for looms	691,816	Jan. 28	2762	622	98	656
Smith, Harry W., North Grafton, Mass. Electric filling-changing mechanism for looms	692,932	Feb. 11	1304	285 286	98	1095
Smith, Harry W., North Grafton, Mass. Weft-replenishing mechanism for looms	692,934	Feb. 11	1314	287	98	1096
Smith, Harry W., North Grafton, Mass. Weft-replenishing loom	697,684	Apr. 15	2425	340	99	544
Smith, Henry W., Worcester, Mass. Electric circuit closer for looms	691,679	Jan. 25	3014	683	98	684
Smith, Henry W., Worcester, Mass. Electric circuit closer for looms	692,924	Feb. 11	1291	283	98	1093
Smith, Henry W., Worcester, Mass. Electric circuit closer for looms	692,925	Feb. 11	1293	284	98	1092
Smith, Henry W., Worcester, Mass. Electric circuit closer for looms	692,926	Feb. 11	1295	284	98	1093
Smith, Henry W., Worcester, Mass. Electric circuit closer for looms	692,927	Feb. 11	1296	284	98	1093
Smith, Henry W., Worcester, Mass. Electric circuit closer for looms	692,928	Feb. 11	1298	284	98	1093
Smith, Henry W., Worcester, Mass. Electric circuit closer for looms	692,929	Feb. 11	1299	285	98	1093



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Smith, Harry W., Worcester, Mass. Electric-circuit closer for looms.....	692,980	Feb. 11	1301	285	98	1094
Smith, Harry W., Worcester, Mass. Electric-circuit closer for looms.....	692,981	Feb. 11	1302	285	98	1094
Smith, Harry W., Worcester, Mass. Weft-replenishing mechanism for looms.....	692,983	Feb. 11	1309	286	98	1096
Smith, Harry W., Grafton, Mass. Weft-replenishing mechanism for looms.....	692,985	Feb. 11	1319	287	98	1097
Smith, Harry W., Sutton Coldfield, W. T. Giddens, Langley Green, near Birmingham, and A. G. Salamon, London, assignors to British Cyanides Company, Limited, Oldbury, England. Making sulfocyanides from coal-gas.....	705,152	July 22	3437	747	100	745
Smith, Henry, Milwaukee, Wis. Pneumatic maling-drum.....	700,842	May 27	3391	778	99	1924
Smith, Henry, Kew, Victoria, Australia. Decoration of woodwork.....	708,266	Sept. 2	497	114	100	2082
Smith, Henry, Sheffield, England. Racket or battledore.....	717,041	Dec. 30	4761	1032	101	2905
Smith, Henry, and G. N. Lemmon, Englewood, N. J. Carpenter's square.....	691,192	Jan. 14	1533	346	98	334
Smith, Henry A., Los Angeles, Cal. Padlock.....	710,722	Oct. 7	618	129	101	126
Smith, Henry C. (See Van Noorden and Smith.)						
Smith, Henry C., Cambridge, assignor to Smith-Warren Company, Boston, Mass. Metal window-sash.....	696,110	Mar. 25	3333	751	98	2456
Smith, Henry C., Cambridge, assignor to Smith-Warren Company, Boston, Mass. Window frame and sash.....	701,097	May 27	3850	885	99	2020
Smith, Henry C., and M. H. Woolsey, San Francisco, Cal. Antiseptic attachment for telephone-mouthpieces.....	708,671	Sept. 9	1206	275	100	2237
Smith, Hinsdale. (See Smith, Arthur P. and H.)						
Smith, Hinsdale, Springfield, Mass. Friction-clutch.....	701,953	June 10	1196	273	99	2374
Smith, Horace A., Cedar Rapids, Iowa. Adding device.....	700,448	May 20	2616	598	99	1745
Smith, Hudson, and P. C. Brown, Salt Lake City, Utah. Apparatus for use in extracting precious metals from their ores.....	711,236	Oct. 14	1626	349	101	353
Smith, Irving T., Brooklyn, N. Y. Magazine toy gun.....	708,417	Sept. 2	750	169	100	2133
Smith, Irving T., Brooklyn, N. Y. Magazine toy gun.....	710,723	Oct. 7	620	130	101	127
Smith, J. Raymond. (See Keyt, John E., assignor.)						
Smith, Jacob, Muncie, assignor of one-third to L. Good, Converse, Ind. Lawn-sprinkler.....	717,042	Dec. 30	4761	1032	101	2905
Smith, James G., Covington, Ky., assignor to Hildenbrandt's Automatic Hinge Company, Cincinnati, Ohio. Hinge.....	690,782	Jan. 7	804	178	98	169
Smith, James H. (See Lewis, William H., assignor.)						
Smith, James H., Chicago, Ill. Camera-stand.....	702,749	June 17	2679	616	99	2697
Smith, James H., Chicago, Ill. Adjustable camera-stand.....	708,612	Sept. 23	3128	697	100	2671
Smith, James H., Big Rapids, Mich. Stove-truck.....	710,394	Sept. 30	4624	1043	100	2996
Smith, James J., Latrobe, Pa. Switch.....	712,973	Nov. 4	960	223	101	1093
Smith, James L., Princeton, Ind. Portable seat.....	699,932	May 13	1565	360	99	1512
Smith, James M., Newark, N. J., assignor to J. Walrath, Racine, Wis. Electric igniting device for explosive-engines.....	691,498	Jan. 21	2143	481	98	482
Smith, James M., assignor of one-half to A. W. Belfry, Montreal, Canada. Printing-frame.....	703,672	July 1	549	124	100	108
Smith, James W., Woonsocket, R. I. Seam for sewed articles.....	690,354	May 6	231	51	99	1221
Smith, James W., Menlo, Ga. Fire-escape.....	709,519	Sept. 23	2977	663	100	2640
Smith, Jay A., Huntington, N. Y. Plate-holder attachment for cameras.....	715,617	Dec. 9	1826	405	101	2226
Smith, Jay H., Rochester, N. Y. Expandible tree-protector.....	694,208	Feb. 25	3805	841	98	1641
Smith, Jesse T., Chapel Hill, Tenn. Rein-support.....	702,498	June 17	2215	505	99	2602
Smith, John, et al. (See Smith, Enos, assignor.)						
Smith, John, assignor of one-half to H. Brandie, Philadelphia, Pa. Candy-cutting machine.....	701,635	June 3	650	142	99	2244
Smith, John A. (See Holdridge, Clarence A., assignor.)						
Smith, John A., Dayton, Ohio. Clamp.....	707,803	Aug. 26	3517	794	100	1890
Smith, John A., Derby, Conn. Type-writer.....	711,358	Oct. 14	1854	404	101	401
Smith, John A., Baltimore, Md., assignor to Smith Lyraphone Company. Friction-clutch.....	691,817	Jan. 28	2764	622	98	627
Smith, John A., Baltimore, Md., assignor to Smith Lyraphone Company. Variable-speed mechanism.....	698,866	Apr. 23	4724	1041	99	1071
Smith, John A., Baltimore, Md., assignor to Smith Lyraphone Company. Automatic attachment for pianos.....	699,931	May 13	1564	360	99	1512
Smith, John A., Baltimore, Md., assignor to Smith Lyraphone Company. Fastening for mechanical piano-players.....	711,540	Oct. 21	2209	480	101	489
Smith, John C. (See Hewett and Smith.)						
Smith, John C., Mangum, N. C. Handle for agricultural tools.....	711,791	Oct. 21	2686	592	101	599
Smith, John D., Bonham, Tex. Spring-scale.....	698,334	Apr. 23	3631	802	99	817
Smith, John E., Delaware, Ohio. Stamping-indicator.....	713,516	Nov. 11	2054	460	101	1335
Smith, John F., and J. S. Hull, New York, N. Y.; said Smith assignor to said Hull. Cuff-holder.....	704,765	July 15	2598	562	100	557
Smith, John G., Denver, Colo., assignor of one-half to F. M. Irish. Celery-harvesting implement.....	690,899	Jan. 7	1003	227	98	210
Smith, John K., Hartford City, Ind. Corn-husking machine.....	708,500	Sept. 2	899	204	100	2164
Smith, John L. (See Saniter and Smith.)						
Smith, John L., and R. Bedford, Jr., Eaglescliff, assignors of one-third to South Durham Steel and Iron Company, Limited, Stockton-on-Tees, England. Open-hearth steel process.....	691,297	Jan. 14	1736	395	98	377
Smith, John M., Atlanta, Ga. Vehicle.....	694,200	Feb. 25	3809	842	98	1641
Smith, John M., Atlanta, Ga. Vehicle.....	713,517	Nov. 11	2057	460	101	1336
Smith, John T., Heron Lake, Minn. Machine for treating flax.....	692,936	Feb. 11	1323	288	98	1098
Smith, John T., Heron Lake, Minn. Machine for treating flax or hemp straw.....	704,770	June 3	876	195	99	2231
Smith, John T., Heron Lake, Minn. Flax-thresher.....	716,587	Dec. 23	3786	826	101	2675
Smith, John W., Ottawa, Canada. Car-coupling.....	703,460	July 1	190	48	100	42
Smith, John W., Boston, Mass. Hobby-horse.....	715,887	Dec. 16	2386	529	101	2364
Smith, John W., and J. M. Coughlin, assignors of one-third to N. L. Heckman, Liberty, Ind. Disk grain-drill.....	716,774	Dec. 23	4138	907	101	2747
Smith, John Y., Doylestown, Pa., assignor to W. R. Dewey, trustee, Newton, Mass. Exhaust-apparatus.....	705,713	July 29	4645	1006	100	999
Smith, Jonas P., Peru, Ind., assignor of one-half to J. A. Beverly, Omaha, Nebr. Expanding-pump for oil or Artesian wells.....	704,136	July 8	1457	312	100	306
Smith, Joseph N., et al. (See Lowe, John T., assignor.)						
Smith, Joseph R., assignor to Waterbury Button Company, Waterbury, Conn. Packet-fastener.....	705,463	July 22	4101	891	100	880
Smith, Joseph W., Westminster, Md. Silo.....	691,818	Jan. 28	2765	623	98	627
Smith, Kline & French Company. (See England, Joseph W., assignor.)						
Smith, Lawrence N. W., Ree Heights, S. D. Handle-bar.....	700,008	May 13	1859	434	99	1570

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Smith, Leonard M. (See Cosseboom, Robert J., assignor.)						
Smith, Lincoln G., Des Moines, Iowa. Boiler-furnace	713,811	Nov. 18	2601	580	101	1464
Smith, Lloyd E., Portsmouth, Ohio. Water supply and filtering system	699,082	Apr. 29	5005	{1107 1108}	99	1128
Smith, Louis C. (See Brown, John, assignor.)						
Smith, Louis J., Leroy, and W. F. Bossert, assignors to Bossert Electric Construction Company, Utica, N. Y. Electrical knife-switch	698,417	Apr. 22	3777	883	99	848
Smith, Lucius A., Topeka, Kans. Hernial truss	690,624	Jan. 7	492	107	98	105
Smith, Luella, Alliance, Nebr., assignor of one-half to J. M. Dickey, Monon, Ind. Braiding attachment for sewing-machine	708,418	Sept. 2	752	169	100	2183
Smith, Lundy B., et al. (See Smith, Roy E., assignor.)						
Smith, Luther D., assignor to Ideal Register Co., Detroit, Mich. Hot-air register	691,733	Jan. 21	2570	576	98	570
Smith, Lyrophone Company. (See Smith, John A., assignor.)						
Smith, M. H., et al. (See Colman, Charles, assignor.)						
Smith, Malcom O., assignor of one-half to T. J. Coster, Depew, N. Y. Storage battery	703,490	July 1	201	48	100	42
Smith, Marcellus L. (See Swarthout, George H., assignor.)						
Smith, Martin L., Elwell, Iowa. Foldable table-spread support	694,438	Mar. 4	195	43	98	1754
Smith, Martin V., Philadelphia, Pa., assignor, by mesne assignments, to American Stoker Company, Gas-producer	715,310	Dec. 9	1265	{268 269 289}	101	2115
Smith, Martin V., assignor to American Stoker Company, New York, N. Y. Generating-producer-gas	715,311	Dec. 9	1267	{270 279}	101	2116
Smith, Matthew, Liverpool, assignor of one-half to E. H. Walker, Bootle, county of Lancaster, England. Artificial foot	703,156	June 24	3477	799	99	2875
Smith, Millard E., Parsons, Kans. Embroidery-loop holder	698,572	Apr. 29	4051	896	99	920
Smith, Myron A., assignor to International Machine Co., New York, N. Y. Confectionery-cutter	698,567	Apr. 29	4726	1041	99	1071
Smith, Myron A., assignor to International Machine Co., New York, N. Y. Filter and hydraulic press member	707,029	Aug. 12	1963	{439 440}	100	1534
Smith, Myron A., assignor to International Machine Co., New York, N. Y. Coating-machine	708,267	Sept. 2	499	114	100	2082
Smith, Nellie F. (See Hurd, Charles L., assignor.)						
Smith, Orien R., and F. T. Bisbee, Athens, Mich. Fence-post-making machine	700,232	May 20	2226	509	99	1667
Smith, Orien R., and F. T. Bisbee, Athens, Mich. Fence-post	700,233	May 20	2502	573	99	1720
Smith, Perry C., Indianapolis, Ind. Gage	690,530	Jan. 7	315	63	98	68
Smith, Persifer F., Pittsburg, Pa. Bottom for sheet-heating furnaces	698,148	Apr. 22	3305	724	99	748
Smith, Peter J., Idaho Springs, Colo. Ore-car	695,344	Mar. 11	1908	425	98	2129
Smith, Philip S. (See Smith, Winfield S., assignor.)						
Smith, Philip S., assignor of three-fourths to H. B. Smith, Brooklyn, N. Y., J. S. Stokes, Moorestown, N. J., and W. S. Smith, Pawtucket, R. I. Box-covering machine	691,329	Jan. 14	1809	{411 412 413 414 415}	98	392
Smith and Phillips Manufacturing Company (See Phillips, Francis V., assignor.)						
Smith Railway Mail Service Company. (See Smith, George W., assignor.)						
Smith, Richard, Fort William, Canada. Animal-stall	707,947	Aug. 26	3789	551	100	1943
Smith, Robert, Waterloo, Iowa. Parlor game	713,704	Nov. 18	2406	537	101	1422
Smith, Robert, and H. W. Leonhard, assignors of one-third to E. Dankhof, St. Louis, Mo. Fender	692,187	Jan. 28	3420	774	98	750
Smith, Robert A. (See Davison, Tom C., assignor.)						
Smith, Robert F. W., assignor to Electric Ozone Syndicate, Limited, London, England. Ozonizer for wounds, &c.	695,657	Mar. 18	2481	563	98	2267
Smith, Robert F. W., assignor to Electric Ozone Syndicate, Limited, London, England. Ozone-inhaler	695,658	Mar. 18	2482	{563 564}	98	2267
Smith, Robert G., and J. H. Mathis, Forrest City, Ark. Hanger coupling-bearing for screw conveyers	701,636	June 3	652	142	99	2245
Smith, Robert G., and J. H. Mathis, Forrest City, Ark. Automatic stovepipe-damper	710,901	Oct. 7	946	207	101	192
Smith, Robert H., Zanesville, Ohio. Sight for firearms	717,294	Dec. 30	5252	1147	101	3011
Smith, Robert P., assignor of one-half to R. L. Banks, New York, N. Y. Broiler	715,700	Dec. 9	1983	444	101	2259
Smith, Roswell P., et al. (See Cook, Howard, assignor.)						
Smith, Roy E., assignor of two-thirds to L. B. and C. T. Smith, Portland, Oreg. Instrument for cooling or for warming internal portions of the human body	697,181	Apr. 8	1495	334	99	337
Smith, Rudolph C., Yonkers, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Electric elevator	710,625	Oct. 7	443	92, 93	101	89
Smith, Rudolph C., Yonkers, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Safety device for elevators	713,705	Nov. 18	2406	537	101	1422
Smith, Rudolph C., Yonkers, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Safety device for elevators	713,706	Nov. 18	2409	{537 538}	101	1423
Smith, Rudolph C., Yonkers, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Safety device for elevators	713,707	Nov. 18	2413	538	101	1421
Smith, Samuel. (See Beal and Smith.)						
Smith, Samuel, assignor of one-half to A. A. Peabody, Lawrence, Mass. Drag device for bobbins of drawing and spinning frames	705,153	July 22	3438	747	100	746
Smith, Samuel S., Lewis Township, Northumberland county, Pa. Paper-bag fastener	707,080	Aug. 12	1965	440	100	1534
Smith, Samuel T., et al. (See Smith, Charles W., assignor.)						
Smith, Samuel W., et al. (See Walter, William L., assignor.)						
Smith, Seth, Castana, Iowa. One-horse cultivator	715,888	Dec. 16	2388	529	101	2365
Smith, Seth H., Hillsdale, Mich. Compound lumber	704,944	July 15	3001	643	100	643
Smith & Sons Manufacturing Company. (See Livengood, Winfield S., assignor.)						
Smith, Solomon, assignor of two-thirds to J. J. Lightcap and J. E. Albright, Ravenna, Ohio. Machine for forming ball-shaped or spherical bodies	694,330	Feb. 25	4090	910	98	1692
Smith, Sommers N., Philadelphia, Pa. Manufacturing ice	703,314	June 24	3730	860	99	2926
Smith, Sommers N., Philadelphia, Pa. Apparatus for manufacturing ice	703,315	June 24	3731	860	99	2927
Smith, Sommers N., assignor of forty-nine one-hundredths to F. B. Matthews, Philadelphia, Pa. Apparatus for manufacturing ice	703,353	June 24	3821	878	99	2947
Smith & Sons Manufacturing Company. (See Livengood, Winfield S., assignor.)						
Smith, Stansbury J., Pine Bluff, Ark. Freight-car door	692,937	Feb. 11	1328	289	98	1099
Smith, Stephen, Edinburgh, Scotland. Temporary coupling for chains, &c	703,843	July 1	862	189	100	173
Smith, Stephen D., Orlando, Fla. Machine for preventing deposition of frost on vegetation	703,316	June 24	3733	860	99	2927
Smith, Stephen G., Hannibal, Mo. Air-diffuser	701,228	May 27	4091	941	99	2070
Smith, Stephen T. (See Burridge and Smith.)						
Smith, Stephen T. (See Martin, Richard, assignor.)						
Smith, Sydney, Glasgow, Scotland. Rotary engine	699,720	May 13	1136	{265 266}	99	1421
Smith, Sydney, Milton-of-Campsie, Scotland. Means for propelling cycles or other light vehicles	715,889	Dec. 16	2389	{529 530}	101	2365



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Smith, Theodore, Chicago, Ill. Bracket	706,122	Aug. 5	218	46	100	1161
Smith, Thomas, assignor of two-thirds to C. E. Hoag and R. M. Thomas, San Luis Potosi, Mexico. Metallic packing	708,268	Sept. 2	501	115	100	2083
Smith, Thomas A., Azusa, Cal. Word-counter	711,359	Oct. 14	1856	405	101	402
Smith, Thomas A., Salem, assignor of one-half to N. L. Moore, Mitchell, Ind. Coffin	716,122	Dec. 16	2856	629	101	2165
Smith, Thomas C., et al. (See Muckle, Mark R., Jr., assignor.)						
Smith, Thomas H., Lansford, Pa. Umbrella-stick	709,352	Aug. 5	696	152	100	1257
Smith, Thomas H., assignor of one-half to E. E. Randolph, Manito, Ill. Cultivator-shovel	697,897	Apr. 15	2807	621	99	629
Smith, Thomas J., Shelton, Stoke-upon-Trent, England. Roller printing-machine	709,793	Sept. 30	3762	850	100	2813
Smith, Thomas L., Milwaukee, Wis. Mixing-machine	690,733	Jan. 7	805	178	98	170
Smith, Thomas S., assignor to Pacific Coast Manufacturing Company, Los Angeles, Cal. Ejector	714,961	Dec. 2	636	133	101	1963
Smith, Thomas T., near Warrenton, Va. Automatic pan-lifter	695,502	Mar. 18	2172	490	98	2203
Smith, Valerius Y., Oakland, Cal. Hand rock-drill	702,409	June 17	2216	505	99	2992
Smith, W. T., et al. (See Fulghum, Frederick A., assignor.)						
Smith, Walter B., Marlboro, Mass. Puzzle	700,573	May 20	2847	653	99	1793
Smith, Walter L., Garwin, Iowa. Sound-motor	701,410	June 3	222	50	99	2153
Smith-Warren Company. (See Smith, Henry C., assignor.)						
Smith, Watson, London, England, assignor to Firm of E. Merck, Darmstadt, Germany. (Ined) arsenical marking same	705,545	July 22	4324		100	922
Smith-Watson Manufacturing Company. (See Paynter and Watson, assignors.)						
Smith-Watson Manufacturing Company. (See Smith and Watson, assignors.)						
Smith-Watson Manufacturing Company. (See Watson, Frank C., assignor.)						
Smith, William, McKeesport, Pa. Die for tapered pipes or tubes	712,974	Nov. 4	961	223	101	1093
Smith, William, assignor of one-half to P. C. Robinson, Bastrop, La. Station-indicator	698,754	Apr. 29	4472	989	99	1012
Smith, William A., Cleveland, Ohio. Producing varnish-oils	708,178	Sept. 2	337		100	2050
Smith, William A., Beaver, assignor of one-half to J. W. Moores, Russellville, Ky. Valve	711,792	Oct. 21	2687		101	590
Smith, William A., Aylmer, and W. R. Harp, Denver, Colo., said Smith assignor to said Harp. Box-car loader	710,902	Oct. 7	947	208	101	198
Smith, William B., Aurora, Ill. Egg-beater holder	711,185	Oct. 14	1531	329	101	333
Smith, William B., Perth Amboy, assignor to Blackburn Smith Company, Jersey City, N. J. Centrifugal separator	710,626	Oct. 7	445	93	101	89
Smith, William D., Hudsens, Ill. Thill-support	697,286	Apr. 8	1689	377	99	380
Smith, William F., San Francisco, Cal. Message transmitting and recording mechanism for telephone systems	711,453	Oct. 14	2926	399	101	437
Smith, William H., Eureka, Ill. Seeder	696,356	Mar. 25	3847	855	98	2561
Smith, William H., Pawtucket, R. I. Brake mechanism	716,775	Dec. 23	4195	907	101	2748
Smith, William J., East St. Louis, Ill. Nursing-bottle holder	716,588	Dec. 23	3802	826	101	2676
Smith, William L., Boston, Mass. Educational apparatus	706,463	Aug. 5	932	204	100	1304
Smith, William L., New York, N. Y. Apparatus for impregnating wood	711,080	Oct. 14	1313	284	101	285
Smith, William M., New Cumberland, W. Va., assignor of one-half to G. A. McCandless, Oakdale, Pa. Braced fence-post	708,087	Sept. 2	159	38	100	2014
Smith, William R., assignor of one-fifth to J. R. Schnebly, Topeka, Kans. Grain-bin for cars	712,736	Nov. 4	494	117	101	1000
Smith, William S., Springfield, Mass. Anchor-bushing for screws, &c.	697,896	Apr. 15	2806	620	99	628
Smith, William T. (See Ostrander, William H., assignor.)						
Smith, William T., Philadelphia, Pa. Woven pile fabric	691,193	Jan. 14	1325	246	98	335
Smith, William T., Philadelphia, Pa. Woven fabric	705,464	July 22	4102	892	100	880
Smith, William T., Philadelphia, Pa. Woven fabric	707,871	Aug. 26	3648	822	100	1914
Smith, William W., Kansas City, Mo. Marine railway-car transport	698,573	Apr. 29	4053	896	99	921
Smith, Wilson. (See Clark and Smith.)						
Smith, Winfield S., et al. (See Smith, Philip S., assignor.)						
Smith, Winfield S., Pawtucket, R. I., assignor of one-half to P. S. Smith, Philadelphia, Pa. Machine for shaping bones	700,843	May 27	3393	779	99	1924
Smith, Zachary D., Springfield, Ill. Seal for labeled wire	708,596	Sept. 9	1063	241	100	2297
Smithline, John A., and A. F. Zaiser, Los Angeles, Cal. Pouch	709,561	Sept. 23	3043	678	100	2653
Snitz, Adolph M., Depere, Wis. Chair	697,372	Apr. 8	1820	408	99	407
Smoke Extirminator and Fume Condenser Company. (See Jackson, William B., assignor.)						
Smoke Preventer Company. (See Stones, William G., assignor.) (Reissue.)						
Smolensky, Isadore. (See Sander, Charles, assignor.)						
Smoot, E. (See Harris, Franklin P., assignor.)						
Smyser, Louis B., Newark, N. J., assignor to F. E. Canda, New York, N. Y. Sparkler for gas-engines	714,049	Nov. 18	3061	681	101	1567
Smyth, David G. (See Smyth and Hastings.)						
Smyth, David M., Pasadena, Cal., assignor, by mesne assignments, to Smyth Machine Company, Hartford, Conn. Feeding mechanism for sewing-machines	704,137	July 8	1459	312	100	307
Smyth, David M., Pasadena, Cal. D. I. Smyth and H. Hastings, assignors, by mesne assignments, to Smyth Machine Company, Hartford, Conn. Signature-gatherer	715,890	Dec. 16	2390	531	101	2365
Smyth Machine Company. (See Smyth, David M., assignor.)						
Smyth Machine Company. (See Smyth and Hastings, assignors.)						
Smyth Manufacturing Company. (See Jacobs, Arthur I., assignor.)						
Smyth Manufacturing Company. (See Jacobs, Arthur I., assignor.) (Reissue.)						
Smyth Manufacturing Company. (See Taylor, Frederick D., assignor.)						
Smyth, Milton B., Holton, Kans. Hermal truss	701,954	June 10	1199	273	99	2375
Smyth, Milton B., Holton, Kans. Truss	715,701	Dec. 9	1983	444	101	2250
Smyth, William H., Berkeley, and K. I. Faust, assignors to Faust Menugraph Company, San Francisco, Cal. Menugraph	691,013	Jan. 14	1224	277	98	270
Smythe, Edwin H. (See De Forest and Smythe.)						
Snader, Edward L., New York, N. Y. Theatrical scenic arch	716,490	Dec. 23	3589	784	101	2632
Snavey, Benjamin H., Brunnersville, and T. H. Keller, Lititz, Pa. Automatic cigar-making machine	706,267	Aug. 5	513	112	100	1220
Snavey, John A., Crockett Depot, Va. Hydraulic ram	715,167	Dec. 2	986	214	101	2038
Sneekner, Frank A. L., Coscob, assignor to C. H. Loundsbury, Stamford, Conn. Starting mechanism for gas-engines	708,157	June 24	3478	799	99	2675
Snedden, Richard, Cleveland, Ohio. Machine for cutting confectioneries	691,499	Jan. 21	2148	482	98	483
Sneddon, James P., Barborton, Ohio, assignor to Stirling Company, Chicago, Ill. Ignition-arch	690,473	Jan. 7	181	37	98	39
Sneddon, James P., Barborton, Ohio, assignor, by mesne assignments, to Stirling Company, Jersey City, N. J. Apparatus for forming hollow or tubular articles of irregular shape	698,171	Feb. 11	1774	398	98	1193

## Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Sneddon, James P., Barborton, Ohio, assignor, by mesne assignments, to Stirling Company, Jersey City, N. J. Forming hollow or tubular articles of irregular shape	693,172	Feb. 11	1797	393	98	1193
Sneddon, James P., Barborton, Ohio, assignor, by mesne assignments, to Stirling Company, Jersey City, N. J. Apparatus for shaping hollow or tubular articles of irregular shape	693,173	Feb. 11	1799	394	98	1193
Sneddon, James P., Barborton, Ohio, assignor, by mesne assignments, to Stirling Company, Jersey City, N. J. Forming hollow or tubular articles	693,174	Feb. 11	1802	394	98	1194
Sneddon, James P., Barborton, Ohio, assignor, by mesne assignments, to Stirling Company, Jersey City, N. J. Apparatus for forming hollow or tubular articles	693,175	Feb. 11	1804	394	98	1194
Sneddon, James P., Barborton, Ohio, assignor, by mesne assignments, to Stirling Company, Jersey City, N. J. Wrought iron header	693,176	Feb. 11	1807	394	98	1195
Sneddon, James P., Barborton, Ohio, assignor, by mesne assignments, to Stirling Company, Jersey City, N. J. Apparatus for flanging holes in tubular articles	693,177	Feb. 11	1809	395	98	1195
Sneddon, James P., Barborton, Ohio, assignor, by mesne assignments, to Stirling Company, Jersey City, N. J. Apparatus for forming hollow or tubular articles of irregular shape	693,178	Feb. 11	1812	395	98	1196
Sneddon, James P., Barborton, Ohio, assignor, by mesne assignments, to Stirling Company, Jersey City, N. J. Shaping wrought-metal tubular articles of irregular shape	693,179	Feb. 11	1816	396	98	1196
Sneddon, James P., Barborton, Ohio, assignor to Stirling Company, Jersey City, N. J. Superheater	716,297	Dec. 16	3188	698	101	2532
Sneddon, James P., Barborton, Ohio, assignor to Stirling Company, Jersey City, N. J. Superheater	716,298	Dec. 16	3190	699	101	2533
Sneddon, James P., Barborton, Ohio, assignor to Stirling Company, Jersey City, N. J. Superheater	716,299	Dec. 16	3192	699	101	2533
Sneddon, James P., Barborton, Ohio, assignor to Stirling Company, Jersey City, N. J. Superheater	716,300	Dec. 16	3195	700	101	2534
Snedeker, Elbert, Brooklyn, N. Y. Cuff-holder	698,140	Apr. 22	3306	724	99	749
Snedeker, James W., and J. W. Page, Adrian, Mich. Wire or fence stretching machine	713,518	Nov. 11	2057	461	101	1336
Snediker, William E., Camden, N. J. Vise	699,585	May 6	871	202	99	1355
Snediker, William E., Camden, N. J. Vise	709,120	Sept. 16	2128	488	100	2449
Snell, Adolphus G., New Haven, Conn. Carriage-lock	699,984	May 13	1667	382	99	1531
Snell, Daniel, Harmony, Ind. Window-fastening device	709,726	Sept. 23	3323	747	100	2711
Snell, David C. E., Lovelady, Tex. Check-line buckle	698,008	Apr. 22	3130	689	99	714
Snell, Fred A., Providence, R. I. Form for tack-machines	706,268	Aug. 5	535	116	100	1224
Snell, George D., assignor to Mistletoe Cream Company, Denver, Colo. Combined display-rack and advertising device	701,816	June 3	935	212	99	2308
Snell, Oscar, assignor of one-half to A. E. Keith, Chicago, Ill. Moving-picture machine	695,003	Mar. 11	1278	281	98	2000
Snellebrand, Cornelis W., and J. P. R. de Britto, Rio Janeiro, Brazil. Appliance for cleaning floors, walls, windows, &c.	701,637	June 3	654	142	99	2245
Snelus, George J., Frizington, England. Apparatus for the manufacture of iron and steel	714,616	Nov. 25	4170	923	101	1805
Snethen, Jacob F., Humboldt, Nebr. Hay-fork	692,489	Feb. 4	467	109	98	894
Snider, Charles A., Jersey City, N. J. Nozzle	692,375	Feb. 4	276	67	98	856
Snider, F. E. (See Doolittle, Charles A., assignor.)						
Snider, Gabriel F., Abington, Iowa. Mail-pouch	700,844	May 27	3398	780	99	1926
Snider, Harrison, Indianapolis, Ind. Winding staircase	705,794	July 29	4782	1037	100	1028
Snider, Jay J., Xenia, Ohio. Ore-separator	691,819	Jan. 28	2766	623	98	627
Snider, Milton A. (See Watson, Henry F., assignor.)						
Snigo, John A., Pittsburg, Pa. Ice-cream freezer	690,532	Jan. 7	318	63	98	69
Snodgrass, Henry F., Wheeling, W. Va. Sham pillow	693,454	Feb. 18	2345	513	98	1328
Snook, Charles W., Clarksville, Ohio. Fence-post	697,091	Apr. 8	1247	278	99	254
Snook, Frank G. (See Drew, Warren F., assignor.)						
Snook, Simon M., Scranton, Pa. Folding table	691,194	Jan. 14	1535	347	98	335
Snow, Arthur E., Syracuse, N. Y. Bottle-stopper	710,219	Sept. 30	4322	972	100	2993
Snow, Charles H., San Francisco, Cal. Automatic-dumping ore-car	697,685	Apr. 15	2428	540	99	545
Snow Dental Company. (See Snow, George B., assignor.)						
Snow, Elmer J., Mahwah, assignor to American Brake Shoe and Foundry Company, Jersey City, N. J. Brake-shoe	710,530	Oct. 7	266	59	101	51
Snow, George B., assignor to Snow Dental Company, Buffalo, N. Y. Gas-blowpipe	709,830	Sept. 23	3537	797	100	2755
Snow, Gilbert B., assignor to Elgin Wind Power and Pump Company, Elgin, Ill. Wind-mill	702,161	June 10	1588	359	99	2453
Snow, Isaac. (See Bailey and Snow.)						
Snow, John A., Youngstown, Ohio. Railway-signal-operating apparatus	703,218	June 24	3587	824	99	2898
Snow, Stephen, Everett, Mass., assignor to Peerless Machinery Company, Charleston, W. Va., and New York, N. Y. Lasting-machine	701,411	June 3	223	50	99	2153
Snow, Stephen, Everett, Mass., assignor to Peerless Machinery Company, Charleston, W. Va., and New York, N. Y. Lasting-machine	701,412	June 3	225	51	99	2154
Snow, Theodore W. (See Winters, David L., assignor.)						
Snow, William A., West Somerville, Mass. Cow-stall	716,952	Dec. 30	4578	994	101	2866
Snyder, Andrew J., Cassopolis, Mich., assignor of one-half to D. S. Talleday. Automatic wagon-brake	713,250	Nov. 11	1502	340	101	1220
Snyder, Charles H., Lansing, Mich. Water-purifier	691,880	Jan. 28	2868	646	98	649
Snyder, Daniel K., Portsmouth, Va. Non-refillable bottle	699,421	May 6	572	130	99	1293
Snyder, Ephraim H., Hagerstown, Md. Device for handling, draining, and displaying fish	691,918	Jan. 28	2993	661	98	662
Snyder, Frank, assignor to Hunter Arms Company, Fulton, N. Y. Breech-loading firearm	694,331	Feb. 25	4091	910	98	1692
Snyder, Frank, assignor to Hunter Arms Co., Fulton, N. Y. Gun-lock	695,242	Mar. 11	1727	383	98	2093
Snyder, John G., Green Island, N. Y. Cylinder for threshing-machines	717,043	Dec. 30	4762	1032	101	2905
Snyder, Max, Beatty, Pa. Boiler-tube cleaner	690,474	Jan. 7	183	37	98	40
Snyder, Philo, et al. (See Jacoby, William, assignor.)						
Snyder, Porus M. (See Putt, Joseph A., assignor.)						
Snyder, Robert, et al. (See Pickel, John W., assignor.)						
Snyder, Robert F., assignor of one-half to W. A. and C. W. Owen, Toledo, Ohio. Cleaner for sieves	711,133	Oct. 14	1402	303	101	306
Snyder, Ward B., Freneau, N. J., assignor of one-half to H. T. Andrews, New York, N. Y. Handle for driving-reins, &c.	692,168	Jan. 28	3380	766	98	751
Snyder, William D., Rives, Ohio. Coupling for well-drilling tools	695,659	Mar. 18	2483	564	98	2267
Snyder, William R., Puyallup, Wash. Gate	690,667	Jan. 7	574	125	98	123
Solter, Coleman K. (See Bostian, Charles P., assignor.)						
Sobolewski, John A., St. Louis, Mo. Gas-valve apparatus for open-hearth furnaces	714,962	Dec. 2	637	134	101	1963



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Società Italiana di Applicazioni Elettriche. (See Taddei Girolamo, assignor.)						
Société Alsacienne de Constructions Mécaniques. (See Wenning and Gégauff, assignors.)						
Société Alsacienne de Constructions Mécaniques, et al. (See Brun and Bicking, assignors.)						
Société Anonyme d'Electricité et d'Automobiles Mors. (See Mors, Emile L. P., assignor.)						
Société Anonyme d'Etudes et d'Exploitation des Brevets A. Castelin pour Machines Agricoles Automobiles. (See Castelin, André, assignor.)						
Société Anonyme des Anciens Etablissements Panhard et Levassor. (See Krebs, Arthur C., assignor.)						
Société Anonyme des Etablissements Weyher et Richemond. (See Richemond, Pierre, assignor.)						
Société Anonyme des Tissages Cile. Brun et Fils, et al. (See Brun and Bicking, assignors.)						
Société Anonyme des Wagons Tubulaires. (See Riffart, Scipion, assignor.)						
Société Anonyme le Carbone. (See Bair, Michael M., assignor.)						
Société Anonyme le Carbone. (See Street, Ernest A. G., assignor.)						
Société Chimique des Usines du Rhône, anciennement Gilliard, P. Monnet et Cartier. (See Koetschet, Joseph, assignor.)						
Société D'Espine Achard et Cie. (See D'Espine, Charles, assignor.)						
Société des Inventions Jan Szezepanik & Cie. (See Szezepanik, Jan, assignor.)						
Société des Produits Amylacés. (See Loiselet, Jérôme, assignor.)						
Société Electro Metallurgique Française. (See Heroult, Paul L. T., assignor.)						
Société Française des Câbles Electriques, (Système Berthoud, Borel et Cie.) (See Borel, Charles, assignor.)						
Société Française du "Musicographe Reveillé," (Société Anonyme.) (See Réveillé, André, assignor.)						
Société Générale de Frenis Lipkowski. (See Lipkowski, Joseph, assignor.)						
Société Générale du Laminage Annulaire pour la Fabrication de Chaînes Sans Soudure. (See Giriot, Joseph, assignor.)						
Société Lafrique, Pinton et Cie. (See Lafrique, Gabriel, assignor.)						
Society Maschinenbau Actien-Gesellschaft, vormals Breitfeld, Danek & Co., Akciová Společnost Strojirny Drive Breitfeld, Danek & Spol. (See Kostálek, Josef, assignor.)						
Society Maschinenbau Actien-Gesellschaft, vormals Breitfeld, Danek & Co., Akciová Společnost Strojirny Drive Breitfeld, Danek & Spol. Karlin. (See Kostálek, Josef, assignor.)						
Society Vertrieb von Schmidt's Electr. Beleuchtungsapparat für Photographie, G. M. B. H. (See Schmidt, Jean, assignor.)						
Söderberg, Carl W., Nordstrand, near Christiania, Norway. Acetylene-gas generator.	704,945	July 15 3002	643 644	100	612	
Soderlund, Gustave A., Somerville, assignor of two-thirds to N. J. and O. L. Soderlund, Medford, Mass. Combination faucet.	698,315	Feb. 11 2068	452	98	1250	
Soderlund, Nils J., et al. (See Soderlund, Gustave A., assignor.)						
Soderlund, Oscar L., et al. (See Soderlund, Gustave A., assignor.)						
Sodor-Fabrik Zurich. (See Brischar, Franz J., assignor.)						
Soehren, John H., and C. J. Rohlf, Evely, Iowa. Attachment for stoves	698,751	Feb. 18 2907	639	98	1443	
Sohlner, Herman F. C., Brooklyn, N. Y. Mixing-pump	694,210	Feb. 25 3811	842	98	1642	
Soesbe, Harry E. (See Cook, Walter K., assignor.)						
Soetebier, Herman, Union, Mo. Wagon-body lifter	709,584	Sept. 23 3082	686	100	2664	
Sohlberg, Robert, et al. (See Darwin, Frank L., assignor.)						
Sohn, Louis H., St. Cloud, Wis. Combination vehicle and stationary scale	704,946	July 15 3004	644	100	644	
Sohst, Otto, assignor to Farbwerke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Yellow to red acridin dye and making same	712,421	Oct. 28 3893	67	101	855	
Solberg, Christopher, Eden Valley, Minn. Tire-heating device	692,376	Feb. 4 278	67	98	856	
Solenberger, Levi G., Chambersburg, Pa. Watch-movement fastener	709,131	Sept. 16 2129	488	100	2449	
Soley, Frank, assignor to Miller Lock Company, Philadelphia, Pa. Padlock	695,345	Mar. 11 1910	425	98	2130	
Soley, Frank, assignor to Miller Lock Company, Philadelphia, Pa. Padlock	695,346	Mar. 11 1911	426	98	2130	
Soley, Frank, assignor to Miller Lock Company, Philadelphia, Pa. Padlock	695,347	Mar. 11 1913	426	98	2130	
Soley, William H., Philadelphia, Pa., assignor of one-half to T. H. Dallett & Company. Pneumatic tool.	692,799	Feb. 4 1039	234	98	1008	
Sollitt, George, Hastings, New Zealand. Means for preventing racing in screw-propelled vessels.	716,123	Dec. 16 2858	690	101	2465	
Solomiac, Emile, Paris, France. Boiler	695,956	Mar. 25 3013	681 683	98	2389	
Solomon, David W., Arlington, Wash. Combined saw jointer and gage	690,668	Jan. 7 576	125	98	123	
Solomon, David W., assignor of one-half to N. Brown, Arlington, Wash. Saw-set.	706,895	Aug. 12 1678	376	100	1477	
Solomon, Emmet G. (See Haverly and Solomon.)						
Solomon, John E., and M. L. Spence, Sweedboro, N. J. Music-leaf turner	712,609	Nov. 4 284	67	101	958	
Solomon, Simon W., Ainsworth, Nebr. Cultivator blade and standard attachment	695,178	Mar. 11 1613	357	98	2070	
Solon, Kate. (See Solon, Thomas F., assignor.)						
Solon, Thomas F., West Superior, assignor to K. Solon, Douglas county, Wis. Liquid-vending machine	713,019	Nov. 4 1095	241 242	101	1108	
Soltmann, Edward G., New York, N. Y. Holder for ink-bottles.	714,827	Dec. 2 349	77	101	1907	
Solverson, Henry M., Chicago, Ill. Detachable water-closet seat	710,021	Sept. 30 3930	888	100	2849	
Somerby, William A., Boston, Mass. Nut-lock	715,891	Dec. 16 2398	531	101	2367	
Somers, David and O., and C. Powers, Ossian, Ind. Corn-planter	691,195	Jan. 14 1537	347	98	335	
Somers, Oral. (See Somers and Powers.)						
Somers, William A. (See Smith and Somers.)						
Somerwill, William J., Cleveland, Ohio. Detonating toy	710,531	Oct. 7 268	59	101	54	
Sommer, Adolph, Cambridge, Mass. Electrolytic cell	707,894	Aug. 26 3519	704	100	1590	
Sommer, John, Point Lookout, Utah, and P. W. Sommer, Peoria, Ill. Fence-making machine	711,011	Oct. 14 1154	255	101	253	
Sommer, John L., Newark, N. J. Key-ring	715,892	Dec. 16 2399	531	101	2368	
Sommer, Karl F. F. G., Hamburg, Germany. Rapid tanning process	694,034	Feb. 25 3488	256	98	1578	
Sommer, Peter W. (See Sommer, John and P. W.)						
Sommerfeld, Heinrich, Canton, Kans. Sulky-plow	696,769	Apr. 1 714	161	99	152	
Sommerfeld, Heinrich, Canton, Kans. Grain-cleaner	705,154	July 22 3440	748	100	746	
Sommers, William D. (See Searles, Charles P., assignor.)						
Souander, Andrew, assignor to Foos Gas Engine Company, Springfield, Ohio. Governor for gas engines	692,082	Jan. 28 3251	734	98	724	
Sondheim, Lewis H., New York, N. Y. Producing mouthpieces on cigarettes	709,309	Sept. 16 2042	592	100	2557	
Songer, Wesley E., et al. (See Stearns, Edmund B., assignor.)						
Sonneborn, Mary C., Laporte, Ind. Washbottle attachment	695,766	Mar. 18 2656	693	98	2301	
Sontag, John M., Charles, Ill. Brooder	690,885	Jan. 7 975	221	98	205	
Soy-smith, Charles, New York, N. Y. Excavating and constructing tunnels or other subterranean or submarine structures	711,012	Oct. 14 1160	256	101	255	
Soy-smith, Charles, New York, N. Y. Driving piles	711,013	Oct. 14 1163	257	101	255	

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SooySmith, Charles, New York, N. Y. Placing piles.	713,164	Nov. 11	1829	299	101	1187
SooySmith, Charles, New York, N. Y. Solidifying and excavating the soil and constructing tunnels.	713,165	Nov. 11	1931	299	101	1187
SooySmith, Charles, New York, N. Y. Building tunnels, shafts, &c.	713,519	Nov. 11	2060	461	101	1336
SooySmith, Charles, New York, N. Y. Constructing tunnels.	713,520	Nov. 11	2062	461	101	1337
SooySmith, Charles, New York, N. Y. Tunnel.	713,521	Nov. 11	2064	462	101	1337
Soper, Lewis N., Guelph, Canada. Piano-action.	690,784	Jan. 7	810	179	98	171
Soper, William A., assignor of one-half to G. W. Sulser, Maysville, Ky. Ice-cream freezer.	698,574	Apr. 23	4054	897	99	921
Sørensen, Christen P., Copenhagen, Denmark. Rendering aluminium capable of being welded or soldered.	708,840	Sept. 9	1566		100	2312
Sørensen, Heinrich A., Hincley, Ill. Buggy boot or apron.	704,276	July 8	1701	371	100	357
Sørensen, Peter, Brooklyn, N. Y. Watch-demagnetizer.	702,500	June 17	2218	505	99	2603
Sørensen, Peter, assignor to J. and J. Jones, Jr., Brooklyn, N. Y. Electric time-switch mechanism.	691,014	Jan. 14	1228	277	98	271
Sorg, Oscar E., assignor of nine-tenths to H. Koons, Buffalo, N. Y. Coin-controlled liquid-feeding machine.	690,475	Jan. 7	187	38	98	41
Sorg, Oscar E., assignor of nine-tenths to H. Koons, Buffalo, N. Y. Fraud preventing device for coin-controlled apparatus.	690,476	Jan. 7	191	38, 39	98	41
Sorge, Adolph, Jr., Chicago, Ill. System of feed-water purification.	708,088	Sept. 2	160	38	100	2014
Sosna, Leopold R., assignor of one-half to R. J. Sosna, Philadelphia, Pa. Saw.	690,785	Jan. 7	812	179	98	171
Sosna, Rudolph J. (See Sosna, Leopold R., assignor.)						
Souder, Jacob J., Washington, D. C. Dumping-car.	715,312	Dec. 9	1269	270	101	2116
Souer, John E., Craigville, Ind. Tire-tightener.	698,868	Apr. 23	4727	1042	99	1071
Souhami, Leonard J. C., London, England. Belt-and-pulley gearing.	694,211	Feb. 25	3812	842	98	1642
Souls, George W., Meridian, Miss. Rotary engine.	717,461	Dec. 30	5546	1205	101	3070
Souleé, William T., Winchester, Mass. Toy.	717,295	Dec. 30	5253	1141	101	3011
Sourek, Joseph S., Bath, Ohio. Harvester-belt.	700,987	May 27	3646	838	99	1975
Sourek, Joseph S., Gheent, Ohio. Buckle.	714,828	Dec. 2	350	77	101	1908
South Bros., (See Davis, Calvin R., assignor.)						
South, Durham Steel and Iron Company. (See Smith and Bedford, assignors.)						
South, Richard. (See Gray and South.)						
South Western Rubber Company. (See Thame, James, assignor.)						
South, William A. (See Groombridge, Charles, assignor.)						
Southard, Abraham M., assignor of one-fourth to A. W. Colburn, Denver, Colo. Sash-lock.	708,976	July 1	1117	242	100	221
Southern Rice Polishing Machine Company. (See Welch, Rosia W., assignor.)						
Southmayd, Charles G., Chicago, Ill. Fountain-pen.	710,724	Oct. 7	622	130	101	127
Southwark Foundry & Machine Company. (See Lindroth, Carl O., assignor.)						
Southwark Foundry & Machine Company. (See Petsche, Gustav B., assignor.)						
Southwell, Frederick C., Sutton, and O. Kalls, Pershore, England. Hay-loader.	714,050	Nov. 18	3083	681	101	1567
Southwick, George W. (See Frost and Southwick.)						
Southwick, Plin C., Sandwich, Ill. Baling-press.	712,208	Oct. 28	3494	766	101	769
Southworth Brothers. (See Cobb, Elmer M., assignor.)						
Southworth, George M. D. (See Tower, William G., assignor.)						
Southworth, Sidney, Charlotte, Mich. Threshing-machine.	693,180	Feb. 11	1819	396	98	1197
Sovelius, Andrew, L., and O. Hancock, Mich. Twine-holder.	712,443	Oct. 28	3930	860	101	862
Sovelius, Leander. (See Sovelius, Andrew, L., and O.)						
Sovelius, Otto. (See Sovelius, Andrew, L., and O.)						
Sowden, Charles E., Basin, Mont. Automatic threshold.	704,395	July 8	1921	416	100	404
Sox, David A., Haralson, Ga. Grading-ploy.	705,155	July 22	3442	748	100	745
Sox, David A., Haralson, Ga. Ironing-table.	694,800	Mar. 4	897	199	98	1902
Spagnoletti, James E., assignor to Electric Railway Signalling Syndicate, Limited, London, England. Automatic electrical signaling apparatus for railways.	704,948	July 15	3007	645	100	645
Spahn, Rudolph, assignor to A. Stenger, Brooklyn, N. Y. Bung.	690,786	Jan. 7	812	179	98	172
Spaht, Albert W. (See Spaht, Henry R., A. W., and G.)						
Spaht, Gustave. (See Spaht, Henry R., A. W., and G.)						
Spaht, Henry R. and A. W., Pattonsburg, and G. Spaht, King City, Mo. Corn-harvester.	704,947	July 15	3005	644	100	644
Spake, William H. (See Haines, Samuel A., assignor.)						
Spalckhaver, William, Brooklyn, assignor to R. Hoe and Company, New York, N. Y. Printing-press.	697,558	Apr. 15	2159	486	99	497
Spalckhaver, William, Brooklyn, assignor to R. Hoe and Company, New York, N. Y. Web-printing press.				487		
Spalckhaver, William, assignor to R. Hoe and Company, New York, N. Y. Cylinder-machine for printing on sheets.	706,269	Aug. 5	536	116	100	1224
Spalding, Frank, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Micrometer-calipers.	703,491	July 1	203	48, 49	100	43
Spalding, Samuel J., Canton, Ohio, assignor of one-third to I. N. Willard, Syracuse, N. Y. Electromedical belt.	717,296	Dec. 30	5254	1141	101	3011
Spalding, Samuel J., Canton, Ohio, assignor of one-third to I. N. Willard, Syracuse, N. Y. Electromedical belt.	691,820	Jan. 28	2768	623	98	628
Spaulding, William P. (See Osten and Spaulding.)						
Spang, Joseph. (See Dorr and Spang.)						
Spangenberg, Robert F., New Orleans, La. System of and apparatus for controlling light effects.	715,702	Dec. 9	1985	444	101	2259
Spangler, John H., Crafton, Pa. Independent operating means for electric switches.	690,737	Jan. 7	813	179	98	172
Spangler, John H., and R. Herman, Crafton, Pa. Operating mechanism for electric switches.	690,886	Jan. 7	976	221	98	205
Spangler, Simon M., Newton, Kans. Combined scraper and scoop.	716,124	Dec. 16	2859	630	101	2466
Spann, James W. (See Wood and Spann.)						
Sparkman, William, Orangeville, Tex. Washing-machine.	706,353	Aug. 5	700	152	100	1258
Sparks, Frederick W. (See Keenan, Thomas P., assignor.)						
Sparks, George M. (See Carr, George J., assignor.)						
Sparks, Henry O., Monroe County, Mo. Hay-derick.	696,505	Apr. 1	196	47	99	46
Sparks, William A. (See Rappleyea and Sparks.)						
Sparkmaker, Frank P., Philadelphia, Pa., assignor to Acme Specialty Manufacturing Company, Faucet.	702,680	June 17	2555	586	99	2672
Sparrow, Stephen, and G. Fremd, Eminence, Ky. Toy.	711,014	Oct. 14	1164	257	101	256
Spates, Charles D., Rossway, assignor of one-half to S. M. Dakin, Centreville, Nova Scotia, Canada. Lawn-mower.	697,415	Apr. 8	1933	430	99	430
Spates, Charles D., Rossway, assignor to B. C. Goodwin, Granville, Canada. Bread-slicer.	715,168	Dec. 2	989	214	101	2038
Spaulding, Alfred F., Northfield, Vt. Driving mechanism.	704,230	July 8	1598	346	100	334
Spaulding, Charles, Boston, Mass. Blue-printing machine.	702,252	June 10	1739	393	99	2483
Spaulding, Charles W., Carroll, Iowa. Curette.	707,031	Aug. 12	1965	441	100	1534
Spaulding, Edgar A., Phoenix, Ariz. Ter. Harness-saddle.	691,015	Jan. 14	1230	277	98	272



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Spaulding, Eugene A. (See Cobb and Spaulding.)						
Spaulding, George H., deceased; L. L. Spaulding, administratrix, assignor to McCormick Harvesting Machine Company, Chicago, Ill. Grain-shocking attachment for harvesting-machines.	698,230	Apr. 22	3460	760 701 762	99	783
Spaulding, George H., deceased; (L. L. Spaulding, administratrix,) assignor of one-half to G. Niedermair, Chicago, Ill. Bicycle driving mechanism.	707,872	Aug. 26	3649	832	100	1914
Spaulding, James M., Syracuse, N. Y. Rail-fastener.	694,887	Mar. 4	675	147	98	1835
Spaulding, James M., Syracuse, N. Y. Rail-fastener.	704,221	July 8	1599	347	100	335
Spaulding, Lois L., administratrix. (See Spaulding, George H.)						
Spaulding, Mattie M., Chattanooga, Tenn. Catameneal sack.	708,033	Sept. 9	1727	400	100	2348
Spaulding, Raymond C., Montclair, N. J. Signaling.	716,301	Dec. 16	3197	700	101	2334
Spaulding, Russell, New York, N. Y. Forming electric conducting-cables.	715,313	Dec. 9	1272	271	101	2116
Spaulding, Wesley L., Manchester, N. H. Press.	697,287	Apr. 8	1690	377	99	380
Speakman, Fred. (See Sutcliffe, Edgar R., assignor.)						
Spear, Anson R., St. Paul, Minn. Golf-ball.	712,610	Nov. 4	285	68	101	958
Spear, Anson R., St. Paul, Minn. Golf-ball.	712,611	Nov. 4	286	68	101	958
Spear, Frank N., Los Angeles, Cal. Fuel-feeder for furnaces. (Reissue.)	11,964	Jan. 26	3501	792	98	776
Spear, Henry, Richmond, Va. Traveler's lock.	692,083	Dec. 28	3252	734	98	724
Spears, Ralph R., Wheeling, W. Va. Automatic registering device.	701,955	June 10	1209	273	99	2375
Spears, Ralph R., Wheeling, W. Va. Plate-handling machine.	707,172	Aug. 19	2243	502 503	100	1610
Specht, Eugene T., assignor of one-half to E. A. Eastman, Chicago, Ill. Buckle.	705,620	July 29	4469	969	100	965
Specht, Eugene T., assignor of one-half to E. A. Eastman, Chicago, Ill. Cast-off connection for suspenders.	705,621	July 29	4471	969	100	965
Specht, Eugene T., assignor of one-half to E. A. Eastman, Chicago, Ill. Cast-off.	705,622	July 29	4472	970	100	965
Specialty Manufacturing Company. (See Duncan, John R., assignor.)						
Speed Changing Pulley Company. (See Baase, Henry C., assignor.)						
Speer, Edward D. and H. N., New York, N. Y. Conduit for electric wires.	693,916	Feb. 25	3237	713	98	1528
Speer, George F., St. Louis, Mo. Portable crane.	697,686	Apr. 15	2459	540 541	99	545
Speer, Horace N. (See Speer, Edward D. and H. N.)						
Speer, Isaac N., St. Louis, Mo. Filter.	692,377	Feb. 4	280	68	98	857
Speer, Noah Q., Pittsburg, Pa. Sand-drier.	695,004	Mar. 11	1283	282 283	98	2001
Speice, George, assignor of one-half to C. Loesch and H. E. Steinheimer, Paragould, Ark. Rotary engine.	708,742	Sept. 9	3343	300	100	2267
Speicher, Daniel E., and V. Rousey, Urbana, Ind.; said Rousey assignor to said Speicher. Broadcast seed-sower.	712,342	Oct. 28	3727	814 815	101	819
Speir, Robert J. (See Weaver, William H. M., assignor.)						
Speirs, Albert S., New York, N. Y. Tobacco-pipe cleaner.	692,800	Feb. 4	1041	234	98	1009
Speirs, Albert S., Chicago, Ill. Smoking-pipe.	707,268	Aug. 19	2414	541	100	1646
Spellacy, Timothy. (See Shuster, Andy C., assignor.)						
Spelling, Thomas C., San Francisco, Cal. Truss.	697,082	Apr. 8	1248	278	99	284
Spelling, Thomas C., San Francisco, Cal. Ballot-marker.	712,612	Nov. 4	287	68	101	959
Spelling, Thomas C., San Francisco, Cal. Ballot-marker.	717,297	Dec. 30	5255	1141	101	3011
Spence, Charles H., St. Paul, Minn. Self-registering conveyer-chute.	695,957	Mar. 25	3015	683	98	2389
Spence, Gideon, Newport, R. I. Bicycle sprocket and crank.	709,934	Sept. 30	3764	850	100	2814
Spence, Martin L. (See Solomon and Spence.)						
Spence, Stewart J., Harriman, Tenn. Composition of materials for dentists' or other uses.	716,491	Dec. 23	3500		101	2632
Spencer, Albert F., assignor to Ansonia Electrical Company, Ansonia, Conn. Electric bell.	703,001	June 24	3349	770 790	99	2850
Spencer, Alexander, London, England. Piston-valve.	696,208	Mar. 25	3532	791 161	98	2496
Spencer, Alexander, London, England. Steam-boiler.	696,770	Apr. 1	716	162 163	99	153
Spencer, Alexander, London, England. Vacuum and water relief valve apparatus for locomotives.	696,847	Apr. 1	846	196 197	99	179
Spencer, Alexander, London, England. Cylinder relief-valve.	700,845	May 27	3399	781 780	99	1926
Spencer, Andrew J., Kansas City, Mo. Stock-ringer.	697,559	Apr. 15	2193	487	99	498
Spencer, Charles E., Baltimore, Md., assignor to W. D. Colt, Washington, D. C. Cigarette-machine.	690,887	Jan. 7	979	222 223	98	206
Spencer, Charles E., Baltimore, Md., and L. F. Whitaker, assignors to Pneumatic Tobacco Stemmer Company, Washington, D. C. Tobacco-stemming machine.	691,196	Jan. 14	1540	348 349	98	336
Spencer, Christopher M., Windsor, Conn. Feed-water regulator.	700,449	May 20	2618	598	99	1745
Spencer, Christopher M., Windsor, Conn. Vehicle running-gear.	700,450	May 20	2619	599	99	1746
Spencer, Ernest W., Portland, Oreg. Log-releasing device for scows.	705,465	July 22	4013	892	100	880
Spencer, Francis A., Orange, N. J. Sectional column for architectural purposes.	714,251	Nov. 25	3494	769	101	1670
Spencer, George H. (See Carleton, John A., assignor.)						
Spencer, George M., Washington, D. C. Cuten.	707,873	Aug. 26	3651	822	100	1914
Spencer, Henry, Elyria, Colo. Gas-making apparatus.	697,373	Apr. 8	1821	408	99	407
Spencer, John L., Elmira Heights, assignor of one-half to L. Tabor, Elmira, N. Y. Motor-vehicle frame.	693,181	Feb. 11	1820	396 397	98	1197
Spencer, Julius A., Dwight, Ill. Baling-press.	708,269	Sept. 2	503	115 116	100	2083
Spencer Lens Company. (See Dieckmann, Carl F., assignor.)						
Spencer, Richard F., et al. (See McDonnell, George F., assignor.)						
Spencer, Sidney G., Shreveport, La. Tag-fastener.	694,801	Mar. 4	898	200	98	1902
Spencer, William J., Schenectady, N. Y. Electric coil.	693,752	Feb. 18	2908	639	98	1444
Spencer, William, Jr., Schenectady, N. Y. Ventilated magnet-coil.	715,618	Dec. 9	1829	406	101	2222
Spencer, William A., et al. (See Wilcox, Edward M., assignor.)						
Spencer, William B., Chicago, Ill. Shaft-bearing.	703,492	July 1	206	49	100	44
Spencer, William B., Chicago, Ill. Crank-hanger.	704,138	Aug. 8	1462	313	100	307
Spencer, Wilton H. (See Hathaway and Spencer.)						
Sperling, Henry, Jersey City, N. J. Fire-escape.	693,533	Feb. 18	2496	548	98	1350
Sperry, Ellie N., assignor, by mesne assignments, to Bridgeport Hardware Manufacturing Company, Bridgeport, Conn. Nail-extractor.	708,841	Sept. 9	1561	356	100	2312
Sperry, Elmer A. (See Ramage, Alexander S., assignor.)						
Sperry, Elmer A., Cleveland, Ohio. Manufacturing elements for storage batteries.	713,020	Nov. 4	1087	630 631	101	1108
Sperry, Elmer A., Cleveland, Ohio. Electric railway.	716,125	Dec. 16	2860		101	2466
Sperry, Elmer A., Cleveland, Ohio, assignor, by mesne assignments, to National Battery Company. Electric battery and mounting same.	703,673	July 1	550	125	100	109
Sperry, Elmer A., Cleveland, Ohio, assignor, by mesne assignments, to National Battery Company. Connection for batteries.	703,674	July 1	552	125	100	109

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Sperry, Elmer A., Cleveland, Ohio, assignor to National Battery Company, Cleveland, Ohio, and Jersey City, N. J. Envelop for battery-electrodes.	686,209	Mar. 25	3534	791	98	2496
Sperry, Erwin S., Bridgeport, Conn. Improving castings of alloys containing copper and zinc.	694,688	Mar. 4	678	-----	98	1833
Sperry, Herbert B., Springfield, Ohio, assignor to Warder, Bushnell & Glessner Company, Springfield, Ohio, and Chicago, Ill. Grain-binder.	690,477	Jan. 7	193	39	98	42
Sperry, Charles F., assignor to B. A. Knight, Rockford, Ill. Pressure-regulator.	713,351	Nov. 11	1504	341	101	1220
Spicer, John, <i>et al.</i> (See Taylor, James W., assignor.)						
Spicer, William M. (See Tubbs, Nelson J., assignor.)						
Spiegel, Leopold, Berlin, assignor to Chemische Fabrik Guestrow, Guestrow, Germany.	716,770	Dec. 23	4137	-----	101	2748
Spiegel, William G., assignor of one-half to Aeolian Company, New York, N. Y. Musical instrument.	695,958	Mar. 25	3017	683 684	98	2389
Spiekerman, Frank. (See Howieson, John T., assignor.)						
Spiering, Ferdinand, Arlington, Minn. Garment-supporter.	707,092	Aug. 12	1967	441	100	1535
Spiers, James, Jr. (See Ray, Frederick, assignor.)						
Spies, Peter H. F., assignor of one-half to J. Norden, Mount Vernon, N. Y. Electric-arc lamp.	698,575	Apr. 29	4057	897	99	921
Spitschka, Vinzenz, Louisville, Ohio. Tank-wagon for delivering fermented liquids.	691,980	Jan. 28	3049	685	98	685
Spivey, William D. C., and J. T. Jones, Tacoma, Wash. Roasting, smelting, and matting furnace.	693,076	Feb. 11	1583	345	98	1151
Spillane, Thomas. (See Rallston, Isaac, assignor.)						
Spillane, William T., Red Lake Falls, Minn. Shovel attachment.	707,948	Aug. 26	3790	851	100	1943
Spillner-Spitzer, Otto, Brunnensdorf, near Kaaden, Austria-Hungary. Street-car tender.	705,466	July 22	4105	892	100	881
Spillman, William, assignor of one-half to J. W. Stearns, Pullman, Wash. Cheese-cutter.	701,098	May 27	3853	886	99	2020
Spillman, Harry E., <i>et al.</i> (See Tyler, Arthur M., assignor.)						
Spindler, Charles, Jersey City, N. J. Beer-storing apparatus.	698,869	Apr. 29	4729	1042	99	1072
Spindler, Charles, Jersey City, N. J. Apparatus for cleaning cellular tissues used in clarifying beer.	709,652	Sept. 23	5193	713	100	2683
Spindler, Paul, Hilden, Germany. Fabric-scouring attachment for looms.	702,116	June 10	3104	339	99	2435
Spink, Edward J., Davenport, Iowa. Extension-table.	694,439	Mar. 4	196	43	98	1754
Spillney, Henry C., Lynn, Mass., assignor to General Electric Company. Electric-arc lamp.	691,821	Jan. 28	2770	624	98	628
Spiral Belt Separator Co. (See Jessup, Robert W., assignor.)						
Spire, William G., Sheridan Township, Poweshiek county, Iowa. Stopper.	713,708	Nov. 18	2415	539	101	1424
Spiro, Charles, New York, N. Y. Type-writer type-bar and support.	708,270	Sept. 2	513	116	100	2085
Spiro, Charles, New York, N. Y. Type-writer.	714,252	Nov. 25	3496	769	101	1670
Spitzenberg, Georg K., Forsthaus Leuenbergewiesen, near Eberswalde, Germany. Sowing apparatus.	714,051	Nov. 18	3084	682	101	1567
Spitzli, George H., and G. B. Lord, said Lord assignor to A. B. Maynard, Utica, N. Y. Thill-coupling.	705,795	July 29	4784	1038	100	1028
Spitznagel, Frank X., Buffalo, N. Y. Bottle-washing machine.	701,956	June 10	1203	374	99	2375
Splitdorf, Charles F., New York, N. Y. Sparking-coil casing.	704,589	July 15	2292	498	100	494
Spoerl, Christian S. E., assignor of one-half to J. Kaschenbach, Wilkesbarre, Pa. Manufacture of tufted fabrics.	698,870	Apr. 29	4731	1042	99	1072
Sponenburgh, Hiram H. (See Laas and Sponenburgh.)						
Sponsel, Charles W., Hartford, Conn. Power mechanism.	695,005	Mar. 11	1284	233	98	2001
Sponseller, John E., and G. F. Genno, Hoisington, Kans. Air-chamber for pumps.	696,277	Mar. 25	3663	819	98	2533
Spoore, Ransom R., Newark, and J. M. Raub, Brooklyn, N. Y. Fence-post.	701,771	June 8	879	195	99	2292
Sporleder, Michael, Colorado City, Colo. Watchcase-pendant.	691,412	Jan. 21	1993	447	98	450
Sporrong, Carl A., Stockholm, Sweden, assignor, by mesne assignments, to E. Lundgren, A. Richardson, Brooklyn, and J. Whiteside, New York, N. Y. Apparatus for teaching gun practice.	707,729	Aug. 26	3327	745	100	1852
Sprague, Abraham L., Milton, Mass., assignor to Sprague Car Appliance Company, Portland, Me. Car-track-sanding device.	692,928	Feb. 11	1330	129 1290	98	1100
Sprague Car Appliance Company. (See Sprague, Abraham L., assignor.)						
Sprague, Charles, Boston, Mass. Rail-bond.	710,532	Oct. 7	289	59	101	54
Sprague, Charles H. (See Crawford, George O., assignor.)						
Sprague, E. M., <i>et al.</i> (See Smith, Edward A., assignor.)						
Sprague Electric Company. (See Carlhoff, Eugene R., assignor.)						
Sprague Electric Company. (See Hill, George H., assignor.)						
Sprague Electric Company. (See Muller, Paul, assignor.)						
Sprague Electric Company. (See Sprague, Frank J., assignor.)						
Sprague Electric Company. (See Watlington, Edgar H., assignor.)						
Sprague, Frank J., New York, N. Y., assignor to Sprague Electric Company. Traction system.	696,880	Apr. 1	914	210 211 212 994 996	99	192
Sprague, Frank J., New York, N. Y., assignor to Sprague Electric Company. Electric elevator.	716,953	Dec. 30	4580	985 996	101	2866
Sprague, George F., Gettysburg, Pa., assignor of one-half to S. H. Garriss, Port Jervis, N. Y. Bow-facing car.	692,084	Jan. 28	3254	735	98	724
Sprague, George F., Gettysburg, Pa., assignor of one-half to S. H. Garriss, Port Jervis, N. Y. Thill-coupling.	698,576	Apr. 29	4059	898	99	922
Sprague, Ira B., Everett, Wash. Preserving wood.	694,212	Feb. 25	3813	843	98	1642
Sprague, James H., Norwalk, Ohio. Umbrella-support.	697,687	Apr. 15	2432	541	99	545
Sprague, John E., Portage Township, Summit county, Ohio. Means for tightening wires in elastic tires.	714,528	Nov. 25	4004	886	101	1772
Sprague, John M. (See Vallier, Orvis, assignor.)						
Sprague, Leroy, Milan Township, Allen county, Ind. Current-motor.	706,698	Aug. 12	1344	299	100	1407
Sprague, Lewis G., Henderson, assignor of one-third to L. F. Bradford, Syracuse, and J. Carpenter, Henderson, N. Y. Thill-coupling.	703,675	July 1	554	125	100	110
Sprague, Lowren. (See Patrick and Sprague.)						
Sprague, Rollin C., <i>et al.</i> (See Rock, Frederick W., assignor.)						
Sprague, Rufus T., assignor to Gordon Hollow Blast Grate Company, Greenville, Mich. Power-driven tool.	698,418	Apr. 22	3779	834	99	849
Spratt, William A., <i>et al.</i> (See Griffin, Albert B., assignor.)						
Spreckels, Claus A., and C. A. Kern, New York, N. Y., assignors to Federal Refining Company, Jersey City, N. J. Purifying sugar and solutions thereof.	698,150	Apr. 22	3307	-----	99	749
Spreckels, Claus A., and C. A. Kern, New York, N. Y., assignors to Federal Refining Company, Jersey City, N. J. Purifying fluid sugar-bearing material.	699,933	May 13	1567	-----	99	1512
Spreckels, Claus A., and C. A. Kern, New York, N. Y., assignors to Federal Refining Company, Jersey City, N. J. Treating sugar-crystals.	700,099	May 13	1861	-----	99	1571
Spreckels, Claus A., and C. A. Kern, New York, N. Y., assignors to Federal Refining Company, Jersey City, N. J. Intermediate sugar product.	703,219	June 24	3591	-----	99	2898
Spreckels, John D. (See Allen, Herbert B., assignor.)						
Spriggs, Thomas, Little River, Kans. Wire-tightener.	706,606	Aug. 12	1178	261	100	1370
Spring, Daniel T., and A. Long, Wheeling, W. Va. Fire-alarm appliance.	691,197	Jan. 14	1545	349	98	337



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Spring, Napoleon C., Winsted, Conn., assignor to C. H. McCarty and A. K. Alford. Shoe-polishing apparatus.....	693,987	Feb. 25	3389	745	98	1558
Spring, Sylvester O., <i>et al.</i> (See Freed, Henry F., assignor.).....						
Springborn, Erich, London, England. Manufacture of artificial fuel.....	690,888	Jan. 7	982		98	206
Springer, Alfred, Cincinnati, Ohio. Treating trolley-wires.....	706,099	Aug. 12	1346	299	100	1107
Springer, Calvin J., Somerville, Mass. Electrical distributor.....	693,355	Feb. 11	2148	472	98	1267
Springer, John, and W. A. Robbins, Trenton, N. J. Rotary engine.....	716,589	Dec. 23	3802	827	101	2677
Springer, John D. (See Joyner and Springer.).....						
Springfield Engine Stop Company. (See Millee, Thomas D., assignor.).....						
Springfield Metallic Casket Company. (See Hiser, Charles H., assignor.).....						
Springfield Metallic Casket Company. (See Hiser, Daniel B., assignor.).....						
Springmann, Emil. (See Hollender, Charles W., assignor.).....						
Sprong, Severn D., Metuchen, N. J. Telephone repeater or relay.....	692,553	Feb. 4	593	139	98	910
Sproot, Jacob P., assignor to Avery Wall Paper Machine Company, St. Louis, Mo. Wall-paper trimming and pasting machine.....	708,419	Sept. 2	753	169	100	2133
Sproule, Albert H. (See Lion, Mosely, and Sproule.).....						
Sproule, Robert F., assignor to Fleetwing Die Press, Limited, London, England. Relief-color-stamping press.....	708,420	Sept. 2	756	170	100	2134
Sprout, Lewis O., Fostoria, Ohio. Railway-torpedo.....	698,069	Apr. 22	3131	790	99	714
Sprout, Waldron and Company. (See Colley, Levi D., assignor.).....						
Sprout, Waldron & Company. (See Waldron, John, assignor.).....						
Spunaugle, Henry, Clarinda, Iowa. Draft-equalizer.....	712,015	Oct. 28	3149	688	101	703
Spurgin, Celia A., Des Moines, Iowa. Garment-supporting webbing.....	706,464	Aug. 5	935	204	100	1304
Spurlin, Green F., Camden, Ala. Ballast conveyor and leveler.....	690,783	Jan. 7	815	180	98	172
Spurrier, Henry. (See Norris and Spurrier.).....						
Squier, Fred K., <i>et al.</i> (See Moon, Herman, assignor.).....						
Squier, George O. (See Crehore and Squier.).....						
Squier, William K., Syracuse, N. Y. Machine for reducing wood to fiber.....	701,413	June 3	229	51,52	99	2154
St. Andrews, Adolph, Manville, R. I. Picker-check for looms.....	706,270	Aug. 5	540	117	100	1225
St. Clair, Joseph, assignor to Elevated Whirling Scenic Railway Company, St. Louis, Mo. Amusement apparatus.....	716,285	Dec. 16	3169	694	101	2528
St. Croix, Edward J., Madrone, Wash. Air-compressing apparatus.....	709,520	Sept. 23	2978	664	100	2640
St. Cyr, Emilian D., Chicago, Ill. Obstetrical tractor.....	713,166	Nov. 11	1334	300	101	1187
St. Hilaire, Camille, Wilson, Mich. Self-leveling and adjustable berth, &c., for ships.....	694,214	Feb. 25	3815	843	98	1643
St. Jacques, Camille, Cranbrook, Canada. Combination match-box.....	707,277	Aug. 19	2447	844	100	1654
St. James, Henry L., Marshall, Tex. Conveyor.....	705,474	July 22	4116	895	100	883
St. John, S. Vernon, <i>et al.</i> (See Gibbs, George, assignor.).....						
St. John, Spencer H., <i>et al.</i> (See Gibbs, George, assignor.).....						
St. John, Thomas H. (See Sammons, Hugh G., assignor.).....						
St. John, Volney B., Erie, Pa. Step-ladder.....	705,475	July 22	4118	895	100	883
St. John, William H., Brooklyn, N. Y. Cushion-tire.....	697,691	Apr. 15	2440	543	99	547
St. Joseph Iron Works. (See Brown, Norman E., assignor.).....						
St. Legier, John de, Hicksville, N. Y. Funnel.....	706,465	Aug. 5	936	204	100	1305
St. Louis Car Company. (See Vogel and Weber, assignors.).....						
St. Louis Car Company. (See Weber, Moritz, assignor.).....						
St. Louis Car Company. (See Witte, Hubert, assignor.).....						
St. Louis Motor Carriage Co. (See Dorris, George P., assignor.).....						
St. Louis Paper Box Company. (See Schleicher, Frank J., assignor.).....						
St. Louis University. (See Lynch, Charles P., assignor.).....						
St. Onge, Charles A., Dover, Me. Picker-check for looms.....	697,562	Apr. 15	2197	488	99	499
St. Paul Manufacturing Co. (See Martin, Peter, assignor.).....	708,785	Sept. 9	1425	328	100	2285
Staaf, Werner I., Pittsburg, Pa. Gage-check.....	713,355	Nov. 11	1739	392	101	1270
Staats, Cornelius E., assignor of one-third to W. H. Staats, Minneapolis, Minn. Egg-filler.....						
Staats, William H. (See Staats, Cornelius E., assignor.).....						
Staber, George, New York, N. Y. Damping apparatus.....	708,092	June 24	3351	770	99	2851
Stabile, Gioacchino. (See Sala and Stabile.).....						
Stabile, Gioacchino, assignor of two-thirds to J. C. Sala and A. M. Vivier, San Francisco, Cal. Bicycle-brake.....	708,059	Sept. 2	162	88	100	2015
Stackhouse, Joseph F., Colwyn, Pa. Shutter-operator.....	716,126	Dec. 16	3863	631	101	2467
Stackpole, Ralph D. (See Fisher and Stackpole.).....						
Stade, George, Gross-Wusterwitz, Germany. Boiler.....	714,053	Nov. 18	3087	683	101	1568
Stade, Henry M. (See Singer, Joseph B., assignor.).....						
Stadelman, Alta M., New Rochelle, N. Y. Food-guard.....	704,139	July 8	1464	313	100	307
Stadler, William E. (See Webster, Hall, and Stadler.).....						
Staeger, Stephen A., Hutchins, near Matamoras, Wis. Track-indicator.....	705,467	July 22	4106	892	100	881
Staff, Peter N., Terre Haute, Ind. Mirror-frame.....	693,077	Feb. 11	1584	345	98	1151
Stafford, Alfred E., assignor to Draper Company, Hopedale, Mass. Shuttle-guide for weft-replenishing looms.....	708,672	Sept. 9	1207	275	100	2237
Stafford, Frank R., Providence, R. I., assignor to Stafford & Russell Manufacturing Company, Saco, Me. Ring.....	708,493	July 1	207	49	100	44
Stafford, George W., Warwick, R. I., assignor to Geo. W. Stafford Company, Readville, Mass. Shedding mechanism for looms.....	709,453	Sept. 16	2801	631	100	2591
Stafford, George W., Warwick, R. I., assignor to Geo. W. Stafford Company, Readville, Mass. Shedding mechanism for looms.....	709,454	Sept. 16	2806	631	100	2592
Stafford, George W., Warwick, R. I., assignor to Geo. W. Stafford Company, Readville, Mass. Shedding mechanism for looms.....	709,455	Sept. 16	2809	632	100	2593
Stafford, George W., Providence, and S. M. Hamblin, Central Falls, R. I. Spinning-spindle.....	695,179	Mar. 11	1613	358	98	2070
Stafford, Nelson, Brooklyn, assignor to N. Stafford Company, New York, N. Y. Die for lettering and ornamenting metallic articles.....	716,648	Dec. 23	3915	855	101	2701
Stafford & Russell Manufacturing Company. (See Stafford, Frank R., assignor.).....						
Stafford, Walter, and R. C. Holt, Littlefalls, N. Y. Knitting-machine.....	713,709	Nov. 18	2415	539	101	1425
Stafling, Frans B., Stockholm, and C. Egner, Klippan, Sweden. Telephone system.....	698,356	Feb. 11	2150	472	98	1268
Stager, Joseph B., Tabbot, Mich. Rotary valve.....	701,638	June 3	656	143	99	2245
Stagerberg, Chas. O., Jewell, Iowa. Game toy and advertising device.....	715,892	Dec. 16	2400	531	101	2368
Stager, Henry E., Chicago, Ill. Automatic valve.....	708,173	Sept. 2	338	80	100	2150
Staggs, Sylvester E., New York, N. Y. Artificial leg and ankle joint.....	714,652	Nov. 18	3085	682	101	1568
Staguinn, Martin, Milwaukee, Wis. Ploy.....	694,686	Mar. 4	679	148	98	1855
Stahl, Felix, Munich, Germany. Rail-testing apparatus.....	711,793	Oct. 21	2690	592	101	591
Stahl, Felix, assignor to L. Simon, Nuremberg, Germany. Wood peg or fastener for wooden railway-sleepers or the like.....	698,070	Apr. 22	3132	690	99	714

## Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Stabley, John H., New York, N. Y. Electric junction or outlet box .....	695,243	Mar. 11	1729	383	98	2094
Stahmer, Henry, Owatonna, Minn. Display-stand .....	716,127	Dec. 16	2864	631	101	2467
Stahr, Bernhard H. (See Cleveland and Stair.) .....						
Stainbrook, James H., assignor of one-half to M. L. Reid, Kansas City, Mo. Fire-ladder .....	692,728	Feb. 4	898	205	98	982
Stanton, Charles H., F. M. Armstrong, and J. H. Prowse, Toronto, Canada. Valve .....	714,410	Nov. 25	3785	836	101	1728
Starr, Burton A., assignor of one-half to A. B. Bohon, Harrisonville, Mo. Strainer for down-spouts .....	694,440	Mar. 4	198	44	98	1755
Stair, Frank H. (See Dando and Stair.) .....						
Stair Lift Company. (See Dodge, James M., assignor.) .....						
Stair Lift Company. (See Dodge, James M., assignor.) (Reissue.) .....						
Staley, Charles, Sterling, Ill. Toe-weight .....	694,586	Mar. 4	476	103	98	1814
Staley, Harrison L., Martinsville, Ind. Gearing for washing-machines .....	695,244	Mar. 11	1731	384	98	2094
Staley, Paul A. (See Krotz, Alvaro S., assignor.) .....						
Staley, Raleigh H., Springfield, Ill. Working clay .....	701,957	June 10	1204	274	99	2376
Stalker, Neil, West Hartford, Conn. Veterinary appliance .....	708,271	Sept. 2	514	117	100	2085
Stall & Dean Manufacturing Company. (See Price, Walter H., assignor.) .....						
Stallings, Francis J., Effingham, Ill. Running-gear for motor-vehicles .....	708,844	July 1	863	189	100	173
Stamm, August, New York, N. Y. Hat-guard .....	701,639	June 3	657	143	99	2246
Standard Advertising Co. (See Strophe, Ben B., assignor.) .....						
Standard Automatic Lubricator Company. (See Freeman, Albert A., assignor.) .....						
Standard Briquette Company. (See Chailly, François, assignor.) .....						
Standard Car Truck Company. (See Barber, John C., assignor.) .....						
Standard Caster and Wheel Company. (See Daniels, Merwin G., assignor.) .....						
Standard Caster and Wheel Company. (See Davis, Noah, assignor.) .....						
Standard Caster and Wheel Company. (See Fishel, Mark, assignor.) .....						
Standard Coupler Company. (See Gallagher, Richard D., Jr., assignor.) .....						
Standard Development Company. (See Phillips, Elwood C., assignor.) .....						
Standard Fan Company. (See Weyant, Thomas R., assignor.) .....						
Standard Harrow Company. (See Niles, George A., assignor.) .....						
Standard Machine Company. (See Houseman, Harry A., assignor.) .....						
Standard Oil Company. (See Deering, Mark L., assignor.) .....						
Standard Oil Company of New York. (See Neff, Charles A., assignor.) .....						
Standard Oiled Clothing Co. (See Emanuel, Samuel H., assignor.) .....						
Standard Optical Company. (See Bowker, Long, and Howland, assignors.) .....						
Standard Optical Company. (See Howland, Chauncey W., assignor.) .....						
Standard Optical Company. (See Wilhelm, Louis, assignor.) .....						
Standard Power Company. (See Griffen, John D., assignor.) .....						
Standard Power Company. (See Mott, Samuel D., assignor.) .....						
Standard Power Company. (See Reynolds, Frank A., assignor.) .....						
Standard Railway Equipment Company. (See Murphy, Albert C., assignor.) .....						
Standard Rivet Company. (See Barber, Everett A., assignor.) .....						
Standard Sanitary Mfg. Co. (See Glackin, Peter F., assignor.) .....						
Standard Sanitary Manufacturing Company. (See Blesch, August F., assignor.) .....						
Standard Screw Co. (See Lavigne, Joseph P., assignor.) .....						
Standard Shoe Machinery Company. (See Cushing, Clarence F., assignor.) .....						
Standard Smelter Company. (See Bradford, Edward T., assignor.) .....						
Standard Tool Company. (See Parpart, Otto A., assignor.) .....						
Standard Varnish Works. (See Breda, Andrew J., assignor.) .....						
Standard Varnish Works. (See Doggett, Reginald L. S., assignor.) .....						
Standard Varnish Works. (See Rosenberg, Herman, assignor.) .....						
Standard Vending Company. (See Wilcox, Elmer A., assignor.) .....						
Standard Voting Machine Company. (See Gillespie, Alfred J., assignor.) .....						
Standau, Albert, Terre Haute, Ind. Building material .....	711,541	Oct. 21	2210	480	101	489
Ständer, Richard, Essen-on-the-Ruhr, Germany. Stove .....	713,812	Nov. 18	2602	580	101	1465
Standidge, Harry W., Chicago, Ill. Game apparatus .....	701,414	June 3	2363	52	99	2155
Standiford, Marcellus. (See Washington and Standiford.) .....						
Standish, Albert S., Pittsburg, Pa. Chain-making machine .....	717,462	Dec. 30	5547	1535	101	3071
Standish, Miles H., Middleboro, Mass. Safety-razor .....	703,845	July 1	865	190	100	173
Standort, John W., San Francisco, Cal. Apparatus for exposing the beds of water-courses and conveying material therefrom .....	710,813	Oct. 7	806	173	101	165
Stanfield, Jasper H., Muskegon, Mich. Music-rack .....	694,500	Mar. 4	294	68	98	1774
Stanfield, Jasper H., Muskegon, Mich. Gearing for washing-machines .....	707,949	Aug. 26	3791	852	100	1944
Stanfield, Melville B., assignor of one-half to T. K. Christie, Cincinnati, Ohio. Weather-strip .....	715,619	Dec. 9	1829	407	101	2227
Stanfield, T. W., administrator. (See Pickard, Frank H.) .....						
Stange, Martin, Hies Corners, Wis. Wagon support .....	703,494	July 1	209	49	100	44
Stangeland, Martin T., Cleveland, Ohio. Solid-die rivet-machine .....	701,640	June 3	658	143	99	2246
Stanger, Johann J., Ulm, Germany. Chair for therapeutic purposes .....	692,554	Feb. 4	595	139	98	919
Stänglen, Charles W., assignor of one-half to J. H. Grill, Baltimore, Md. Mail-bag catcher and deliverer .....	716,777	Dec. 23	4138	907	101	2748
Stanhope, Philip W. (See Hutchings, Charles H., assignor.) .....						
Staniewicz, Louis J., A. Loutham, Canada. Bookbinder's clamp .....	703,495	July 1	210	50	100	44
Stankevicz, Tadeus, J. Yuknis, and P. P. Mauricas, Chicago, Ill. Brake for sewing-machines .....	711,542	Oct. 21	2211	481	101	489
Stanley, Alex W., assignor to Stanley Rule & Level Company, New Britain, Conn. Plane .....	707,365	Aug. 19	2600	588	100	1685
Stanley, Alex W., and H. S. Walter, assignors to Stanley Rule & Level Company, New Britain, Conn. Plane .....	703,158	June 24	3479	800	99	2875
Stanley Electric Manufacturing Company. (See Auerbach and Gubing, assignors.) .....						
Stanley Electric Manufacturing Company. (See Baum, Frank G., assignor.) .....						
Stanley Electric Manufacturing Company. (See Henry, John C., assignor.) .....						
Stanley Electric Manufacturing Company. (See Kilbourn, Washington H., assignor.) .....						
Stanley, Ethelbert A., Preston, and J. E. Anger, Southport, England. Tram-car .....	697,288	Apr. 8	1693	378	99	381
Stanley, Frederick E., assignor to Scovill Manufacturing Company, Waterbury, Conn. Button-setting machine .....	699,721	May 13	1137	266	99	1422
Stanley, Frederick E., assignor to Scovill Manufacturing Company, Waterbury, Conn. Button .....	708,673	Sept. 9	1200	276	100	2238
Stanley, George E., et al. (See Stanley, John M., assignor.) .....						
Stanley, George M. (See Taylor, Harry A., assignor.) .....						
Stanley, Irving, New York, N. Y. Folding cot .....	714,335	Nov. 25	3654	805	101	1702
Stanley, James, New York, N. Y. Garment-clasp or hose-supporter .....	713,252	Nov. 11	1505	341	101	1280
Stanley, James E., assignor of one-half to L. Goodnow, Boulder, Colo. Self-feeding trolley .....	714,115	Nov. 18	3199	707	101	1592
Stanley, John C. W., London, England. Drier for cotton or other materials .....	693,455	Feb. 18	2546	513	98	1328
Stanley, John C. W., London, England. Apparatus for expressing moisture from brewers' grain, &c. ....	695,585	Mar. 18	2353	533	98	2341



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Stanley, John C. W., London, England. Rendering apparatus	696,506	Apr. 1	198	48	99	46
Stanley, John C. W., London, England. Apparatus for separating stones, &c.	707,173	Aug. 19	2251	503	100	1612
Stanley, John C. W., New York, N. Y. Treatment of cotton-seed hulls	702,681	June 17	2556	587	99	2672
Stanley, John C. W., assignor to Cotton Seed Oil Syndicate, Limited, London, England. Mechanism for cracking and disintegrating cotton-seed	711,134	Oct. 14	1404	303	101	367
Stanley, John M., assignor of one-half to G. E. Stanley and J. G. Watson, Wakenda, Mo. Automatic car-coupling	707,269	Aug. 19	2416	541	100	1647
Stanley, John O., assignor to J. L. Perkins, Holyoke, Mass. Ventilator	715,169	Dec. 2	992	215	101	2339
Stanley Rule & Level Company. (See Fox, Charles H., assignor.)						
Stanley Rule & Level Company. (See Richards, Henry, assignor.)						
Stanley Rule and Level Company. (See Riecker and Walter, assignors.)						
Stanley Rule & Level Company. (See Stanley, Alex W., assignor.)						
Stanley Rule & Level Company. (See Stanley and Walter, assignors.)						
Stanley Rule & Level Company. (See Traut, Justus A., assignor.)						
Stanley Rule and Level Company. (See Traut and Walter, assignors.)						
Stanley, Simon S., Tyrone, Pa. Vehicle-drag	704,976	July 15	3071	660	100	656
Stanley, William, Great Barrington, and J. F. Kelly, Pittsfield, Mass. Alternating-current dynamo-electric machine and system of distribution	712,613	Nov. 4	288	68, 69	101	959
Stanley, William, Great Barrington, and J. F. Kelly, Pittsfield, Mass. Electrical generation and distribution	712,614	Nov. 4	292	60	101	960
Stanley, William F., South Norwood, England. Rotary engine	707,174	Aug. 19	2253	1503 1504	100	1612
Stanley Works. (See Moore, Ethelbert A., assignor.)						
Stanley Works. (See Voight, August, assignor.)						
Stannard, Harry W., et al. (See Grant, Max, assignor.)						
Stansbury, William K., Middletown, N. Y., assignor to W. M. Dudgeon, executor of Richard Dudgeon, deceased. Hydraulic jack	702,501	June 17	2220	506	99	2004
Stansell, Alonzo, Yorkville, Ill. Mail-box	693,917	Feb. 25	3239	714	98	1538
Stansell, William H., Pittsburg, Tex. Whiffletree	712,975	Nov. 4	962	223	101	1094
Stansfield, John W., Hartlepool, England. Feed-water heater and condenser	692,378	Feb. 4	281	68	98	857
Stansfield, William G. (See Blakey, James W., assignor.)						
Stanton, Clarence W. (See Jinks and Stanton.)						
Stanton, Frederick E., et al. (See Newell, Frank, assignor.)						
Stanton, Gilman S., et al. (See Newell, Frank, assignor.)						
Stanton, James R., Cleburne, Tex. Headlight	714,820	Dec. 2	351	77, 78	101	1908
Stanton, John H., Franklin, Ohio. Bean-harvester	702,502	June 17	2222	506	99	2004
Stanton, John W., assignor of one-half to J. D. Fitts, Providence, R. I. Sparking apparatus for gasoline-engines	700,100	May 13	1803	434	99	1571
Stanton, Lafayette J., Millbrook, Mich. Spring-tooth for harrows	695,993	Feb. 11	1332	290	98	1100
Stanton, Thomas K., Telala, Ind. Ter. Sooter ash pan	705,468	July 22	4107	893	100	881
Stapp, Thomas, Ternitz, Austria-Hungary. Blast-furnace	712,615	Nov. 4	295	69	101	960
Staples, Allen N., St. Paul, Minn. Skylight	697,280	Apr. 8	1565	351	99	332
Staples, Elial M. (See Morris and Staples.)						
Staples and Hanford Company. (See Bush, Charles, assignor.)						
Staples & Hanford Company. (See Kuersten, Hugo R., assignor.)						
Staples, John A., Newburgh, N. Y. Clip for springwork	714,830	Dec. 2	353	78	101	1908
Staples, Lynnan D. (See Pfeiffer and Staples.)						
Stapleton, William J., et al. (See Earl, Charles M., assignor.)						
Star Brass Manufacturing Company. (See Bosworth, Charles B., assignor.)						
Star Brass Works. (See Johnson and Crockett, assignors.)						
Star Electric Company. (See Beach, Clarence E., assignor.)						
Stare, Elias A., Waukesha, Wis. Corn-cutter	692,940	Feb. 11	1333	290	98	1100
Stare, Frank T. (See Plummer and Stare.)						
Stark, Alexander M., Toronto, Canada. Combined telephone, telegraph, electric-light and power system	716,302	Dec. 16	3198	700	101	2535
Stark, Alva T., Geneva, N. Y. Grain-dro	704,949	July 15	3009	646	100	645
Stark, Charles A., Union City, Pa. Chair-seat-surfacing machine	714,529	Nov. 25	4005	886	101	1772
Stark, J. Carroll, Hamilton, Ill. Land-roller	694,213	Feb. 25	3814	843	98	1642
Stark, Truman E., Naperville, Ill. Portable display device	694,690	Mar. 4	681	148	98	1855
Starkey, John, Minerva, Ohio. Brick-drier	715,314	Dec. 9	1272	271	101	2116
Starkeyweather, Robert B., Hartford, Conn. Duplicate-whist tray	705,469	July 22	4109	893	100	882
Starmer, Harry G., assignor of one-half to H. E. L. Beyer, Newark, N. J. Means for detecting tampering with sealed envelopes	705,470	July 22	4111	893	100	882
Starner, Clarence M., Alga, Pa. Device for holding tires	717,463	Dec. 30	1555	1206	101	3071
Starr, Charles M. (See Deimel, Gustave, assignor.)						
Starr, Hyman A., New York, N. Y. Sweater	711,990	Oct. 14	1858	405	101	402
Starrett, George W., Columbus, Ohio. Fruit-clipper	693,753	Feb. 18	2069	640	98	1444
Starrett, Laroy S., assignor to L. S. Starrett Company, Athol, Mass. Tool-holding device	692,215	Jan. 28	3483	787	98	773
Starrett, Laroy S., Athol, Mass., assignor to L. S. Starrett Company. Prick-punch and spacing tool	713,021	Nov. 4	1039	242	101	1109
Starrett, Laroy S., assignor to L. S. Starrett Company, Athol, Mass. Adjustable square	715,713	Dec. 9	1398	445	101	2259
Starrett, Benjamin F. (See Bushnell and Starkey.)	716,303	Dec. 16	3204	701	101	2536
Starznan, Charles, Youngstown, Ohio. Washing-jack	698,231	Apr. 22	3465	762	99	784
State, Will C., assignor to Goodyear Tire and Rubber Company, Akron, Ohio. Tile for rubber-tire-setting machines	704,766	July 15	2600	563	100	558
State, Will C., assignor to Goodyear Tire & Rubber Company, Akron, Ohio. Joint-closer for rubber-tire-setting machines	716,590	Dec. 23	3808	827	101	2679
Staten, George H., Portsmouth, Ohio. Match-safe	700,451	May 20	2620	599	99	1746
Stattler, Eugene C., Victor, Colo. Separator	700,384	May 20	2503	573	99	1721
Staub, Alexander, Fort Wayne, Ind. Stovepipe-thimble	710,168	Sept. 30	4227	983	100	2011
Staud, Edwin G., Minneapolis, Minn. Pasting and folding machine for box-blanks	715,620	Dec. 9	1832	407	101	2227
Stauffer, Charles F. (See Falkenwalde, Oscar, assignor.)						
Stauffer, Peter S. (See Hall and Stauffer.)						
Stauss, Carl W., Berlin, Germany. Furnace	695,503	Mar. 18	2173	491	98	2203
Stayman, David F., Baltimore, Md. Metallic packing	700,988	May 27	3646	838	99	1975
Ste. Ame, de Commenyrie- Fourchambault et Decazeville. (See Girin, Pierre, assignor.)						
Sté. Ame, des Anciens Etablissements Panhard et Levassor. (See Krebs, Arthur C., assignor.)						
Sté. Ame, des Matières Colorantes, et Produits Chimiques de St. Denis. (See Poirrier, Alcide F., assignor.)						
Sté. de Ploeg, H. Colliez Loustau et Cie. (See Ploeg, Simon de, assignor.)						
Sté. des Etablissements Fay et Oppenheim. (See Farcy, Eugene, assignor.)						
Stead, Clarence M., Leeds, England. Electric-lamp support	707,653	Aug. 26	3191	716	100	1825

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Steam Carriage Boiler Company. (See Kitts, Charles A., assignor.)					
Steam Carriage Boiler Company. (See Kitts, Charles A., assignor.)					
Stearns, Charles H., London, England. Manufacturing filaments from cellulose	716,778	Dec. 23	4139	.....	101 2749
Stearns, Thomas M., assignor of one-third to J. Scrivenor, Washington, D. C. Placket-faster	719,123	Sept. 30	4139	932	100 2892
Stearns, Albert, Syracuse, N. Y. Automatic package-feeding attachment	696,111	Mar. 25	3336	732	98 2457
Stearns, Albert, Syracuse, N. Y. Wrapping-machine	696,112	Mar. 25	3338	732	98 2457
Stearns, Christopher C., assignor of one-third to J. H. Stimson, Denver, Colo. Cash-reg- ister	694,035	Feb. 25	3490	768	98 1579
Stearns & Co., E. C. See Potter, William M., assignor.					
Stearns, Edmund B., Eldorado, Kans. Horse-detacher	698,577	Apr. 29	4061	598	99 922
Stearns, Edmund B., Eldorado, assignor of three-fourths to W. E. Songer, G. H. Wise, and W. Joseph, Potwin, Kans. Vehicle-hub	708,421	Sept. 2	757	170	100 2134
Stearns, Frank R., and C. R. Weber, Greeley, Colo.; said Weber assignor to said Stearns. Envelope	709,805	Sept. 23	3493	788	100 2745
Stebler, Fred, Riverside, Cal. Fruit-grader	709,913	Sept. 23	3130	697	100 2671
Stearns, Graham, et al. See Lee, Thomas L., assignor.					
Stearns, Irving W., Center Barnstead, N. H. Nail-puller	709,846	May 27	3401	782	99 1927
Stearns, James H., Brooklyn, N. Y. Fountain-syringe	716,304	Dec. 16	3205	701	101 2336
Stearns, John W. (See Spillman, William J., assignor.)					
Stearns, Wesley R., Portland, Oreg. Electric signal mechanism for overhead-trolley systems	692,085	Jan. 28	3255	735	98 725
Stearns, William F., Cambridge, and W. L. Haines, Boston, Mass., assignors, by mesne assignments, to Punctnet Tire Company, Camden, N. J., and Philadelphia, Pa. Pneum- atic tire	693,518	Feb. 18	3925	699	98 1468
Stebbins, Albert H., Little Rock, Ark. Ore-concentrator	696,604	Apr. 1	377	89	99 83
Stebbins, Albert H., Little Rock, Ark. Ore-concentrator	696,605	Apr. 1	380	89, 90	99 84
Stebbins, Albert H., Little Rock, Ark. Ore-concentrator	696,606	Apr. 1	384	90	99 84
Stebbins, Albert H., Little Rock, Ark. Ore-separator	711,015	Oct. 14	1165	258	101 256
Stebbins, Albert H., Little Rock, Ark. Ore-separator	711,016	Oct. 14	1169	258	101 257
Stebbins, Roswell O., New York, N. Y. Registering-lock	714,054	Nov. 18	3988	683	101 1568
Stebbins, William M., Hastings, Mich. Game apparatus	715,754	Dec. 2	194	39	101 1877
Stebler, Fred. See Ruggles, Henry B., assignor.					
Stebler, Fred, Riverside, Cal. Woven-wire-fence machine	700,710	May 20	3114	1707 708	99 1851
Steele, Amos, et al. (See Clark, Edward B., assignor.)					
Steele, Arnold W. F., assignor to J. A. Jeffrey, Columbus, Ohio. Coal-crusher	702,889	June 17	2942	678	99 2752
Steenkenreiter, John F., Chicago, Ill. Attaching device for drill-braces	699,099	Jan. 7	377	126	98 123
Steenkenreiter, John F., Chicago, Ill. Window-chair	697,182	Apr. 8	1496	335	99 338
Steenkenreiter, John F., Chicago, Ill. Rotary measure	699,855	May 13	1416	327	99 1479
Stedeker, Samuel, New York, N. Y. Holder for books or other articles	716,128	Dec. 16	2865	631	101 2467
Stedman, Charles R., Cleveland, Ohio. Combined bevel and miter	707,461	Aug. 19	2771	625	100 1721
Stedman, Louis A. (See Ellsworth, Edwin R., assignor.)					
Stedman, Pascal H., Newport, R. I. Change-making machine	706,521	Sept. 23	2980	664	100 2641
Steedman, Edwin H., St. Louis, Mo. Insert-saw-tooth	692,460	Feb. 4	469	106	98 894
Steel Cable Engineering Company. (See Sweetser, William J., assignor.)					
Steel Heddle Manufacturing Company. (See Fehr, William, assignor.)					
Steel Machine Company. (See Johnston, William G., assignor.)					
Steel Nut and Joseph Hampton. (See Hampton, Thomas, assignor.)					
Steele, Charles, Duquesne, Pa. Apparatus for rolling car-axes	698,071	Apr. 22	3133	690	99 714
Steele & Company, H. H. (See Steele, Henry H., assignor.)					
Steele, Edwin G. (See Sutton and Steele.)					
Steele, Henry H., assignor to H. H. Steele & Company, Gloversville, N. Y. Glove	695,598	Mar. 18	2355	534	98 2242
Steele, John C., Newtonbrook, assignor to I. Shupe, Newmarket, Canada. Combined truck and bag-holder	717,044	Dec. 30	4766	1093	101 2906
Steele, Lonzo E., et al. (See Bailey, Henry F., assignor.)					
Steele, Nathan, and H. Brown, Columbus, Ohio. Machine for weaving cross-wires in fences	699,985	May 13	1668	363	99 1531
Steele, Thomas, Redbank, N. J. Artificial tooth	705,546	July 22	4326	935	100 922
Steele, Thomas, Redbank, N. J. Mold for artificial teeth	705,972	July 29	5099	1111	100 1092
Steele, Walter L. (See Sutton and Steele.)					
Steele, Walter L. (See Sutton, Steele, and Coerver.)					
Steele, Wilbur F., assignor to Acme Gas Company, New York, N. Y. Gas-making appa- ratus	714,117	Nov. 18	3204	1707 708	101 1594
Steele, William D., Sidell, Ill. Corn-harvester	712,976	Nov. 4	963	224	101 1094
Steelman, Edgar B. (See Paris, Steelman, and Haverfield.)					
Steen, Schraeder. (See Wheatley and Steen.)					
Steenbock, Henry, New York, N. Y. Action for stringed musical instruments	717,139	Dec. 30	4930	1069	101 2940
Steer, George H., Cincinnati, Ohio. Truck	707,950	Aug. 26	3792	832	100 1944
Steere, Merrill O. (See Brindle and Steere.)					
Steese, Rollin C., and E. L. Ford, Youngstown, Ohio. Blast-furnace	715,519	Dec. 9	1644	1356 857	101 2189
Steffen, Carl, Vienna, Austria-Hungary. Sugar-boiling	703,496	July 1	212	50	100 45
Steffen, Carl, Vienna, Austria-Hungary. Diffusion apparatus	710,523	Oct. 7	270	60	101 55
Steffen, John B. (See La Coursiere and Steffen.)					
Steffen, Peter, et al. (See Yancey, Christopher C., assignor.)					
Steffen, Josiah H., assignor to E. Van Noorden Company, Boston, Mass. Glazed struc- ture	707,175	Aug. 19	2254	504	100 1613
Steiger, William, assignor to Introtest & Novelty Co., Marietta, Ohio. Weather-strip	710,926	Oct. 7	991	218	101 202
Steiert, Alois, Philadelphia, Pa. Brush	703,093	June 24	3352	770	99 2851
Steizer, Emil H. (See Monahan and Kieren, assignors.)					
Steiger, Jacob, London, England. Manufacture of cement	694,802	Mar. 4	899	.....	98 1902
Steiger, Peter, Baltimore, Md. Garment-hanger for wardrobes, &c	703,094	June 24	3352	770	99 2851
Stein, Patrin, Niles, Ohio. Ice saw	711,794	Oct. 21	2992	593	101 591
Stein, Charles, Meadville, Pa., assignor to Stein Double Cushion Tire Co., Akron, Ohio. Vehicle-tire	697,038	Apr. 8	1249	278	99 284
Stein Double Cushion Tire Co. (See Stein, Charles, assignor.)					
Stein, Emil G., Pittsburg, Pa. Compound rail	693,754	Feb. 18	2911	640	98 1444
Stein, Leo, and W. Storr, Berlin, Germany. Manufacturing glass or porcelain plates or slabs	713,710	Nov. 18	2417	539	101 1925
Stein, Peter, assignor of one-half to B. F. Horsting, Chicago, Ill. Machine for scarfing leather	703,012	June 24	3183	734	99 2818
Steinau, Carl E. P., Cleveland, Ohio. Purifying zinc-bearing ores	697,898	Apr. 15	2808	.....	99 629



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Steinbach, Josef, Vienna, Austria-Hungary. Paving-flag.	698,072	Apr. 22	3134	-----	99	714
Steinberg, Jacob. (See Knapp and Steinberg.)						
Steinberg, Max. (See Schumann, Ferdinand, assignor.)						
Steinbrenner, Andrew G. (See Northrop and Steinbrenner.)						
Steinbrenner, Andrew G., assignor of forty-nine one-hundredths to S. Northrop, St. Louis, Mo. Journal-box.	707,033	Aug. 12	1968	441	100	1535
Steine, Ben, and C. Jones, New Orleans, La. Grain-car door.	713,167	Nov. 11	1339	301	101	1188
Steincke, Reinhold, New York, N. Y. Cigar-cutter.	715,515	Dec. 9	1274	272	101	2117
Steiner, Daniel J. L. (See Steiner, Herman E. M. and D. J. L.)						
Steiner, Daniel J. L. (See Steiner, William R. W., H. E. M., and D. J. L.)						
Steiner, Edmund U., Brooklyn, N. Y. Walking doll.	695,121	Mar. 11	1512	336	98	2047
Steiner, Herman E. M. (See Steiner, William R. W., H. E. M., and D. J. L.)						
Steiner, Herman E. M. and D. J. L., Braddock, Pa. Hair-curler.	698,578	Apr. 29	4062	898	99	922
Steiner, Jakob, Toledo, Ohio. Portable fence.	704,277	July 8	1702	371	100	358
Steiner, Martin, Erie, Pa. Bearing.	707,176	Aug. 19	2255	504	100	1613
Steiner, Ottomar, Frankenberg, Germany. Filling metal tubes with wooden cores.	708,501	Sept. 2	202	204	100	2164
Steiner, Robert, New Orleans, La., assignor to Union Oil Refining & Fuel Company, Jefferson County, Tex. Making artificial fuel.	695,348	Mar. 11	1915	-----	98	2130
Steiner, William R. W., H. E. M., and D. J. L., Braddock, Pa. Device for detaching and removing horses from their stalls in case of fire.	713,522	Nov. 11	2066	462	101	1338
Steinhauer, Peter, St. Louis, Mo. Automobile driving-gear.	696,210	Mar. 25	3536	791 792	98	2497
Steinhauser, Elliott, Watsonville, Cal., assignor to Armour & Company, Chicago, Ill. Advertising device.	710,814	Oct. 7	807	174	101	165
Steinheimer, Hermann E., et al. (See Speice, George, assignor.)						
Steinhilper, Jacob, Duboisstown, Pa. Stovepipe-collar.	697,034	Apr. 8	1251	278	99	285
Steinkamp, Frank C., St. James, Minn. Ribbon-retainer.	714,963	Dec. 2	639	134	101	1963
Steinkamp, Fred, Bethany, Cal. Bicycle-gearing.	716,120	Dec. 16	2646	632	101	2467
Steinl, George, New York, N. Y. Chimney.	693,735	Feb. 18	2912	640	98	1444
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. System of electric distribution.	697,035	Apr. 8	1252	279	99	285
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Regulator for alternating-current circuits.	700,847	May 27	3403	782	99	1927
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Automatic cut-out.	701,958	June 10	1206	274	99	2376
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Glow-er for pyroelectric lamps and making same.	701,959	June 10	1208	275	99	2376
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution.	706,123	Aug. 5	230	46	100	1162
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution.	706,607	Aug. 12	1179	261	100	1370
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution.	706,608	Aug. 12	1181	262	100	1370
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution.	706,609	Aug. 12	1183	262	100	1371
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Poly-phase induction-regulator.	712,103	Oct. 28	3308	725	101	733
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution.	712,104	Oct. 28	3310	726	101	733
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Poly-phase induction-regulator.	712,463	Oct. 28	3966	867	101	870
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution.	712,464	Oct. 28	3968	867	101	870
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Compounding-alternator.	712,737	Nov. 4	496	117 118	101	1000
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Compounding-alternator.	713,022	Nov. 4	1039	242 243	101	1109
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution.	713,356	Nov. 11	1740	392	101	1371
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Adjusting compound-wound generator.	713,523	Nov. 11	2068	463	101	1338
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Adjusting compound-wound generator.	713,574	Nov. 11	2164	484	101	1356
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. System of distribution.	714,055	Nov. 18	3063	683	101	1569
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. System of distribution.	714,116	Nov. 18	3290	707	101	1593
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Controlling alternating-current motors.	714,411	Nov. 25	3787	836	101	1729
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Induction-motor.	714,412	Nov. 25	3790	837	101	1729
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Controlling alternating-current motors.	714,617	Nov. 25	4172	924	101	1806
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Alternating-current electric meter.	716,130	Dec. 16	2868	632	101	2468
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Electric regulator.	716,131	Dec. 16	2871	632	101	2468
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution.	716,305	Dec. 16	3246	701	101	2537
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Alternating-current electric meter.	716,351	Dec. 16	3298	720	101	2534
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution.	717,298	Dec. 30	5257	1142	101	3012
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution.	717,464	Dec. 30	5551	1206	101	3072
Steinmetz, Charles P., and W. L. R. Emmet, Schenectady, N. Y., assignors to General Electric Company. System of electrical distribution.	710,081	Sept. 30	4043	911	100	2873
Steinmetz, Charles P., and W. L. R. Emmet, Schenectady, N. Y., assignors to General Electric Company. System of electrical distribution.	710,082	Sept. 30	4047	911	100	2874
Steinmetz, Conrad P., assignor of one-half to A. Boynton, Mitchell, S. D. Washing-machine.	692,216	Jan. 28	3484	787	98	773
Steinmetz, Edward G., assignor to Electric Storage Battery Company, Philadelphia, Pa. Secondary battery.	704,707	July 15	2601	563	100	558
Steinmetz, Joseph A., Philadelphia, Pa. Tubular boiler.	697,560	Apr. 15	2104	487 488	99	498
Steinweg, Carl, Lüdenscheid, Germany. Forming bodies by electrodeposition.	693,918	Feb. 25	3241	714	98	1528

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Steltz, John L., Chicago, Ill. Pipe-cleaner.....	695,767	Mar. 18	2657	604	98	2302
Stell, Louis, <i>et al.</i> (See Clukies, James A., assignor.)						
Stell, Alfred and G., Steeton, and J. Stell, Keighley, England. Doffing apparatus for spinning machinery.....	692,491	Feb. 4	470	1110 1111	98	895
Stell, George. (See Stell, Alfred, G., and J.)						
Stell, John. (See Stell, Alfred, G., and J.)						
Stelter, Francis C. W., Long Island City, N. Y. Calendar.....	690,670	Jan. 7	580	126	98	124
Stelling, Albert A., Madison, Wis. Pneumatic stacker.....	717,465	Dec. 30	5554	1206	101	3072
Stelzer, Gustav A. (See Hamberger and Stelzer.)						
Stelzer, Louis A., Akron, Ohio. Devulcanizing apparatus.....	697,688	Apr. 15	2434	541	99	546
Stemler, Ernst, Zeulenroda, Germany. Bee-swarm catcher.....	700,452	May 20	2621	600	99	1746
Stemper, John F., assignor of one-half to P. Michaely, Michigan City, Ind. Pipe-wrench.....	702,253	June 10	1741	393	99	2483
Stenersen, Rudolph, assignor of two-thirds to C. J. Lundman and C. F. Norlin, Brooklyn, N. Y. Generating motive power.....	691,500	Jan. 21	2149	482	98	483
Stenger, Andrew. (See Spahn, Rudolph, assignor.)						
Stenotype Company. (See Allen, George G., assignor.)						
Stenotype Company. (See Williams, George H., assignor.)						
Stenson, Samuel, <i>et al.</i> (See Hancock, Henry J., assignor.)						
Stent, Walter J., Sydney, New South Wales, Australia. Drawing-down device for banjo-vellums.....	708,934	Sept. 9	1728	400	100	2348
Stentz, Earl H., Cleveland, Ohio. Device for cleaning carpets.....	703,122	Sept. 16	2130	488	100	2450
Stephan, Friedrich C., Crimmitschau, Germany. Apparatus for measuring the lengths of fabrics.....	713,524	Nov. 11	2070	463	101	1388
Stephan, Jacob, assignor of one-half to G. Fugman, Cleveland, Ohio. Composition suitable for use in making toy building-blocks of the like.....	708,422	Sept. 2	758		100	2134
Stephan, Karl, assignor to Chemische Fabrik auf Actien, vorm. E. Schering, Berlin, Germany. Making camphene.....	707,270	Aug. 19	2419		100	1647
Stephan, Karl, assignor to Chemische Fabrik auf Actien, vorm. E. Schering, Berlin, Germany. Making camphene.....	707,271	Aug. 19	2420		100	1648
Stephans, Jacob, Pawtucket, R. I. Bolt-pointing machine.....	691,198	Jan. 14	1547	319 350	98	337
Stephans, Jacob, Pawtucket, R. I. Nut-tapping machine.....	691,199	Jan. 14	1549	350 351	98	338
Stephens, Adamson & Co. (See Bee, William E., assignor.)						
Stephens, Benjamin F., Reeves, Tex. Rail-joint.....	693,919	Feb. 25	3242	714	98	1523
Stephens, Cyrus. (See Stephens, Marcus F. and C.)						
Stephens, Ezra. (See Orman, Charles, assignor.)						
Stephens, John R., Portland, Oreg. Camera-support.....	704,666	July 15	2418	522	100	521
Stephens, Marcus F. and C., Indianapolis, Ind. Attachment for window-shades.....	699,770	May 13	1238	288	99	1441
Stephens, Marcus F. and C., Indianapolis, Ind. Pipe-joint.....	710,725	Oct. 7	624	130	101	128
Stephenson, George E. (See Tripp and Stephenson.)						
Stephenson, George E., Chicago, Ill., assignor to J. Litt, New York, N. Y. Theatrical lighting.....	711,361	Oct. 14	1859	406	101	402
Stephenson, John W., Toledo, assignor to National Malleable Castings Company, Cleveland, Ohio. Car-axle box.....	692,086	Jan. 28	3258	736	98	725
Stephenson, John W., Toledo, assignor to National Malleable Castings Company, Cleveland, Ohio. Journal-box lid.....	706,700	Aug. 12	1347	299 300	100	1407
Stephenson, Levi T., assignor of one-half to W. P. Dunlavey and J. P. Dunlavy, Trinidad, Colo. Nut-lock.....	690,900	Jan. 7	1004	227	98	211
Stephenson, Levi T., assignor of one-half to W. P. Dunlavy and C. S. Bancroft, Trinidad, Colo. Rail-joint.....	714,056	Nov. 18	3095	684	101	1569
Stephenson, Levi T., assignor of one-half to J. N. Turner and R. J. Williams, Trinidad, Colo. Acetylene-gas generator.....	694,587	Mar. 4	477	103 104	98	1814
Stephenson, William, Morris, Canada. Scraper for seed-drills.....	691,016	Jan. 14	1231	273	98	272
Stephenson, William, St. Louis Park, Minn. Adjusting device for seeders.....	701,641	June 3	660	144	99	2346
Stephenson, William, St. Louis Park, Minn. Seeder.....	701,642	June 3	662	144 145	99	2347
Sterba, Charles, and W. J. Wright, Chicago, Ill. Woodworking-machine.....	715,432	Dec. 9	1484	320 321	101	2158
Sterling Automatic Instantaneous Water Heater Co. (See Tracy and Bollinger, assignors.)						
Sterling Electrical Manufacturing Company. (See Webster, Glenn C., assignor.)						
Sterling Supply & Manufacturing Company. (See Nielsen, Anton E., assignor.)						
Sterling, William L., Brooklyn, Pa. Securing attachment for wagon end-boards.....	700,123	Sept. 16	2132	489	100	2450
Sterlingworth Railway Supply Company. (See Canfield, Lewis T., assignor.)						
Stern, Arnold, New York, N. Y. Bottle-stopper.....	697,036	Apr. 8	1253	273	99	285
Stern, George, Charlottenburg, Germany, assignor to General Electric Company. Alternating-current meter.....	697,735	Apr. 15	2555	568	99	572
Stern, George, Charlottenburg, Germany, assignor to General Electric Company. Alternating-current meter.....	697,756	Apr. 15	2556	568	99	572
Stern, George, Charlottenburg, Germany, assignor to General Electric Company. Electric meter.....	710,083	Sept. 30	4049	912	100	2874
Stern, Gordon G. (See Stern and Lehman.)						
Stern, Ida, Chicago, Ill. Cleaning and polishing composition.....	708,743	Sept. 9	1344		100	2267
Stern, Leopold and G. G., and G. G. Lehman, Kalamazoo, Mich. Suspenders.....	712,016	Oct. 28	3151	689	101	703
Stern, Maurice, Chicago, Ill. Supporter for hose, &c.....	717,045	Dec. 30	4707	1033	101	2906
Stern, Philip K., New York, N. Y. Motor-vehicle running-gear.....	695,959	Mar. 25	3019	684 685	98	2390
Sternau & Co., S. (See Sternau and Strassburger, assignors.)						
Sternau, Sigmund, and L. Strassburger, assignors to S. Sternau & Co., New York, N. Y. Alcohol-lamp.....	696,507	Apr. 1	199	48	99	47
Sternberg, Wilhelm, assignor to Chemische Fabrik auf Actien. (vorm. E. Schering.) Berlin, Germany. Methylene citric acid and making same.....	699,422	May 6	573		99	1293
Sternberg, Wilhelm, assignor to Chemische Fabrik auf Actien. (vorm. E. Schering.) Berlin, Germany. Dimethylene tartrate and making same.....	699,423	May 6	574		99	1293
Sterne, Louis, London, England. Engine or motor.....	710,492	Dec. 23	3591	784	101	2632
Sternfeld, Julius, New York, N. Y. Parallel-ruler.....	705,473	July 22	4115	894	100	883
Sterrett, Frank O., Henry, Ill. Pump for handling heavy oils.....	693,920	Feb. 25	3244	714	98	1529
Sterrett, Robert H. (See Brooks, John C., assignor.)						
Stearns, Albert A., New York, N. Y. Transmitting electric currents.....	691,298	Jan. 14	1738	396	98	377
Stetson, Adelbert B., Milwaukee, assignor to Bucyrus Company, South Milwaukee, Wis. Ore concentrating and dredging apparatus.....	715,755	Dec. 2	196	39, 40	101	1877
Stetson, Almon B., Malden, Mass., assignor to American Telephone and Telegraph Company. Telephone-transmitter circuit.....	716,779	Dec. 23	4142	908	101	2749
Stetson, James B. (See Thomas and Stetson.)						
Steuben, Augustus L. von., Allentown, Pa. Emergency-brake.....	713,357	Nov. 11	1742	392	101	1271



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Steudner, Martin, Gera-Zwätzen, Germany. Tool-dismounting instrument	711,912	Oct. 21	2335	645	101	642
Steuterman, Frank M., St. Louis, Mo. Folding chicken-coop	697,087	Apr. 8	1254	379	99	285
Steutermann, Otto A., Webster, Mass. Shipping-tag	713,813	Nov. 18	2604	580	101	1465
Stevens Air Brake Company. (See Stevens, Willie J., assignor.)						
Stevens, Ansel, Westbrook, Me. Mowing-machine	710,815	Oct. 7	809	174	101	166
Stevens, Ansel, Westbrook, Me. Cutting apparatus for mowers, reapers, &c.	710,816	Oct. 7	811	174	101	166
Stevens, Arthur L., New York, N. Y. Vehicle-wheel tire and fastening	711,081	Oct. 14	1314	284	101	286
Stevens, Benjamin A., Toledo, Ohio. Fastening device for refrigerator-doors	694,691	Mar. 4	683	148	98	1856
Stevens, Benjamin A., Toledo, Ohio. Floor	703,159	June 24	3480	800	99	2875
Stevens, Benjamin A., Toledo, Ohio. Billiard-cushion	708,744	Sept. 9	1345	307	100	2267
Stevens, Benjamin A., Toledo, Ohio. Apparatus for placing insertions in rubber articles	710,817	Oct. 7	812	175	101	166
Stevens, Calvin A. (See Collins, Caleb G., assignor.)						
Stevens, Calvin A. (See Hilsinger, Alburts C. and A. W., assignors.)						
Stevens, Cassius L., et al. (See Cohen, George W., assignor.)						
Stevens, Charles E., Lovelocks, Nev. Cap for fuses	699,586	May 6	873	203	99	1355
Stevens, Charles H., Chicago, Ill. Photographic-printing frame	714,413	Nov. 25	3792	837	101	1730
Stevens, Charles W., North Harvey, Ill. Artificial building-stone	699,587	May 6	873	203	99	1355
Stevens, Charles W., North Harvey, Ill. Making artificial stone	699,588	May 6	873	203	99	1355
Stevens, Charles W., North Harvey, Ill. Artificial-stone facing	705,156	July 22	3144	749	100	747
Stevens, Clayton S., New Britain, Conn. Folding stand	717,131	Dec. 30	4930	1069	101	2940
Stevens, Edmund R. (See Carpenter, Stevens, and Tenney.)						
Stevens, Eglert, Chicago, Ill. Wind-shield for cycles	695,960	Mar. 25	3024	685	98	2391
Stevens, Ernest, Philadelphia, Pa. Inhaler	690,255	May 6	293	55	99	1221
Stevens, Ernest A., Chicago, Ill. Circuit-breaker	716,649	Dec. 23	3917	855	101	2702
Stevens, Frank C. (See Farnum, Loring N., assignor.)						
Stevens, Frank N., New York, N. Y. Pump connection	712,738	Nov. 4	500	118	101	1001
Stevens, Frederick, assignor to T. Wolstenholme, Sons & Company, Philadelphia, Pa. Roving-guide	707,874	Aug. 26	3652	823	100	1915
Stevens, Frederick A., assignor of one-half to A. E. Lenz, Providence, R. I. Eyeglasses	701,819	June 3	956	212	99	2308
Stevens, George E., Lynn, Mass., assignor to General Electric Company. Globe-holder for arc-lamps	697,757	Apr. 15	2558	568	99	572
Stevens, George J. (See Searight and Stevens.)						
Stevens, George M., Cambridge, Mass., assignor to George M. Stevens Co., Kittery, Me. Clock-chime	710,084	Sept. 30	4051	912	100	2874
Stevens, George W., Boston, Mass. Brake	705,623	July 29	4474	970	100	966
Stevens, Harold H., Los Angeles, Cal. Jar cover and fastener	696,113	Mar. 25	3342	753	98	2458
Stevens, James N., et al., trustees. (See Crane, Wendell P., assignor.)						
Stevens, James S., Barborton, Ohio. Steam-boiler	697,561	Apr. 15	2195	488	99	498
Stevens, John H., South Orange, and C. H. Thurber, East Orange, N. J., assignors to Celluloid Company, New York, N. Y. Pyroxylon article	713,168	Nov. 11	1340	302	101	1188
Stevens, John H., South Orange, and C. H. Thurber, East Orange, N. J., assignors to Celluloid Company, New York, N. Y. Making pyroxylon articles	713,169	Nov. 11	1342	302	101	1188
Stevens, John W. (See Anderson, Stevens, and Lutz.)						
Stevens, John W., St. Paul, Minn. Seal for seal-locks	695,418	Mar. 11	2028	455	98	2156
Stevens, John W., Longmont, Va. Corn-planter and fertilizer-distributor	708,674	Sept. 9	1210	276	100	2238
Stevens, Joshua S., Chicago, Ill. Ball-playing device	691,399	Jan. 14	1741	396	98	377
Stevens, Lawrence L., Los Angeles, Cal. Potato slicer and cutter	710,085	Sept. 30	4052	913	100	2874
Stevens, Milton H., Waltham, Mass. Brace for screens, blinds, &c.	710,022	Sept. 30	3931	888	100	2849
Stevens, Mott T., Wahpeton, N. D. Acetylene-gas generator	693,078	Feb. 11	1585	340	98	1151
Stevens, Nathan P., Concord, N. H. Boiler	691,200	Jan. 14	1351	351	98	338
Stevens, Omar. (See Kirkwood, Joel, assignor.)						
Stevens, Otis M. (See Clowse and Stevens.)						
Stevens, Ralph A. (See Shaw and Stevens.)						
Stevens and Sons, M. T. (See Stone, George, assignor.)						
Stevens, W. A. (See Garland, Ernest C., assignor.)						
Stevens, William H., assignor of one-third to J. M. Garratt, Buffalo, N. Y. Clock-frame	703,354	June 24	3823	878	99	2948
Stevens, Willie J., assignor to Stevens Air Brake Company, Skowhegan, Me. Car-brake	696,114	Mar. 25	3343	754	98	2458
Stevens, Willie J., assignor to Stevens Air Brake Company, Skowhegan, Me. Air-compressor	709,832	Sept. 23	3540	708	100	2756
Stevenson, Alexander T., Bay City, Mich. Dress-shield	709,935	Sept. 30	3766	851	100	2814
Stevenson, Augustus. (See Stimson and Stevenson.)						
Stevenson, D. W., et al. (See Hendershot, Amos M., assignor.)						
Stevenson, Elmer, Redfield, S. D. Mail-bag fastener and lock	706,271	Aug. 5	541	117	100	1225
Stevenson, Erick B., et al. (See Sauvage, William H., assignor.)						
Stevenson, John, Detroit, Mich. Wire-stretcher	705,547	July 22	4327	935	100	922
Stevenson, John, Jr., Sharon, Pa. Metallurgical product or alloy	714,618	Nov. 25	4175	900	101	1806
Stevenson, Leonard, Mapleton, Mich. Potato-digger	708,317	June 24	3735	861	99	2928
Stevenson, Peter C., et al. (See Lewis, Albert H., assignor.)						
Stevenson, Robert H., Jr., Western Springs, Ill. Alarm attachment for incubators	695,245	Mar. 11	1734	384	98	2095
Stevenson, S. Price, Chester, Pa. Door and frame for air-tight chambers	697,689	Apr. 15	2485	542	99	546
Stevenson, S. Price, Chester, Pa. Chute and automatically opening or closing door for air-tight chambers	714,619	Nov. 25	4177	924	101	1806
Stevenson, Thomas M., et al. (See Wynn, John P., assignor.)						
Stevenson, Thomas R. (See Baldwin, Miles C., assignor.)						
Stevenson, William H. H., Baltimore, Md. Can-testing machine	704,278	July 8	1708	371	100	358
Steward, Charles H., Philadelphia, Pa. Expansion-bolt	710,534	Oct. 7	274	60	101	55
Steward, Hiram P., Elizabeth, N. J., assignor to Singer Manufacturing Company. Tuck-creaser for sewing machines	705,471	July 22	4113	894	100	882
Steward, Hiram P., Elizabeth, N. J., assignor to Singer Manufacturing Company. Attachment-holder for sewing-machines	705,472	July 22	4114	894	100	882
Steward, John F. (See Ellis and Steward.)						
Steward, John F., Chicago, Ill. Grain-divider for harvesting-machines	694,441	Mar. 4	200	44	98	1755
Steward, John F., Chicago, Ill. Spring-catch tongue-saddle for harvesters	701,099	May 27	3855	886	99	2621
Steward, John F., Chicago, Ill. Corn-shocker	702,602	June 17	2411	550	99	2641
Steward, John F., Chicago, Ill. Grain-divider for harvesters	703,497	July 1	214	50	100	45
Steward, John F., Chicago, Ill. Finger-bar for harvesting-machines	707,460	Aug. 19	2771	628	100	1720
Steward, John F., Chicago, Ill. Making metal wheels	714,253	Nov. 25	3498	770	101	1671
Stewart, Alexander, Philadelphia, Pa. Coin-controlled testing and vending machine	711,017	Oct. 14	1173	259	101	258
Stewart, Arthur H., Nashville, Tenn. Conductor-carrier	695,504	Mar. 18	2176	491	98	2204
Stewart, B. B. (See Weaver, Ervin E., assignor.)						
Stewart, Burton A., assignor of one-half to I. A. Tompkins, Troy, N. Y. Bur-wheel support for knitting-machines	709,831	Sept. 23	3539	797	100	2756

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Stewart, Charles T. (See Mock, George, assignor.)						
Stewart, Duncan, Glasgow, Scotland. Apparatus for separating liquids from solids.....	703,846	July 1	867	196	100	174
Stewart, Edgar J., Chicago, Ill. Package-carrier.....	702,936	Sept. 30	3767	851	100	2814
Stewart, Elmore, Los Angeles, Cal. Oil-burner.....	702,370	Sept. 16	2843	593	100	2558
Stewart, Elza E., New Rumley, Ohio. Fence-making machine.....	704,396	July 8	1923	416	100	405
Stewart, Frank, assignor of one-half to M. E. Norris, Cincinnati, Ohio. Eyeglasses.....	711,362	Oct. 14	1862	406	101	403
Stewart, George H., and A. L. Wiseman, Topeka, Kans. Hernal truss.....	703,095	June 24	3353	771	99	2851
Stewart Hartshorn Company. (See Baker, Charles A., assignor.)						
Stewart Hartshorn Company. (See Hartshorn, Edmund F., assignor.)						
Stewart, James, Los Angeles, Cal. Water-closet or urinal.....	711,135	Oct. 14	1406	304	101	307
Stewart, James B., Chico, Cal. Can top and cap.....	637,038	Apr. 8	1255	290	99	286
Stewart, John, assignor of one-half to W. E. Marsteller, Philadelphia, Pa. Car-window.....	713,525	Nov. 11	2072	463	101	1338
Stewart, John C., U. S. Army, assignor of one-half to A. S. Burt, U. S. Army. Sounding mechanism for telegraphic signals.....	717,046	Dec. 30	4768	1034	101	2906
Stewart, John C., and W. Horn, Newark, Ohio. Fuse-box.....	711,543	Oct. 21	2213	481	101	430
Stewart, John E. (See Lyle and Stewart.)						
Stewart, John K., Chicago, Ill. Clipper or shearing-tool.....	698,073	Apr. 22	3135	690	99	715
Stewart, John K., Chicago, Ill. Shearing tool or clipper.....	709,522	Sept. 23	2993	665	100	2642
Stewart, Lorenzo A., Waukegan, Ill. Hernal truss.....	708,847	July 1	868	191	100	174
Stewart, Omer T., Pittsburg, Pa. Rail-joint.....	695,768	Mar. 18	2659	604	98	2302
Stewart, Otis H., Middletown, Ohio. Cabinet-sheet-music.....	690,478	Jan. 7	196	39	98	43
Stewart, Richard B. (See Kubitzky and Stewart.)						
Stewart, Robert P., assignor of one-half to W. E. Hogue, Paris, Tex. Receptacle or tank.....	697,954	Apr. 15	2917	644	99	650
Stewart, Robert S., Detroit, Mich. Hot-wire electric meter.....	715,170	Dec. 2	995	215	101	2040
Stewart, Samuel, Newark, N. J. Gas heating-stove.....	701,100	May 27	3856	886	99	2021
Stewart, Samuel B., Jr. (See Hild and Stewart.)						
Stewart, Samuel B., Jr., Schenectady, N. Y., assignor to General Electric Company. Signal system for electric railways.....	695,122	Mar. 11	1513	336	98	2047
Stewart, Sylvester N., Brooklyn, N. Y. Device for guiding wagons on tracks.....	702,503	June 17	2223	506	99	2604
Stewart-Wallace, John S., Knock, Ireland, and W. B. Cowell, London, England; said Cowell assignor to said Stewart-Wallace. Treating mineral oils or the distillates or residuals thereof.....	716,132	Dec. 16	2873	633	101	2469
Stewart, Washington H., deceased; M. A. Hodge, administratrix, assignor of three-fourths to W. F. Holmes and L. M. Hodge, San Jose, Cal. Hydrocarbon-burner.....	700,443	Sept. 16	2775	625	100	2585
Stewart, William, Albany, New South Wales, Australia. Fire-escape.....	696,508	Apr. 1	201	48	99	47
Stewart, William G., Philadelphia, Pa., assignor to Espen, Stewart and Loeb, Limited. Knitting-machine.....	694,036	Feb. 25	3193	769	98	1579
Stewart, William J., Lynnville, Tenn. Garden-plow.....	692,941	Feb. 11	1335	291	98	1100
Stewart, William M., et al. (See Werner and Ellis, assignors.)						
Stickel, Jacob, assignor of five-sixths to H. C. McCormick, C. F. Overhiser, Williamsport, Pa., and J. L. Atkins, Washington, D. C. Journal-bearing.....	696,509	Apr. 1	202	49	99	47
Stickel, Francis, assignor of one-half to C. A. Drucklieb, New York, N. Y. Cigarette-making machine.....	700,253	May 20	2227	509	99	1667
Sticklin, Louis J., Chehalis, Wash. Lid-controlling device.....	710,903	Oct. 7	951	209	101	194
Stickney, Burnham C., Elizabeth, assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine.....	694,117	Feb. 25	3624	802	98	1605
Stickney, Burnham C., Elizabeth, N. J., assignor to J. Felbel, New York, N. Y. Type-writing machine.....	698,151	Apr. 22	3310	724	99	1749
Stickney, Caleb, assignor to Towle Manufacturing Company, Newburyport, Mass. Apparatus for annealing silver or other metals.....	700,101	May 13	1867	435	99	1572
Stickney, Henry R., Portland, Me. Can-filling machine.....	693,921	Feb. 25	3246	715	98	1529
Stiefel, Henry C., Pittsburg, Pa. Flat-iron.....	692,555	Feb. 4	596	140	98	919
Stiefel, Henry C., Pittsburg, Pa. Pen-point-ejecting penholder.....	701,643	June 3	664	145	99	2247
Stiegelmann, Armand J., assignor to Badische Anilin und Soda Fabrik, Ludwigshafen, Germany. Making resist-white under indigo.....	699,033	Apr. 29	5006		99	1128
Stieglitz, John L., Louisville, Ky. Window.....	711,082	Oct. 14	1319	284	101	287
Stiehle, Guido, Seilmanns, Germany. Vessel or pot for gathering fibers being thrown off spinning-machines.....	698,755	Apr. 29	4475	989	99	1013
Stier, Henry S., St. Louis, Mo. Car-brake.....	691,201	Jan. 14	1553	352	98	339
Stierle, John E., Eau Claire, Wis. Device for the cure of strabismus.....	709,058	Sept. 16	2007	457	100	2422
Stifel, Henry E., et al. (See Sharp, Samuel J., assignor.)						
Stifel, Louis F., et al. (See Sharp, Samuel J., assignor.)						
Stiff, Frederick L. and W. G., Fall River, Mass. Combination picture-frame.....	713,170	Nov. 11	1344	303	101	1189
Stiff, Walter G. (See Stiff, Frederick L. and W. G.)						
Stifter, Joseph, Jr., Pittsburg, Pa. Hose-coupling.....	715,621	Dec. 9	1836	408	101	2228
Stiglitz, William H. (See McKelvey, Jonathan, assignor.)						
Stiglitz, Theodor, Vienna, Austria-Hungary. Machine for working stone surfaces.....	702,037	June 10	1353	308	99	2403
Stiker, Flavius P., Buffalo, and O. C. Burton, North Tonawanda, N. Y. Metal-dressing machine.....	707,272	Aug. 19	2420	543	100	1648
Stiker, Flavius P., Buffalo, and O. C. Burton, North Tonawanda, N. Y. Slide for metal-dressing machines.....	707,273	Aug. 19	2435	546	100	1652
Stiker, Flavius P., Buffalo, and O. C. Burton, North Tonawanda, N. Y. Chute for metal-dressing machines.....	711,237	Oct. 14	1627	350	101	353
Stiker, Flavius P., Buffalo, and O. C. Burton, North Tonawanda, N. Y. Carrier for metal-dressing machines.....	711,648	Oct. 21	2398	528	101	528
Stiles, Alonzo L. and E. D., Postville, Iowa. Scaffold.....	713,358	Nov. 11	1744	392	101	1271
Stiles, Edward H., Jr. (See Wood and Stiles.)						
Stiles, Elbert D. (See Stiles, Alonzo L. and E. D.)						
Stiles, George F., et al. (See Mitchell, James E., assignor.)						
Stiles, Joseph A., Wichita, Kans. Tuck-comb.....	711,885	Oct. 21	2869	635	101	629
Stiles, Linford S., Philadelphia, Pa. Engine for molding machines.....	703,013	June 24	3186	734	99	2819
Stiles, Norman C., Watertown, N. Y. Fountain-pen.....	711,709	Oct. 21	2523	735	101	556
Still, Charles I., Sing Sing, N. Y. Picture-hanger.....	696,515	Apr. 1	204	49	99	48
Still, William J., Toronto, Canada. Variable-speed governor.....	700,848	May 27	3406	782	99	1928
Still, William J., Wimbledon, England. Hydrocarbon-motor.....	708,502	Sept. 2	903	204	100	2165
Stille, Carl A., and S. Billings, Chicago, Ill. Wood carpet.....	708,842	Sept. 9	1562	205	100	2313



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Stillman, Francis H. (See Wigtel, Carl, assignor.)						
Stillman, George R., Philadelphia, Pa. Hygienic non-lamp	707,177	Aug. 19	2256	504	100	1613
Stillman, Oscar B., New York, N. Y. Conveying apparatus	696,115	Mar. 23	3344	754	98	2458
Stillman, Philip T., Elizabeth, N. J. Valve for fluid-pressure engines	709,246	Sept. 16	2385	540	100	2503
Stillwell, Wendell H., Davenport, Iowa. Car-coupling	706,273	Aug. 5	545	117	100	1226
Stilson, Amos C., East Bradford, Pa. Roller-bearing	715,171	Dec. 2	997	216	101	2010
Stilson, George W., Buffalo, N. Y. Thimble for stovepipes	716,954	Dec. 30	4599	996	101	2870
Stilwell-Bierce & Smith-Valle Co. (See Giesler, Arthur, assignor.)						
Stilwell-Bierce & Smith-Valle Co. (See Thacker, Edgar M., assignor.)						
Stilwell, Charles B., Philadelphia, Pa. Savings-bank	707,875	Aug. 26	3653	823	100	1915
Stilwell, John R., Louisville, Ky. Lace-curtain pole	715,704	Dec. 9	1989	445	101	2260
Stimpson, Charles, Plainfield, N. J. Sash-lock	704,279	July 8	1705	372	100	358
Stimpson, Clarence A., Philadelphia, Pa. Automatic fuse-switch for telegraph or other circuits	700,989	May 27	3619	838	99	1975
Stimpson Credit Register Company. (See Downie, William, assignor.)						
Stimpson, Edward S. (See Draper and Stimpson.)						
Stimpson, Edward S., assignor to Draper Company, Hopedale, Mass. Loom-temple	692,087	Jan. 28	3259	737	98	725
Stimpson, Edward S., assignor to Draper Company, Hopedale, Mass. Self-threading loom-shuttle	692,801	Feb. 4	1043	234	98	1009
Stimpson, Edward S., assignor to Draper Company, Hopedale, Mass. Shuttle-binder for looms	703,498	July 1	215	51	100	45
Stimpson, Edward S., assignor to Draper Company, Hopedale, Mass. Thread-parter for looms	704,713	July 15	2497	540	100	538
Stimpson, Edward S., assignor to Draper Company, Hopedale, Mass. Filling-replenishing loom	710,028	Sept. 30	3392	888	100	2819
Stimpson, Edward S., assignor to Draper Company, Hopedale, Mass. Let-off-arresting mechanism for looms	710,024	Sept. 30	3385	888	100	2850
Stimpson, Edward S., assignor to Draper Company, Hopedale, Mass. Warp stop-motion for looms	717,132	Dec. 30	4932	1069	101	2941
Stimpson, Edwin B., Brooklyn, N. Y. Punching and eyeletting machine	696,211	Mar. 25	3542	793	98	2408
Stimpson, Edwin B., Brooklyn, N. Y. Locking device for use in punching-machines or the like	703,747	July 1	689	150	100	137
Stimpson, Edwin B., Brooklyn, N. Y. Tab-cutting machine	703,748	July 1	691	153	100	138
Stimpson, Edwin B., Brooklyn, N. Y. Adjustable guide	703,749	July 1	693	153	100	138
Stimpson, Edwin B., Brooklyn, N. Y. Machine for setting buttons	707,274	Aug. 19	2437	546	100	1632
Stimpson, Edwin B., Brooklyn, N. Y. Perforating-machine	713,526	Nov. 11	2074	464	101	1339
Stimpson, Edwin B., Brooklyn, N. Y. Button-setting machine	714,336	Nov. 25	3655	806	101	1702
Stimpson, Wallace I., Milford, assignor to Draper Company, Hopedale, Mass. Filling-replenishing loom	698,579	Apr. 29	4063	899	99	923
Stimpson, Wallace I., Milford, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Warp-stop-motion mechanism	699,117	Apr. 29	5144	1138	99	1156
Stimpson, Walter F. (See Finn, Edwin, assignor.)						
Stimpson, Walter F., Milan, Mich. Brick-machine	707,275	Aug. 19	2441	548	100	1633
Stimpson, Walter F., Detroit, Mich. Brick-machine	707,276	Aug. 19	2444	549	100	1634
Stimpson, William H., Detroit, Mich. Computing-scale	715,172	Dec. 2	999	216	101	2010
Stimpson, William H., Boston, Mass. Heater for curling-tongs, &c	692,087	Jan. 28	3155	712	98	705
Stimson, Alfred T., Eureka, Cal. Rotary engine	704,280	July 8	1706	372	100	359
Stimson, Charles W., New York, N. Y. Clasp	706,272	Aug. 5	543	117	100	1225
Stimson, Charles W., New York, N. Y. Corset	710,220	Sept. 30	4232	972	100	2938
Stimson, David S., and A. Stevenson, Kittery, Me. Pinless hinge	704,590	July 15	2293	498	100	494
Stimson, John H. (See Stearns, Christopher C., assignor.)						
Stimson, Oscar M., Chicago, Ill. Truck-bolster for railway-cars	696,511	Apr. 1	205	49	99	43
Stine, Joseph, Saybrook, Ill. Attachment for cultivators	692,729	Feb. 4	900	205	98	983
Stine, Samuel R., McVeytown, Pa. Hot-water attachment for ranges	717,047	Dec. 30	4770	1034	101	2907
Stinebring, George W., Shreve, Ohio. Frictional gearing	705,714	July 29	4647	1006	100	1000
Stiner, Clarence M., New York, N. Y. Coin-operated hair-brush	695,505	Mar. 18	2178	492	98	2294
Stiner, Frank, Lawrence, Mass. Cloth-finishing machine	712,209	Oct. 28	3495	767	101	769
Stiner, Frank, Lawrence, Mass. Cloth-finishing machine	712,210	Oct. 28	3499	767	101	770
Stipp, Edwin M., Leakey, Tex. Stack former and protector	706,610	Aug. 12	1184	263	100	1371
Stirckler, John D., assignor to Beacon Trust Company, trustee, Boston, Mass. Fastening device for gloves, &c	711,594	Oct. 21	2306	504	101	509
Stirckler, John D., assignor of two-thirds to W. P. Stratton and C. J. Groves, Boston, Mass. Lacing stud or hook	695,561	Mar. 25	3024	686	98	2391
Stire, Peter C., Seymour, Iowa. Semismokeless powder	691,919	Jan. 28	2384	504	98	662
Stirling Company. (See Prentice and Gregory, assignors.)						
Stirling Company. (See Sneadon, James F., assignor.)						
Stirling Company. (See Sweet, Fred D., assignor.)						
Stirling, Robert, Baku, Russia. Apparatus for raising liquids, such as oil, from oil-wells by direct air-pressure	717,048	Dec. 30	4772	1034	101	2907
Stirrett, George, Brandon, Canada. Grain-car door	709,247	Sept. 16	2387	540	100	2503
Stites, Charles W., New York, N. Y. Detachable saw-handle	710,904	Oct. 7	953	209	101	194
Stites, Townsend, assignor to Welsbach Light Company, Gloucester City, N. J. Burner	697,690	Apr. 15	2438	542	99	547
Stites, Townsend, Philadelphia, Pa., assignor to Welsbach Light Company, Gloucester City, N. J. Welsbach or other incandescent burner	700,157	May 13	2008	460	99	1599
Stobbs, Matthew, and J. S. Thompson, Sydney, New South Wales, Australia. Combined road-cleaner, elevator and dirt-cart	705,478	July 22	4122	896	100	884
Stock, Friedrich. (See Lauber and Stock.)						
Stock, James W., Nottingham, England. Draft apparatus for furnaces of steam-boilers or the like	691,672	Jan. 21	2464	552	98	548
Stockall, James J., Sr., London, England. Secondary electric clock	711,649	Oct. 21	2402	520	101	529
Stockall, James J., Jr., London, England. Workman's time-recorder	714,964	Dec. 2	640	134	101	1964
Stockdale, Emily A., Washington, D. C. Bed-pan	702,608	June 17	2412	551	99	2612
Stockdale, James E., Sheldon, Mo. Capping or decapping machine for cartridge-shells	692,730	Feb. 4	902	206	98	983
Stockder, Charles E., Jr., Meriden, Conn. Golf-tee	702,078	June 10	1451	326	99	2424
Stocker, Eva E., administratrix. (See Stocker, John.)						
Stoecker, Johannes, and H. Zander, Berlin, Germany. Insulating substance and manufacturing same	695,587	Mar. 18	2336	504	98	2242

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Stocker, John, deceased; E. E. Stocker, St. Louis, Mo., administratrix. Liquid-cooling apparatus	700,990	May 27	3632	839	99	1976
Stocker, Theodore. (See Allender and Stocker.)						
Stockett, Albert H., Topeka, Ill. Washboard	711,795	Oct. 21	2693	593	101	591
Stockett & Co., William E. (See Rirdon, Robert R., assignor.)						
Stockett, John W., Washington, D. C. Firing attachment for breech-loading ordnance	699,256	May 6	234	55	99	1292
Stockett, John W., Washington, D. C. Breech-loading ordnance	705,157	July 22	3445	749	100	747
Stokin, George W., Mobile, Ala. Automatic railway-car brake	716,780	Dec. 23	4145	908	101	2740
Stockman, Harry A., Johannesburg, South African Republic. Bolt-lock	702,254	June 10	1742	394	99	2484
Stockman, Harry A., Johannesburg, South African Republic. Bolt-lock	702,255	June 10	1743	394	99	2484
Stockman, Henry, Philadelphia, Pa. Leather-cutting machine	703,160	June 24	3481	800	99	2876
Stocks, Clarence L., Greenville, Tex. Dental occlusor	716,781	Dec. 23	4147	909	101	2750
Stocks, Lucy H., Leeds, England. Means or apparatus for cooking eggs	705,140	July 8	1465	313	100	308
Stoddard, Albert F., Chillicothe, Mo. Ribbon-holder	691,673	Jan. 21	2465	552	98	548
Stoddard, Elliott J., assignor to C. F. Burton, trustee, Detroit, Mich. Electrical igniter for gas-engines	717,466	Dec. 30	5556	1207	101	3072
Stoddard, Frederick S., and F. E. Whitney, Syracuse, N. Y. Speed-vehicle	716,183	Dec. 16	2875	633	101	2409
Stoddard Manufacturing Company. (See Brown, Arthur F., assignor.)						
Stoddard Manufacturing Company. (See Michael, Clement W., assignor.)						
Stoddard, Oscar, Detroit, assignor to Battle Creek Novelty Company, Limited, Battle-creek, Mich. Lock	713,359	Nov. 11	1745	393	101	1272
Stoecker, Carl. (See Nash, Harvey W., assignor.)						
Stoelting, Charles T., St. Louis, Mo. Street-car fender	704,141	July 8	1467	314	100	308
Stoerk, Jean, Brussels, G. Dubois, Tubize, and A. D. D'Asson, Brussels, Belgium; said Stoerk and Dubois assignors to said D'Asson. Machine for the manufacture of lustrous yarns	713,360	Nov. 11	1747	393 394	101	1272
Stofer, Richard C. (See Windolph and Stofer.)						
Stoffel, William J., Sandusky, Ohio. Bathing apparatus	699,589	May 6	877	204	99	1356
Stohle, Carl W. (See Ford and Stohle.)						
Stokes, Charles F., Chicago, Ill., and C. E. McGlinchey, Highlandville, Mass.; said McGlinchey assignor to said Stokes. Motion-transmitting device	705,624	July 29	4474	970	100	966
Stokes, J. Stoddell, <i>et al.</i> (See Smith, Philip S., assignor.)						
Stokes, John S., Moorestown, N. J. Rivet-strip	712,422	Oct. 28	3894	852	101	856
Stokes, John S., Moorestown, N. J. Machine for punching metal strips	717,049	Dec. 30	4776	1035 1036	101	2908
Stokesberry, Arthur L., Rush Springs, Ind. Ter. Fly-screen	698,756	Apr. 29	4476	990	99	1013
Stoll, Heinrich, Reutlingen, Germany, assignor to National Knitting Co., Milwaukee, Wis. Knitting-machine	708,786	Sept. 9	1427	328	100	2285
Stoll, Math, and J. W. Ruck, Pittsburg, Pa. Trolley	695,506	Mar. 18	2179	492	98	2204
Stolle, Albert A., New York, N. Y. Electric railway	690,590	May 6	878	204	99	1356
Stollwerck, Christian, Aix-la-Chapelle, Germany. Organ	691,501	Jan. 21	2151	483	98	484
Stoltz, Peter, Berlin, Germany. Steam-generator	709,371	Sept. 16	2644	593	100	2558
Stoltz, Valentine, Montrose, Minn. Draft-generator for threshing-machine engines	690,789	Jan. 7	817	180	98	173
Stolz, Ernest H., Chicago, Ill. Easel	700,849	May 27	3409	788	99	1928
Stone, Clarence, Philadelphia, Pa., assignor to Adams Top Cutting Machine Company, New York, N. Y. Mechanical movement	692,379	Feb. 4	282	69	98	857
Stone, Clarence, Philadelphia, Pa., assignor to Adams Top Cutting Machine Company, New York, N. Y. Feeding device for fabric-cutting machines	693,922	Feb. 25	3248	715	98	1530
Stone, Clarence, assignor of one-half to A. R. Grever, Philadelphia, Pa. Variable-speed gearing	706,611	Aug. 12	1185	268	100	1371
Stone and Company, J. (See Gill, Arthur B., assignor.)						
Stone, Daniel S., <i>et al.</i> (See Holland, Joseph R., assignor.)						
Stone, David F. (See Lemmudin and Stone.)						
Stone, David K., and W. W. Healy, Bloomington, Mich. Coin-controlled vending-machine	705,477	July 22	4120	896	100	884
Stone, Edgar, <i>et al.</i> (See Porter, James A., assignor.)						
Stone, Enoch G., assignor of one-half to D. A. Robinson, Bloomington, Tenn. Automatic vehicle-brake	704,281	July 8	1710	373	100	360
Stone, Frederic W. (See Stone, Samuel N. and F. W.)						
Stone, George, assignor to M. T. Stevens and Sons, North Andover, Mass. Yarn-drying apparatus	705,158	July 22	3448	749 750 751	100	747
Stone, George C., Newark, N. J. Extraction of zinc and lead from sulfid ores	717,299	Dec. 30	5260	1142	101	3013
Stone, George C., Jersey City, N. J., assignor to New Jersey Zinc Company. Apparatus for cooling and absorbing sulfuric anhydride	695,180	Mar. 11	1615	358	98	2070
Stone, George C., Jersey City, N. J., assignor to New Jersey Zinc Company. Apparatus for making sulfuric acid by the contact process	711,186	Oct. 14	1532	328	101	333
Stone, George C., Jersey City, N. J., assignor to New Jersey Zinc Company. Separating and recovering arsenic fumes from furnace-gases	711,187	Oct. 14	1533	329	101	334
Stone, George C., Jersey City, N. J., assignor to New Jersey Zinc Company. Apparatus for separating and recovering fumes of arsenic, &c.	711,188	Oct. 14	1535	329	101	334
Stone, Herman W., Jr., Morris, Minn. Belt-tightening tool	693,182	Feb. 11	1821	397	98	1197
Stone, Henry J., San Francisco, assignor, by mesne assignments, of two-thirds to J. W. Macaulay, San Jose, Cal. Railway or other spike	713,527	Nov. 11	2076	464	101	1339
Stone, Irving L., <i>et al.</i> (See Brigham, Edward M., assignor.)						
Stone, Jane W. (See Warner, Daniel, assignor.)						
Stone, John S., Cambridge, Mass. Electrical distribution	717,467	Dec. 30	5558	1207	101	3073
Stone, John S., Cambridge, Mass. Electrical distribution	717,515	Dec. 30	5643	1224	101	3090
Stone, John S., Cambridge, assignor to Stone Telegraph and Telephone Company, Boston, Mass. Apparatus for selective electric signaling	714,894	Dec. 2	373	80	101	1910
Stone, John S., Boston, Mass., assignor or other to New Jersey Zinc Company. Separating and recovering arsenic fumes from furnace-gases	714,756	Dec. 2	198	40,41	101	1878
Stone, John S., Boston, Mass., assignor to L. E. Whichee, A. P. Browne, and B. T. Judkins, trustees. Apparatus for selective electric signaling	714,881	Dec. 2	354	78,79	101	1906
Stone, John S., Boston, Mass., assignor to L. E. Whichee, A. P. Browne, and B. T. Judkins, trustees. Apparatus for amplifying electromagnetic signal-waves	714,832	Dec. 2	367	79	101	1910
Stone, John S., Boston, Mass., assignor to L. E. Whichee, A. P. Browne, and B. T. Judkins, trustees. Amplifying electromagnetic signal-waves	714,833	Dec. 2	370	80	101	1910
Stone, John S., Boston, Mass., assignor to L. E. Whichee, A. P. Browne, and B. T. Judkins, trustees. Determining the direction of space-telegraph signals	716,134	Dec. 16	2877	634	101	2470
Stone, John S., Boston, Mass., assignor to L. E. Whichee, A. P. Browne, and B. T. Judkins, trustees. Apparatus for determining the direction of space-telegraph signals	716,135	Dec. 16	2880	634	101	2470
Stone, John S., Boston, Mass., assignor to L. E. Whichee, A. P. Browne, and B. T. Judkins, trustees. Apparatus for simultaneously transmitting and receiving space-telegraph signals	716,136	Dec. 16	2883	634	101	2470



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Stone, John S., Boston, Mass., assignor to L. E. Whicher, A. P. Browne, and B. T. Judkins, trustees. Simultaneously transmitting and receiving space-telegraph signals	716,137	Dec. 16	2885	634	101 2470
Stone, John S., Boston, Mass., assignor to L. E. Whicher, A. P. Browne, and B. T. Judkins, trustees. Simultaneously transmitting and receiving space-telegraph signals	716,955	Dec. 30	4600	996	101 2870
Stone, John S., Boston, Mass., assignor to L. E. Whicher, A. P. Browne, and B. T. Judkins, trustees. Apparatus for relaying space-telegraph signals	717,509	Dec. 30	5635	1223	101 3089
Stone, John S., Boston, Mass., assignor to L. E. Whicher, A. P. Browne, and B. T. Judkins, trustees. Relaying space-telegraph signals	717,510	Dec. 30	5637	1223	101 3089
Stone, John S., Boston, Mass., assignor to L. E. Whicher, A. P. Browne, and B. T. Judkins, trustees. Tuning vertical wire oscillators	717,511	Dec. 30	5638	1223	101 3089
Stone, John S., Boston, Mass., assignor to L. E. Whicher, A. P. Browne, and B. T. Judkins, trustees. Tuned electric oscillator	717,512	Dec. 30	5639	1224	101 3089
Stone, John S., Boston, Mass., assignor to L. E. Whicher, A. P. Browne, and B. T. Judkins, trustees. Relaying space-telegraph signals	717,513	Dec. 30	5640	1224	101 3090
Stone, John S., Boston, Mass., assignor to L. E. Whicher, A. P. Browne, and B. T. Judkins, trustees. Apparatus for relaying space-telegraph signals	717,514	Dec. 30	5641	1224	101 3090
Stone, Julius, deceased, Boston, Mass.; R. Stone, administratrix. Musical ball	709,850	May 27	3410	783	99 1928
Stone, Marie L., Toronto, Canada. Cooking or heating oil-stove	708,503	Sept. 2	909	206	100 2166
Stone, Miles A., Little Rock, Ark. System for recording sales	716,956	Dec. 30	4602	996	101 2870
Stone, Nahum I. (See Powers, James, assignor.)					
Stone, Rachel, administratrix. (See Stone, Julius.)					
Stone, Roy, New York, N. Y. Tramway plate	714,057	Nov. 18	3098	684	101 1570
Stone, Rudolph, Catawba, Wis. Meat-tenderer	690,333	Jan. 7	318	64	98 69
Stone, Rudolph, Catawba, Wis. Meat-tenderer	698,074	Apr. 22	3137	691	99 715
Stone, Samuel N. and F. W., Attleboro, Mass. Eyeglass-mounting	715,894	Dec. 16	2401	532	101 2368
Stone Telegraph and Telephone Company. (See S one, John S., assignor.)					
Stone, Thomas, and J. Hampson, assignors to Pierce Manufacturing Corporation, New Bedford, Mass. Lappet-loom	716,499	Dec. 23	3592	784	101 2632
Stonebraker, Jeremiah, Barnesville, Ohio. Shade-roller hanging apparatus	708,090	Sept. 2	163	39	100 2015
Stonedahl, Alfred N., Portwing, Wis. Culinary article	696,278	Mar. 25	3065	819	98 2533
Stoneman, Orville A., assignor of one-half to M. J. W. White, Norfolk, Va. Trunk-strap	693,079	Feb. 11	1598	346	98 1152
Stoneman, Orville A., assignor of two-thirds to S. S. Green, Norfolk, Va. Trunk-strap	700,158	May 13	2010	460	99 1599
Stonemetz, John H., Brooklyn, assignor, by mesne assignments, to Campbell Printing Press & Manufacturing Company, New York, N. Y. Printing press	693,183	Feb. 11	1824	1397	98 1158
Stoner, William H., Rockford, assignor of one-half to L. E. King, Filley, Nebr. Corn-husker	692,088	Jan. 28	3260	737	98 736
Stones, William G., Blackburn, England. Fuel-feeding attachment for furnaces	631,981	Jan. 28	3052	685	98 685
Stones, William G., assignor to Smoke Preventer Company, Limited, Blackburn, England. Fuel-feeding apparatus. (Reissue.)	12,023	Aug. 19	2916	1659	100 1751
Stoppel, Omar. (See Palmer, Herbert R., assignor.)					
Storch, Ernst, Berlin, Germany, assignor to C. Binder, Chicago, Ill. Drier	639,118	Apr. 29	5145	1138	99 1156
Storch, John H., Wetoona, Pa. Neck-yoke	698,075	Apr. 22	3140	691	99 716
Storer, Norman W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of electrical distribution	695,992	Mar. 25	3026	686	98 2391
Storey, Bradford W., Mount Holly, N. J., assignor, by mesne assignments, to International Marine Governor Company. Governor for marine engines	697,899	Apr. 15	2809	621	99 629
Storey, John. (See Berry, Edwin, assignor.)					
Storlie, Ole O., Tacoma, Wash. Self-grinding valve	695,588	Mar. 18	2357	534	98 2242
Storlie, Ole O., Tacoma, Wash. Valve	695,589	Mar. 18	2358	534	98 2242
Storm, Charles H., assignor to R. L. Storm, Waterloo, Iowa. Automatic signal for electric railways	699,119	Apr. 29	5147	1139	99 1157
Storm, Edwin R., New York, N. Y. Printing-plate holder	703,676	July 1	556	125	100 110
Storm, Edwin R., assignor of one-half to G. A. Annable, New York, N. Y. Electric switch	690,479	Jan. 7	198	40	98 43
Storm, John L., Pittsburg, Pa. Hat and coat rack	697,329	Apr. 8	1694	378	98 381
Storm Railway Signal Company. (See Storm, Ralph L., assignor.)					
Storm, Ralph L. (See Storm, Charles H., assignor.)					
Storm, Ralph L., Waterloo, Iowa. Automatic signal	700,851	May 27	3411	1783	99 1928
Storm, Ralph L., assignor to Storm Railway Signal Company, Waterloo, Iowa. Automatic signal for electric railways	701,275	May 27	4184	960	99 2087
Stormfels, Margarette, Allegheny, Pa. Envelop	712,465	Oct. 28	3970	868	101 870
Storms, Jordan E., Jr., Yonkers, N. Y. Collapsible phonograph horn or megaphone	714,620	Nov. 25	4178	924	101 1806
Storr, David C., New York, N. Y. Couch-bedstead	693,923	Feb. 25	3249	715	98 1530
Storr, David C., New York, N. Y. Interconvertible bed or couch	700,852	May 27	3414	784	99 1929
Storr, David C., New York, N. Y. Couch bed	700,853	May 27	3415	1784	99 1929
Storr, Wilhelm. (See Stein and Storr.)					
Storrs, Aaron P., Owego, N. Y. Student's lamp	698,580	Apr. 29	4067	899	99 924
Storrs, Aaron P., assignor to Storrs Mica Company, Owego, N. Y. Mica chimney	700,991	May 27	3653	839	99 1976
Storrs, Charles P., et al. (See Henderson, Thomas M., assignor.)					
Storrs, Charles P., Wilmington, Del. Screw-jack	707,730	Aug. 26	3320	745	100 1853
Storrs, Eugene R., Cripple Creek, Colo. Sweep-operated hoisting-windlass	705,880	July 29	4934	1073	100 1038
Storrs Mica Company. (See Storrs, Aaron P., assignor.)					
Stouder, Augustus G., assignor to Troy Carriage Sun Shade Company, Troy, Ohio. Umbrella-cover fastening	699,424	May 6	375	130	99 1293
Stoughton, Joseph M. (See Hess and Stoughton.)					
Stout, Cornelius, Pomona, Cal. Sugar-paddle	697,133	Apr. 8	1498	335	99 338
Stout, Donald V. (See Garver and Stout.)					
Stout, Jacob, Bluffton, Ind. Combined harrow and roller	699,257	May 6	237	55	99 1222
Stout, John P., Washington, D. C. Repair-strip for buttonhole portions of articles of apparel	699,827	May 13	1348	313	99 1466
Stout, R. Paul. (See Collins, Harry R., assignor.)					
Stout, Robert P. (See Meigs and Stout.)					
Stout, William H., Dayton, Ohio. Machine for making veneer boxes	706,274	Aug. 5	546	118	100 1236
Stout, William H. A., assignor of one-half to H. S. Beiber, Philadelphia, Pa. Trunk	695,246	Mar. 11	1735	134	98 2095
Stoutenbrough, Xenophon. (See Howard, Frank W., assignor.)					
Stovall, Phillip E. (See Goodwyn and Stovall.)					
Stover, James R., Coraopolis, Pa. Stove-damper attachment	707,366	Aug. 19	2602	588	100 1685
Stover Manufacturing Company. (See Held, August S., assignor.)					
Stover Manufacturing Company. (See Ziegler, Oscar J., assignor.)					
Stowe, Benjamin L., Jersey City, N. J. Hydraulic or fire hose	706,460	Aug. 5	938	205	100 1345

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Stowe, Bernard A., assignor to Jandus Electric Company, Cleveland, Ohio. Brush-holder for motors &c.	713,711	Nov. 18	2418	540	101	1425
Stowe, E. L. (See Worthington, Henry A., assignor.)						
Stowell, Byron F., Springfield, Mass. Steam-engine.	695,006	Mar. 11	1289	283	98	2002
Stowell, Ellery, Denver, Colo. Hoisting device.	704,222	July 8	1602	347	100	335
Stowell, Henry F., Rochester, N. Y. Separable garment-supporting button attachment.	705,476	July 22	4119	895	100	883
Strabala, Joseph W., Kalona, Iowa. Rotary engine.	703,014	June 24	3191	735	99	2830
Strache, Hugo, Vienna, Austria-Hungary. Apparatus for generating water-gas.	70,619	July 1	435	701	100	86
Strache, Hugo, Vienna, Austria-Hungary. Generating water-gas.	715,218	Dec. 2	1084	232	101	2050
Straeten, Hubert, and F. Schneek, Chicago, Ill. Grate for boilers.	706,275	Aug. 5	552	120	100	1227
Strahm, Joel, Bern, Kans. Tank-heater.	700,854	May 27	3417	785	99	1929
Strahm, Joel, Sabetha, Kans. Tank-heater.	715,895	Dec. 16	2402	532	101	2368
Straight, Bennett D., Chicago, Ill. Rotary hand-fan.	708,091	Sept. 2	155	39	100	3015
Straight, Edward B., Chicago, Ill. Music rack or stand.	717,183	Dec. 30	4934	1070	101	2341
Straight, George H., Allenton, E. I. Music-leaf turner.	711,189	Oct. 14	1536	329	101	271
Straif, Andrew V., Sidney, assignor to N. H. Brown, Norwich, N. Y. Electric alarm-clock.	710,927	Oct. 7	993	219	101	202
Strakele, John, assignor of one-third to J. M. Schwenk, New York, N. Y. Life-saving apparatus.	714,757	Dec. 2	211	41	101	1880
Straker, Sidney S., London, England. Steam-propelled road-vehicle.	698,232	Apr. 22	3466	762	99	784
Strand, John, Mankato, Kans. Corn-harvester.	709,424	Sept. 16	2738	615	100	2577
Strang, Frank D., Cleveland, Ohio. Jeweler's mold.	695,507	Mar. 18	2180	492	98	2204
Sträng, Henrik C., Chicago, Ill. Engine-governor.	709,050	Sept. 16	2008	457	100	2422
Sträng, Henrik C., Chicago, Ill. Four-cycle explosive-engine.	709,060	Sept. 16	2011	458	100	2423
Strange, Edward H., London, and E. Graham, Tilehurst, assignors of one-half to E. R. Burrell, Milwall, London, England. Manufacture of varnishes.	708,985	Sept. 9	1729	400	100	2348
Strange, William E., Magnolia, Ark. Buggy-top support.	699,722	May 13	1139	267	99	1422
Strasburger, Frank C. H., Chicago, Ill. Labeling-machine.	701,220	May 27	4091	942	99	2070
Strasburger, Frank C. H., assignor to Bottlers' Specialty Manufacturing Company, Chicago, Ill. Labeling-machine.	711,018	Oct. 14	1176	259	101	258
Strasburger, Frank C. H., assignor to Bottlers' Specialty Manufacturing Co., Chicago, Ill. Printing attachment for labeling-machines.	711,019	Oct. 14	1182	260	101	260
Strassburger, Arnold H., Chicago, Ill. Spectacles.	712,016	Nov. 4	296	70	101	960
Strate, Herman B., Grand Rapids, Mich. Support for brick arches.	701,900	June 10	1209	275	99	2377
Stratton, Samuel R., Washington, D. C. Paper-clip.	709,523	Sept. 23	2085	665	100	2642
Strattner, Frederick, Salisbury, Md. Device for filling cans.	690,790	Jan. 7	818	180	98	173
Strattner, Frederick, Salisbury, Md. Air-brake valve.	708,092	Sept. 2	166	39	100	2015
Stratton, Charles H., Muncie, Ind. Shifting-seat vehicle.	694,037	Feb. 25	3495	770	98	1580
Stratton, Eugene, and F. A. Cole, New York, N. Y. Guard for heel-trimming and edge-trimming machines.	710,343	Sept. 30	4532	1023	100	2978
Stratton, Franklin, Buffalo, N. Y. Vehicle.	702,504	June 17	2225	506	99	2604
Stratton, William H., Hartford, Conn. Automatic sprinkler.	698,024	Feb. 25	3251	716	98	1530
Stratton, William P., et al. (See Strickler, John D., assignor.)						
Straub, Jacob, Campbellsport, Wis. Loading apparatus.	704,142	July 8	1468	314	100	308
Strauch, Eduard, assignor of one-half to G. H. Rosenblatt, New York, N. Y. Mold.	712,211	Oct. 28	3053	768	101	771
Strauch, Peter D., New York, N. Y. Upright-piano action.	694,118	Feb. 25	3631	802	98	1607
Straus, Alexander, New York, N. Y. Forming sponge substitutes.	702,102	June 10	1594	377	99	2454
Straus, Elise, assignor to H. S. Morris, Vineland, N. J. Making flour from sweet potatoes.	696,088	Mar. 25	3270	740	98	2411
Straus, Max, Denver, Colo. Hand-strap for street-railway cars.	704,143	July 8	1470	315	100	308
Straus, Max, Denver, Colo. Hand-strap for railway cars.	710,535	Oct. 7	275	61	101	55
Straus, Max, Denver, Colo. Hand-strap for street-cars.	710,536	Oct. 7	276	61	101	56
Strauss, Harry S., and E. S. Schwerdtle, Bridgeport, Conn. Bowing-guide for violins.	713,171	Nov. 11	1345	303	101	1189
Strauss, Herman A., New York, N. Y. Electric-current controller for incandescent lamps or motors.	717,468	Dec. 30	5561	1207	101	3073
Strauss, Karl, Wiesbaden, Germany. Coin-freed gymnastic apparatus.	698,335	Apr. 22	3632	802	99	818
Strauss, Maurice M., Chicago, Ill. Safety watch-pocket.	699,425	May 6	576	130	99	1294
Strauss, Sigismund, New York, N. Y. Cigar-moistener and price and brand ticket.	696,512	Apr. 1	206	50	99	48
Streat, Herbert G., New York, N. Y. Necktie.	704,591	July 15	2295	498	100	495
Streator, Henry D., Galesburg, Mich. Artificial-stone post.	715,433	Dec. 9	1485	321	101	2159
Streibel, Adolf, Frankfort-on-the-Main, assignor, by mesne assignments, to Haarmann & Reimer-Chemische Fabrik zu Holzwinden, G. M. B. H., Holzwinden, Germany. Making London.	715,896	Dec. 16	2404	884	101	2368
Streibel, Louis, and C. W. Williams, assignors to Century Stopper Company, New York, N. Y. Bottle-filling machine.	695,247	Mar. 11	1736	385	98	2095
Streibel, Louis, and C. W. Williams, assignors to Century Stopper Company, New York, N. Y. Bottle-filling machine.	697,221	Apr. 8	1567	351	99	352
Streibel, Louis, and C. W. Williams, assignors to Century Stopper Company, New York, N. Y. Bottle-filling machine.	698,871	Apr. 29	4732	1043	99	1072
Strecker, Otto C., Darmstadt, Germany. Preparing lithographic-printing plates.	708,096	June 24	3356	790	99	2852
Strecker, Otto C., Cologne, Germany. Electrolitically preparing metals and alloys for lithographic purposes.	716,306	Dec. 16	3208	702	101	2537
Streed, Eric W., Minneapolis, Minn. Bevel-square.	715,897	Dec. 16	2405	532	101	2369
Streepy, Milton E., Altoona, Pa. Rail-joint.	716,307	Dec. 16	3211	702	101	2537
Street, Albert F., Rockville, Conn. Apparatus for moving trees.	717,134	Oct. 30	4935	1070	101	2942
Street, Clement F., Cleveland, Ohio. Twin-spring draft-rigging for railway-cars.	712,977	Nov. 4	964	225	101	1094
Street, Clement F., Cleveland, Ohio. Twin-spring draft-rigging for railway-cars.	716,782	Dec. 23	4149	909	101	2750
Street, Clement F., assignor to Dayton Malleable Iron Company, Dayton, Ohio. Draft-gear.	714,058	Nov. 18	3099	684	101	1570
Street, Clement F., assignor to Dayton Malleable Iron Company, Dayton, Ohio. Draft-gear.				685		
Street, Ernest A. G., Paris, assignor to Société Anonyme le Carbone, Levallois-Perret, near Paris, France. Electric battery.	714,059	Nov. 18	3101	685	101	1570
Street, George E. J., Kingston, England. Illuminating compound.	707,731	Aug. 26	3331	746	100	1853
Street, James A. (See Garrett, William T., assignor.)	695,123	Mar. 11	1517	456	98	2048
Streeter, Alfred L., Chicago, Ill. Brake-shoe.	695,248	Mar. 11	1740	885	98	2096
Streeter, Alfred L., Chicago, Ill. Brake-shoe.	695,419	Mar. 11	2029	456	98	2156



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Streeter, Alfred L., Chicago, Ill. Brake-shoe .....	702,800	June 17	2944	678	99	2752
Streeter, Herbert A., Chicago, Ill. Metallic window frame and sash .....	714,254	Nov. 25	3499	679	101	1671
Streetman, William, Cleburne, Tex. Casting dental plates .....	700,835	May 27	3419	770	99	1930
Strehlenert, Robert W., Stockholm, Sweden. Apparatus for spinning artificial-silk filaments for forming strands or threads .....	702,103	June 10	1585	785	99	2454
Strehlenert, Robert W., Djursholm, Sweden. Spinning or twisting artificial fibrous material .....	716,138	Dec. 16	2887	635	101	2471
Strehli, John W., Cincinnati, Ohio. Producing molded articles from fibrous material .....	717,050	Dec. 30	4780	122	101	2909
Strehli, Joseph H., Cincinnati, Ohio. Smoke-consuming device .....	690,671	Jan. 7	582	122	98	134
Streich, Frank, Chicago, Ill. Woodworking implement .....	715,173	Dec. 2	1000	216	101	2041
Streich, Frank, and C. L. Ruehs, assignors to S. Karpen and Bros., Chicago, Ill. Automatic carving-machine .....	696,382	Mar. 25	3006	867	98	2571
Streit, Charles F., Cincinnati, Ohio. Combined dresser and bed .....	693,456	Feb. 18	2348	514	98	1328
Stretch, Joseph, and J. E. Crossley, East Orange, N. J. Faucet .....	715,622	Dec. 9	1837	408	101	2228
Stretch, Joseph, and J. E. Crossley, East Orange, N. J. Faucet .....	715,623	Dec. 9	1837	408	101	2228
Stricker, Paul. (See Bruen and Stricker.) .....						
Strickland, Edwin S., Boundbrook, N. J. Motor-cycle .....	692,942	Feb. 11	1336	291	98	1101
Strickler, Alvin S. and W. H. Keokuk, Iowa. Carpet-rack .....	693,457	Feb. 18	2350	514	98	1329
Strickler, Alvin S. and W. H. Keokuk, Iowa. Carpet-rack .....	693,458	Feb. 18	2351	515	98	1329
Strickler, Levi, and C. H. Fisk, Richmond, Ind. Window-curtain fixture .....	710,377	Sept. 30	4590	103	100	2088
Strickler, William H. (See Strickler, Alvin S. and W. H.) .....						
String, Benjamin T., assignor to C. R. Mullen, Philadelphia, Pa. Button-sewing machine .....	706,124	Aug. 5	222	47	100	1162
Strippy, William H. (See Bruen and Stricker.) .....						
Strittmatter, Boniface, Carroll Township, Pa. Automatic cut-off for mill-power .....	694,803	Mar. 4	900	200	98	1902
Strobel & Brown. (See Brown, Henry W., assignor.) .....						
Strobel & Sons, Philip. (See Doublat, Charles, assignor.) .....						
Stroh, George, assignor of one-half to G. Osius, Detroit, Mich. Ammonia-still .....	710,221	Sept. 30	4325	1972	100	2094
Stroh, Henry P., and J. Hutchison, Sanborn, N. D. Stone-puller .....	691,081	Jan. 11	1341	303	98	294
Strohm Elevator Safety Device Company. (See Strohm, Samuel D., assignor.) .....						
Strohm, Samuel D., assignor to Strohm Elevator Safety Device Company, Philadelphia, Pa. Safety device for elevators .....	705,479	July 22	4123	897	100	884
Strohm, Samuel D., assignor to Strohm Elevator Safety Device Company, Philadelphia, Pa. Safety device for elevators .....	705,480	July 22	4128	898	100	885
Ström, Albert. (See Ström, Gustave A. and A.) .....						
Strom, Axel A., Austin, assignor to Strom Manufacturing Company, Chicago, Ill. Railway-rail joint .....	696,658	Apr. 1	494	114	99	107
Strom, Axel A., assignor to Strom Manufacturing Company, Chicago, Ill. Structural-metal beam .....	708,936	Sept. 9	1731	400	100	2340
Strom, Axel A., assignor to Strom Manufacturing Company, Chicago, Ill. Switch-stand .....	709,614	Sept. 23	3131	697	100	2671
Strom, Axel A., assignor to Strom Manufacturing Company, Chicago, Ill. Railway-switch .....	711,363	Oct. 14	1863	406	101	403
Strom, Eugene N., assignor to Strom Manufacturing Company, Chicago, Ill. Switch-stand .....	714,060	Nov. 18	3102	685	101	1371
Ström, Gustave A. and A., Paris, France. Waterproof coat .....	702,256	June 10	1744	394	99	2484
Strom Manufacturing Company. (See Strom, Axel A., assignor.) .....						
Strom Manufacturing Company. (See Strom, Eugene N., assignor.) .....						
Stromberg, Alfred, assignor to Stromberg-Carlson Telephone Manufacturing Company, Chicago, Ill. Electromagnet .....	715,434	Dec. 9	1486	321	101	2159
Stromberg-Carlson Telephone Manufacturing Company. (See Davis, William M., assignor.) .....						
Stromberg-Carlson Telephone Manufacturing Company. (See Hoglund and Hedman, assignors.) .....						
Stromberg-Carlson Telephone Manufacturing Company. (See Meyer, William, assignor.) .....						
Stromberg-Carlson Telephone Manufacturing Company. (See Reeves, Harry M., assignor.) .....						
Stromberg-Carlson Telephone Manufacturing Company. (See Stromberg, Alfred, assignor.) .....						
Stromberg-Carlson Telephone Manufacturing Company. (See Webster, Harry G., assignor.) .....						
Stromberg, John, Phoenix, Ariz. Ter. Micrometer-gage .....	694,804	Mar. 4	901	200	98	1902
Stromborg, Fritz O., Pittsburg, Pa. Feed-table for sheet-rolls .....	695,249	Mar. 11	1742	385	98	2096
Stromborg, Fritz O., Braddock, Pa. Apparatus for rolling sheet metal .....	703,620	July 1	487	101	100	86
Stromdahl, Andrew, Manchester, N. H. Automatic hammer .....	694,898	Mar. 4	1077	288	98	1939
Strome, Benjamin, Gourick, Canada. Road-grader .....	698,581	Apr. 29	4069	898	99	924
Strömquist, Hjalmar E., Everett, Mass. Curtain-pole .....	696,279	Mar. 25	3666	820	98	2523
Stromsem, Fred, et al. (See Stromsem, Peter M., assignor.) .....						
Stromsem, Peter M., assignor of two-thirds to F. Stromsem and O. Bjerkman, Chicago, Ill. Skate-runner .....	710,537	Oct. 7	277	61	101	56
Strong, George, Plainwell, Mich. Automatic cut-off governor .....	690,771	May 13	1329	288	99	1442
Strong, Robert H., assignor of two-thirds to W. O. R. Bradley and J. P. McCaffery, Galesburg, Ill. Machine for affixing postage-stamps or labels upon envelopes, cards, &c. .....	708,423	Sept. 2	760	171	100	2135
Strong, Robert H., assignor of two-thirds to W. O. R. Bradley and J. P. McCaffery, Galesburg, Ill. Stamp-affixing machine .....	708,424	Sept. 2	762	171	100	2135
Strong, William E. S., Hartford, Conn., assignor to Winkley Company. Oil-cup .....	697,109	Apr. 8	1376	305	99	312
Strong, William E. S., Hartford, Conn., assignor to Winkley Company. Oil-cup .....	697,110	Apr. 8	1378	305	99	313
Strong, William J., Brooklyn, N. Y. Valve mechanism for coin-controlled gas-vending machines .....	704,950	July 15	3011	646	100	646
Strope, Ben B., assignor to Standard Advertising Co., Coshocton, Ohio. Drinking-cup .....	692,802	Feb. 4	1045	647	98	1009
Strother, John C., et al. (See Jones, Alva D., assignor.) .....						
Strothman, Edward E., West Superior, Wis. Propeller-wheel .....	698,582	Apr. 29	4071	900	99	924
Stroud, William. (See Barr and Stroud.) .....						
Stroud, William T. (See Rhoades, Cicero, assignor.) .....						
Stroup, Samuel, Lincoln, Nebr. Corn-sheller .....	693,080	Feb. 11	1591	347	98	1153
Strout, Joseph M., Portland, Me. Measuring-cup .....	703,097	June 24	3358	771	99	2852
Strub, Albert, Beaverfalls, Pa. Locking device for glass-molds .....	692,038	Jan. 28	3156	713	98	705
Strube, Christian, Trenton, N. J. Horseshoe .....	700,130	May 12	2011	469	99	1599
Strubler, Charles G., Elk River, Ind. Scale .....	698,480	Jan. 7	2000	40	98	41
Strubler, Charles G., assignor of one-half to G. H. Paine, Detroit, Mich. Scale .....	700,254	May 20	2231	510	99	1668
Strunk, Charles, et al. (See Williams, William H., assignor.) .....						
Struthers, Joshua, assignor to J. F. Crosby, Des Moines, Iowa. Electric-spark generator .....	712,739	Nov. 4	501	118	101	1001

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Strutt, Charles, and O. A. Hockey, London, England. Water-level indicator	695,007	Mar. 11	1292	284 285	98	2002
Stryk, Emmy von. (See Stryk, Jenny von and E. von.)						
Stryk, Jenny von, and E. von. Arras, assignors to L. A. Perschke, St. Petersburg, Russia. Device for cleaning and disinfecting the seats in toilet-rooms	604,119	Feb. 25	3632	802	98	1608
Stuart, Charles, Paterson, N. J. Intensifying the luster of silk fiber	705,715	July 29	4640	1007	100	1000
Stuart, Charles, Paterson, N. J. Machine for lustering silk	705,716	July 29	4650	1007 1008	100	1000
Stuart, Charles, Paterson, N. J. Intensifying the luster of silk	709,524	Sept. 23	2987	665	100	2648
Stuart, Edwin T., Ottawa, assignor of one-half to J. Q. Bldgett, Laharpe, Kans. Vermin-destroying nest-egg	695,892	Mar. 18	2897	657	98	2352
Stuart, Harve R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch for electric circuits	713,712	Nov. 18	2419	540	101	1426
Stuart, Harve R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Controller for electric motors	717,051	Dec. 30	4782	1036	101	2909
Stuart, Henry C., et al. (See Morrell, James A., assignor.)						
Stuart, James A., Quincy, and B. F. Upham, Boston, Mass. Powder-distributor	697,374	Apr. 8	1822	409	99	407
Stuart, Joseph, assignor to Lobdell Car Wheel Company, Wilmington, Del. Molding-machine	701,772	June 3	380	195 196	99	2292
Stuart, Kenneth E., Philadelphia, Pa. Pneumatic-despatch system	713,924	Nov. 18	2829	628 629	101	1512
Stuart, Margaret H. (See Farber, Charles M., assignor.)						
Stuart, William Z., Woolson, Iowa. Rotary engine	712,105	Oct. 28	3311	726 727	101	734
Stubblebine, William, Bethlehem, Pa. Furnace	698,336	Apr. 23	3634	802 804	99	818
Stubbs, Clarence E., Baltimore, Md. Hat-pin retainer	711,364	Oct. 14	1864	407	101	403
Stubbs, James C., Mount Pleasant, Iowa. Wheeled scraper	703,098	June 24	3359	771	99	2852
Stubbs, James C., assignor to W. Beckwith, Mount Pleasant, Iowa. Wheeled scraper	711,365	Oct. 14	1866	407	101	404
Stubbs, Reuben, Winsford, England. Water-heating apparatus	701,773	June 3	381	196	99	2293
Stubbs, William E., Chester, Pa. Puzzle device	694,038	Feb. 25	3498	770	98	1580
Stucker, John M., Lawrence, Kans. Making fence fabrics	698,337	Apr. 22	3636	804	99	819
Stuckwisch, Rudolph, Indianapolis, Ind. Planter	695,008	Mar. 11	1293	285	98	2003
Stucky, Thomas E., Indianapolis, Ind. Adjustable trolley-supporter	698,076	Apr. 22	3441	691	99	716
Stucky, Thomas E., and E. Hill, Indianapolis, Ind. Adjustable trolley-supporter	698,197	Apr. 22	3407	750	99	771
Studer, Peter, and P. Rupp, Whitehouse, Ohio. Rotary engine	708,037	Sept. 9	1732	401	100	2349
Studer, Simon J., Warrington, England. Straight fullway valve	695,963	Mar. 25	3028	686	98	2391
Studley, John T., Bangor, assignor to A. Dunhill, London, England. Appliance for treating horses' legs with water	701,521	June 3	424	97	99	2195
Studnicka, Albert J., Minneapolis, Minn. Drill-chuck	709,061	Sept. 16	2913	459	100	2423
Stuhlman, Isaac, Chicago, Ill. Guide for sewing-machines	699,772	May 13	1241	288	99	1442
Stuhlman, Isaac, Chicago, Ill. Multiple divider	716,494	Dec. 23	3354	785	101	2633
Stukes, John M., San Antonio, Tex. Packing compound for eggs, &c	691,413	Jan. 21	1995		98	450
Stukes, John M., San Antonio, Tex. Packing compound for eggs	690,258	May 6	240		99	1223
Stukes, John M., San Antonio, Tex. Preserving and storing building	706,125	Aug. 5	525	17, 48	100	1163
Stukes, John M., Snyder, assignor to J. S. Winfield, Gatesville, Tex. Egg-preserving compound	694,899	Mar. 4	1082		98	1941
Stull, Emmett W. (See Garrett and Stull.)						
Stull, Emmett W. (See Merrick and Stull.)						
Stull, Emmett W., Johnstown, assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Controller for electric motors	709,182	Sept. 16	2259	514	100	2475
Stump, Abraham L., and F. Brucker, assignors to Shelby Spring Hinge Company, Shelby, Ohio. Spring-hinge	695,124	Mar. 11	1517	336	98	2048
Stump, Ira E., assignor of one-half to E. N. Foote, Cleveland, Ohio. Ratchet-screw-driver	699,773	May 13	1243	289	99	1442
Stumpf, Emil, assignor to H. Meyers, Waterloo, Iowa. Shrine for caskets	713,713	Nov. 18	2421	541	101	1426
Stumpf, John, Berlin, Germany. Compressor	706,276	Aug. 5	554	129	100	1227
Stumpf, Leo, Covina, assignor to W. W. Sweeney Co., Los Angeles, Cal. Stump-socket for artificial limbs	692,808	Feb. 4	1046	235	98	1010
Stumph, Leroy E. (See Thomas and Stumph.)						
Stupakoff, Simon H., Pittsburg, Pa. Applying patterns in exact relative positions on draw-plates or upon the tables of molding-machines	716,957	Dec. 30	4608	997	101	2871
Stupakoff, Simon H., Pittsburg, Pa. Inserting or withdrawing patterns	716,958	Dec. 30	4605	997	101	2871
Stupar, Frederick. (See Stupar, Joseph and F.)						
Stupar, Joseph and F., Chicago, Ill. Switch-operating device	709,183	Sept. 16	2264	514 515	100	2476
Stuparich, Paul J., San Francisco, Cal. Device for the manufacture of photographic card-mounts	708,675	Sept. 9	1212	276	100	2238
Sturgeon, John C. and R. A., Erie, Pa. Dumping-car	690,625	Jan. 7	494	107 108	98	106
Sturgeon, Ralph A. (See Sturgeon, John C. and R. A.)						
Sturges, James D., Chicago, Ill. Cock for gas-fixtures	691,502	Jan. 21	2154	483	98	484
Sturges, James D., Buffalo, Minn. Coy. for gas-holder	709,937	Sept. 30	3768	851	100	2814
Sturges, Francis M., assignor of one-half to W. D. Roberts, Shelbyville, Ill. End-gate hanger for wagons	715,174	Dec. 2	1001	217	101	2041
Sturgis, Herbert M., Kansas City, Mo., assignor to Sturgis Manufacturing Company. Detachable coupling	696,513	Apr. 1	208	50	99	49
Sturgis, Herbert M., Kansas City, Mo., assignor to Sturgis Manufacturing Company. Heating apparatus	696,514	Apr. 1	209	50	99	49
Sturgis Manufacturing Company. (See Sturgis, Herbert M., assignor.)						
Sturgis, Nelson H., Guthrie, Okla. Ter. Suspension-bridge	691,982	Jan. 28	3053	686	98	686
Sturgiss, Wilbur R., Conway, Ark. Clamp-buckle or fastener for bale-ties or the like	707,034	Aug. 12	1969	441	100	1535
Stürler, Adriaan L. de, Overveen, near Haarlem, Netherlands. Preserving fruits, &c	694,301	Feb. 25	3970		98	1676
Sturm, Henri, Paris, France. Furnace	695,084	Mar. 11	1432	315 316	98	2032
Sturmeijer, John J. H., Coventry, England. Hinge-joint	703,499	July 1	216	51	100	45
Sturtevant, Charles A., Plainfield, N. J., assignor to Welvant Manufacturing Company, New York, N. Y. Paper-feeding machine	694,039	Feb. 25	3499	771 772	98	1580
Sturtevant, Joseph L. (See Carver and Sturtevant.)						
Sturtevant, Thomas J. (See Sturtevant, Thomas L. and T. J.)						
Sturtevant, Thomas L., Quincy, Mass. Display-box	716,139	Dec. 16	2888	635	101	2471
Sturtevant, Thomas L., Quincy, and T. J. Sturtevant, Newton Center, Mass. Crushing-machine	690,534	Jan. 7	320	64	98	69
Stutt, Frederick W. and W. A. E., Denver, Colo. Eraser-cleaner	715,705	Dec. 9	1991	446	101	2260
Stutt, William A. E. (See Stutt, Frederick W. and W. A. E.)						
Stutz, Ernest, Brooklyn, N. Y. Can for freezing water	699,856	May 13	1420	327	99	1480



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Stutz, Eugene E., Middlebury, Ind. Thresher-tank	691,920	Jan. 28	2934	661	98	682
Stutz, Frederick, assignor of one-half to F. R. Gillinder, Philadelphia, Pa. Bottle-stopper	701,101	May 27	3858	887	99	2921
Stutzman, Otto, Fort Adams, Miss. Ball-bearing box	691,202	Jan. 14	1554	352	98	339
Stutzman, John H. G., Brooklyn, assignor of one-half to H. A. and J. Groen, New York, N. Y. Diamond-cutting machine	692,380	Feb. 4	284	60, 70	98	858
Stuurnman, John H. G., Brooklyn, assignor of one-half to H. A. and J. Groen, New York, N. Y. Cutting diamonds	694,215	Feb. 25	3816	844	98	1643
Stuver, Samuel L., Johnstown, Pa. Stair-rod and fastener	711,136	Oct. 14	1408	304	101	307
Sub Marine Mining Company. (See Craig, Lee D., assignor.)						
Submerged Electric Motor Company. (See Hatch, Tracy B., assignor.)						
Such, Benjamin J., Washington, D. C. Roller for printing decorative designs	714,965	Dec. 2	642	135	101	1064
Suchorzynski, Anton von, and M. Kohl, Breslau, Germany. Artificial ear-drum	693,556	Feb. 4	507	140	98	920
Suchy, Joseph, Littleheart, N. D. Gear transmission	703,318	June 24	3737	861	99	2928
Suder, Henry, Chicago, Ill. Combination apparatus for heavy gymnastics	694,442	Mar. 4	201	44	98	1755
Sudre, Charles G., et al. (See Thierry, Jean M. J., assignor.)						
Sudre, Charles G., and C. V. Thierry, Paris, France. Apparatus for the treatment of distillers' spent residues	712,343	Oct. 28	3729	815	101	819
Sue, Henry, Paris, France. Apparatus for charging liquids with carbonic-acid gas	695,125	Mar. 11	1520	337	98	2440
Sues, Otto L., Sioux Falls, S. D. Cuspidor	691,414	Jan. 21	1995	447	98	450
Sugden, Thomas. (See Hatch and Sugden.)						
Sullenbarger, Wayne A. (See Worley and Sullenbarger.)						
Sullivan, Albert P., and E. S. Bacon, Detroit, Mich.; said Bacon assignor to said Sullivan. Warehouse-truck	699,034	Apr. 29	5007	1108	99	1128
Sullivan, Albert W., and W. Renshaw, Chicago, Ill. Pneumatically-actuated car-door	710,783	Dec. 23	4149	909	101	2750
Sullivan, Cornelius F., Boston, Mass., assignor, by mesne assignments, to Thayer Door Check and Spring Co. Door-check	714,255	Nov. 25	3501	770	101	1672
Sullivan, Cornelius F., Boston, Mass., assignor, by mesne assignments, to Thayer Door Check and Spring Co. Door closer, check, and holder	715,175	Dec. 2	1002	217	101	2041
Sullivan, Daniel, assignor to C. F. Kelly and H. Murmann, St. Louis, Mo. Coin-controlled dispensing device	712,740	Nov. 4	503	119	101	1002
Sullivan, Daniel F., Lowell, assignor of one-half to M. J. Sullivan, Randolph, Mass. Knitting-machine	703,973	July 1	1112	240	100	220
Sullivan, David M., assignor of one-half to C. Cone, Greensboro, N. C. Creel for sel- vage-spools on slashers	709,833	Sept. 23	3542	798	100	2756
Sullivan, Denis J., Mannington, W. Va. Nut-lock	697,290	Apr. 8	1695	379	99	381
Sullivan, James, New York, N. Y. Machine for cutting patterns	691,203	Jan. 14	1555	352	98	339
Sullivan, James, New York, N. Y. Antrattler for awning-fixtures	704,397	July 8	1924	417	100	405
Sullivan, James, New York, N. Y. Horse-apron	713,528	Nov. 11	2078	465	101	1340
Sullivan, James, New York, N. Y. Device for removing snow	716,784	Dec. 23	4183	911	101	2751
Sullivan, James E. (See Moore, Winfield S., assignor.)						
Sullivan, James F., assignor of one-half to J. Richardson, Philadelphia, Pa. File	699,591	May 6	681	204	99	1357
Sullivan, John. (See Bissell and Sullivan.)						
Sullivan, John L., North Carrollton, Miss. Plowshare	700,255	May 20	2232	510	99	1668
Sullivan, Joseph H. (See Sanker and Sullivan.)						
Sullivan, Lucy J., Boston, Mass. Magnetic toy	710,627	Oct. 7	448	93	101	90
Sullivan Machinery Co. (See Officer, Thomas, assignor.)						
Sullivan Machinery Company. (See Holdsworth, Fred D., assignor.)						
Sullivan, Michael E., New Bedford, Mass., assignor to Draper Company, Portland, Me., and Hopdale, Mass. Spinning-ring	714,966	Dec. 2	643	135	101	1064
Sullivan, Michael J. (See Sullivan, Daniel F., assignor.)						
Sullivan, Michael J. (See Walsh, Laurence J., assignor.)						
Sullivan, Michael J., Springfield, Ohio. Gas-engine ignition-regulator	705,881	July 29	4936	1073	100	1459
Sullivan, Samuel C., Erie, Pa. Means for cooling milk-cans	697,111	Apr. 8	1379	306	99	313
Sullivan, William, St. Louis, Mo. Car-fender	699,986	Jan. 13	1670	383	99	1582
Sullivan, William H., assignor of forty-nine one-hundredths to O. C. and G. T. Reitze and C. B. Richmond, Denver, Colo. Concentrator	696,913	Apr. 1	1001	223	99	211
Sullivan, William T., Cincinnati, Ohio. Artist's sketch-book	703,540	July 1	218	51	100	45
Sulman, Henry L., and H. F. Kirkpatrick-Picard, London, England. Treatment of ore-slims	708,504	Sept. 2	910	206	100	2166
Sulphides Reduction, (New Process.) (See Eilershausen, Francis, assignor.)						
Sulphur Elimination Syndicate. (See Gutsenohr, Adolph, assignor.)						
Sulzer, George W. (See Soper, William A., assignor.)						
Sulzbach & Co., H. (See Wieser, Daniel, assignor.)						
Sulzbacher, Jerome, New York, N. Y. Garment-supporter	707,876	Aug. 26	3655	823	100	1915
Sulzbacher, Jerome, New York, N. Y. Clasp-or buckle	707,877	Aug. 26	3658	823	100	1916
Sulzer, Gebrüder. (See Sulzer, Heinrich, assignor.)						
Sulzer, Heinrich, assignor to Gebrüder Sulzer, Winterthur, Switzerland. Centrifugal pump	704,144	July 8	1471	315	100	309
Suman, Harry P., Baltimore, Md., assignor to F. L. Ellingwood, New York, N. Y., and C. W. Schumann, Jr., Orange, N. J. Safety appliance	699,035	Apr. 29	5008	1108	99	1128
Sumlin, George S., and W. D. Williamson, N. C. Railway-gate	691,823	Jan. 28	2775	624	98	629
Sumlin, William D. (See Sumlin, George S. and W. D.)						
Summerville, John C., and J. Craig, Glenville, Ohio. Post-cap	710,538	Oct. 7	278	61, 62	101	56
Summerfield, Isidor, et al. (See Tyzak, Henry F., assignor.)						
Summers, Bertrand S., Chicago, Ill. Retting vegetable fibers	696,515	Apr. 1	211	.....	99	49
Summers, Edwin C., Guymon, Okla. Terr. Neck-yoke center	701,415	June 3	235	53	99	2155
Summers, John T., assignor of one-half to G. C. Meakin, Laurehill, N. Y. Work-support	693,673	Feb. 18	2771	610	98	1415
Summers, Samuel L., Philadelphia, Pa. Bismuth oxydoid methylene digallate and making same	690,672	Jan. 7	583	.....	98	124
Summers, Samuel L., Philadelphia, Pa. Making methylene digallate of bismuth oxydoids	690,673	Jan. 7	584	.....	98	124
Summers, Samuel L., Philadelphia, Pa. Methylene disalicylic acid and making same	708,354	Aug. 5	701	.....	100	1258
Summers, Samuel L., Philadelphia, Pa. Acet salicyl phenetidin and making same	706,355	Aug. 5	702	.....	100	1258
Summers, Samuel L., Philadelphia, Pa. Acet salicyl phenetidin and making same	706,356	Aug. 5	703	.....	100	1258
Summers, Samuel L., Philadelphia, Pa. Methylene-di-aceto-di-salicylic acid and making same	707,178	Aug. 19	2257	.....	100	1013
Summers, Samuel L., Philadelphia, Pa. Camphoric-acid ester of methylene diguaiaicol and making same	707,278	Aug. 19	2449	.....	100	1654
Summers, Samuel L., Philadelphia, Pa. Alkali salts of methylene disalicylic acid and making same	710,591	Dec. 23	3809	.....	101	2679
Summers, Samuel L., Philadelphia, Pa. Alkaline-earth salts of methylene disalicylic acid and making same	716,592	Dec. 23	3810	.....	101	2679
Summers, Samuel L., Philadelphia, Pa. Metallic salts of methylene disalicylic acid and making same	716,593	Dec. 23	3811	.....	101	2679

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Summerton, Thomas, Christchurch, New Zealand. Apparatus for operating Venetian blinds.....	708,425	Sept. 2	765	172	100	2186
Sumner, Dorance, Pleasant Township, Wapello county, Iowa. Seed-sowing machine.....	697,900	Apr. 15	2811	621	99	629
Sumner & Goodwin Company. (See Curtis, Nelson, assignor.)						
Sumner, Harry W., assignor to Lunkenheimer Company, Cincinnati, Ohio. Power-transmitting mechanism.....	694,692	Mar. 4	684	149	98	1856
Sumner, William J., assignor of one-half to A. A. Coburn, Holyoke, Mass. Caster.....	706,209	Aug. 5	397	85	100	1198
Sumner, William J., Holyoke, assignor to Coburn Trolley Track Manufacturing Company, Williamansett, Mass. Overhead-trolley track.....	712,344	Oct. 28	3732	816	101	820
Sumrall, Jessie D. (See Wells and Sumrall.)						
Sun Electric Manufacturing Company. (See Miner, Willard M., assignor.)						
Sund, O. J. (See Johnson and Jacobson, assignors.)						
Sundean, John M., Lincoln, Nebr. Superheater.....	706,357	Aug. 5	704	153	100	1258
Sunderland, John S., London, England. Apparatus actuated by clock-movements for starting or stopping machinery.....	702,682	June 17	2557	587	99	2672
Sunderland, Wilfred W. (See Grimes, Sunderland, and Eilerman.)						
Sundgren, Carl A., Chicago, Ill. Shoe-brushing machine.....	710,628	Oct. 7	449	93	101	90
Sundh, August. (See Baldwin and Sundh.)						
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Controlling apparatus for elevators or hoists.....	601,824	Jan. 28	2776	625	98	629
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Electropneumatic control system for elevators.....	693,184	Feb. 11	1827	398	98	1198
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Safety device.....	704,398	July 8	1925	417	100	405
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Electric controlling apparatus for elevators.....	706,126	Aug. 5	226	48	100	1163
Sundt, August, assignor to Electrite Company, New York, N. Y. Snap-switch.....	692,217	Jan. 28	3455	788	98	773
Sundt, August, Yonkers, assignor to Electrite Company, New York, N. Y. Fluid-pressure electric-switch-controlling apparatus.....	706,478	Aug. 5	954	208	100	1308
Sundt, Oscar, assignor to Garrett Cromwell Engineering Company, Cleveland, Ohio. Charging-buggy.....	694,332	Feb. 25	4095	911	98	1693
Sundt, Oscar, assignor to Garrett-Cromwell Engineering Company, Cleveland, Ohio. Leading-spindle.....	697,291	Apr. 8	1696	379	99	381
Sundt, Oscar, assignor to Garrett-Cromwell Engineering Company, Cleveland, Ohio. Rotary shears.....	713,361	Nov. 11	1750	394	101	1273
Sundt, Oscar, assignor to Garrett-Cromwell Engineering Company, Cleveland, Ohio. Power-driven roller-table.....	714,758	Dec. 2	213	42	101	1880
Sunlight Gas Machine Company. (See Scofield, William E., assignor.)						
Sunshine Water Heater Co. (See Baker, Milton M., assignor.)						
Superior Drill Company. (See Packham and Oates, assignors.)						
Superior Drill Company. (See Patrice, Charles E., assignor.)						
Suppes, Maximilian M., and R. Crooker, Jr., Elyria, Ohio. Heating-furnace.....	696,607	Apr. 1	387	90, 91	99	85
Surbaugh, Joseph T., Arbutckle, Cal. Harness attachment.....	708,676	Sept. 9	1213	277	100	2238
Surtin, John H., assignor of one-half to E. Butler, Jr., St. Louis, Mo. Car-fender.....	690,674	Jan. 7	585	127	98	125
Susemihl, Francis G., Detroit, Mich. Car-door.....	708,843	Sept. 9	1564	357	100	2313
Susemihl, Francis G., and A. Torrey, Detroit, Mich. Car side bearing.....	701,416	June 3	236	53	99	2156
Susquehanna Silk Mills. (See Klerx, Johann H., assignor.)						
Suskind, Gottfried von, St. Georgen, Switzerland. Hydraulic press for thick fluid substances.....	708,180	Sept. 2	340	80, 81	100	2051
Sussmilch, William A., Rockford, Ill. Palette.....	716,140	Dec. 16	2889	635	101	2471
Susstrong, Carl A. (See Smith and Susstrong.)						
Sutcliffe, Edgar R., Leeds, assignor of one-half to F. Speakman, Leigh, England. Dis-integrator.....	705,796	July 29	4785	1038 1039	100	1029
Sutcliffe, Horace H., Philadelphia, Pa. Leno-selvaige motion.....	691,204	Jan. 14	1556	353	98	339
Sutherland, Frank, Westwood, N. J. Adjuster for retaining sheets to be punched for releasing same.....	711,744	Oct. 21	2598	571	101	572
Sutherland, James L., Mayfield, Ky. Car-coupling.....	706,210	Aug. 5	398	85	100	1198
Sutherland, James M. (See Mason, Benjamin W., assignor.)						
Sutherland, James O., et al. (See Hart, Frank, assignor.)						
Sutherland, John. (See Granger, John, assignor.)						
Sutherland, John G., and F. D. Millard, Burlington, Iowa; said Millard assignor to said Sutherland. Means for supplying water to boilers.....	716,308	Dec. 16	3213	702	101	2537
Sutherland, Lucy A., Chicago, Ill. Hook and eye.....	705,159	July 22	3451	751	100	748
Sutherland, Stephen M., trustee. (See Morley, Albert, assignor.)						
Sutherland, Thomas, Hutchinson, Minn. Wire-fabric machine.....	708,679	Sept. 9	1213	278 279 280	100	2238
Sutherland, William S., assignor of one-half to D. G. Elliott, Chelsea, Ind. Ter. Nut-lock.....	697,416	Apr. 8	1935	431	99	430
Sutphin, Simon H. (See Trott and Sutphin.)						
Suttle, Willis A., Austin, Tex. Coupling for connecting handles to tools.....	705,973	July 29	5100	1111	100	1092
Sutton, Benjamin F., Brooklyn, N. Y. Fastening device.....	715,520	Dec. 9	1646	358	101	2190
Sutton, Festus P., Lowell, Ind. Threshing-machine.....	697,563	Apr. 15	2198	489	99	499
Sutton, Henry M., W. L. Steele, and M. Coerver, Dallas, Texas. Electrically-protected structure.....	708,093	Sept. 2	169	39	100	2016
Sutton, Henry M., W. L. and E. G. Steele, Dallas, Tex. Magnetically and statically treating ores.....	714,256	Nov. 25	3502	771	101	1672
Sutton, Henry M., W. L. and E. G. Steele, Dallas, Tex. Dry-ore concentrator.....	714,257	Nov. 25	3507	771 772	101	1672
Sutton, Henry M., W. L. and E. G. Steele, Dallas, Tex. Ore-conveying surface for electro-enerators.....	714,649	Nov. 25	4224	934	101	1816
Sutton, Jesse L., Brimfield, Ill. Draft-quaiizer.....	695,843	Mar. 18	2907	639	98	2332
Sutton, Joseph W. (See Kent and Sutton.)						
Sutton, R. S., et al. (See Cohen, George W., assignor.)						
Sutton, Thomas W., Pittsburg, Pa. Trolley.....	705,882	July 29	4940	1074	100	1059
Sutton, William S., Belvidere, Ill. Fish-reel.....	693,439	Feb. 18	2352	515	98	1329
Svendsgaard, Sverre, Sverre, Minn. Mirror-bracket.....	699,901	May 13	1513	348	99	1502
Swafield, Charles T., Elkhart, Ind. Clamp.....	692,351	Feb. 4	286	70	98	855
Swaggart, George W., et al. (See Dent, Frank W., assignor.)						
Swailes, Harry. (See Hampson, Frank G., assignor.)						
Swailes, Harry. (See Hampson and Swailes.)						
Swan, Alfred, New York, N. Y., assignor to General Electric Company. Sealing-machine.....	715,896	Dec. 16	2407	533	101	2369
Swan, Alfred F., New York, N. Y. Telephone system.....	714,759	Dec. 2	214	42	101	1880
Swan, Andrew, Rhinelander, Wis. Photographic retouching-tool.....	695,099	Mar. 11	1296	286	98	2003
Swan, George W., Toledo, Ohio. Yacht-rudder.....	715,176	Dec. 2	1003	217	101	2041



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Swan, Henry C., Oshkosh, Wis. Ellip e spring.....	702,257	June 10	1745	395	99	2484
Swan, James, Seymour, Conn. Tool-box.....	695,660	Mar. 18	2485	564	98	2267
Swan, James, Topeka, Kans. Journal-bearing.....	708,374	July 1	1114	241	100	221
Swan, John C., Marietta, Ohio. Underreamer.....	717,469	Dec. 30	5563	1208	101	3074
Swan, Leon G., Lawrence, Mass. Suit-hanger.....	714,967	Dec. 2	645	135	101	1965
Swan, Morton G., and E. H. Richardson, North Ontario, said Swan assignor to F. J. Kimball, Los Angeles, Cal. Machine for brushing and cleaning fruit, part of which is applicable to fruit-graders.....	709,562	Sept. 23	3044	678	100	2653
Swan, William G., Detroit, Mich. Draft-rigging for cars.....	704,716	July 15	2500	541	100	538
Swan, Willis A., Providence, R. I. Free-piston explosive-engine.....	692,218	Jan. 28	3488	789	98	778
Swanberg, Arthur W., Rockford, Ill. Horse-hitching device.....	697,039	Apr. 8	1257	790	99	286
Swaney, Fletcher D., Kansas City, Kans., assignor to J. A. Ritzler, Kansas City, Mo. Self-closing fireproof window.....	690,535	Jan. 7	322	65	98	70
Swaney, Fletcher D., assignor of one-half to H. Galer, Kansas City, Kans. Ice-can.....	705,883	July 29	4942	1074	100	1060
Swanitz, Alexander W., assignor to Swanitz Company, Chicago, Ill. Merchandise-transfer apparatus.....	701,961	June 10	1210	275	99	2377
Swanitz, Alexander W., assignor to Swanitz Company, Chicago, Ill. Railway clearing-house.....	701,962	June 10	1212	276	99	2377
Swanitz, Alexander W., assignor to Swanitz Company, Chicago, Ill. Merchandise-transfer apparatus.....	715,435	Dec. 9	1488	332	101	2159
Swanitz, Alexander W., assignor to Swanitz Company, Chicago, Ill. Merchandise-transfer apparatus.....	715,436	Dec. 9	1490	333	101	2159
Swanitz Company. (See Swanitz, Alexander W., assignor.)						
Swank, Lefe. (See Dwiggin and Swank.)						
Swank, Peter L., Conemaugh, Pa. Switch-throwing device.....	693,185	Feb. 11	1837	399	98	1201
Swannell, Joseph D., Bank, N. J. Strip for securing glass panes.....	710,025	Sept. 30	3933	880	100	2851
Swanney, John F., Jersey City, N. J. Bookbinding.....	691,383	Jan. 23	3057	686	98	686
Swanson, Alexander, et al. (See Johnson, Alfred, assignor.)						
Swanson, August C. J. (See Swanson, Ludvig G., assignor.)						
Swanson, Carl L. (See Warner, Thomas S., assignor.)						
Swanson, Charles L., et al. (See Dillon, Lybran J., assignor.)						
Swanson, John, Wadena, Minn. Grass-cutting machine.....	710,222	Sept. 30	4328	973	100	2934
Swanson, John A., Auburn, Kans. Oil-can spout.....	705,160	July 22	3452	751	100	748
Swanson, Ludvig G., assignor of one-half to A. C. J. Swanson, Springfield, Mass. Ventilating apparatus.....	696,914	Apr. 1	1003	223	99	212
Swanson, William A., Dunkirk, N. Y. Bottle.....	714,968	Dec. 2	646	136	101	1965
Swarm, Emery E., Calamus, assignor to Swarm Fence Builder Tool Company, Davenport, Iowa. Wire-stretcher.....	707,732	Aug. 26	3331	746	100	1853
Swarm Fence Builder Tool Company. (See Swarm, Emery E., assignor.)						
Swart, Walter G., Denver, Colo., and L. I. Blake, Lawrence, Kans. Apparatus for separating conductors from non-conductors.....	701,417	June 3	238	53	99	2156
Swarthout, George H., assignor of one-half to M. L. Smith, Placerville, Cal. Pipe-wrench.....	702,079	June 10	1452	326	99	2424
Swartz, Edward G. (See Ashcraft and Lubbes, assignors.)						
Swartz, Hiram B., Wooster, Ohio. Self-heating sad-iron.....	698,757	Apr. 29	4477	990	99	1013
Sweder, August M., Marquette, Mich. Reversing friction clutch.....	706,277	Aug. 5	556	121	100	1238
Sweder, August M., Marquette, Mich. Reversing clutch.....	706,479	Aug. 5	957	209	100	1309
Swedish-American Telephone Company. (See Overshiner, Elsworth B., assignor.)						
Sweeney, Edward J., et al. (See Martin, William, assignor.)						
Sweeney, Henry G., Chicago, Ill. Coin-controlled apparatus.....	694,603	Mar. 4	686	149	98	1856
Sweeney, Henry G., assignor to F. G. Kammerer, Chicago, Ill. Coin-controlled device.....	703,621	July 1	440	102	100	86
Sweeney, Henry G., assignor to F. G. Kammerer, Chicago, Ill. Glass-rinsing device.....	708,844	Sept. 9	1567	358	100	2314
Sweeney, James P. and T. W., assignors of one-third to W. N. Wylie, Tarentum, Pa. Window-shade and curtain-pole-bracket.....	708,505	Sept. 2	912	207	100	2166
Sweeney, Patrick J., Elizabeth, N. J. Water-tube steam-boiler.....	714,580	Nov. 25	4007	887	101	1772
Sweeney, Patrick J., Elizabeth, N. J. Rivet-calking tool.....	715,624	Dec. 9	1839	408	101	2229
Sweeney, Samuel, San Francisco, Cal. Refrigerator, freezer, and churn.....	704,768	July 15	2802	563	100	558
Sweeney, Thomas W. (See Sweeney, James P. and T. W.)						
Sweeney, William E., Brockton, assignor to W. E. Ellis, Haverhill, Mass. Upper-fastener for boots or shoes.....	715,316	Dec. 9	1275	272	101	2117
Sweet, Alonzo L., Norwich, Conn. Machine for finishing knife-blades.....	693,756	Feb. 18	2912	641	98	1444
Sweet, Benjamin W., Denver, Colo., assignor to J. P. Underwood, Chicago, Ill. Gold-separating machine.....	690,791	Jan. 7	820	181	98	173
Sweet, Frank B., Lawrence, Kans. Cast-off for suspenders.....	716,141	Dec. 16	2890	635	101	2472
Sweet, Fred D., Pittsburg, Pa., assignor, by mesne assignments, to Stirling Company, Jersey City, N. J. Mandrel for pressing hollow or tubular wrought-metal articles.....	693,186	Feb. 11	1839	399	98	1201
Sweet, Fred S., et al. (See Howard, Edward J., assignor.)						
Sweet, Frederick D., Elyria, Ohio. Explosive-engine.....	690,481	Jan. 7	203	41	98	44
Sweet, George C., assignor to Norwich Nickel & Brass Company, Norwich, Conn. Display-stand for foot-gear.....	694,694	Mar. 4	680	150	98	1857
Sweet, John E., Syracuse, N. Y. Ingot-mold.....	707,279	Aug. 19	2450	550	100	1654
Sweet, John M., assignor of one-half to F. Richardson, Batavia, N. Y. Rubber tire for vehicle-wheels.....	696,771	Apr. 1	719	163	99	154
Sweet, Lartine C., Loami, Ill. Furrow opening and covering attachment for seed-drills.....	710,378	Sept. 30	4592	1036	100	2989
Sweet, Oliver C., Watertown, N. Y. Molding-board.....	698,077	Apr. 22	3144	692	99	717
Sweetland, Leroy B., Huntington, Ind. Mail-bag crane.....	701,774	June 3	882	197	99	2293
Sweetman, Michael M., Kansas City, Mo. Churn.....	700,385	May 20	2504	574	99	1721
Sweetser, William J., assignor to Steel Cable Engineering Company, Boston, Mass. Driving mechanism for conveyors.....	711,913	Oct. 21	2936	646	101	642
Sweigard, William J. (See Whealan and Sweigard.)						
Swenson, James E. (See McLaughlin and Swenson.)						
Swenson, John A., San Francisco, Cal. Mining-dredge.....	692,557	Feb. 4	598	140	98	920
Swenson, Magnus, Chicago, Ill., assignor to American Cotton Company, New York, N. Y. Core-driver for round-lap bales.....	699,723	May 13	1141	267	99	1422
Swenson, Magnus, Chicago, Ill., assignor, by mesne assignments, to Central Trust Company, trustee, New York, N. Y. Fire-extinguishing attachment for cotton-gin plants.....	715,219	Dec. 2	1085	233	101	2059
Swenson, Ole S., Cresco, Iowa. Valve mechanism.....	710,905	Oct. 7	950	210	101	194
Swenson, Paul, Minneapolis, Minn. Friction-clutch for traction-engines.....	690,536	Jan. 7	324	65	98	70
Swenson, Paul, Hopkins, Minn. Band-cutter and feeder.....	702,164	June 10	1598	361	99	2455
Swenson, Eric, Chicago, Ill. Eraser.....	699,934	May 13	1570	361	99	1512
Swenson, John D., St. Petersburg, Russia, assignor to E. H. Power, London, England. Apparatus for spraying liquid fuel.....	711,267	Oct. 14	1675	380	101	362
Swett, William E., et al. (See Wilcox, Joseph R., assignor.)						
Swett, William E., San Francisco, Cal. Bottle-lock.....	712,444	Oct. 28	3931	860	101	963

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Swezey, Moses C., Westhaven, Conn. Store-service apparatus .....	702,780	June 10	1433	326	99	2425
Swift and Company. See Jarvis, David L., assignor.						
Swift, Edward D., deceased; M. H. Swift, Chicago, Ill., executrix. Machine for the tangential application of reciprocating or other power for operating rotary machinery .....	699,774	May 13	1245	289	99	1443
Swift, Frank E., Washington, Iowa. Brick and kiln furnace .....	695,599	Mar. 18	2339	534 535	98	2242
Swift, Frank E., Washington, Iowa. Continuous kiln .....	703,348	July 1	870	191 192	100	174
Swift, George W., Jr., Bartlettown, N. J. Machine for making textile-covered molds .....	711,595	Oct. 21	2307	594	101	509
Swift, Joseph H., North Attleboro, Mass. Hook for ornamental chains .....	717,470	Dec. 30	3536	1208	101	3764
Swift, Mary H., executrix. See Swift, Edward D.						
Swift, Wilbur L., and E. Burk, New York, N. Y., assignors to Union Special Sewing Machine Company, Chicago, Ill. Folder for sewing-machines .....	703,274	Aug. 5	559	121	100	1328
Swihart, James, New Lebanon, Ohio. Mail-bag-delivering device .....	713,362	Nov. 11	1751	395	101	1273
Swinburne, James, and E. A. Ashcroft, London, England. Extraction of metals from sulfides by treatment with chlorine or sulfur and electrolysis .....	691,822	Jan. 28	2722	624	98	628
Swinburne, James, and E. A. Ashcroft, London, England. Extracting metals from sulfides .....	695,126	Mar. 11	1522	337	98	2449
Swindell, Charles, Sr., Watertown, Tenn. Table attachment for bedsteads .....	713,539	Nov. 11	2079	465	101	1340
Swindell, James D., Pittsburg, Pa. Conveyor for rolling-mills .....	695,181	Mar. 11	1616	378	98	2070
Swindell, James D., Pittsburg, Pa. Puddling-furnace .....	695,182	Mar. 11	1617	358 359	98	2071
Swindell, James H., Pensacola, Fla. Nut-lock .....	703,015	June 24	3198	736	99	2821
Swindell, James H., Pittsburg, Pa. Apparatus for separating packs of metal sheets or strips .....	712,617	Nov. 4	2907	70	101	961
Swindell, William E., Moberly, Mo. Attachment for cutting felles or the like .....	717,179	Aug. 19	2258	505	100	1613
Swindlehurst, Albert, Montreal, Canada. Paper-guide for type-writers .....	691,503	Jan. 21	2155	423	98	484
Swindler, Henry, assignor of one-half to J. Tuckey, Mitchell, S. D. Insecticide-distributor for planters .....	716,142	Dec. 16	2891	636	101	2472
Swinehart, Marion W. See Zent, Benjamin F., assignor.						
Swinglehurst, Harry. See Scott, Williams, and Swinglehurst.						
Swinziey, Charles W. See Allen, John M., assignor.						
Swinnerton, Thomas N., St. Paul, Minn. Decorative artwork and producing same .....	695,010	Mar. 11	1298	286	98	2003
Swinscoe, Charles, Clinton, Mass. Wire fabric for belts or aprons .....	712,212	Oct. 28	3504	768 769	101	771
Swinscoe, Henry K., and E. J. McCarty, Clinton, Mass. Flue-scraper .....	710,344	Sept. 30	4533	1023 1024	100	2078
Swinton, Thomas M., East St. Kilda, Victoria. Combined manger and hay-rack for stables .....	692,382	Feb. 4	287	70	98	559
Swisher, Joseph, Diamond, Ind. Oil-can .....	692,089	Jan. 28	3262	737	98	726
Swisher, Thomas J., V. A. and E. Burger, Kokomo, Ind. Wagon-brake .....	710,345	Sept. 30	4535	100	2079	
Swoboda, August, and H. Rothe, Berlin, Germany. Machine for bending sheet-metal plates .....	691,205	Jan. 14	1357	333	98	340
Swope, Abraham B., Fostoria, Ohio. Combined feed trough and rack .....	693,925	Feb. 25	3252	354 716	98	1330
Sword, Calvin H., Lanark, Ill. Washing-machine .....	713,172	Nov. 11	1346	303	101	1189
Sword, Charles D., assignor to P. C. Sheehan, trustee, Conneautville, Pa. Mechanism for automatic control of refrigeration .....	712,891	Nov. 4	747	173	101	1051
Swords, Byron R., Ottawa, Ill. Nut-lock .....	711,366	Oct. 14	1868	407	101	404
Swoverland, Levi, Waupecong, Ind. Fence-post anchor .....	692,731	Feb. 4	903	206	98	984
Sykes, Payson T. (See Emery, William H., assignor.)						
Symank, Johan H., and R. A. Kitzler, Stamp, Tex. Hay baler and rake .....	697,692	Apr. 15	2441	543 544	99	547
Syme, John H., Chicago, Ill. Pocket-closure .....	702,595	June 17	2227	507	99	2695
Symington, Thomas H., Wilmington, N. C. Journal-box .....	697,040	Apr. 8	1257	250	99	286
Symms, George, Jr., assignor of one-half to M. M. McCluskey, Atlanta, Ga. Hay-curing frame .....	712,978	Nov. 4	965	225	101	1094
Symons, Wilson E., Savannah, Ga. Boltless cast-steel car-truck .....	700,692	May 27	3654	639 940	99	1976
Synck, Henry. (See Oppenheim and Synck.)						
Synnestvedt, Paul, Glenview, Ill. Vehicle-driving mechanism .....	693,574	Feb. 18	2585	571 572	98	1376
Synnestvedt, Paul, Glenview, Ill., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Engineer's brake-valve .....	703,677	July 1	539	126	100	111
Synnott, Thomas W., Wenonah, N. J. Power-transmitting device for match-machines .....	702,683	June 17	2559	587 588	99	2673
Syracuse Faucet and Valve Company. (See Marscher, Arthur H., assignor.)						
Syrverson, Albert and C. Pelican Rapids, Minn. Comb-cleaner .....	694,040	Feb. 25	3506	772	98	1381
Syrverson, Cornelius. (See Syrverson, Albert and C.)						
Szabó, Basil V., Chicago, Ill. Rotary motor .....	694,333	Feb. 25	4096	911 912 913	98	1603
Szabó, Basil V., assignor of two-thirds to F. Siegel and J. Alexander, Chicago, Ill. Motor .....	716,143	Dec. 16	2892	636 637	101	2472
Szczepanik, Jan, assignor to Société des Inventions Jan Szczepanik & Cie., Vienna, Austria-Hungary. Producing weaving-diagrams .....	701,418	June 3	240	33, 54	99	2157
Szczepanik, Jan, assignor to Société des Inventions Jan Szczepanik & Cie., Vienna, Austria-Hungary. Jacquard-card and making same .....	701,775	June 3	884	197	99	2293
Szczepanik, Jan, Vienna, Austria-Hungary, assignor to Barmer Bank-Verein, Hunsberg, Prussia. Producing weaving-diagrams .....	703,849	July 1	872	192 193	100	174
Szczepanik, Jan, assignor to Société des Inventions Jan Szczepanik & Cie., Vienna, Austria-Hungary. Producing weaving-diagrams .....	703,850	July 1	875	193	100	175
Szczepanik, Jan, assignor to Société des Inventions Jan Szczepanik & Cie., Vienna, Austria-Hungary. Producing weaving-diagrams .....	703,851	July 1	879	194	100	176
Szekely, Charles S., New York, N. Y. Casting apparatus .....	714,061	Nov. 18	3105	686	101	1571
Szentmossy, Simon, New York, N. Y. Cooking apparatus .....	706,296	Aug. 5	380	81	100	1197
T. B. Laycock Manufacturing Company. (See Tucker, William, assignor.)						
Taber, Arthur L., Corona, Cal. Hanger for window-screens .....	704,667	July 15	2419	523	100	521
Taber, Mort B., Canton, Pa., assignor to A. M. Lothrop and W. N. Moore. Suit-holder .....	699,636	Apr. 29	5014	1109	99	1139
Taber, Absalom V. (See Sauvage, William H., assignor.)						
Taber, Clinton D., assignor to Tabor Sash Company, Newark, N. J. Revolving window-sash .....	696,516	Apr. 1	2015	50, 51	99	50
Taber, Clinton D., New York, N. Y., assignor to Tabor Sash Company, Newark, N. J. Window-sash .....	716,394	Dec. 23	3812	827 828	101	2679
Taber, Le Roy. (See Spencer, John L., assignor.)						
Tabor Sash Company. (See Taber, Clinton D., assignor.)						
Tabor, Thomas H., Ellijay, Ga. Farm-windlass and wagon-hoist .....	697,112	Apr. 8	1850	806	99	313



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Tabouret, Emile E., Brussels, Belgium. Making decorative tiles.....	708,680	Sept. 9	1220	280	100	2240
Tabulating Machine Company. (See Hollerith, Herman, assignor.)						
Tackless Shoe Machinery Company. (See Chamberlin, Richard H., assignor.)						
Tacoma Automatic Scales Co. (See Berry, John W., assignor.)						
Taddel, Girolamo, assignor to Società Italiana di Applicazioni Elettriche, Turin, Italy. Obtaining metallic aluminium or other metals by electrolysis.....	715,625	Dec. 9	1840	409	101	2220
Taddel, Girolamo, assignor to Società Italiana di Applicazioni Elettriche, Turin, Italy. Apparatus for obtaining metals by electrolysis.....	715,626	Dec. 9	1843	410	101	2220
Tadini, Gerome F., New York, N. Y. Motor-vehicle.....	691,206	Jan. 11	1559	354	98	340
Tadlock, Sterling B., Junction City, Ark. Clothes-pounder.....	702,506	June 17	2227	507	99	2605
Taege, Louis P., Seward, Nebr. Riveting-machine.....	715,317	Dec. 9	1276	272	101	2117
Taft, Frank E., Jamestown, N. Y. Stovepipe-ventilator.....	700,525	Sept. 23	2989	666	100	2643
Taggart, Anna E. (See Taggart, Isaac P., assignor.)						
Taggart, George, Olathe, assignor of one-half to M. Cleary, Paola, Kans. Stop-block for broken or headless knuckle-pins.....	714,258	Nov. 25	3513	772	101	1674
Taggart, Isaac P., assignor to A. E. Taggart, Philadelphia, Pa. Automatic draft-regulating mechanism.....	714,259	Nov. 25	3514	772	101	1674
Taggart, Rollin C., Toledo, Ohio. Display-rack for hats.....	695,964	Mar. 25	3029	686	98	2392
Tagliabue, Charles J., Brooklyn, N. Y. Case for surgical instruments.....	713,530	Nov. 11	2080	465	101	1340
Tagliani, Ernesto. (See Lepetit and Tagliani.)						
Taisey, Fred R., assignor to Taisey Pneumatic Service Company, Indianapolis, Ind. Despatch-tube.....	690,675	Jan. 7	586	127	98	125
Taisey, Fred R., assignor to Taisey Pneumatic Service Company, Indianapolis, Ind. Automatic switch for pneumatic carriers.....	701,532	June 3	425	97	99	2196
Taisey, Fred R., assignor to Taisey Pneumatic Service Company, Indianapolis, Ind. Terminal for pneumatic despatch tubes.....	705,884	July 29	4944	1075	100	1060
Taisey Pneumatic Service Company. (See Taisey, Fred R., assignor.)	711,367	Oct. 14	1869	408	101	404
Tait, George F., McDonald, P. A. Tubing-protector for oil-wells.....	690,676	Jan. 7	587	127	98	125
Tait, John B., Highbridge, N. J. Sully.....	708,426	Sept. 2	766	172	100	2136
Takaba, Shiro, Boston, Mass. Lamp-shade.....	693,460	Feb. 18	2354	515	98	1330
Talbert, Daniel H., Greenwood, Ind. Game apparatus.....	714,969	Dec. 2	647	136	101	1965
Talbert, Daniel H., Greenwood, Ind. Back-stop for bowling-alleys.....	714,970	Dec. 2	650	137	101	1966
Talbert, Jacob M., assignor of one-half to J. M. Vandiver, Rome, Ga. Cultivator.....	701,419	June 3	243	54	99	2157
Talbert, Lindley A., assignor of one-fourth to W. A. Moore, Indianapolis, Ind. Suspenders.....	694,342	Feb. 25	4102	913	98	1694
Talbert, William F., Funkstown, Md. Corn-planter.....	707,737	Aug. 26	3332	746	100	1853
Talbot, John, Ledbury, England. Leaf-turner.....	690,487	Apr. 29	5015	1109	99	1131
Talbot, Richard, and W. Rossetter, assignors to Blackburn Loom and Weaving Machinery Making Company, Limited, Blackburn, England. Weft-replenishing mechanism for looms.....	710,379	Sept. 30	4593	1036	100	2060
Talcott, Frank D., Maynard, Iowa. Milk-feeder.....	712,345	Oct. 28	3733	817	101	820
Talcott, Walter O., Providence, R. I. Game apparatus.....	700,856	Mar. 27	3120	786	99	1930
Taliaferro, James M., Lynchburg, Va. Tobacco-ordering chamber.....	709,938	Sept. 30	3769	851 852	100	2815
Taliaferro, John C. (See Hodgson and Taliaferro.)						
Taliaferro, John C., and C. M. Reynard, Baltimore, Md. Tin-plate-cleaning machine.....	700,184	Sept. 16	2266	515 516	100	2476
Taliaferro, Thomas W., Omaha, Nebr. Trimming-table.....	692,732	Feb. 4	904	207	98	984
Talkington, Samuel. (See Bettmann and Talkington.)						
Tallerday, David S. (See Snyder, Andrew J., assignor.)						
Talley, Felix W., New York, N. Y. Attachment for bicycles.....	704,145	July 8	1472	315	100	309
Tallqvist, Theodor W., Borgå, Russia. Hemoglobinometer.....	703,319	June 24	3739	861	99	2928
Talluan, Julius, assignor of one-half to H. W. Scattergood, Philadelphia, Pa. Stained-glass window or similar object and making same.....	704,399	July 8	1927	417	100	406
Talluan, Julius, assignor of one-half to H. W. Scattergood, Philadelphia, Pa. Framing-glass.....	704,401	July 8	1931	418	100	407
Talluan, Julius, and H. W. Scattergood, Philadelphia, Pa. Framing glass.....	704,400	July 8	1928	417	100	406
Tamboer, John, Paterson, N. J. Non-refillable bottle.....	705,481	July 22	4130	898	100	885
Tancock, James A., and T. C. Cochrill, London, Canada. Automatic switch.....	706,386	May 20	2505	574	99	1721
Tandler, Antone, Chicago, Ill. Steam-engine valve.....	701,420	June 3	243	54, 55	99	2158
Tannahill, Samuel, Jr., Augusta, Ga. Fertilizer-distributing attachment for cultivators.....	697,113	Apr. 8	1381	306	99	313
Tannenbaum, Lippman. (See Hilliard, Frederick E., assignor.)						
Tanner, Benjamin, Sturgis, Mich. Wheelbarrow.....	717,471	Dec. 30	5566	1208	101	3074
Tanner, John, et al. (See English, Edwin E., assignor.)						
Tanner, Lewis B., Seattle, Wash. Shlice-box.....	695,085	Mar. 11	1434	316	98	2032
Tanner, Zera L., U. S. Navy. Navigational sounding apparatus.....	702,307	June 17	2328	508	99	2605
Tansley, Clinton A., assignor of one-half to C. H. Greene, Port Plain, N. Y. Oar-lock.....	695,011	Jan. 11	1259	286	98	2044
Taplin, Alden B., Keene, N. H. Loose-reed motion for looms.....	696,212	Mar. 25	3514	738	98	2498
Taplin, Homer E., Lawrence, Mass. Connector for sweep-sticks and picker-sticks of looms.....	708,745	Sept. 9	1346	307	100	2267
Tapp, William, Bristol, England. Machine for use in stropping razors.....	714,622	Nov. 25	4183	925	101	1807
Tappe, August C., Cincinnati, Ohio. Hoof-pad.....	690,482	Jan. 7	206	41	98	45
Tapscott, Frank L., Brooklyn, N. Y. Apparatus for leveling and closing the covers of cans, jars, &c.....	713,925	Nov. 18	2833	630	101	1513
Tapscott, James L., Chicago, Ill. Fastener for backings in picture-frames.....	700,256	May 20	2234	511	99	1669
Tarbox, Alfred B., Chelsea, Mass. Wire-rope block.....	711,726	Oct. 21	2694	543	101	591
Tarbox, Alfred B., Chelsea, Mass. Tackle-block.....	711,727	Oct. 21	2696	594	101	592
Tarbox, Alfred B., Chelsea, Mass. Block.....	712,862	Nov. 4	749	174	101	1052
Tarzal, Victor, Budapest, Austria-Hungary. Kite or flying-machine.....	701,641	June 3	665	145	99	2247
Tardif, Omeril, Plessisville, Canada. Fire-escape.....	702,259	June 10	1747	395	99	2485
Tardy, Leon J., assignor of one-half to J. P. A. E. H. Chaumont, Versailles, France. Vessel for containing liquids.....	701,162	May 27	8859	887	99	2022
Tarleton, Pearl E., Kenton, Ohio. Meat-tenderer.....	714,062	Nov. 18	3107	686	101	1572
Tarnowsky, Jacques de, et al. (See Law, Prentiss E., assignor.)						
Taroli, Peter, Delray, Mich. Wrench.....	706,127	Aug. 5	231	48	100	1164
Tarrant, Arthur J. (See Smith and Tarrant.)						
Tarzan, Megardich. (See Tarzian, Peter and M.)						
Tarzian, Peter and M., Paterson, N. J. Bicycle.....	692,383	Feb. 4	288	70	98	859
Tash, Thomas H., Potomac, Ill. Vehicle-axle nut.....	703,016	June 24	3195	736	99	2821
Tasker, Vernon C., Bridgeport, Conn. Firing mechanism for guns.....	710,124	Sept. 30	4137	994	100	2892
Tate, Hugh J., assignor to Philadelphia Textile Machinery Company, Philadelphia, Pa. Garnet-cylinder.....	698,872	Apr. 29	4735	1043	99	1073

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Tate, Jones & Company. (See Schenk, Carl L. E., assignor.)						
Tatham, Charles, New York, N. Y. Boarding shot	703,330	June 24	3740	561	99	2929
Tatham, James, Philadelphia, Pa. Combustion process	709,372	Sept. 16	2646	593 594	100	2558
Tatlock, Robert R. (See Graham and Tatlock.)						
Tatro, Wilber W., Minneapolis, Minn. Washing-machine	697,758	Apr. 15	2559	569	99	573
Tatterson, Arthur P., Stockton, Cal. Forking, elevating, and conveying machine	709,248	Sept. 16	2388	540	100	2503
Tatum, Albert H., assignor to Whittall Tatum Company, New York, N. Y. Atomizer	712,213	Oct. 28	3555	769	101	772
Tatum, Charles A., assignor to Whittall Tatum Company, New York, N. Y. Water-cooler	711,020	Oct. 14	1186	200	101	261
Tatum, Charles A., assignor to Whittall Tatum Company, New York, N. Y. Nipple for nursing-bottles	712,157	Oct. 28	3412	747	101	754
Tatum, Charles A., assignor to Whittall Tatum Company, New York, N. Y. Atomizer	712,214	Oct. 28	3506	769	101	772
Tatum, Watson. (See Moore and Tatum.)						
Tauber, Hans P., Brooklyn, N. Y. Float-gage	696,280	Mar. 25	3667	820	98	2524
Taul, Martin L. (See Arnold, Henry B., assignor.)						
Taussig, John H., assignor to United Gas Improvement Company, Philadelphia, Pa. Apparatus for cleaning stand-pipes of gas-retorts	694,448	Mar. 4	204	45	98	1756
Taussig, Joseph, Chicago, Ill. Reflector for incandescent lamps	716,595	Dec. 23	3816	828	101	2680
Taussig, Maurice, Chicago, Ill. Umbrella-holder	716,540	Dec. 23	3818	828	101	2680
Tautphaus, Jonas A., Sappington, Mo. Vehicle-brake	718,272	Sept. 2	315	117	100	2086
Tauveron, Jean B., New York, N. Y. Sanitary shield for telephone-transmitters	694,041	Feb. 25	3507	772	98	1581
Taylor, Andrew M., Port Even, N. Y. Station-indicator	692,738	Feb. 4	905	207	98	984
Taylor, Arthur, Rochester, N. Y. Expandible fish-hook	700,993	May 27	3659	840	99	1977
Taylor, Arthur B., assignor to R. L. Gilbert & Company, Worcester, Mass. Last	709,425	Sept. 16	2742	616	100	2578
Taylor, Brainerd, New York, N. Y., assignor to F. A. Richardson, Cambridge, Mass. Urinal						
Taylor, Caleb L., St. Louis, Mo. Window screen and slide	698,419	Apr. 22	3781	834	99	849
Taylor, Calvin C., assignor to Scarritt-Comstock Furniture Company, St. Louis, Mo. Folding bed	715,437	Dec. 9	1491	323	101	2160
Taylor, Charles H. (See Christian, George H., assignor.)						
Taylor, Charles H., Montreal, Canada. Rotary engine	711,083	Oct. 14	1320	285 286	101	287
Taylor, Clarence L., assignor to Morgan Engineering Company, Alliance, Ohio. Charging-crane	717,052	Dec. 30	4785	1037	101	2910
Taylor, Clarence L., assignor to Morgan Engineering Company, Alliance, Ohio. Charging or discharging crane	717,053	Dec. 30	4788	1038	101	2910
Taylor, Clarence W., Sioux City, Iowa. Bunsen burner	690,792	Jan. 7	832	182	98	174
Taylor, Clarence W., Sioux City, Iowa. Incandescent gas-burner	700,574	May 20	2847	654	99	1798
Taylor, Clarence W., Sioux City, Iowa. Bunsen burner	702,358	June 10	1716	395	99	2484
Taylor, Clarence W., Sioux City, Iowa. Incandescent gas-burner	702,890	June 17	2828	651	99	3729
Taylor, Clarence W., Sioux City, Iowa. Inhaler	712,979	Nov. 4	966	225	101	1095
Taylor, Clinton L. (See Fisher and Taylor.)						
Taylor, David H. (See Blevins and Taylor.)						
Taylor, David L., Chicago, Ill. Combined request and mailing sheet	690,793	Jan. 7	824	182	98	174
Taylor, Edward H., Sterling, Ark. Shipping-case for saws	716,785	Dec. 23	4154	911	101	2751
Taylor, Edward R., Penn Yan, N. Y. Producing chemicals in electric furnaces	702,117	June 10	1505	340	99	2485
Taylor, Edward R., Penn Yan, N. Y. Electric furnace	706,128	Aug. 5	232	49	100	1165
Taylor, Elmer E. (See Heath and Taylor.)						
Taylor, Eugene H., Lynn, Mass. Machine for mitering and cornering box-blanks	701,963	June 10	1213	276 277	99	2378
Taylor, Eugene W., Spokane, Wash. Trolley for electric cars	693,988	Feb. 25	3391	746	98	1558
Taylor, Florence E. (See Taylor, Isaiah H., assignor.)						
Taylor, Frank, Doagh, A. Cooke and B. W. D. Montgomery, Belfast, Ireland, assignors to Lishman Process Bleaching Company, Limited, Cornholme, England. Bleaching-vat	704,402	July 8	1932	418	100	407
Taylor, Frank B. (See Salisbury, Edgar E., assignor.)						
Taylor, Frank L., and E. C. Tolman, Orange, Mass. Wall-protecting device	695,965	Nov. 25	3030	687	98	2392
Taylor, Frederick D., assignor to Smyth Manufacturing Company, Hartford, Conn. Book-sewing machine	714,531	Nov. 25	4099	887 888	101	1773
Taylor, Frederick D., assignor to Smyth Manufacturing Company, Hartford, Conn. Book-feed for casing-in machines	716,950	Dec. 30	4606	997 998	101	2871
Taylor, Frederick W., South Bethlehem and S. Newbold, Bethlehem, Pa. Metal-cutting-tool holder	709,526	Sept. 23	2990	666	100	2643
Taylor, Frederick W., and W. H. Sargent, assignors to E. & T. Fairbanks & Co., St. Johnsbury, Vt. Traveling-crane scale	716,809	Dec. 16	3216	703	101	2538
Taylor, Harry A., assignor of one-half to G. M. Stanley, Jackson, Mich. Mold for concrete walls	713,173	Nov. 11	1348	304	101	1190
Taylor, Henry G., Seattle, Wash. Thrill-tug	693,061	Feb. 11	1593	347	98	1153
Taylor, Henry H., Bridgeport, Conn. Stocking-supporter	695,349	Mar. 11	1916	426	98	2130
Taylor, Henry H., Bridgeport, Conn. Stiffening-band	703,622	July 1	445	102	100	87
Taylor, Henry H., Bridgeport, Conn. Bustle	704,146	July 8	1472	316	100	399
Taylor, Henry H., Bridgeport, Conn. Device for fastening belts	711,798	Oct. 21	2698	594	101	592
Taylor, Henry H., Bridgeport, Conn. Indoor-golf game	713,253	Nov. 11	1508	341	101	1221
Taylor, Henry H., Bridgeport, Conn. Bustle	714,532	Nov. 25	4012	888	101	1774
Taylor, Henry M., Albion, Iowa. Animal-poke	716,495	Dec. 23	3596	785	101	2633
Taylor, Herbert B., Newark, N. J. Voltaic cell	713,174	Nov. 11	1350	304	101	1190
Taylor, Horace H., San Jose, assignor of one-half to F. J. Mayhew, San Francisco, Cal. Head or search light	707,982	Aug. 26	3853	865 866	100	1955
Taylor, Hugh S., et al. (See McGarvey, Edward, assignor.)						
Taylor Hydraulic Air Compressor Company. (See Linton, William J., assignor.)						
Taylor, Ion and Steel Co. (See Mason, Volney W., Jr., assignor.)						
Taylor, Isaiah H., assignor of one-half to F. B. Hooper, Baltimore, Md. Ash-sifter	706,129	Aug. 5	236	49	100	1166
Taylor, Isaiah H., assignor to F. E. Taylor, Baltimore, Md. Ash-sifter	712,018	Oct. 28	3153	690	101	704
Taylor, Israel B., Buffalo, N. Y. Incandescent gas-burner	700,857	May 27	3421	786	99	1990
Taylor, Izora. (See Taylor, James H. and I.)						
Taylor, James, and J. Robinson, Lancaster, England. Pocket implement	699,967	May 13	1671	383	99	1532
Taylor, James A., Duncan, Ill. Hitching-post	701,964	June 10	1218	278	99	2378
Taylor, James H. and I., Philadelphia, Pa. Garment hook and fastener	703,161	Dec. 24	3483	801	99	2876
Taylor, James H. and I., Philadelphia, Pa. Garment-supporter	715,318	June 9	1277	273	101	2117
Taylor, James P., Fort Worth, Tex. Cigar-cutter and match-safe	698,152	Apr. 22	3319	725	99	2852
Taylor, James S., Fairplain, Pa. Onion-clipping machine	703,099	June 24	3361	771	99	753
Taylor, James S., deceased, Danbury, Conn.; E. M. Bulkley executor. Hat-felting machine	712,466	Oct. 28	3970	868	101	870



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Taylor, James W., assignor of three-fourths to G. A. Norwood, Jr., T. H. Holmes, and J. Spicer, Goldsboro, N. C. Machine for applying gathering-strings to bags.	698,420	Apr. 22	3782	834 835 836 837 838	99	850
Taylor, John D., Buffalo, N. Y., assignor to Taylor Signal Company. Railway signaling and switching apparatus. (Reissue.)	11,083	May 6	969	223 224 225	99	1375
Taylor, John D., assignor to Taylor Signal Company, Buffalo, N. Y. Selector for railway signaling apparatus.	707,180	Aug. 19	2260	505	100	1614
Taylor, John D., assignor to Taylor Signal Company, Buffalo, N. Y. Railway switching and signal interlocking apparatus.	707,181	Aug. 19	2262	506 507	100	1614
Taylor, John D., assignor to Taylor Signal Company, Buffalo, N. Y. Railway signaling apparatus.	707,182	Aug. 19	2266	507	100	1616
Taylor, John J., 2nd. (See Nesmith, John J., assignor.)						
Taylor, John L., Bozeman, Mont. Apparatus for lifting wagon-boxes, &c.	698,398	Apr. 22	3637	805	99	819
Taylor, John W. (See Van Dyke, Thomas H., assignor.)						
Taylor, John W., Summerville, S. C. Grate for kilns or furnaces.	708,928	Sept. 9	1735	402	100	2349
Taylor, Joseph R. (See Ward, Dell, assignor.)						
Taylor, Leroy M., Washington, D. C. Chafing-dish heater and support.	713,531	Nov. 11	2082	465	101	1340
Taylor, Leslie B., Selly Oak, England. Compound bullet.	698,534	Feb. 18	2497	548	98	1360
Taylor, Minor W., assignor of one-half to O. R. Taylor, Waterloo, Iowa. Lubricating device.	692,558	Feb. 4	600	141 142	98	920
Taylor, Nelson R., and W. C. Atwater, Chicago, Ill. Packet-fastener.	703,750	July 1	694	154	100	138
Taylor, Newton S., Chicago, Ill. Metal-sheet piling and wall structure.	717,135	Dec. 30	4986	1070	101	2942
Taylor, Olin R. (See Taylor, Minor W., assignor.)						
Taylor, Percy B., Newark, N. J., assignor to Pure Food Company. Coating-tray.	704,592	July 15	2295	499	100	495
Taylor, Percy B., Newark, N. J., assignor to Pure Food Company. Apparatus for desiccating eggs.	704,977	July 15	3072	660 661	100	656
Taylor, Robert B., et al. (See McGarvey, Edward, assignor.)						
Taylor, Samuel L. (See Gurney and Taylor.)						
Taylor, Sarah C. (See Wallace, Dora M., assignor.)						
Taylor Signal Company. (See Taylor, John D., assignor.)						
Taylor Signal Company. (See Taylor, John D., assignor.) (Reissue.)						
Taylor, Theodore F., Camden, N. J. Electroplating apparatus.	703,628	July 1	446	103	100	87
Taylor, Thomas D., Providence, R. I. Deposit-credit book.	692,844	Feb. 4	289	71	98	859
Taylor, Thomas P. (See Hammond and Taylor.)						
Taylor, Thomas P., Bridgeport, Conn. Clasp for garment-supporters.	697,222	Apr. 8	1571	351	99	353
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Changeable combination key-lock.	690,537	Jan. 7	326	66	98	70
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Door-check.	696,116	Mar. 25	3345	754 755	98	2459
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Lock-hub.	696,608	Apr. 1	389	91	99	86
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Changeable combination key-lock.	701,230	May 27	4095	943	99	2071
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Changeable combination key-lock.	701,231	May 27	4097	943 944	99	2071
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Metallic shelving.	707,983	Aug. 26	3856	866	100	1955
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Safety concussion device for locking appliances.	713,714	Nov. 18	2422	541	101	1426
Taylor, William, Sandiaere, England. Shunting-lever.	704,978	July 15	3075	661	100	637
Taylor, William, Sandiaere, England. Shunting-lever.	705,974	July 29	5101	1112	100	1092
Taylor, William, assignor to Electric Storage Battery Company, Philadelphia, Pa. Storage battery.	693,737	Feb. 18	2919	642	98	1446
Taylor, William A., assignor of one-half to J. A. Sanderson, French Camp, Miss. Flow attachment for side harrows.	710,629	Oct. 7	450	94	101	90
Taylor, William A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Current-protective device.	717,300	Dec. 30	5261	1142	101	3013
Taylor, William G. (See White and Taylor.)						
Taylor, William H., Narragansett Pier, R. I. Cooking-boiler.	694,805	Mar. 4	902	201	98	1902
Taylor, William H., Kewanee, Ill. Coal-chute.	709,373	Sept. 16	2649	594	100	2359
Taylor, William H., Kewanee, Ill. Fire-escape.	709,374	Sept. 16	2651	594	100	2359
Taylor, William J., Kansas City, Mo. Endless-chain grate.	715,899	Dec. 16	2409	533 534	101	2370
Taylor, William S., Jr., Lima, Ohio, assignor of two-thirds to C. and L. Zimmerman, Oelwein, Iowa. Driving mechanism for road-vehicles.	707,984	Aug. 26	3857	866 867	100	1956
Tazewell, Harry C., Wilmington, Del. Oilless bearing for wheels.	714,533	Nov. 25	4013	888	101	1774
Tcherkassov, Baron P., St. Petersburg, Russia, and R. E. Hill, Chicago, Ill. Type for type-writing or printing.	714,621	Nov. 25	4179	925	101	1807
Tcherniak, Joseph, Freiburg, Germany, assignor of one-half to E. T. Liefeld, New Haven, Conn. Fruit-jar.	710,818	Oct. 7	813	175	101	166
Te Brake, Garret J., Milwaukee, Wis. Ash-sifter.	695,250	Mar. 11	1745	386	98	2097
Te Poel, Henry A., Prague, Nebr. Draft-elevator.	711,799	Oct. 21	2699	594	101	593
Tea, Mary J., administratrix. (See Tea, William A.)						
Tea Tray Company. (See Conger and Eichhorn, assignors.)						
Tea Tray Company. (See Terhune, Leonard L., assignor.)						
Tea Tray Company of Newark, N. J. (See McClay, David W., assignor.)						
Tea, William A., deceased, Bellevue, Ohio; M. J. Tea, administratrix. Device for loading corn-shocks.	701,645	June 3	666	145 146	99	2248
Tea, William A., deceased, Bellevue, Ohio; M. J. Tea, administratrix. Corn-shock loader for vehicles.	707,280	Aug. 19	2451	550	100	1655
Tellesco, Aloys L., Paris, France. Manufacturing varnish.	711,596	Oct. 21	2308	305	101	590
Teel, Jesse V., Whitesville, Ky. Hand-planter.	691,984	Jan. 28	3058	687	98	667
Teel, Martha O., The Dalles, Oreg. Drawer guard or support.	701,232	May 27	4099	944	99	2072
Teichmann, Albert, Fürstenwalde, Germany. Sieve.	705,717	July 29	4651	1008	100	1001
Telfer, John C., assignor to Telfer Manufacturing Co., Kansas City, Mo. Gang lacing device.	695,012	Mar. 11	1300	286	98	2004
Telfer, John C., assignor to Telfer Manufacturing Company, Kansas City, Mo. Lacing-eye-blank fastening device.	713,715	Nov. 18	2423	541	101	1427
Telfer Manufacturing Company. (See Telfer, John C., assignor.)						
Telford, George, Oroville, assignor to Risdon Iron and Locomotive Works, San Francisco, Cal. Sluice or runway.	717,301	Dec. 30	5264	1142	101	2413
Teller, Willard, trustee. (See Cross, Marion S., assignor.)						
Tellschow, Adolf, assignor to Gebr. Tellschow, Gesellschaft mit Beschränkter Haftung, Berlin, Germany. Embossing-press.	716,144	Dec. 16	2897	637 638	101	3073

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Tellschow, Gebr. Gesellschaft mit Beschränkter Haftung. (See Tellschow, Adolf, assignor.)						
Templar, Edward J., Chicago, Ill. Display-card support.	692,385	Feb. 4	290	71	98	850
Temple, Arthur S., trustee. (See Fordyce, Edmond A., assignor.)						
Temple, Henry S., Milwaukee, Wis. Punch.	706,270	Aug. 5	560	121	100	1229
Temple, Nettie, Stockton, Cal. Corset.	709,852	July 1	881	194	100	176
Temple, Robert, assignor to American Expansion Pulley Company, Denver, Colo. Expandible pulley.	692,219	Jan. 28	3493	790	98	774
Templeton, William G., Colorado Springs, Colo. Cheese-cutter.	713,532	Nov. 11	2083	601	101	1340
Ten Broeke, Herman W., Milwaukee, Wis. Bridge-guard.	692,386	Feb. 4	291	71	98	860
Ten Brook, Helen M., Syracuse, N. Y. Bustle.	695,420	Mar. 11	2031	456	98	2156
Ten Winkel, August, Denver, Colo. Centrifugal separator.	703,630	July 1	459	105	100	90
Tennant, August, assignor of one-half to S. H. Bissell, Denver, Colo., D. Bissell, Redwood Falls, and F. M. Cotton, Minneapolis, Minn. Concentrator.	713,814	Nov. 13	2605	581	101	1465
Tennant, George B., Johnstown, Pa. Power-press.	699,350	May 6	418	96	99	1259
Tennant, Irvin, Springfield, Ohio. Pneumatic tire.	709,280	Sept. 16	2449	554	100	2516
Tennessee Felt Manufacturing Company. (See Morgan, John W., assignor.)						
Tenney, Albert B., Everett, Mass. Variable-motion mechanism.	697,041	Apr. 8	1260	280	99	287
Tenney, Charles I., Mason City, Iowa, assignor to Practical Gas Construction Company, North Chicago, Ill. Carburetor.	714,414	Nov. 25	3794	837	101	1730
Tenney, Charles K. (See Carpenter, Stevens, and Tenney.)						
Tepfer, Andrew, and O. M. Heltner, Earlville, Ill.; said Heltner assignor to said Tepfer. Currycomb.	708,597	Sept. 9	1065	241	100	2208
Terhune, Leonard L., Newark, N. J., assignor to Tea Tray Company. Electrical hood or reflector and clamp for same.	701,421	June 3	246	55	99	2159
Terhune, William H., Coudersport, assignor to himself and P. C. Blaisdell, Bradford, Pa. Glass-blowing machine.	711,800	Oct. 21	2700	595	101	593
Terne, Bruno, Philadelphia, Pa. Making fertilizers.	709,185	Sept. 16	2269	516	100	2477
Ternström, Ernst. (See Nordenfelt and Ternström.)						
Terrazas, José J., Mexico, Mexico. Device for teaching arithmetic.	704,979	July 15	3077	662	100	657
Terrell, Elah, and F. A. Ray, Columbus, Ohio. Printing device.	698,583	Apr. 29	4072	960	99	925
Terrell, Elah, and F. A. Ray, Columbus, Ohio. Type-setting machine.	703,017	June 24	3196	736	99	2821
Terrell, Frank L., Swanton, Nebr. Combined door buffer and catch.	693,187	Feb. 11	1842	399	98	1202
Terrell, Joseph E. and W., and F. M. Montgomery, Clarendon, Tex. Cattle-holder.	699,938	May 13	1672	384	99	1532
Terrell, Ozias L., assignor of one-half to D. W. Fishell, Chicago, Ill. Sign for street-lamps.	690,901	Jan. 7	1006	227	98	211
Terrell, William. (See Terrell and Montgomery.)						
Terrier, David E. (See Warlich, Oscar, assignor.)						
Terrill, Asa W., Salem, V. Va. Handle-bolt.	710,906	Oct. 7	956	210	101	195
Terry, Blake, Oriana, Tex. Automatic balance attachment for windmills.	716,786	Dec. 23	4155	911	101	2751
Terry, Coleman A. (See Davis and Terry.)						
Terry Heater Company. (See Hopkins, George W., assignor.)						
Terry, Le Grand, Waverly, N. Y. Rake.	708,939	Sept. 9	1737	402	100	2350
Terry, Theodore D., Jamesport, N. Y. Cultivator.	698,153	Apr. 22	3321	725	99	753
Terry, William, Oakland, Cal. Rock-drill chuck.	691,983	Jan. 23	3050	687	98	687
Tesch, Charles H., Milwaukee, Wis. Brush.	711,544	Oct. 21	2214	481	101	490
Tesseyman, Henry, assignor to Barney & Smith Car Company, Dayton, Ohio. Brake-shoe mechanism.	698,421	Apr. 22	3790	836	99	852
Tessier, Joseph. (See Tessier, Louis and J.)						
Tessier, Louis and J., Fitchburg, Mass. Cuspidor holder and cleaner.	691,415	Jan. 21	1996	448	98	450
Tessmer, John A., Providence, R. I. Seam-stretcher.	716,310	Dec. 16	3217	703	101	2338
Teter, Charles K., Upper Sandusky, Ohio. Apparatus for administering anesthetics.	706,358	Aug. 5	705	153	100	1250
Teter-Heany Developing Company. (See Heany, John A., assignor.)						
Teufel, George W., Philadelphia, Pa. Dental crown-slitting tool.	696,772	Apr. 1	721	163	99	154
Tevander, Olof N., assignor of two-thirds to G. L. Thompson and C. H. Foster, Chicago, Ill. Printing-wheel.	714,835	Dec. 2	376	80, 81	101	1911
Textile Machine Works. (See Janssen, Henry, assignor.)						
Textile Machinery Company. (See Martin, Fay H., assignor.)						
Textile Machinery Improvement Company. (See Lemyre, Joseph E., assignor.)						
Textor, Herman, Cincinnati, Ohio. Fire-escape.	713,815	Nov. 18	2607	581	101	1466
Thacher, Edwin, New York, N. Y. Material of construction.	691,416	Jan. 21	1998	448	98	450
Thacher, Edwin, New York, N. Y. Pile for wharves, &c.	691,417	Jan. 21	1999	448	98	451
Thacher, Edwin, New York, N. Y. Composite pile.	691,418	Jan. 21	2000	449	98	451
Thacher, Edwin, New York, N. Y. Material of construction.	714,971	Dec. 2	651	137	101	1966
Thacher, Edwin, New York, N. Y. Floor unit.	714,972	Dec. 2	653	137	101	1966
Thacher, Edwin, New York, N. Y., assignor of one-half to E. M. Scofield, Pittsburg, Pa. Slide-rule.	701,103	May 27	3861	897	99	2022
Thacher, Wesley G. (See Thompson, Rolland, assignor.)						
Thackaberry, Milton L. (See Zetterlund, August T., assignor.)						
Thacker, Edgar M., assignor to Stillwell-Bierce & Smith Valve Co., Dayton, Ohio. Apparatus for separating oil.	711,446	Oct. 14	9009	425	101	433
Thain, Joseph A., Chicago, Ill. Weather-strip.	713,173	Nov. 11	1353	304	101	1191
Thaler, Robert, West Bay City, Mich. Screw-propeller.	693,584	Apr. 29	4073	900	99	925
Thame, James, assignor to South Western Rubber Company, Limited, London, England. Treatment of crude rubber.	707,654	Aug. 26	3192		100	1825
Thames Arms Company. (See Robertson, James D., assignor.)						
Tharby, William, assignor of one-half to G. Goetz, Buffalo, N. Y. Cushioned horseshoe.	713,716	Nov. 18	2426	541	101	1427
Thayer, Joseph W. (See Bennett, George S., assignor.)						
Thatcher, Joseph W. (See Bennett and Thatcher.)						
Thatcher, Joseph W., San Francisco, Cal. Dental mallet.	700,160	May 13	2013	461	99	1600
Thaxter, Storer W., Bangor, Me. Reversible propeller.	711,021	Oct. 14	1187	261	101	261
Thayer, Abbott H. (See Brush and Thayer.)						
Thayer, C. E. (See Zeleny, Anthony, assignor.)						
Thayer, Clark F., Erie, Pa., assignor to Wilcox Brothers, Joliet, Ill. Couch.	709,939	Sept. 30	3773	852	100	2816
Thayer, Door Clock and Spring Co. (See Sullivan, Cornelius F., assignor.)						
Thayer, Horace N., Erie, Pa. Umbrella-support.	693,738	Feb. 13	2920	642	98	1446
Thayer, Horace N., Erie, Pa. Wheel-hub.	699,375	Sept. 16	2652	595	100	2560
Thayer, Lester, Peoria, Ill. Incandescent lamp.	695,844	Mar. 18	2809	639	98	2333
Thayer, Russell, assignor to Carbon Light and Power Company, Philadelphia, Pa. Lighting.	697,292	Apr. 8	1697	379	99	382
Thede, Peter F., assignor to General Pneumatic Company, Chicago, Ill. Apparatus for converting, storing, and utilizing wind-power.	690,794	Jan. 7	827	182	98	174
Theemling, Jakob, Union Hill, N. J. Rotary engine.	697,693	Apr. 15	2442	544	99	548



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Name, residence, and invention	No.	Date.	Monthly volume.		Official Gazette.	
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Theibault, Albert K., Chicago, Ill. Caliper-gage.	695,661	Mar. 18	2486	565	98	2268
Theileggerdes, Frederick, Memphis, Tenn. Envelop and advertising-opener therefor.	702,508	June 17	2321	508	99	2695
Theising, Andrew J., Cincinnati, Ohio. Hub and axle bearing.	698,585	Apr. 29	1674	900	99	925
Theisen, Edward, Baden, Germany. Apparatus for washing gases.	704,593	July 15	2299	500	100	496
Theisen, Edward, Baden, Germany. Treating gases.	709,527	Sept. 23	2993	667	100	2644
Thenan, Charles J., and W. A. Nourse, Lansing, Mich. Coin-controlled striking-machine.	694,335	Feb. 25	4103	913	98	1694
Theobald, Conrad, Bruning, Nebr. Presser-foot-lifting mechanism for sewing-machines.	708,940	Sept. 9	1738	402	100	2350
Theobald, Jean G., assignor to Frank M. Whiting and Company, North Attleboro, Mass.	690,533	Jan. 7	328	66	98	71
Therodde, Léon. (See Ponthus and Therodde.)						
Théry, Joseph, Joliet, Ill. Machine for cleaning streets.	707,367	Aug. 19	2602	588	100	1685
Therye, Charles. (See Maslin and Therye.)						
Thenerkauf, Albert, Dusseldorf, Germany. Pipe-bending machine.	695,350	Mar. 11	1917	426 427	98	2131
Theu Automatic Shovel Company. (See Thew, Richard, assignor.)						
Thew, Richard, assignor to Theu Automatic Shovel Company, Lorain, Ohio. Power-shovel.	710,223	Sept. 30	4330	973 974	100	2935
Thialon, Charles. (See Castelnau and Thialon.)						
Thibeault, Joseph C., assignor of one-half to M. Poitras, Lawrence, Mass. Barrel or pail show-case cover.	712,423	Oct. 28	3896	852 853	101	856
Thibert, Napoleon R. (See Beaudin and Thibert.)						
Thibodeau, Henry S. (See Chevrette, Alexander, assignor.)						
Thibodo, Francis E., and S. S. Peckinpaugh, said Peckinpaugh assignor to R. B. H. Macrorie, Greenbay, Wis. Preparing surfaces for etching and in etching such surfaces.	706,280	Aug. 5	563		100	1229
Thiebaut, Camille, St. Germain-en-Laye, France. Packing case or box.	707,183	Aug. 19	2269	507	100	1616
Thiébaux, Felix. (See Canaple and Thiébaux.)						
Thiel, François C., Paris, France. Machine for the torrefaction of coffee.	699,426	May 6	577	131	99	1294
Thiel, Otto, Kaiserslautern, Germany. Producing iron.	709,563	Sept. 23	3047	679	100	2653
Thiele, Edmund, Barmen, Germany. Manufacture of filaments from cellulose solutions.	710,819	Oct. 7	814	175	101	167
Thiele, Josephine, St. Louis, Mo. Garbage receptacle and means for handling same.	705,718	July 29	4652	1008	100	1001
Thierkoff, Anthony W., Redding, Cal. Mechanical bill-carrying apparatus.	703,853	July 1	883	194	100	177
Thiermann, Wilhelm A., Hanover, Germany. System of and apparatus for transmitting movements and indicating the position of indicators or the like.	705,482	July 22	4131	898 899	100	885
Thiermann, Wilhelm A., Hanover, Germany. Means for transmitting movements and indicating positions electrically.	706,281	Aug. 5	564	122	100	1229
Thierry, Charles V. (See Sudre and Thierry.)						
Thierry, Charles V., et al. (See Thierry, Jean M. J., assignor.)						
Thierry, Jean M. J., assignor to C. G. Sudre and C. V. Thierry, Paris, France. Apparatus for evaporating distillers' residues.	717,054	Dec. 30	4789	1038 1039	101	2911
Thiersant, Henri de, et al. (See Radiguet, Arthur, assignor.)						
Thies, J. H. (See Bailey, Alva S., assignor.)						
Thill, Peter, Ohligs, Germany. Adjustable support for photographic or similar apparatus.	704,403	July 8	1934	419	100	407
Thirion, Auguste, Paris, France. Mill.	707,805	Aug. 26	3522	794 795	100	1890
Thirot, Fernand. (See Labranche and Thirot.)						
Thistlewood, Theodore, Harrington, Del. Self-lubricating hub-bearing.	703,501	July 1	219	52	100	46
Thode, Albert, Hamburg, Germany. Trolley-catcher.	710,145	Dec. 16	2900	638	101	2473
Thoms, Burchard, New Orleans, La. Multiple effect.	699,038	Apr. 29	5017	1110	99	1131
Thoin, Louis F. (See Deforge, Fortunat, assignor.)						
Thom, George, assignor of one-half to S. Thom, Washington, D. C. Packing device.	699,775	May 13	1251	290	99	1444
Thom, Samuel. (See Thom, George, assignor.)						
Thoma, Diedrick W., Elmhurst, Ill. Thill-support.	715,438	Dec. 9	1492	323	101	2160
Thomas, Abner D., Little Rock, Ark., assignor to Thomas Gin-Compress Company. Cotton-press.	690,935	May 13	1571	361 362	99	1513
Thomas, Abner D., Little Rock, Ark., assignor to Thomas Gin-Compress Company. Balancing-machine.	690,936	May 13	1577	362	99	1514
Thomas, Abner D., Little Rock, Ark., assignor to Thomas Gin-Compress Company. Cotton-press.	690,937	May 13	1580	362	99	1515
Thomas, Abraham Z., Wooster, Ohio. Washing-machine.	698,154	Apr. 22	3323	725	99	753
Thomas, Abraham Z., Wooster, Ohio. Wagon-rack for hay-loaders.	704,504	July 15	2300	500	100	496
Thomas, Almer, Northeast, Pa., assignor to A. B. Chapman, Silvercreek, N. Y. Machine for hulling green peas.	693,926	Feb. 25	3254	716 717	98	1531
Thomas, Benjamin F., Camden, Ind. Dumping device.	690,039	Apr. 29	5019	1110	99	1131
Thomas, Bertrand M., San Francisco, Cal. Artificial fuel and preparing same.	704,717	July 15	2502		100	539
Thomas and Betts. (See Thomas, Robert M., assignor.)						
Thomas, Calvin P., Grand Rapids, Mich. Bearing-bracket for vertically-adjustable shade-rollers.	697,114	Apr. 8	1382	307	99	314
Thomas, Charles E., Tucson, Ariz. Terr. Pneumatic tire.	697,564	Apr. 15	2320	489	99	499
Thomas, Charles E., Springfield, and J. M. Olinger, Vienna Crossroads, assignors of one-half to Thomas Manufacturing Company, Springfield, Ohio. Trolley for electric railways.	711,022	Oct. 14	1188	261 262	101	261
Thomas, Charles F. (See McReynolds, Andrew L., assignor.)						
Thomas, Charles T., Mountain Island, assignor of two-thirds to R. P. Robinson and W. N. Gavin, Mount Holly, N. C. Fertilizer-distributor attachment for plows.	711,023	Oct. 14	1190	262	101	262
Thomas, Cora M., Farmington, N. H. Cleaning device for bottles or the like.	693,674	Feb. 18	2772	610	98	1416
Thomas, D. P. (See Cranston, Edmund W., assignor.)						
Thomas, Edward G., Cambridge, Mass. Rail-bond construction.	690,002	May 13	1515	348	99	1502
Thomas, Edward G., Cambridge, Mass., assignor, by mesne assignments, to Electric Gas Lighting Company. Electric annunciator-drop.	714,700	Dec. 2	216	43	101	1881
Thomas, Edwin E., St. Paul, assignor of one-half to Union Iron Works, Minneapolis, Minn. Haul-up-chain unloader for sawmills.	690,677	Jan. 7	588	127 128	98	125
Thomas, Edwin E., St. Paul, assignor of one-half to Union Iron Works, Minneapolis, Minn. Double-cutting band-saw.	690,678	Jan. 7	589	128	98	126
Thomas, Edwin E., St. Paul, assignor of one-half to Union Iron Works, Minneapolis, Minn. Reciprocating lumber-mover for sawmills.	690,679	Jan. 7	590	128 129	98	126
Thomas, Edwin E., St. Paul, assignor of one-half to Union Iron Works, Minneapolis, Minn. De-basing device.	693,188	Feb. 11	1844	1399 1400	98	1202
Thomas, Edwin E., St. Paul, assignor of one-half to Union Iron Works, Minneapolis, Minn. Haul-up chain.	693,337	Feb. 11	2110	402 403	98	1259
Thomas, Edwin E., St. Paul, assignor of one-half to Union Iron Works, Minneapolis, Minn. Lumber-conveyor for double-cutting band-mills.	693,680	Feb. 18	2694	594 595	98	1390
Thomas, Edwin E., St. Paul, assignor of one-half to Union Iron Works, Minneapolis, Minn. Lumber-conveyor for double-cutting band-mills.	693,809	Feb. 18	3008	965	98	1464

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Thomas, Edwin E., St. Paul, assignor of one-half to Union Iron Works, Minneapolis, Minn. Lumber-conveyer for sawmills	694,696	Mar. 4	693	151	98	1857	
Thomas, Edwin E., St. Paul, assignor of one-half to Union Iron Works, Minneapolis, Minn. Guide-operating means for band-saw mills	694,697	Mar. 4	695	152	98	1858	
Thomas, Edwin E., St. Paul, assignor of one-half to Union Iron Works, Minneapolis, Minn. Guard for gang-edges	697,565	Apr. 15	2201	490	99	500	
Thomas, Edwin E., St. Paul, assignor of one-half to Union Iron Works, Minneapolis, Minn. Skid-arm for double-cutting band-mills	699,120	Apr. 29	5120	1140	99	1157	
Thomas, Edwin E., St. Paul, assignor of one-half to Union Iron Works, Minneapolis, Minn. Twin-saw slabbing-machine	707,184	Aug. 19	2269	508 509	100	1016	
Thomas, Edwin E., St. Paul, assignor to Union Iron Works, Minneapolis, Minn. Lum-ber-conveyer	707,806	Aug. 26	3523	795 796	100	1891	
Thomas, Edwin E., St. Paul, assignor of one-half to Union Iron Works, Minneapolis, Minn. Steam-feed for sawmill-carriages	708,598	Sept. 9	1066	242	100	2208	
Thomas, Edwin E., St. Paul, assignor of one-half to Union Iron Works, Minneapolis, Minn. Engine	717,136	Dec. 30	4399	1071	101	2942	
Thomas, Edwin E., St. Paul, and J. E. Lockwood, Minneapolis, Minn. Means for auto-matically controlling sawmill-carriages	693,629	Feb. 18	2690	594	98	1398	
Thomas, Eliza R., St. Johns, Mich. Pie-lifter	695,966	Mar. 25	3031	687	98	2392	
Thomas, Frank E., Battlereck, Mich. Baker's-oven-furnace hood	691,674	Jan. 21	2455	552	98	548	
Thomas, Frank W., Toledo, Ohio. Journal box and bearing	690,483	Jan. 7	208	41	98	45	
Thomas, Frank W., Toledo, Ohio. Roller-bearing	690,484	Jan. 7	210	42	98	46	
Thomas, Franklin S. and L. East Stroudsburg, Pa. Denuljohn-covering	708,427	Sept. 2	767	172	100	2196	
Thomas, George, Gothenburg, Nebr. Washing-machine	705,976	July 29	5104	1113	100	1093	
Thomas, George B., assignor to Perkins Electric Switch Manufacturing Company, Hart-ford, Conn. Electrical connector	696,213	Mar. 25	3547	733	98	2499	
Thomas, John, assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Chip-breaker for woodworking-machines	700,257	May 20	2236	511	99	1669	
Thomas, John R., assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Planing-machine	701,104	May 27	3862	888 889	99	2022	
Thomas, John R., assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Hold-down device for woodworking-machines	702,039	June 10	1358	309	99	2104	
Thomas, John R., assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Pressure device for woodworking-machines	704,147	July 8	1473	316	100	300	
Thomas, John R., assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Molding-machine	706,130	Aug. 5	238	49,50	100	1167	
Thomas, John R., Cincinnati, Ohio, assignor to Pollard & Metcalfe Limited, Silsden, England. Machine for making fire-lighter blocks	708,094	Sept. 2	171	40	100	2161	
Thomas, John W., Jr., Nashville, Tenn. Stand-pipe for railway uses	709,376	Sept. 16	2653	595	100	2560	
Thomas, Leopold. (See Thomas, Franklin S. and L.)							
Thomas Manufacturing Company. (See Baker, William O., assignor.)							
Thomas Manufacturing Company. (See Lutz, Daniel, assignor.)							
Thomas Manufacturing Company. (See Pelton, Charles H., assignor.)							
Thomas Manufacturing Company. (See Royster, John A., assignor.)							
Thomas Manufacturing Company. (See Thomas and Olinger, assignors.)							
Thomas, Merton S., Ithaca, N. Y. Adjustable nut and pipe wrench	696,659	Apr. 1	495	114	99	107	
Thomas, Oscar F., assignor of one-fourth to F. S. Kenyon, Adams, N. Y. Folding car-step	697,293	Apr. 8	1698	379	99	382	
Thomas, Percy H., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protecting device for electric circuits	712,618	Nov. 4	299	70	101	961	
Thomas, Philip, Brooklyn, N. Y., assignor to H. R. Worthington. Valve-lever spool	703,940	Sept. 30	3774	552	100	2316	
Thomas, R. H., et al. (See Smith, Thomas, assignor.)							
Thomas, Richard H., Chicago, Ill. Air purifying and cooling apparatus	700,858	May 27	3423	786	99	1819	
Thomas, Richard H., Chicago, Ill. Air purifying and cooling apparatus	700,859	May 27	3424	786 787	99	1821	
Thomas, Robert J. (See Campbell, Loudoun, assignor.)							
Thomas, Robert M. (See Betts and Thomas.)							
Thomas, Robert M., assignor to Thomas and Betts, New York, N. Y. Outlet member for electrical conduits	694,806	Mar. 4	908	201	98	1908	
Thomas, Thomas D., Redoak, Iowa. Ruler, book-holder, and marker combined	700,453	May 20	2622	600	99	1747	
Thomas, Walter, Palatka, Fla. Trick-sword	714,534	Nov. 25	4014	888	101	1774	
Thomas, Walter B., Chicago, Ill. Saw-clamp	711,745	Oct. 21	2600	572	101	573	
Thomas, William, Washington, D. C. Tube-coating machine	694,698	Mar. 4	696	152	98	1859	
Thomas, William F., Towns, C. Burdick, alarm	704,081	July 15	3063	664	100	658	
Thomas, William H. (See Dean and Thomas.)							
Thomas, William H., assignor to C. G. Brown, Syracuse, N. Y. Folding chair	712,864	Nov. 4	751	174	101	1052	
Thomas, William J. (See Tilley, Thomas S., assignor.)							
Thomas, William J., Sausalito, and J. B. Stetson, San Francisco, Cal. Locomotive steam-boiler	715,319	Dec. 9	1279	273 163 164	101	2118	
Thomas, William M., and L. Van Scoyoc, Louisville, Nebr. Heater	696,773	Apr. 1	732		99	154	
Thomas, William P. (See Benton, Nathan J., assignor.)							
Thomas, William T., Philadelphia, Pa. Rosette	698,233	Apr. 22	3467	763	99	784	
Thomas, William W., Troy, Ohio. Carnation-supporter	703,019	June 24	3200	737	99	2822	
Thompson, A. G. (See Cline, Fred N., assignor.)							
Thompson, Alfred, assignor to Geneva Automobile and Manufacturing Company, Gen-eva, Ohio. Steam-generator	701,422	June 3	248	55,56	99	2159	
Thompson, Channing M., Newark, Ohio. Pivoted rocker-bearing center-plate for rail-way-cars	709,564	Sept. 23	3048	679	100	2654	
Thompson, Charles F. (See Wallace, David T., assignor.)							
Thompson, Charles S., Elizabeth, N. J. Bicycle-gearing	692,943	Feb. 11	1339	291	98	1101	
Thompson & Company, E. K. (See Basom, Jerome S., assignor.)							
Thompson, Courtenay W., London, England. Apparatus for filtering or separating liq-uids from solids	713,717	Nov. 18	2428	542 543	101	1428	
Thompson, David O. (See Shortley and Thompson.)							
Thompson, David W., Chicago, Ill. Clock-pendulum	703,020	June 24	3201	737	99	2828	



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Thompson, Ellsworth. (See Hendricks and Thompson.)						
Thompson, Florence B., et al. (See Smith, Edward W., assignor.)						
Thompson, Francis E., and F. N. Young, assignors to Moxie Nerve Food Company of New England, Boston, Mass. Registering faucet for syrup-bottles	691,881	Jan. 28	2871	646 647	98	650
Thompson, Frank A. (See Moore, Charles J., assignor.)						
Thompson, Frederic M., et al. (See Clark, Robert C., assignor.)						
Thompson, George L., et al. (See Tevander, Olof N., assignor.)						
Thompson, George M., Philadelphia, Pa. Sparking igniter for explosive-engines	692,734	Dec. 4	907	207	98	984
Thompson, George S., Hockessin, Del. Liquid-gate	717,055	Feb. 30	4793	1030	101	2912
Thompson, Gustavus S., Sverdrup, S. D. Erener for corn-harvesters	716,597	Dec. 23	3819	820	101	2681
Thompson, Harvey J. (See Maddox, John A., assignor.)						
Thompson, Hugh L., Waterbury, Conn. Rolling-mill	714,260	Nov. 25	3515	773 774	101	1675
Thompson, Ira L. (See De Groot and Thompson.)						
Thompson, Jacob B. (See Henderson and Thompson.)						
Thompson, James G., Cheyenne, Wyo. Sash-fastener	698,339	Apr. 22	3638	805	99	819
Thompson, James L., Allegheny, Pa. Reaming attachment for die-stocks	712,445	Oct. 28	3932	860	101	863
Thompson, James R., Portland, Oreg. Combined electric switch and spark-blow-out mechanism	692,735	Feb. 4	908	208	98	984
Thompson, James W. (See English and Thompson.)						
Thompson, John. (See Ariens and Thompson.)						
Thompson, John E., Edna, Cal. Cultivator and weed-cutter	698,586	Apr. 29	4076	901	99	926
Thompson, John J., Lewistown, Mont. Sulky hay-rake	703,624	July 1	447	103	100	88
Thompson, John R., Americus, Ga. Seal-lock	700,258	May 20	2236	511	99	1669
Thompson, John R., Americus, Ga. Car-door	700,259	May 20	2241	512	99	1670
Thompson, John R., Brooklyn, N. Y. Lace-paper machine	709,615	Sept. 23	3193	698	100	2672
Thompson, John S. (See Stobbs and Thompson.)						
Thompson, John S. W. (See Blevney, John C., assignor.)						
Thompson, John T., St. Paul, Minn. Shoestrut	704,980	July 15	3983	664	100	658
Thompson, Joseph, Manchester, England. Apparatus for measuring air-currents	691,082	Jan. 14	1342	303	98	204
Thompson, Joseph W., Salem, Ohio. Gab	717,472	Dec. 30	5568	1249	101	3075
Thompson, Milton E., Ridgway, Pa., assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y. Measuring alternating electric currents	714,973	Dec. 2	655	138	101	1967
Thompson, Milton E., Ridgway, Pa., assignor to General Electric Company. Measuring alternating electric currents	715,220	Dec. 2	1086	293	101	2659
Thompson, Nelson W., Biglow, Oreg. Harrow-jack	696,697	Apr. 1	563	129	99	122
Thompson, Nelson W., Biglow, Oreg. Self-leveling wagon	700,102	May 13	1869	485	99	1572
Thompson & Norris Company. (See Chapin, William G., assignor.)						
Thompson, Oscar, assignor of one-half to J. A. Baldrige, Vincennes, Ind. Wire-fence reel	695,351	Mar. 11	1918	427	98	2131
Thompson, Oscar, and J. A. Baldrige, Vincennes, Ind. Wire-fence reel	695,352	Mar. 11	1919	428	98	2131
Thompson, Ralph C., Newberry, Ind. Tongue attachment	714,261	Nov. 25	3518	774	101	1675
Thompson, Ralph P., Springfield, assignor to National Cash Register Co., Dayton, Ohio. Cash-register. (Re-issue)	12,000	June 10	1986	454 455	99	2534
Thompson, Richard H. (See Jarvis, Harold, assignor.)						
Thompson, Robert. (See Thompson, William H. and R.)						
Thompson, Robert H. (See Shaw, Charles H., assignor.)						
Thompson, Robert M., Sutton, Neb. Wurtzite product	716,787	Dec. 23	4156		101	2752
Thompson, Rolland. (See Finn, William A., assignor.)						
Thompson, Rolland, assignor of one-fourth to W. G. Thacher, New York, N. Y. Coupling for wires	698,155	Apr. 22	3325	725	99	753
Thompson, Rollin, Thomaston, Conn. Foot-rest for carriages	706,359	Aug. 5	706	133	100	1259
Thompson, Samuel, Chicago, Ill. Combined double escutcheon and paint protector	702,891	June 17	2831	651	99	2730
Thompson, Thomas. (See Gray, Alexander, assignor.)						
Thompson, Thomas C., assignor of two-thirds to M. E. Pollak, Cincinnati, and F. Norris, Carthage, Ohio. Lathe-dog	715,900	Dec. 16	2413	534	101	2371
Thompson, Thomas L., Lewisburg, Tenn. Rein-holder	709,585	Sept. 23	3084	686	100	2662
Thompson, Walter, Toronto, Canada, assignor, by mesne assignments, to Packers' Sanitary Can Company, Paterson, N. J. Solderless side seam for tin cans or other metallic vessels	697,555	Apr. 15	2919	644	99	650
Thompson, Walter, Toronto, Canada, assignor, by mesne assignments, to Packers' Sanitary Can Company, Paterson, N. J. Solderless side seam for tin cans	697,556	Apr. 15	2920	645	99	650
Thompson, Walter, Toronto, Canada, assignor, by mesne assignments, to Packers' Sanitary Can Company, Paterson, N. J. Solderless side seam for tin cans	700,575	May 20	2859	654	99	1794
Thompson, Walter, Toronto, Canada, assignor, by mesne assignments, to Packers' Sanitary Can Company, Paterson, N. J. Solderless side seam for tin cans	700,576	May 20	2851	654	99	1794
Thompson, Walter, Toronto, Canada, assignor, by mesne assignments, to Packers' Sanitary Can Company, Paterson, N. J. Solderless side seam for tin cans	700,577	May 20	2853	654	99	1794
Thompson, Walter, Toronto, Canada, assignor, by mesne assignments, to Packers' Sanitary Can Company, Paterson, N. J. End seam for tin cans	700,578	May 20	2853	655	99	1794
Thompson, Walter, Toronto, Canada, assignor to J. Murphy, Brooklyn, N. Y. Rendering joints of sheet-metal vessels hermetically tight	699,592	May 6	882	204	99	1357
Thompson, Watson T. (See Chamberlin and Thompson.)						
Thompson, William, Belleville, Canada. Extension-slide for tables, &c	699,734	May 13	1142	267	99	1422
Thompson, William, Woodstock, Canada. Metallic tire	710,660	Dec. 30	4081	990	101	2872
Thompson, William A., La Crosse, Wis. Clam or oyster dredge	705,975	July 29	3103	1112	100	1093
Thompson, William D., et al. (See Ross, Delmar C., assignor.)						
Thompson, William F., New York, N. Y. Non-refillable bottle	713,876	Nov. 18	2699	582	101	1466
Thompson, William F., New York, N. Y. Non-refillable bottle	714,974	Dec. 2	657	138	101	1967
Thompson, William H., Fancyfarm, Ky. Bucket-supporter	710,967	Oct. 7	957	210	101	1305
Thompson, William H., assignor of one-half to J. B. Eggenier, Marinette, Wis. Trace-fastener	705,719	July 29	4653	1066	100	1000
Thompson, William H. and R., London, England. Steam-trap	696,517	Apr. 1	221	51	99	51
Thompson, William J., and P. Becker, New York, N. Y. Type-writer	696,304	Mar. 25	3711	829 830	98	2533
Thoms, Charles F., assignor of one-half to D. Wright, Highlandtown, Md. Motor vehicle	710,630	Oct. 7	452	94	101	91
Thomsen, Adam B. (See Thomsen, Julius K. L., assignor.)						
Thomsen, Julius K. L., assignor of one-half to A. B. Thomsen, Buffalo, N. Y. Camera attachment	713,177	Nov. 11	1356	805	101	1191
Thomsen, Peter. (See Schmidt and Thomsen.)						
Thomson, Alexander, College Hill, Ohio. Paper-coating process	693,189	Feb. 11	1847		98	1203
Thomson, Arthur T. M., East Dulwich, England. Connecting plug for electrical switch-boards	705,161	July 22	3433	752	100	748
Thomson, Arthur T. M., County of Middlesex, England. Electrical relay	712,619	Nov. 4	301	71	101	361

## Alphabetical list of patents—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Thomson, Charles A., Belleville, N. J. Dough-molding machine	701,646	June 3	608	146 147	99	2248
Thomson, Charles A., Edinburgh, Scotland. Apparatus for holding cakes during the process of icing	716,788	Dec. 23	4158	911	101	2752
Thomson, Elihu. (See Ball, Augustus A., Jr., assignor.)						
Thomson, Elihu. (See Lemp, Hermann, assignor.)						
Thomson, Elihu. (See Persson, Otto F., assignor.)						
Thomson, Elihu, Swampscott, Mass. Gas or oil internal-combustion engine	691,017	Jan. 14	1232	278	98	273
Thomson, Elihu, Swampscott, Mass. Gas or oil engine	696,518	Apr. 1	224	51,52	99	52
Thomson, Elihu, Swampscott, Mass. Regulation of speed and power engines	702,038	June 10	1354	300	99	2103
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Manufacture of electrical condensers	691,675	Jan. 21	2467	553	98	548
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Electric meter	701,965	June 10	1219	278	99	2379
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Electric meter	706,012	Aug. 12	1186	263 264	100	1872
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Electric meter	712,106	Oct. 28	3313	727	101	734
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Electric meter	712,620	Nov. 4	304	71	101	962
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Apparatus for transferring electric energy	712,741	Nov. 4	505	119	101	1002
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Alternating-current meter	712,742	Nov. 4	508	119	101	1002
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Electric meter	713,023	Nov. 4	1043	243	101	1109
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Controlling electric arcs	715,901	Dec. 16	2414	534	101	2371
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Electrical conductor	716,311	Dec. 16	3218	703	101	2538
Thomson, Elihu, Lynn, Mass., assignor to Thomson-Houston Electric Company. System of electric distribution	698,156	Apr. 22	3325	726	99	753
Thomson, Elihu, Swampscott, and J. G. Callan, Lynn, Mass., assignors to General Electric Company. Insulated conductor	695,127	Mar. 11	1524	337	98	2050
Thomson, Elihu, Swampscott, and J. G. Callan, Lynn, Mass., assignors to General Electric Company. Insulated conductor. (Reissue)	11,997	May 27	4196	962	99	2169
Thomson, Elihu, Lynn, Mass., and E. J. Houston, Philadelphia, Pa. Electric-lighting system	695,870	Mar. 18	2858	648	98	2344
Thomson, George, Elizabeth, N. J. Blasting	711,545	Oct. 21	3215	482	101	490
Thomson, Henry C., Boston, Mass. Eyeglasses	698,076	Dec. 22	3145	692	99	717
Thomson, Henry C., assignor to Electric Gas Lighting Company, Boston, Mass. Electric signal-gong	717,137	Dec. 30	4942	1072	101	2943
Thomson-Houston Electric Company. (See Thomson, Elihu, assignor.)						
Thomson, James, Pawtucket, R. I. Roll-clearer	710,539	Oct. 7	279	62	101	57
Thomson, James M. (See Nathan, Thomson, and Rintoul.)						
Thomson, John, Brooklyn, N. Y. Inking apparatus for platen printing-presses	717,516	Dec. 30	5614	1225	101	3090
Thomson, John, assignor to John Thomson Press Company, New York, N. Y. Ink-distributing device for printing-presses	700,260	May 20	2244	512	99	1671
Thomson, John, Brooklyn, assignor to John Thomson Press Company, New York, N. Y. Inking mechanism for platen-presses	717,143	Dec. 30	4950	1074	101	2945
Thomson, John, Brooklyn, N. Y., assignor to John Thomson Press Company, Jersey City, N. J., and New York, N. Y. Changer	715,902	Dec. 16	2416	535	101	2371
Thomson, John, Brooklyn, N. Y., assignor to John Thomson Press Company, Jersey City, N. J., and New York, N. Y. Changer	717,138	Dec. 30	4943	1072	101	2943
Thomson, John, Brooklyn, N. Y., assignor to John Thomson Press Company, Jersey City, N. J., and New York, N. Y. Changer for inking apparatus for printing-presses	717,139	Dec. 30	4944	1072	101	2943
Thomson, John, Brooklyn, N. Y., assignor to John Thomson Press Company, Jersey City, N. J., and New York, N. Y. Chase-securing device for printing-machines	717,140	Dec. 30	4945	1072 1073	101	2944
Thomson, John, Brooklyn, N. Y., assignor to John Thomson Press Company, Jersey City, N. J., and New York, N. Y. Chasing-securing device for printing-machines	717,141	Dec. 30	4947	1073	101	2944
Thomson, John, Brooklyn, N. Y., assignor to John Thomson Press Company, Jersey City, N. J., and New York, N. Y. Platen printing-press	717,142	Dec. 30	4948	1074	101	2944
Thomson, John C., Rock Island, Ill. Mop-wringer	709,586	Sept. 23	3084	687	100	2662
Thomson, Judson L., Clayton, N. Y. Rivet-clenching cap	693,338	Feb. 11	2114	463	98	1261
Thomson, Judson L., Clayton, N. Y. Clasp or buckle	711,746	Oct. 21	2601	572	101	573
Thomson, Judson L., Clayton, assignor to J. L. Thomson Manufacturing Company, New York, N. Y. Riveting-machine	700,261	May 20	2245	512	99	1671
Thomson, Julius, Offenbach-on-the-Main, Germany. Leather-press	712,865	Nov. 4	752	175	101	1052
Thomson, Robert W., Lynn, Mass., assignor, by mesne assignments, to Philadelphia Barring Machine Company, Camden, N. J. Thread-cutter for sewing-machines	691,676	Jan. 21	2469	553	98	549
Thomson, Robert W., Lynn, Mass., assignor to Philadelphia Barring Machine Company, Camden, N. J. Thread-cutting mechanism for sewing-machines	702,832	June 17	2892	651 652	99	2730
Thomson, Robert W., Lynn, assignor to Reece Buttonhole Machine Company, Boston, Mass. Buttonhole-machine	666,698	Apr. 1	564	129 130	99	122
Thomson, Robert W., Lynn, assignor to Reece Buttonhole Machine Company, Boston, Mass. Buttonhole-stitching machine	696,699	Apr. 1	581	131	99	126
Thomson, William, Netherhall, Scotland. Apparatus for indicating and recording electric pressure and current	696,117	Mar. 25	3346	755	98	2459
Thomson, William, Glasgow, Scotland. Instrument for measuring electric currents	706,361	Aug. 5	708	154	100	1259
Thorne, John E., Puyallup, Wash. Composition for preserving fruits, &c.	697,566	Apr. 15	2203	419	99	500
Thornburg, Lincoln A., and A. L. Danser, Gas City, Ind. Fence-post	698,759	Apr. 29	4482	991	99	1014
Thornburgh Coupler Attachments Company. (See Thornburgh, William, assignor.)						
Thornburgh, William. (See McIntosh and Thornburgh.)						
Thornburgh, William, assignor to Thornburgh Coupler Attachments Company, Limited, Detroit, Mich. Spring-protecting device for railway-car-coupling attachments	706,360	Aug. 5	707	154	100	1259
Thorne, John M., Williams, Ariz. Ter. Felly and tire brace	692,944	Feb. 11	1942	292	98	1102
Thorne, John E., Racine, Ill. Fastener for label-holders	704,404	July 8	1355	419	100	408
Thorne, Rougier, Greenwich, Conn. Apparatus for the treatment of garbage or similar material	709,616	Sept. 23	3134	698	100	2672
Thornercroft, James B., Mauchline, Scotland. Rifle	713,254	Nov. 11	1508	341 342	101	1221
Thornton, Burus M. and W. E. Mexia, Tex. Trace-fastener	716,146	Dec. 16	2902	638	101	2474
Thornton, Charles A., and C. W. Whitmore, North Attleboro, Mass. Safety device for stamps, drop-hammers, or the like	708,095	Sept. 2	173	40, 41	100	2017
Thornton, Harry. (See Wilkinson, Chapman, and Thornton.)						
Thornton, James H., Evanston, Ill. Sash-lock	701,966	June 10	1223	278	99	2380



## Alphabetical list of patentees—Continued.

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Thornton, John E., Manchester, England. Photographic-film roll and roll-holder	698,157	Apr. 22	3327	726	99	754
Thornton, John E., Manchester, England. Photographic camera	702,260	June 10	1750	396	99	2485
Thornton, John E., Manchester, England. Photographic camera	702,261	June 10	1751	398	99	2486
Thornton Pickard Manufacturing Company. (See Moretti, Lorenzo, assignor.)				397		
Thornton, William, Chattanooga, Tenn. Clothes-washing machine	717,302	Dec. 30	5265	1143	101	3014
Thornston, William E. (See Thornston, Burus M. and W. E.)						
Thornycroft, John E., London, England. Motor-vehicle	699,427	May 6	578	131	99	1234
Thornycroft, John E., Chiswick, England. Water-tube boiler	711,546	Oct. 21	2215	482	101	491
Thorp, James M., Alameda, Cal. Window-opener	698,760	Apr. 29	4483	991	99	1015
Thorp, Robert T. (See Betzel, William F., assignor.)						
Thorp, William H., Beaverdam, Wis. Hinge	704,982	July 15	3087	665	100	658
Thorp, Winfield S., assignor to Improved Sweeper and Lifter Company. Philadelphia, Pa. Street-sweeper	711,663	Oct. 21	2474	1544	101	546
Thorpe, Frank M., Lamar, Mo. Paper-bag holder	713,178	Nov. 11	1338	305	101	1192
Thorpe, James, Sheffield, England. Window, panel, or other sliding frame	692,030	Jan. 28	3158	713	98	705
Thorsen, Theodore M., Philadelphia, Pa. Automatic firearm	696,118	Mar. 25	3947	755	98	2459
Thorstenson, Louis. (See Holmstrom, Thure, assignor.)						
Thourot, Frederick, New York, N. Y. Motor-cycle	713,533	Nov. 11	2686	466	101	1341
Thourot, Frederick, New York, N. Y., assignor of one-half to W. Kammeyer, Jersey City, N. J. Cooling attachment for internal-combustion motors	702,750	June 17	2680	617	99	2697
Thrallkill, John, Dexter, Iowa. Rail-joint	699,903	May 13	1516	845	99	1362
Thralls, Joseph, St. Louis, Mo. (See Collier, Louis, assignor.)						
Thrasher, Samuel P., New Haven, Conn. Secondary electric clock	700,454	May 20	2623	600	99	1747
Threlfall, Richard, Birmingham, England. Manufacturing chlorates	716,789	Dec. 23	4159	912	101	2752
Threlfall, William V., Biddeford, Me., assignor to Saco & Pettee Machine Shops, New-ton, Mass. Spinning or roving machine	707,462	Aug. 19	2762	1629	100	1721
Threlkeld, Calvert W., Memphis, Tenn. Whiffletree	712,621	Nov. 4	3076	72	101	962
Threlkeld, Calvert W. and H., Memphis, Tenn. Trace-fastener	703,321	June 24	3741	862	99	2929
Threlkeld, Colin H. (See Threlkeld, Calvert W. and C. H.)						
Thresher, Edward E., Kalamazoo, Mich. Indestructible bird-target	694,216	Feb. 25	3818	1844	98	1643
Thron, Heinrich, assignor to Vereinigte Chininfabriken Zimmer & Co., Frankfort-on-the-Main, Germany. Anisic-acid ethers of the cinchona alkaloids	695,591	Mar. 18	2361		98	2243
Thron, Heinrich, assignor to Vereinigte Chininfabriken Zimmer & Co., Gesellschaft mit Beschränkter Haftung, Frankfort-on-the-Main, Germany. Succinic-acid ether of cinchona alkaloids	696,609	Apr. 1	390		99	86
Thron, Heinrich, assignor to Vereinigte Chininfabriken Zimmer & Co., Gesellschaft mit Beschränkter Haftung, Frankfort-on-the-Main, Germany. Cinnamic ether of cinchona alkaloids	697,042	Apr. 8	1261		99	287
Thron, Heinrich, assignor to Vereinigte Chininfabriken Zimmer & Co., Gesellschaft mit Beschränkter Haftung, Frankfort-on-the-Main, Germany. Salicylate of salicyl quinin.	698,079	Apr. 22	3146		99	717
Thron, Heinrich, assignor to Vereinigte Chininfabriken Zimmer & Co., Gesellschaft mit Beschränkter Haftung, Frankfort-on-the-Main, Germany. Making alkyl ethers of cinchona-alkaloid carbonic acids	701,523	June 3	426		99	2196
Throop, Charles E. (See Freeman and Throop.)						
Throop, William E., and W. S. Ingraham, assignors to E. Ingraham Company, Bristol, Conn. Electric alarm-clock	703,854	July 1	884	195	100	177
Thrupp, Edgar C., Walton-upon-Thames, England. Turbine	699,636	May 6	965	1223	99	1374
Thuillier, Georges, Norgent-en-Bassin, France. Hand-shears for cutting metals or other hard materials in sheets	693,575	Feb. 18	2587	572	98	1377
Thuner, Robert, et al. (See La Flamboy, Harry C., assignor.)						
Thurber, Alfred, Vacaville, Cal. Lamp-bracket	697,901	Apr. 15	2812	1621	99	630
Thurber, Charles H. (See Stevens and Thurber.)						
Thurlow, Nathaniel, Newark, N. J., assignor, by mesne assignments, to Portchester Chemical Company. Producing ammonia	698,761	Apr. 29	4484		99	1015
Thurman, John S., St. Louis, Mo. Blast-nozzle	695,967	Mar. 25	3031	687	98	2392
Thurman, John S., St. Louis, Mo. Hydropneumatic renovator	697,567	Apr. 15	2203	490	99	500
Thurman, John S., St. Louis, Mo. Carpet-renovator	716,312	Dec. 16	3219	703	101	2539
Thurman, John S., St. Louis, Mo. Carpet-renovator	716,313	Dec. 16	3220	704	101	2539
Thurman, Sanford M., Yuma, Ariz. Ter. Water-wheel	704,405	July 8	1467	419	100	108
Thurman, William, Newkirk, Okla. Ter. Cuff-holder (Reissue)	11,993	May 20	3199	713	99	1857
Thurmond, Thomas D., Forsyth, Ga., assignor of three-fourths to J. M. Harrison and W. H. Thurmond. Trace-carrier	694,336	Feb. 25	4105	914	98	1695
Thurmond, William, Hillsboro, N. Mex. Ter., assignor of five-twelfths to W. E. Nelson and C. H. Jones, Denver, Colo. Ore-concentrator	694,444	Mar. 4	205	45	98	1756
Thurmond, William H., et al. (See Thurmond, Thomas D., assignor.)						
Thurnau, Edward C., Chicago, Ill. Show-case	713,534	Nov. 11	2087	466	101	1341
Thurnau, George W., New York, N. Y., assignor to American Incandescent Lamp Company. Incandescent gas-burner	710,540	Oct. 7	261	62	101	57
Thurnes, Peter B. (See Howell, Edward M., assignor.)						
Thurston, Daniel H., and J. F. Holden, Plymouth, Iowa. Grain-packer for harvesting binders	706,362	Aug. 5	710	154	100	1938
Thurston, George E., Colby, Wash. Chain water-motor	699,351	May 6	422	96	99	1200
Thurston, Glenn W., Kern City, Cal. Automatic oiling device	714,337	Nov. 25	3657	896	101	1702
Thurston, Horace, et al. (See Sibley, Edward W., assignor.)						
Thurston, Samuel H., Longbranch, N. J. Impacting one metal upon another	706,701	Aug. 12	1348	300	100	1497
Thurston, Samuel H., Longbranch, N. J. Coating one metal with another metal	706,702	Aug. 12	1349		100	1498
Thwaite, Benjamin H., Westminster, assignor to Blast Furnace Power Syndicate Limited, London and Westminster, England. Apparatus for cooling and cleansing blast furnace gases	690,735	Jan. 7	828	182	98	175
Thwing, Charles B., Galesburg, Ill., assignor to L. S. Langville, New York, N. Y. Thermoelectric element	704,595	July 15	2202		100	496
Thwing, Charles B., Syracuse, assignor to L. S. Langville, New York, N. Y. Thermoelectric generator	704,596	July 15	2203	500	100	496
Tibbals, Horace W. (See Fairchild, Oren J., assignor.)						
Tibbets, Edward E. (See Tibbets, Seth H., assignor.)						
Tibbets, Seth H., assignor of one-half to E. E. Tibbets, Groveton, N. H. Screen for paper-pulp	694,906	Mar. 4	1082	238	98	1911
Tibbitts, Arthur L., Chicago, Ill. Air-brake attachment	706,393	Aug. 5	711	155	100	1260
Tibbs, Helen H., West Seneca, assignor to Tibbs Mantle Support Company, Buffalo, N. Y. Mantle-support for gas-burners	699,857	May 13	1422	328	99	1480

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Tibbs Mantle Support Company. (See Tibbs, Helen H., assignor.)						
Tibbs, Smith G., <i>et al.</i> (See Wilke, Ferdinand, assignor.)						
Tice, William, New York, N. Y. Incandescent gas lamp	694,695	Mar. 4	691	150	98	1837
Ticheonor, Fred E., Mukwonago, Wis. Milk-can-loading device	691,835	Jan. 28	2780	825	98	680
Tichon, Joseph E., and H. S. Foster, New Bedford, Mass. Doffing-machine for ring-spinning frames	691,677	Jan. 21	2472	553	98	549
Tidd, Milton, Seneca Falls, N. Y. Wagon	714,535	Nov. 25	4015	889	101	1774
Tidey, Lillie V., <i>et al.</i> , executrices. (See Tidey, Marcus B.)						
Tidey, Marcus B., deceased, Belleville, N. J.; S. E. and L. V. Tidey, executrices. Machine for grooving assembled stock	705,483	July 22	4133	899	100	886
Tidey, Sarah E., <i>et al.</i> , executrices. (See Tidey, Marcus B.)				900		
Tidwell, L. G. (See Magary, John W., assignor.)						
Tiedemann, Herman, Pittsburg, Pa. Rail-joint	691,207	Jan. 14	1561	355	98	340
Tierce, Tucker R., Downey, Cal. Bur-chuck	706,703	Aug. 12	1349	301	100	1408
Tierney, Patrick J. (See Christian and Tierney.)						
Tietz, Theodore, Hartford, Conn. Bung and bung attachment	710,631	Oct. 7	453	94	101	91
Tiffany, Leon J. (See Baldwin, Charles C., assignor.)						
Tiffany, Oscar, Kansas City, Mo. Dirt-loading apparatus	710,890	Oct. 7	418	175	101	167
Tiffin, John, and C. E. Bentley, Pinos Altos, N. Mex. Ter. Dental articulator	696,774	Apr. 1	723	164	99	154
Tighe, Michael A., Prince's Risborough, England. Single-trigger mechanism	713,535	Nov. 11	2089	468	101	1342
Tihon, Jean P. (See Behrens and Tihon.)						
Tilden, Craig L., and E. J. Bender, Minneapolis, Minn. Machine for molding popcorn	693,631	Feb. 18	2696	595	98	1400
Tilden, George G., Newark, N. J., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc lamp	701,423	June 3	249	56	99	2159
Tilghman, B. C. & R. A. (See Mathewson, Jeremiah E., assignor.)						
Tilghman, Benjamin C., Jr., Philadelphia, Pa. Sand-blast tumbling-barrel	702,040	June 10	1359	309	99	2404
Till, Thomas, <i>et al.</i> (See Rowley, Wilfrid B., assignor.)						
Tillberg, Charles F., Kensington, and R. A. Barbieri, Port Richmond, Pa. Device for preventing theft or tampering with milk cans, bottles, or the like	693,461	Feb. 18	2355	516	98	1390
Tilley, John S., Watervleit, N. Y. Scaffold-horse	714,761	Dec. 2	217	43	101	1881
Tilley, Thomas S., assignor of one-half to W. J. Thomas, Newport, R. I. Measuring instrument	711,801	Oct. 21	2704	506	101	504
Tillinghast, Edward M. (See Whitmore and Tillinghast.)						
Tillman, John W., assignor of one-half to O. M. Fly, Gibson, Tenn. Clothes-pin	716,961	Dec. 30	4611	999	101	2872
Tillman, assignor to C. Simard, San Jose, Cal. Burner for oil	708,578	Sept. 9	1829	421	100	2968
Tillmany, Frederick, San Francisco, Cal., assignor to Tillmany Steel Tube Tire Company. Vehicle-tire	696,700	Apr. 1	584	131	99	127
Tillmany Steel Tube Tire Company. (See Tillmany, Frederick, assignor.)						
Tillotson, George. (See Morgan and Tillotson.)						
Tilly, Charles A., Brooklyn, N. Y. Air-valve attachment for traps	703,835	July 1	885	195	100	177
Tilney, Mary G., Orange, N. J. Darning-lam	705,484	July 22	4142	900	100	887
Tilton, Albert, assignor to Winchester Repeating Arms Co., New Haven, Conn. Front sight for firearms	712,863	Nov. 4	750	174	101	1052
Tilton, Ralph, assignor to J. A. Barnes, New York, N. Y. Figure toy	693,339	Feb. 11	2115	463	98	1361
Tily, Stephen B. (See Rehffuss and Tily.)						
Tily, Stephen B., J. G. and M. O. Rehffuss, assignors to J. Wanamaker, Philadelphia, Pa. Machine for inserting and fastening strings in labels	702,262	June 10	1753	400	99	2486
Tily, Stephen B., J. G. and M. O. Rehffuss, assignors to J. Wanamaker, Philadelphia, Pa. Cutting and feeding mechanism for label-making machines	714,063	Nov. 18	3109	687	101	1572
Tilyou, George C., Coney Island, N. Y. Amusement device. (Reissue.)	11,977	Mar. 25	3941	873	98	2579
Tilyou, George C., Coney Island, N. Y. Stairway	700,455	May 20	2626	601	99	1747
Tim & Co. (See Peukert, Max, assignor.)						
Timberlake, John B. (See Coney, James D., assignor.)						
Timberlake, Paul J., Jackson, Mich. Vehicle-dashboard frame	692,945	Feb. 11	1943	292	98	1102
Timberlake, Paul J., Jackson, Mich. Vehicle-dashboard frame	692,946	Feb. 11	1943	293	98	1102
Timbr, Theodore, Alpena, Mich. Convertible machine-tool	701,424	June 3	251	57	99	2160
Timme, Otto, New York, N. Y. Producing figured pile fabric	705,977	July 29	5106	1113	100	1093
Timmons, Elmer J., Cincinnati, Ohio. Swinging shelf for desks, &c.	694,445	Mar. 4	208	46	98	1757
Timms, James, assignor to Buckeye Malleable Iron and Coupler Company, Columbus, Ohio. Car-coupling	700,262	May 20	2246	513	99	1671
Timms, James, assignor to Buckeye Malleable Iron and Coupler Company, Columbus, Ohio. Friction draft-gear	711,914	Oct. 21	2933	646	101	643
Tincher, Thomas L., Chicago, Ill. Lid attachment for tea-kettles	695,893	Mar. 18	2890	657	98	2353
Tindel, Adam, Philadelphia, assignor to Tindel-Morris Company, Eddystone, Pa. Metal-working tool	707,035	Aug. 12	1970	442	100	1535
Tindel-Morris Company. (See Tindel, Adam, assignor.)						
Tingley, George H., assignor to United States Cigar Manufacturing Company, Providence, R. I. Cigar-burning machine	693,535	Feb. 18	2498	549	98	1360
Tinkham, James C., and J. H. Arran, Lexington, Mass. Milling-machine for cloth	716,147	Dec. 16	2903	639	101	2474
Tinkham, Francis M., Springfield, Mass. Couch-bed	707,807	Aug. 26	3525	796	100	1891
Tinkham, Lewis W., Traverse City, Mich., assignor to Oval Wood Dish Company. Dish-cutting machine	715,439	Dec. 9	1493	324	101	2160
Tinney, James R., El Paso, Tex. Windmill	713,817	Nov. 18	2610	582	101	1466
Tinsley, Constance R., New York, N. Y. Device for teaching music	692,736	Feb. 4	910	208	98	965
Tinsley, James F., Garland, Tex. Distributor or conveyor belt	712,020	Oct. 28	3156	690	101	704
Tinsman, Samuel H., Davenport, Iowa. Corn-planter	713,818	Nov. 18	2613	583	101	1467
Tinsman, Samuel H., assignor to Implement Manufacturing Company, Davenport, Iowa. Plow	707,878	Aug. 26	3659	824	100	1916
Tinsman, Samuel H., assignor to Implement Manufacturing Company, Davenport, Iowa. Sulky-plow	707,879	Aug. 26	3666	825	100	1918
Tinsman, Samuel H., assignor to Rock Island Plow Company, Rock Island, Ill. Riding-plow	711,747	Oct. 21	2602	572	101	573
Tippett, Harold P., Columbus, Ohio. Balanced automatic safety-valve	715,706	Dec. 9	1992	446	101	2260
Tippett, Harold P., Columbus, Ohio. Safety-valve	715,707	Dec. 9	1994	447	101	2261
Tipping, Thomas, Ashton-upon-Ribble, and E. Fletcher, assignors to W. L. Holland, Preston, England. Apparatus for the stoppage of water from automatic sprinkler-heads after fires or accidents	700,100	May 13	1870	435	99	1572
Tipton, Cornelius T., Elizabethton, Tenn. Computing-scale	704,698	July 15	2490	523	100	522
Tipton, Osborn, Carlton, Victoria, Australia. Seed-planter and fertilizer-distributor	717,473	Dec. 30	5569	1209	101	8075
Tirard, Clement M., Paris, France. Hat-pounding machine	691,018	Jan. 14	1237	279	98	273
Tirrell, Leonard A., Lynn, Mass., assignor to General Electric Company. Controller for electric motors	708,096	Sept. 2	175	41, 42	100	2017



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Tirrill, Leonard A., Lynn, Mass., assignor to General Electric Company. Speed-limiting device for series motors.	717,303	Dec. 30	5266	1143	101	1314
Tirrill, Whitcome. (See Lafo and Tirrill.)						
Tischer, Alexander, Chicago, Ill. Elevator safety device.	718,718	Nov. 18	2431	543 544	101	1428
Tischler, John. (See Czermak and Tischler.)						
Tislow, Hovey H., assignor of one-half to P. K. Heuring, Petersburg, Ind. Safe-door lock.	707,655	Aug. 26	3198	716	100	1825
Titcomb, George E., Cleveland, Ohio. Vessel-holding device.	712,215	Oct. 28	3507	769 770	101	772
Titcomb, George E., assignor of one-half to McMyler Manufacturing Company, Cleveland, Ohio. Hoisting and conveying apparatus.	695,592	Mar. 18	2362	535 536	98	2243
Titcomb, George E., assignor of one-half to McMyler Mfg. Co., Cleveland, Ohio. Cable-carrier for conveying and hoisting machines.	711,137	Oct. 14	1409	304	101	308
Titworth, Dock L. M., Rosenberg, Tex. Fence.	691,504	Jan. 21	2157	305 508	98	484
Titworth, Richard. (See Keller and Titworth.)						
Tittle, Horatio S., assignor of five-sixths to F. F. Wear, A. Gunzendorfer, and W. Barker, Los Angeles, Cal. Electrical indicator.	709,806	Sept. 23	3494	788	100	2745
Titus, Albert B., Bloomfield, Ind. Bicycle.	701,967	June 10	1224	279	99	2380
Titus, G. M., et al. (See Boos, Joseph B., assignor.)						
Titus, Ivor R. (See Minier, Peter G., assignor.)						
Titus, John, Oyster Bay, and W. Titus, Old Westbury, N. Y. Apparatus for cooling and ventilating.	690,485	Jan. 7	211	42	98	46
Titus, John, Oyster Bay, and W. Titus, Old Westbury, N. Y. Ventilating apparatus.	699,352	May 6	423	96	99	1260
Titus, John, T. W. Burr, and D. D. Smith, Oyster Bay, N. Y., assignors to Oyster Bay Engine Company. Reversing apparatus for propeller-shafts.	691,300	Jan. 14	1743	396	98	378
Titus, John C., Marion, Ohio. Combined carburetor and gasoline-regulator.	693,462	Feb. 18	2357	516	98	1330
Titus, Richard G., assignor to J. Dietz, Erie, Pa. Shear-spring.	715,708	Dec. 9	1996	447	101	2261
Titus, Silas W., Brooklyn, assignor to Pneumatic Engineering Company, New York, N. Y. Apparatus for rotating tubing or similar objects.	702,509	June 17	2232	509	99	2605
Titus, William. (See Titus, John and W.)						
Titzel, James C. (See Titzel, John A., Sr., assignor.)						
Titzel, John A., Sr., Franklin, assignor of one-third to J. C. Titzel, Glenshaw, Pa. Electric motor or generator.	710,541	Oct. 7	284	63	101	58
Tkatsch, Akim. (See Julius and Tkatsch.)						
Toak, John A., assignor of one-half to P. Leary, Clancy, Mont. Pressure-retaining valve for air-brakes.	697,694	Apr. 15	2447	545	99	549
Toback, Leopold, Union Hill, N. J., assignor to Water Overflow Preventive Company of New York. Valve-lock.	691,986	Jan. 28	3060	687	98	687
Tobey, Franklin O., Somerville, Mass., assignor, by mesne assignments, to United Shoe Machinery Company. Nail-controlling mechanism for nailing-machines.	712,866	Nov. 4	754	175	101	1063
Tobey, Fred W., assignor to Globe-Wernicke Company, Cincinnati, Ohio. Perforator.	693,082	Feb. 11	1594	347 348	98	1153
Tobey, Fred W., assignor to Globe-Wernicke Company, Cincinnati, Ohio. Door-operating device.	693,675	Feb. 18	2773	610	98	1416
Tobey, Fred W., assignor to Globe-Wernicke Company, Cincinnati, Ohio. Letter-file.	716,148	Dec. 16	2904	639	101	2474
Tobey, Fred W., Cincinnati, Ohio, assignor to Shaw-Walker Company, Muskegon, Mich. Card-filing case.	711,447	Oct. 14	2010	435	101	433
Tobey Furniture Company. (See Clingan, George F., assignor.)						
Tobey, Harry C., Salina, Kans. Paper-feeding machine for type-writers.	706,282	Aug. 5	566	122	100	1230
Tobey, William L., Winthrop, Mass. Boiler-feed for motor-vehicles.	693,190	Feb. 11	1648	400	98	1203
Tobias, Charles J. (See Tobias, John L. and C. J.)						
Tobias, John L. and C. J., Chicago, Ill. Exhaust-pipe muffler for gas or other engines.	713,536	Nov. 11	2002	468	101	1343
Todd, C. H. (See Gardner, Charles, assignor.)						
Todd, Cyrus W., Orwell, Vt. Ax-helve grip.	693,463	Feb. 18	2358	516	98	1331
Todd, Edward, Jr., New York, N. Y. Cigar-piercer.	703,102	June 24	3485	801	99	2876
Todd, George M., assignor to New Domestic Sewing Machine Company, Newark, N. J. Feeding mechanism for sewing-machines.	690,680	Jan. 7	535	129	98	127
Todd, George W., Elmwood, assignor of one-third to H. P. Jensen, Omaha, Nebr. Rubber-dam holder.	710,306	Sept. 30	4168	1008	100	2964
Todd, Harry M., et al. (See Dugins, William F., assignor.)						
Todd, Henry. (See Blizzard and Todd.)						
Todd, Henry B., Meriden, Conn. Static electric machine.	692,737	Feb. 4	912	208	98	985
Todd, J. M., et al. (See Turner and Mitchell, assignors.)						
Todd, James W., Onaburg, Ohio. Fence-post.	704,963	July 15	3069	665	100	659
Todd, Marquis J., Buffalo, N. Y. Cultivator.	700,579	May 20	2854	655 656	99	1704
Todd, Marquis J., assignor to Buffalo Pitts Company, Buffalo, N. Y. Lever mechanism.	709,807	Sept. 23	3497	788	100	2746
Todd, William P. (See Wick, John, assignor.)						
Toedt, Frederick W., Hamburg, Iowa. Compound explosive-engine.	691,083	Jan. 14	1343	304	98	295
Toedt, Frederick W., Hamburg, Iowa. Compound explosive-engine.	691,084	Jan. 14	1346	304	98	295
Toepel, Michael E. (See Widmayer, Toepel, and Potdevin.)						
Toepfer, Peter G., Milwaukee, Wis. Malt-kiln.	704,597	July 15	2305	501	100	497
Tognarini, Domenico, Cecina, Italy. Bottle for aerated liquids.	701,968	June 10	1225	279	99	2380
Toklas, Jacob W. (See Miner, William C., assignor.)						
Toledo Asphalt Patcher Company. (See Merriman, George and H., assignors.)						
Toledo Glass Co. (See Colburn, Leslie H., assignor.)						
Toledo Scale and Cash Register Company. (See De Vilbiss, Allen, Jr., assignor.) (Re-issue.)						
Toler, Edward W., Kansas City, Mo. Shelf-tongs.	703,163	June 24	3486	802	99	2876
Toler, George W., Greenville, Ark. Cultivator.	715,178	Dec. 2	1006	218	101	2042
Tolhurst, Charles H. and A. G. Goldthwait, assignors to W. H. Tolhurst & Son, Troy, N. Y. Making laundry starch.	707,985	Aug. 26	3861	867 868	100	1956
Tolhurst, Charles H. and A. G. Goldthwait, assignors to W. H. Tolhurst & Son, Troy, N. Y. Apparatus for treating starch.	707,986	Aug. 26	3863	868	100	1957
Tolhurst & Son, William H. (See Tolhurst and Goldthwait, assignors.)						
Toline, Martin A. (See Bishop and Toline.)						
Tolles, Charles L., Eau Claire, Wis. Snow-plow.	698,873	Apr. 29	4736	1043 1044	99	1073
Tolles, Cornelius, Peoria, Ill. Spindle-bearing for axles.	716,496	Dec. 23	3397	785	101	2633
Tolman, Charles. (See Freymann and Tolman.)						
Tolman, Edwin C. (See Taylor and Tolman.)						
Tolman, George S., Winthrop, and G. K. Jones, Somerville, Mass.; said Jones assignor to said Tolman. Atomizer.	717,474	Dec. 30	5572	1209	101	3076
Tolmie, Robert C., assignor to Lobdell Car Wheel Company, Wilmington, Del. Flask for sand molds.	701,105	May 27	3872	889	99	3025
Tolpa, James N., Lowell, Mass. Photographic developing-tray.	716,598	Dec. 23	3820	829	101	2681

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Toltz, Max, St. Paul, Minn., and A. Lipschutz, St. Louis, Mo. Locomotive ash-pan .....	695,968	Mar. 25	3032	687 688	98	2392
Toltz, Max, and L. W. Hill, St. Paul, Minn. Railway-car .....	696,150	Mar. 25	3430	769 770	98	2476
Toltz, Max, and A. Lipschutz, St. Paul, Minn.: said Lipschutz assignor to said Toltz. Gas-distributing system .....	699,725	May 13	1145	268	99	1423
Tombling, George M. (See Brown, James A., assignor.) .....						
Tomek, Anton, St. Louis, Mo. Clock striking mechanism .....	700,456	May 20	2627	601	99	1748
Tomlinson, Clarence L. (See Ruef and Tomlinson.) .....						
Tomlinson, John. (See Lomax and Tomlinson.) .....						
Tomlinson, Thomas, Bray, Ireland. Apparatus for the vaporization, combustion, and utilization of hydrocarbon oils .....	690,486	Jan. 7	213	42, 43	98	47
Tommasina, Thomas, assignor to P. Galopin, Geneva, Switzerland. Telephonic receiver for wireless signal apparatus .....	700,161	May 13	3015	461	99	1600
Tompkins, Ernest Troy, N. Y. Sink-er-bur holder .....	714,064	Nov. 18	3112	688	101	1572
Tompkins, Harry S., Newark, N. J. Burner for lamps .....	693,464	Feb. 18	2360	517	98	1331
Tompkins, Ira A. (See Stewart, Burton A., assignor.) .....						
Tomson & Company, P. C. (See Lockwood, Edward M., Jr., assignor.) .....						
Tone, Frank J., assignor to Carborundum Company, Niagara Falls, N. Y. Manufacture of iron and steel .....	708,941	Sept. 9	1741		100	2350
Tone, Frank J., assignor to Carborundum Company, Niagara Falls, N. Y. Carborundum articles and making same .....	709,808	Sept. 23	3498		100	2746
Toner, Joseph, Pittsburg, Pa. Car-brake .....	711,084	Oct. 14	1325	286	101	238
Tongue Lock Sewing Machine Company. (See Keith, Thomas K., assignor.) .....						
Tönjes, Carl, Delmenhorst, Germany. Apparatus for producing color patterns in linoleum or like materials .....	693,759	Feb. 18	2921	642	98	1446
Tonnar, Felix, Dülken, Germany. Pile-fabric loom .....	716,352	Dec. 16	3301	720	101	2555
Tonnesen, Tonnes, and I. Carlson, Chicago, Ill. Mounting of piano-keys .....	705,021	June 24	3202	737	99	2823
Toof, Mary J. (See Elder, Horace W., assignor.) .....						
Tooker, William W., et al. (See Cook, Howard, assignor.) .....						
Toole, Augustus H., assignor of one-half to C. A. Burton, Chicago, Ill. Paper sheet .....	696,281	Mar. 25	3668	820	98	2324
Toole, Michael L., et al. (See Birtels, John M., assignor.) .....						
Toomey, John A., Goshen, Ind. Automatic telegraphic transmitter .....	702,263	June 10	1758	401	99	2487
Topeka Tent and Awning Company. (See Anton, Paul R., assignor.) .....						
Topham, Charles F., Kev., assignor to J. Y. Johnson, London County, England. Apparatus for use in the production of textile fibers or filaments from solutions of cellulose or other material from which fibers or filaments can be formed and for twisting and putting into coil form such or other fibers or filaments .....	702,382	June 10	1970	449 450	99	2530
Topliff, Willis W., Deweys, Mont. Detachable sleigh-runner .....	703,856	July 1	888	195	100	178
Topliff, Willis W., assignor of one-half to A. F. Cline, Dewey, Mont. Washtub stand or holder .....	698,422	Apr. 22	3791	837	99	852
Torbensen, Viggo V., Bloomfield, N. J. Changeable-speed gearing .....	695,894	Mar. 18	2900	658	98	2353
Torbensen, Viggo V., Bloomfield, N. J. Motor-vehicle .....	695,895	Mar. 18	2902	658	98	2353
Torchiani, Harry, Brooklyn, N. Y. Apparatus for racking off beer .....	708,942	Sept. 9	1742	403	100	2350
Torchiani, Harry, Brooklyn, N. Y. Apparatus for racking off beer .....	716,962	Dec. 30	4612	999	101	2872
Torkelson, Reinhard T., Warren, Mass. Ejector mechanism for firearms .....	715,903	Dec. 16	2416	535	101	2371
Torley, Heinrich, assignor to B. Scheck, Ober Kaufungen, near Cassel, Germany. Corset-stiffener .....	709,565	Sept. 23	3050	679	100	2654
Tornell, Reinhold V. (See Sjøo and Tornell.) .....						
Toronto Roller Bearing Company. (See Henderson, Albert E., assignor.) .....						
Torrent, John, Muskegon, Mich. Vehicle .....	700,580	May 20	2859	656	99	1796
Torrey, Augustus. (See Susemihl and Torrey.) .....						
Torrey & Co., J. R. (See Britton, William O., assignor.) .....						
Torrey, Earl G., assignor of one-half to W. C. Beddow, Washington, D. C. Lock-up for printers' forms .....	707,987	Aug. 26	3865	868	100	1957
Torrey, Levi F., Buffalo, N. Y. Thill-coupling .....	717,056	Dec. 30	4796	1039	101	2913
Torrillas, Charles, assignor of two-thirds to R. R. Foote and W. Van Fleet, Bartow, Fla. Press-standard .....	710,632	Oct. 7	454	94, 95	101	91
Tosch, William F., Cobden, Minn. Engine .....	715,709	Dec. 9	1997	447	101	2361
Tossizza, Constantin J., Paris, France. Electrometallurgical treatment of zinc ores and especially blende .....	708,857	July 1	889		100	178
Tossizza, Constantin J., Paris, France. Electrometallurgic treatment of ores of copper or other metals .....	710,346	Sept. 30	4537		100	2979
Totham, James, assignor to Peck Bros. & Co., New Haven, Conn. Washbasin .....	711,238	Oct. 14	1629	351	101	353
Tothill, William S., Chicago, Ill. Swing .....	710,633	Oct. 7	455	95	101	91
Totman, Charles B., Minneapolis, Minn. Extension-ladder .....	697,244	Apr. 8	1699	380	99	382
Totman, George B. (See Moore and Totman.) .....						
Totman, William F., assignor of one-half to L. M. Denman and S. B. Burwell, Cincinnati, Ohio. Sales-register .....	713,926	Nov. 18	2835	630	101	1514
Tourgon, Joseph B., Bagnols-sur-Cèze, France. Tire for vehicles .....	693,083	Feb. 11	1595	348	98	1154
Tournier, Julius C., Schenectady, N. Y., assignor to General Electric Company. Lamp-socket .....	690,487	Jan. 7	216	43	98	47
Tourtellier, Adolphe, Mulhausen, Germany. Attachment for warp-beams .....	714,836	Dec. 2	379	81	101	1911
Tove, Riven, South Norwalk, Conn. Window bracket or step .....	698,762	Apr. 29	4465	991	99	1015
Tovey, Albert, Cardiff, England. Candle stick or holder .....	712,216	Oct. 28	3509	770	101	773
Tower, Albert B., Rockwell, Fla. Shaft-coupling .....	700,457	May 20	2629	602	99	1748
Tower, Clinton A., assignor to National Malleable Castings Company, Cleveland, Ohio. Car-coupling .....	708,681	Sept. 9	1222	280	100	2240
Tower, Daniel W., Grand Rapids, Mich. Latch .....	708,097	Sept. 2	178	42	100	2018
Tower, Daniel W., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Combined latch and lock .....	708,975	July 1	1116	241	100	221
Tower, Isaac N., Meeker, La. Car-coupling .....	712,980	Nov. 4	968	225 226	101	1095
Tower, John J. (See Converse, Maschil D., assignor.) .....						
Tower, William G., assignor of one-half to G. M. D. Southworth, Corona, Cal. Hand-truck .....	713,719	Nov. 18	2433	544	101	1429
Towers, Charles B., Miles City, and W. A. Cameron, Stacey, Mont. Copy-holder .....	716,790	Dec. 23	4161	912	101	2752
Towers, James H., assignor to P. & F. Corbin, New Britain, Conn. Fire-hose shut-off .....	698,574	Apr. 23	4739	1044	99	1073
Towers, William, New Britain, Conn. Brick-edger .....	694,130	Feb. 25	3633	803	98	1608
Towers, William, Murphysboro, Ill. Cage for mining-cars .....	714,262	Nov. 25	3519	774	101	1675
Towers, William M. (See Harrington and Towers.) .....						
Towgood, Edward T., Wanganui, New Zealand. Tobacco-pipe .....	712,867	Nov. 4	755	175	101	1053
Towle, Felix S., Hackensack, N. J. Copy-holder .....	694,446	Mar. 4	210	46	98	1757
Towle Manufacturing Company. (See Stickney, Caleb, assignor.) .....						
Towle Manufacturing Company. (See Walker, William H., assignor.) .....						
Towler, Thomas B. (See Knibb and Towler.) .....						
Towne, Albert L., and E. F. Clough, Fresno, Cal. Acetylene-gas generator .....	692,738	Feb. 4	914	209	98	985



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Towne, Anna E. (See Towne, Frank W., assignor.)						
Towne, Frank W., assignor to A. E. Towne, Bennington, Vt. Mop-wringer.....	697,223	Apr. 8	1572	352	99	353
Towner, Arthur J., Santa Ana, Cal. Snap-hook.....	700,581	May 20	2860	657	99	1796
Townsend, David, I. D., and G. B., Orangeville, Mich. Combined portable engine and sawing-machine.....	714,837	Feb. 2	380	81	101	1911
Townsend, David C., New York, N. Y. Diamond.....	693,084	Dec. 11	1556	348	98	1154
Townsend, Emory L., Los Angeles, Cal. Dental impression-tray.....	699,776	May 13	1532	240	99	1445
Townsend, Emory L., Los Angeles, Cal. Dental bridgework.....	713,040	Nov. 4	1071	240	101	1115
Townsend, Emory L., Los Angeles, Cal. Dental band-fitting instrument.....	715,041	Nov. 4	1072	250	101	1115
Townsend, George B. (See Townsend, David, I. D., and G. B.)						
Townsend, George E., Springfield, Ohio. Steam-roller.....	714,762	Dec. 2	320	43, 44	101	1881
Townsend, Henry C., et al., trustees. (See Woods, Granville T. and L., assignors.)						
Townsend, Ira D. (See Townsend, David, I. D., and G. B.)						
Toy, Elias L., Akron, assignor to Alden Rubber Co., Barborton, Ohio. Box for packing rings or analogous articles.....	711,024	Oct. 14	1191	262	101	262
Trabue, Luther, Girard, Ill., assignor to Ohio Hay Press Company, Bellevue, Ohio. Baling-press.....	704,718	July 15	2502	541	100	539
Tractor Truck and General Power Co. (See Hunter, Rudolph M., assignor.)						
Tracy, Charles H., Berkeley, and F. C. Gould, Alameda, Cal. Attachment for letter-boxes.....	702,510	June 17	2235	509	99	2006
Tracy, Harriet R., London, England. Shuttle for sewing-machines.....	704,406	July 8	1938	419	100	408
Tracy, Harriet R., New Brighton, N. Y., assignor by mesne assignments, to J. E. Tracy, Plainfield, N. J. Loop-taking mechanism for sewing-machines.....	697,184	Apr. 8	1499	335	99	338
Tracy, Henry A., assignor of one-half to L. J. Roberts, Waterbury, Vt. Saw-tooth holder.....	716,963	Dec. 30	4614	1000	101	2873
Tracy, James, and W. A. Bollinger, assignors to Sterling Automatic Instantaneous Water Heater Co., Allegheny, Pa. Valve-controlling mechanism for automatic water-heaters.....	700,387	May 20	2506	574	99	1721
Tracy, James W. (See Dunlap and Tracy.)						
Tracy, Jeremiah E. (See Tracy, Harriet R., assignor.)						
Tracy Manufacturing Company. (See Turk, Frederick M., assignor.)						
Traeger, Henry, Auburn, Wash. Joiner for plows.....	696,370	Mar. 25	3886	862	98	2567
Trafford, Joseph, Boston, Mass. Champagne-freezer.....	714,415	Nov. 25	3795	838	101	1730
Trafton, Mathew E., Los Angeles, Cal. Step-ladder.....	716,149	Dec. 16	2905	639	101	2474
Trainer, Joseph. (See McHale and Trainer.)						
Trainer, Hughie J., Jersey City, N. J. Kite.....	701,106	May 27	3874	890	99	2025
Tralls, Leberecht, Charlottenburg, assignor to E. Burmeister, Hamburg, Germany. Purifying sewage.....	693,316	Feb. 11	2070	.....	98	1250
Tramblay, Felix, Chicago, Ill. Cabinet for bookcases, letter-files, &c.....	710,086	Sept. 30	4054	913	100	2875
Tramblay, Felix, Chicago, Ill. Letter-file.....	712,217	Oct. 28	5510	770	101	773
Tramblay, Felix, Chicago, Ill. Document-file.....	713,363	Nov. 11	1753	395	101	1273
Tramblay, Felix, Chicago, Ill. File-box.....	715,710	Dec. 9	1998	448	101	2301
Trammel, John W., et al. (See Webber, Frank I., assignor.)						
Trammell, George W., and W. McDuffie, Rome, Ga. Drier.....	690,796	Jan. 7	829	183	98	175
Transfer Tube Company. (See Jones, Francis W., assignor.)						
Transparent Cellulose Products Company. (See Faval, Leon, assignor.)						
Tranter, William J., Tipton, England. Brush-handle holder.....	692,739	Feb. 4	916	209	98	986
Trapp, Samuel M., San Diego, Cal. Oil-burner.....	709,941	Sept. 30	3775	852	100	2916
Trapp, Susanna B., New York, N. Y. Safety appliance for elevators.....	700,458	May 20	2631	603	99	1748
Traub, George C., Philadelphia, Pa. Bridle for paint-brushes.....	700,263	May 20	2248	513	99	1672
Traubel, Salomon, assignor to Hanseatische Acetylen-Gasindustrie Aktiengesellschaft, Hamburg, Germany. Gas-burner.....	716,964	Dec. 30	4615	1000	101	2873
Traut, Frank L. (See Traut, Justus A. and F. L.)						
Traut, Frank L., New Britain, Conn. Joint for foldable rules or similar devices.....	713,255	Nov. 11	1510	342	101	1221
Traut, George W., New Britain, Conn., assignor to United States Fastener Company, Boston, Mass. Separable fastener.....	712,622	Nov. 4	307	72	101	963
Traut, Justus A. (See Bodmer, Christian, assignor.)						
Traut, Justus A., New Britain, Conn. Spirit-level.....	703,678	July 1	562	126	100	111
Traut, Justus A., New Britain, Conn. Plane.....	706,704	Aug. 12	1351	301	100	1408
Traut, Justus A., New Britain, Conn. Grooving-plane.....	707,281	Aug. 19	2453	550	100	1055
Traut, Justus A., New Britain, Conn. Rule.....	711,547	Oct. 21	2320	483	101	491
Traut, Justus A., assignor to Stanley Rule & Level Company, New Britain, Conn. Bench-plane.....	710,542	Oct. 7	287	64	101	58
Traut, Justus A., assignor to Stanley Rule & Level Company, New Britain, Conn. Gage.....	713,179	Nov. 11	1360	305	101	1192
Traut, Justus A. and F. L., New Britain, Conn. Measuring-rule.....	710,150	Dec. 16	2906	640	101	2475
Traut, Justus A., and H. S. Walter, assignors to Stanley Rule and Level Company, New Britain, Conn. Plane-iron cap.....	707,368	Aug. 19	2604	589	100	1686
Traver, Jay E., assignor to Goodyear's Metallic Rubber Shoe Company and Goodyear's India Rubber Glove Manufacturing Company, Naugatuck, Conn. Fastener.....	707,369	Aug. 19	2605	589	100	1686
Travers, Walter H. (See Winstanley, David W., assignor.)						
Travis, James, Cascade, Mont. Dancing toy.....	711,548	Oct. 21	2322	483	101	491
Travis, John J., assignor of one-half to J. Grether, Akron, Ohio. Fly-escape for screens.....	715,440	Dec. 9	1491	321	101	2160
Travis, John W., Readand, and H. A. Denny, Medical Lake, Wash. Vehicle-reach.....	697,224	Apr. 8	1573	352	99	353
Travis, William, Ludington, assignor of two-thirds to A. J. Carson, Kalamazoo, Mich. Machine for repairing saws.....	705,720	July 29	4655	1009	100	1001
Traxton, William A., New York, N. Y. Filtering-faucet.....	711,868	Nov. 4	756	176	101	1033
Traylor, Bruce W., Denver, Colo. Concentrator.....	695,969	Mar. 25	3035	688	98	2393
Treadway, Paca H., Dardanelle, Ark. Apparatus for preserving eggs.....	694,501	Mar. 4	296	68	98	1775
Treadwell, Cornelia E., Fort McKavett, Tex. Safety-clamp.....	713,537	Nov. 11	2303	468	101	1343
Treadwell, Lee, Portsmouth, N. H. Machine for delivering comminuted solids.....	698,465	Feb. 18	2361	517	98	1331
Treas, Henry, Delight, Ark. Self-opening pocket-knife.....	698,080	Apr. 22	3147	692	99	717
Treat, Clark R. (See Cross, Albert N., assignor.)						
Treat, Francis H., Pittsburg, Pa. Cover mechanism for pit-furnaces.....	708,322	June 24	8748	862	99	2929
Treat, Francis H., Pittsburg, Pa. Regenerative furnace.....	705,978	July 29	5106	1113	100	1093
Treat, Francis H., Pittsburg, Pa. Unloading apparatus.....	710,224	Sept. 30	4324	974	100	2986
Treat, John J., New Britain, Conn. Lock.....	697,568	Apr. 15	2905	491	99	501
Trees, Eber B., Woodstock, Canada, assignor to Portland Engine Company, Portland, Oreg. Reel engine.....	711,239	Oct. 14	1631	351	101	354
Treece, William C. (See Abbott, Nathan M., assignor.)						
Treen, Sidney R., Chicago, Ill. Gas-burner.....	703,625	July 1	450	103	100	88
Treen, William H., Lynn, Mass. Perforating-machine.....	701,107	May 27	3874	890	99	2025
Treglowan, William M., Sr., New York, N. Y. Wrench.....	701,108	May 27	3877	891	99	2026
Tregoning, Charles D. (See McDonald and Tregoning.)						
Treichel, Gustave W., Chestnut Hill, Pa. Puzzle.....	692,559	Feb. 4	605	142	98	921
Treichel, Gustave W., Philadelphia, Pa. Oven-swab.....	705,979	July 29	5108	1114	100	1094

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Treichler, Daniel H., Niagara Falls, N. Y. Acetylene-gas generator.....	702,604	June 17	2413	551	99	2642
Treinis, Samuel, New York, N. Y. Punching-bag platform.....	706,866	Aug. 12	1679	376	100	1477
Tremblay, Honore. (See Leclerc, Tremblay, and Lalumière.).....						
Tremblay, Hormidas, Southbridge, Mass. Watchmaker's eye-glass.....	706,364	Aug. 5	712	155	100	1260
Tremblay, Joseph, assignor to Tremblay & Lymburner, St. Cune-gonde, Canada. Valve.....	694,502	Mar. 4	297	68, 69	98	1775
Tremblay & Lymburner. (See Tremblay, Joseph, assignor.).....						
Trenchard, Henry, Jr., Brooklyn, N. Y. Paper-fastener.....	700,104	May 13	1871	436	99	1572
Trenholm, Harry A., assignor to C. G. Page, Chicago, Ill. Cigar-tray.....	699,259	May 6	240	56	99	1223
Trenholme, Thomas A. (See Threthewey, William G., assignor.).....						
Terrie, Josiah H., Butte, Mont. Miner's pocket-transit.....	712,869	Nov. 4	758	176	101	1053
Trescott, Charles B., Portland, Oreg. Curing food products.....	710,125	Sept. 30	4140	934	100	2853
Tresenreuter, Gustav, Berlin, Germany. Incandescent gas-lamp.....	707,185	Aug. 19	2273	509	100	1617
Tresenreuter, Gustav, Berlin, Germany. Revolver.....	710,821	Oct. 7	820	177	101	168
Tresenreuter, Gustav, assignor to Firm of Arth and Fricke, Berlin, Germany. Regulat- ing device for gas or vapor stoves.....	691,019	Jan. 14	1239	280	98	273
Tressell, Lotta M., Canton, Ohio. Skein-holder.....	710,126	Sept. 30	4143	935	100	2853
Tretbar, Edward F., Camden, N. J. Printing-block for oil-cloth-printing machines.....	698,587	Apr. 29	4077	901	99	1254
Trethewey, Samuel, Pittsburgh, Pa. Piston.....	693,085	Feb. 11	1597	348	98	1164
Trethewey, William G., Vancouver, assignor of one-half to T. A. Trenholme, Montreal, Canada. Automatic train-pipe coupling.....	707,988	Aug. 26	3868	869	100	1958
Tretsven, Adolph, Milltown, Wis. Floor clamp or jack.....	710,169	Sept. 30	4227	953	100	2911
Trevelthan, John, Berkeley, Cal. Folding satchel.....	711,802	Oct. 21	2707	596	101	594
Trevette Machine Company. (See Trevette, Wentworth G., assignor.).....						
Trevette, Wentworth G., assignor to Trevette Machine Company, Chicago, Ill. Sewed signature.....	697,043	Apr. 8	1262	281	99	285
Trevithick, Frederick H., Cairo, Egypt. Heating feed-water.....	699,777	May 13	1253	291	99	1445
Trevor, Francis N. (See Trevor, William W. and F. N.).....						
Trevor, William W. and F. N., Lockport, N. Y. Sawing-machine.....	696,119	Mar. 25	3351	756	98	2460
Trehwhitt, Paul W. (See Pickard, Frank H., assignor.).....						
Triance, John C., Rochester, assignor of two-thirds to M. J. Fentzel and J. A. Dockter, Tarentum, Pa. Glass-melting machine.....	709,727	Sept. 23	3324	748	100	2711
Tricart, Alexis. (See Babé and Tricart.).....						
Trillat, Jean J. A., Paris, France, assignor, by mesne assignments, to Fries Bros., New York, N. Y. Composition for the production of vapors of formic aldehyde.....	704,490	July 8	2104	-----	100	442
Trimpi, August H., East Orange, N. J. Display article.....	714,975	Dec. 2	659	138	101	1967
Trinks, Franz, Braunschweig, Germany. Speed-controller.....	699,040	Apr. 29	5019	1110	99	1132
Tripp, Bradford H., assignor of one-half to F. S. Barnes and B. Radcliffe, Marcus, Iowa. Rail-joint.....	697,569	Apr. 15	2207	491	99	501
Tripp, Chrestus A. (See Sauvage, William H., assignor.).....						
Tripp, Darius N., assignor of one-half to J. N. Neal, Coldwater, Mich. Wheel attachment for plows.....	701,233	May 27	4100	944	99	2072
Tripp, Freeman L., Ellensburg, Wash. Linoleum-cutter.....	697,902	Apr. 15	2813	622	99	630
Tripp, Herman, and G. E. Stephenson, Chicago, Ill. Electric-light sign.....	696,775	Apr. 1	725	164	99	155
Tripp, Jacob W., New York, N. Y., assignor to H. B. Newhall, Plainfield, N. J. Catch for fire-doors.....	696,214	Mar. 25	3548	793, 794	98	2499
Tripp, Jacob W., New York, N. Y., assignor to H. B. Newhall, Plainfield, N. J. Door- closing apparatus.....	704,984	July 15	3090	665	100	659
Tripp, Seth D., deceased; T. N. Tripp, Lynn, Mass., administrator, assignor, by mesne assignments, to said T. N. Tripp. Edge-finishing machine.....	701,425	June 3	252	57	99	2160
Tripp, Thaxter N., administrator. (See Tripp, Seth D.).....						
Tritschler, John M. (See Pezway and Tritschler.).....						
Tritt, Edward C. (See Lambert, Charles M., assignor.).....						
Trivett, Louis O., and F. Randall, Nottingham, England; said Randall assignor to said Trivett. Chenille-spotting machine.....	709,587	Sept. 23	3085	687, 688	100	2662
Trivick, Sidney, Clapham Common, England. Treatment of gold and silver ores.....	706,365	Aug. 5	713	-----	100	1261
Trochain, Eugène, Paris, France, assignor to Vickers Sons & Maxim, Limited, London, England. Ammunition-hoist for ordnance.....	704,985	July 15	3093	665, 666	100	659
Trolley, Isaac, Cranham, England, assignor to Plano Manufacturing Company, Chi- cago, Ill. Deck for grain-binders.....	696,151	Mar. 25	3432	770	98	2477
Tromanhauser, Seneca H., Minneapolis, Minn. Elevator or storage-house construction.....	702,118	June 10	1509	340, 341	99	2436
Tromanhauser, Seneca H., Minneapolis, Minn. Brick for storage-bin construction.....	702,119	June 10	1511	341	99	2437
Trooien, Cornelius N., Hendricks, Minn. Animal-poke.....	705,162	July 22	3453	752	100	748
Trooien, Cornelius N., Hendricks, Minn. Draft-equalizer.....	705,163	July 22	3454	752	100	749
Troschke, Hans U., von Hanover, Germany. Cycle-rest.....	709,588	Sept. 23	3089	688	100	2663
Trott, John R., and S. H. Sutphin, Yrden, Ill. Car-starter.....	714,623	Nov. 25	4184	925	101	1807
Trotter, Charles A., Apunake, New Zealand. Range-finder.....	714,263	Nov. 25	3522	775	101	1677
Trotz, Johan O. E. (See Daniels, Marshall, and Trotz.).....						
Trotz, Johan O. E., Worcester, Mass. Apparatus for casting ingots in continuous long lengths.....	705,721	July 29	4657	1010	100	1002
TROUTMAN, Wilkes E., Pittsburgh, Pa. Rotary engine.....	715,904	Dec. 16	2418	335	101	2372
TROUTNER, William D., Pittsfield, Ill., assignor to Cleveland Target Company, Cleveland, Ohio. Magazine repeating-target trap.....	715,179	Dec. 2	1009	218, 219	101	2042
Troutwine, John L., et al. (See Rush, Stephen P., assignor.).....						
Trouvé, Gustave, Paris, France. Apparatus for the production of flat helices, helical springs, flexible helical shafts, or the like.....	715,180	Dec. 2	1014	219, 220	101	2043
Trowbridge, Frank C. (See Passage, Hiram H., assignor.).....						
Trowbridge, William M., et al. (See Smith, Charles W., assignor.).....						
Troxler, Gustavus, Jr., assignor to C. F. Paulus, Newark, N. J. Pistol.....	707,036	Aug. 12	1971	442	100	1536
Troxler, Laurence E., assignor of one-half to C. G., Jr., and O. H. Schaefer, Louisville, Ky. Rotary motor.....	695,896	Mar. 18	2904	658, 659	98	2353
Troy Bending Company. (See Conrad, George W., assignor.).....						
Troy Carriage Sun Shade Company. (See Stouder, Augustus G., assignor.).....						
Troy, Matthew O., Lynn, Mass., assignor to General Electric Company. Thermal cut-out.....	712,107	Oct. 28	3315	727	101	734
Troy, Matthew O., Lynn, Mass., assignor to General Electric Company. System of elec- trical distribution.....	713,720	Nov. 18	2435	544	101	1429
Troy, Matthew O., Lynn, Mass., assignor to General Electric Company. System of elec- trical distribution.....	713,721	Nov. 18	2437	544	101	1429
Troy, Matthew O., Lynn, Mass., assignor to General Electric Company. System of elec- trical distribution.....	714,118	Nov. 18	3207	708	101	1594
Troy, Matthew O., Lynn, Mass., assignor to General Electric Company. System of elec- trical distribution.....	714,119	Nov. 18	3209	708	101	1595
Truax, Charles, Chicago, Ill. Nebulizer.....	707,282	Aug. 19	2457	551	100	1656
Truax, Elizabeth H., Chicago, Ill. Heating attachment for lamps or gas-burners.....	699,938	May 13	1584	363	99	1515
Truax, George E., Denver Colo. Draw-bar for ore-cars.....	693,810	Feb. 18	3009	666	98	1464
Trudelle, Benjamin C., Bay City, Mich. Winter-velocipede.....	691,826	Jan. 28	2782	625	98	630



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True, Anos T., Strong, Me. Machine for making skewers	691,987	Jan. 28	3062	1 687 1 688 1 491	98	687
True, David, Amesbury, Mass. Spring-gear for vehicles	697,570	Apr. 15	2208	1 492	99	501
True, George H., East Oakland, Cal. Ink-well	705,485	July 22	4143	901	100	887
Trueblood, Samuel L., Kenova, assignor of three-eighths to G. McDonald and J. T. Ingram, Parkersburg, W. Va. Car-coupling	717,475	Dec. 30	5573	1210	101	3076
Truesdell, Arthur E., Pittsfield, Mass. Electrolytic cell	712,318	Oct. 28	3513	770	101	774
Truesdell, Henry, Toronto, Canada. Grate-bar	702,891	June 17	2946	679	99	2753
Trufant, Walter E., Whitman, Mass. Automobile	686,660	Apr. 1	496	115	99	108
Truffault, Jules M., Paris, France, assignor of fifty-one one-hundredths to E. V. Hartford, Orange, N. J. Frictional retarding means for spring vehicles	695,508	Mar. 18	2182	1 492 1 493	98	2205
Truitt, Charles A., Chincoteague Island, Va. Ladder-iron	696,848	Apr. 1	850	196	99	179
Trumbull, Rollin H., Chicago, Ill. Interchangeable panoramic camera	691,020	Jan. 14	1240	1 280 1 281	98	274
Trumbull, Rollin H., Chicago, Ill. Roll-holding camera	700,264	May 20	2949	519	99	1672
Trump, Edward H., Syracuse, N. Y. Coke-handling apparatus	695,970	Mar. 25	3037	889	98	2393
Trumpler, Charles H., Brooklyn, N. Y. Rake	704,719	July 15	2504	541	100	539
Truscott, Edward E. (See Truscott, James M. and E. E.)						
Truscott, James M. and E. E., St. Joseph, Mich. Canopy	714,650	Nov. 25	4225	935	101	1816
Truslow, Louis B., Thomaston, N. Y. Vehicle toe-rest	696,661	Apr. 1	499	115	99	108
Truslow, Louis B., Thomaston, N. Y. Vehicle-seat	699,428	May 6	581	182	99	1215
Truslow, Louis B., Thomaston, N. Y. Vehicle	705,722	July 29	4659	1010	100	1042
Trussell, Emory A., assignor to Sieber & Trussell Manufacturing Company, St. Louis, Mo. Temporary binder	693,096	Feb. 11	1599	349	98	1154
Trussell, Emory A., assignor to Sieber & Trussell Manufacturing Company, St. Louis, Mo. Temporary binder	697,571	Apr. 15	2209	492	99	502
Trussell, Emory A., assignor to Sieber & Trussell Manufacturing Company, St. Louis, Mo. Temporary binder	700,388	May 20	2510	574	99	1722
Trussell, Emory A., assignor to Sieber & Trussell Manufacturing Company, St. Louis, Mo. Perforating machine	709,566	Sept. 23	3051	680	100	2654
Truxall, Ephraim, Pittsburg, Pa. Foot-guard	692,169	Jan. 28	3381	766	98	751
Truxall, Victor L., Latrobe, Pa. Rail-joint	705,885	July 29	4945	1075	100	1060
Tryon, Frederick F., Syracuse, N. Y. Hinge	712,319	Oct. 28	3516	771	101	774
Tryon, Ira B., Harvard, Ill. Corn-shock compressor	702,165	June 10	1599	361	99	2455
Tschantre, Ernest L., New York, N. Y. Animal-trap	691,301	Jan. 14	1745	897	98	378
Tschieky, Oscar, New York, N. Y., assignor, by mesne assignments, to Noiseless and Draughtless Door and Window-cushion Company. Door-check. (Reissue)	12,014	July 15	3150	680	100	673
Tschinkel, Alfred. (See Kelly and Tschinkel.)						
Tubbs, Nelson J., assignor of one-half to W. M. Spicer, Louisville, Ky. Flexible-joint pipe-coupling	714,065	Nov. 18	3114	688	101	1573
Tubby, Walter W., and W. H. Bromhead, Fall River, assignors to Draper Company, Hopedale, Mass. Shuttle-checking mechanism for looms	705,980	July 29	5108	1114	100	1094
Tuck, William H., Lincoln, Neb., assignor to West Disinfecting Company, New York, N. Y. Animal-clipping apparatus	703,164	June 24	3487	802	99	2877
Tuck, William W., Richmond Hill, and A. Wassmann, Astoria, N. Y. Feed-controlling mechanism for hydrocarbon-motors	710,087	Sept. 30	4058	1 914 1 915	100	2876
Tuck, William W., Richmond Hill and A. Wassmann, Astoria, assignors to A. A. Low, Brooklyn, N. Y. Igniter for hydrocarbon-engines	716,314	Dec. 16	3223	704	101	2539
Tuck, William W., Richmond Hill, and A. Wassmann, Astoria, assignors to A. A. Low, Horseshoe, N. Y. Paper-lifting mechanism	715,905	Dec. 16	2419	535	101	2372
Tuck, William W., Richmond Hill, and A. Wassmann, Astoria, assignors to A. A. Low, Horseshoe, N. Y. Reversing mechanism	717,057	Dec. 30	4797	1040	101	2913
Tucker, Alexander E., Birmingham, and C. Cory, Swansea, England. Artificial fuel	700,389	May 20	2511	.....	99	1722
Tucker, Andrew P. (See Pross and Tucker.)						
Tucker, Benjamin W., assignor to E. Cliff, Newark, N. J. Car-truck	700,265	May 20	2250	1 518 1 514	99	1672
Tucker, Benjamin W., assignor to E. Cliff, Newark, N. J. Car-truck	715,711	Dec. 9	2001	1 448 1 901	101	2262
Tucker, Benjamin W., Newark, N. J., assignor, by mesne assignments, to C. C. Gill, New York, N. Y. Blind-stitch over-seaming-machine	705,486	July 22	4144	902	100	887
Tucker, Charles F. (See O'Hara, William J., assignor.)						
Tucker, Charles F., Hartford, Conn. Oil-hole cover or cup	693,927	Feb. 25	3256	717	98	1531
Tucker, Charles H. (See King, Phineas F., assignor.)						
Tucker, Edwin D., assignor to E. Hoe and Company, New York, N. Y. Casting-mold	697,115	Apr. 8	1384	307	99	314
Tucker, Edwin D., assignor to E. Hoe and Company, New York, N. Y. Casting-box	707,442	Sept. 30	3776	833	100	2816
Tucker, Francis H., Invercargill, New Zealand. Brush	697,395	Apr. 8	1701	380	99	333
Tucker, Frank W., Milford, Conn. assignor of one-half to J. L. Benton, Lynn, Mass. Combined waist-holder and skirt-supporter	698,875	Apr. 29	4740	1044	99	1074
Tucker, George, San Francisco, Cal. Beam-compasses	691,827	Jan. 28	2783	625	98	631
Tucker, Holling G., assignor of one-half to R. H. Norton, Hereford, Tex. Crude-oil burner	704,669	July 15	2422	523	100	522
Tucker, Iret F., assignor of one-half to A. E. Fowler, Sumner, Mich. Potato-digger	714,976	Dec. 2	660	139	101	1967
Tucker, John R. (See Himrod, Tucker, and Hinckley.)						
Tucker, Major, Brocton, N. Y. Basket-handle	699,593	May 6	883	205	99	1357
Tucker, Philip J. (See Pease and Tucker.)						
Tucker, William, assignor to T. B. Laycock Manufacturing Company, Indianapolis, Ind. Bed-rail	704,148	July 8	1475	316	100	310
Tucker, William A., Terre Haute, assignor of one-half to W. R. Adams, Clarksville, Ind. Moisture-proof coating for brick or stone	705,625	July 29	4479	.....	100	966
Tuckey, John. (See Swindler, Henry, assignor.)						
Tuckfield, Charles, East Molesey, assignor of two-thirds to D. Weston, London, England. Rotary engine	703,502	July 1	221	52	100	46
Tuckfield, Charles, East Molesey, assignor of two-thirds to D. Weston, London, England. Rotary engine	703,679	July 1	566	126 1 127	100	112
Tuckfield, Charles, East Molesey, assignor of two-thirds to D. Weston, London, England. Distributing-valve for steam-engines	706,131	Aug. 5	243	51	100	1167
Tuckfield, George A., Salt Lake City, Utah. Stove or range	707,989	Aug. 26	3871	870	100	1958
Tudor, Frederic, Brookline, Mass. Steam-trap	701,524	June 3	427	97	99	2196
Tudor, Frederic, Brookline, Mass. Low-pressure steam-heater	705,981	July 29	5111	1114	100	1095
Tuell, Wilbur H. (See Border, Rupert L., assignor.)						
Tuell, William L., New Albany, Ind. Furniture-clamp	706,705	Aug. 12	1353	301	100	1408
Tuerk, Albert, Chicago, Ill. Electric clock-winding mechanism	698,158	Apr. 22	2328	736 1 737	99	754
Tufts, Frank L., assignor of one-third to H. C. Parker, New York, N. Y. Telephone-booth	704,986	July 15	3095	667	100	660
Tufts, Frank L., assignor of one-third to H. C. Parker, New York, N. Y. Telephone-booth	704,987	July 15	3096	667	100	660

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Tuggle, Charles K. (See Malott and Tuggle.)						
Tuller, Anson, <i>et al.</i> (See Brooks, Theodore L., assignor.)						
Tuller, Henry C., Philadelphia, Pa. Attachment for siphons.	691,021	Jan. 14	1243	281	98	274
Tulloch, Alonzo J., Leavenworth, Kans., R. Modjeski, Chicago, and B. B. Carter, Hinsdale, Ill. Adjustable incline or transfer.	693,340	Feb. 11	2116	464 465	98	1261
Tunall, Adolph. (See Carlsan and Tunall.)						
Tunis, Howard H., Windsor Hills, Md. Single-track railway.	690,539	Jan. 7	330	56.67	98	71
Tunis, Robert W. (See Watson, Peter B., assignor.)						
Tunison, H. O. (See Blatchley, Melborne E., assignor.)						
Tunks, Nelson H., assignor to F. B. Harrison, Toledo, Ohio. Bolster guide-block.	703,503	July 1	222	52	100	46
Tunney, John J., assignor to J. Jenkins, Pittsburg, Pa. Lubricator. (Reissue.)	12,002	June 24	3848	885	99	2355
Tunnell, John C., assignor to D. M. Sechler Carriage Company, Moline, Ill. Cultivator.	691,022	Jan. 14	1244	281	98	274
Tunstead, Charles F. (See Baker, William H., assignor.)						
Tunstall, John W. (See Waltrip, Henry B., assignor.)						
Tuotti, Giuseppe. (See De Cesare, Giuseppe, assignor.)						
Tupper, John P., <i>et al.</i> (See Lurich, Edward, assignor.) (Reissue.)						
Turajski, John K., Cleveland, Ohio. Siphon-bottle filler.	714,264	Nov. 25	3525	775	101	1677
Turbayne, William A., Buffalo, assignor to C. M. Gould, New York, N. Y. Automatic dynamo-regulator.	705,487	July 22	4147	902	100	888
Turck, Penton B., Chicago, Ill., assignor, by mesne assignments, to Personal Hygiene Company. Electric massage apparatus.	695,971	Mar. 25	3040	690	98	2394
Turck, Frederick M., assignor of one-half to Tracy Manufacturing Company, New York, N. Y. Numbering-machine.	710,380	Sept. 30	4594	1037	100	2989
Turcotte, Alexander G., Holyoke, Mass., assignor to himself, and N. McClure, Hartford, Conn. Railway-switch.	705,164	July 22	3456	753	100	749
Turk, Albert R., and B. G. Merrill, Chicago, Ill. Carbon copying-book.	691,506	Jan. 21	2159	484	98	485
Türk, Hans, Brussels, Belgium. Stove for the ventilation of rooms or other places.	696,610	Apr. 1	301	91,92	99	86
Turk, James H. (See Enoch, Alexander C., assignor.)						
Turk, James W. B., Poteau, Ind. Ter. Nut-lock.	703,504	July 1	223	53	100	46
Turk, William. (See Chidester and Turk.)						
Turnbull, John, Dundee, Scotland. Clutch.	695,769	Mar. 18	2660	604 605	98	2302
Turner, Arnold. (See Brew, Mallory, and Turner.)						
Turner, Charles, Chicago, Ill. Rendering apparatus.	708,845	Sept. 9	1570	358	100	2315
Turner, Edward F., Brockton, Mass. Gage for sewing-machines.	695,372	Mar. 25	3040	690	98	2395
Turner, Frederick W., Cambridge, Mass. Condenser for steam motor-carriages.	699,728	May 13	1147	268	99	1424
Turner, George S., Beaverfalls, Pa. Vehicle-wheel.	692,090	Jan. 28	3263	737	98	726
Turner, George T., <i>et al.</i> (See Rhodes, Wesley, assignor.)						
Turner, Harry F. (See Dorman, William S., assignor.)						
Turner, Howard A., Minneapolis, Minn. Freight-car.	715,181	Dec. 2	1016	220 221	101	2044
Turner, James R., Wentworth Location, N. H. Tool for rossing and peeling pulp-timber.	695,353	Mar. 11	1920	423	98	2131
Turner, Jenney A., Norfolk, Va. Neckwear.	691,208	Jan. 14	1562	355	98	341
Turner, John N., <i>et al.</i> (See Stephenson, Levi T., assignor.)						
Turner, John R., Stowmarket, England. Stamp-affixer.	714,536	Nov. 25	4018	889	101	1775
Turner, John R., Stowmarket, England. Apparatus for moistening and closing the adhesive flaps of envelopes, &c.	714,624	Nov. 25	4185	925	101	1806
Turner, Joseph, Worcester, Mass. Safety-razor.	698,768	Apr. 29	4490	992	99	1017
Turner, Julius A., Southfield, assignor to United States Whip Company, Westfield, Mass. Tension for braiding-carriers. (Reissue.)	12,058	Nov. 25	4239	936	101	1819
Turner, Peter F., Chicago, Ill. Utilizing the intestines of hogs.	691,505	Jan. 21	2158	484	98	485
Turner Tanning Machinery Company. (See Ballard, Harrie A., assignor.)						
Turner Tanning Machinery Company. (See Ballard and Copeland, assignors.)						
Turner Tanning Machinery Company. (See Chain and Copeland, assignors.)						
Turner Tanning Machinery Company. (See Chain and Turner, assignors.)						
Turner, Thomas N., and G. R. Mitchell, assignors of three-fifths to J. E. Cooper, L. F. Young, and J. M. Todd, Springfield, Ohio. Trolley-harp.	697,572	Apr. 15	2210	492	99	502
Turner, Walter V., and F. C. Farquharson, assignors to Raton Air Brake Improvement Company, Raton, N. Mex. Ter. Retaining-valve.	706,867	Aug. 12	1680	377	100	1478
Turner, Wesley, Paso Robles, Cal. Hillside-plow.	698,081	Apr. 22	3148	692	99	717
Turner, William A., Providence, R. I. Cigar-machine.	709,943	Sept. 30	3779	853	100	2817
Turner, William B. (See Chain and Turner.)						
Turner, Wilson P. H. (See Hopkins, William W., assignor.)						
Turney Drier Company. (See Geiger and Turney, assignors.)						
Turney, Edward, Portland, Oreg. Clutch-operating mechanism.	709,567	Sept. 23	3053	680	100	2655
Turney, Eugene T., San Francisco, Cal. Photometer.	712,346	Oct. 28	3734	817	101	830
Turney, James A., Toledo, Ohio. Labeling-machine.	692,492	Feb. 4	474	111	98	885
Turney, James A., Toledo, Ohio. Burial-casket.	702,834	Feb. 4	1617	323	98	1011
Turney, James A., and E. F. O'Sullivan, Toledo, Ohio. Embalming and cooling board.	702,511	June 17	2336	509	99	2607
Turney, John E. (See Geiger and Turney.)						
Turney, Oliver. (See Sharps, Herbert E., assignor.)						
Turnipseed, Arthur L., and S. T. Williams, Memphis, Tenn. Means for attaching draft-timbers.	691,085	Jan. 14	1347	304	98	236
Turnipseed, Jesse C., Hampton, Ga. Trap-net.	690,041	Apr. 29	5021	1110	99	1132
Tusler, Malissa. (See Kinsey, Henry H., assignor.)	705,723	July 29	4661		100	1002
Tuttenrow, Joseph, Morgantown, Ind. Saw.	708,273	Sept. 2	516	117	100	2086
Tuttle, Charles B., assignor to Tuttle & Clark, Detroit, Mich. Horse-boot.	694,340	Feb. 25	4112	915	98	1697
Tuttle, Charles L., assignor of one-half to H. D. Whipple, Rochester, N. Y. Fence-post.	701,426	June 3	256	57	99	2161
Tuttle & Clark. (See Tuttle, Charles B., assignor.)						
Tuttle, George R., Grass Valley, Cal. Trap for amalgam.	708,599	Sept. 9	1069	242	100	2309
Tuttle, Hiram, <i>et al.</i> (See Ewell, Herbert P., assignor.)						
Tuttle, Hosmer, Cedar Rapids, Iowa. Motion-transmitter.	697,573	Apr. 15	2212	492 493	99	502
Tuttle, Josiah S., and C. L. Cookson, assignors to T. C. Bradley, Kansas City, Mo. Self-feeder for baling-presses.	692,947	Feb. 11	1349	293	98	1103
Tuttle, William C., assignor of one-half to R. Bryant and S. A. McDaniel, Adrian, Mich. Spring.	709,281	Sept. 16	2451	554	100	2516
Tweed, Robert R., and H. J. Mackintosh, Audubon, N. J. Woven pile fabric.	715,321	Dec. 9	4177	358	101	2190
Tweedale, William, and W. L. Harvey, Chicago, Ill. Apparatus for drying grain.	691,209	Jan. 14	1562	355	98	341
Tweedy, Larson A., Boonville, Ind. Doubletree-elever.	697,116	Apr. 8	1386	307	99	314
XXth Century Heating and Ventilating Company. (See Maag, George, assignor.)						
Twigg, Henry A., Denver, Colo. Edge-ironing machine.	700,459	May 20	2637	604	99	1749
Twiggs, John D., Jr., New York, N. Y. Roller-bearing.	707,463	Aug. 19	2776	629	100	1722
Twist, Thomas E., Milton, Pa. Brake-shoe.	715,712	Dec. 9	3002	448	101	2262



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Twisted Wire Box Strap Company of New York. (See Mitchell, Charles W., assignor.)						
Twombly, Frank S., Manchester, N. H. Milk-jar protector	712,446	Oct. 28	3983	860	101	863
Wynnam, Thomas, Moortown, England. Separating tin from metals.	703,165	June 24	3489	861	99	2877
Tyberg, Oluf, assignor to American Tobacco Company, New York, N. Y. Packing mechanism	708,682	Sept. 9	1223	281	100	2240
Tyberg, Oluf, assignor to American Tobacco Company, New York, N. Y. Packing mechanism	708,787	Sept. 9	1428	328	100	2286
Tyberg, Oluf, Brooklyn, assignor to Russell, Burdall & Ward Bolt & Nut Company, Port Chester, N. Y. Nut-finishing machine	715,522	Dec. 9	1648	329	101	2190
Tyberg, Oluf, Brooklyn, assignor to Russell, Burdall & Ward Bolt & Nut Company, Port Chester, N. Y. Nut-finishing machine	715,523	Dec. 9	1653	359	101	2191
Tyberg, Oluf, Brooklyn, assignor to Russell, Burdall & Ward Bolt & Nut Company, Port Chester, N. Y. Nut-finishing machine	715,524	Dec. 9	1657	360	101	2192
Tyberg, Oluf, Brooklyn, assignor to Russell, Burdall & Ward Bolt & Nut Company, Port Chester, N. Y. Nut-finishing machine	715,525	Dec. 9	1663	361	101	2193
Tyden, Emil, Hastings, Mich. Table	715,536	Dec. 9	1667	364	101	2194
Tyden, Emil, Hastings, Mich. Pipe-joint lock	696,357	Feb. 11	2151	472	98	1368
Tyden, Emil, Hastings, Mich. Pedestal-extension-table lock	696,358	Mar. 25	3922	869	98	2575
Tyden, Emil, Hastings, Mich. Self-locking seal	696,519	Apr. 1	228	53	99	32
Tyden, Emil, Hastings, Mich. Seal-lock	710,134	Oct. 7	456	95	101	92
Tyler, Abel D., Jr., Brockton, Mass. Transversely-divided boot or shoe last and union therefor	712,021	Oct. 28	3156	690	101	705
Tyler, Abel D., Jr., Brockton, Mass. Tree-foot	697,044	Apr. 5	1263	281	99	287
Tyler, Abel D., Jr., Brockton, Mass., assignor, by mesne assignments, to Mawhinney Last Company. Boot-treating machine	711,025	Oct. 14	1192	262	101	162
Tyler, Arthur M., Richmond, Va., assignor of three-tenths to C. Skidmore, Parkersburg, H. E. Spillman and M. G. Tyler, Spilman, W. Va. Automatic ink-well	693,466	Feb. 18	2363	518	98	2332
Tyler, Charles C., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Speed-changing device	711,684	Oct. 21	2476	545	101	546
Tyler, Frederick C., Cleveland, Ohio. Tap and die holder	710,225	Sept. 30	4336	975	100	2936
Tyler, George R., Pomona, Cal. Compressed-air water-elevator	711,065	Oct. 14	1326	287	101	288
Tyler, George R., Pomona, Cal. Pedestaling-saw	697,296	Apr. 8	1792	361	99	388
Tyler, Hiram. (See Ohmer and Tyler.)	698,764	Apr. 29	4491	992	99	1017
Tyler, Hiram. (See Ohmer, Tyler, and Breidenbach.)						
Tyler, James M., Bay St. Louis, Miss. Air-blast apparatus	694,588	Mar. 4	480	104	98	1815
Tyler, Joseph H. (See Lieb and Tyler.)						
Tyler, Joseph L., Lynn, Mass. Mitering-machine	707,734	Aug. 26	3336	747	100	1854
Tyler, Marion G., et al. (See Tyler, Arthur M., assignor.)						
Tyler, Melvin H., Muncie, Ind. Bicycle-support	696,152	Mar. 25	3433	770	98	2477
Tyler, Walter L., et al. (See Cowperthwaite, Allan, assignor.)						
Tyler, Walter L., et al. (See Lindstrom, Nils O., assignor.)						
Tyler, William W., York, Pa. Balancing device for turbine-gates	710,381	Sept. 30	4599	1088	100	2990
Tynan, John C., Garfield, N. J. Bleaching keir	692,091	Jan. 28	3263	738	98	727
Tynan, Joseph J., Philadelphia, Pa. Annealing apparatus	711,138	Oct. 14	1412	305	101	308
Tynen, Jeremiah D., Spooner, Wis. Cigar	694,217	Feb. 25	3319	845	98	1643
Typographic Development Company. (See Fowler, Joseph C. and Joseph C., Jr., assignors.)						
Tyson, Frank. (See Tyson, William G., assignor.)						
Tyson, Frank, assignor of one-half to G. H. Colket, Philadelphia, Pa. Sheet-metal can.	709,426	Sept. 16	2743	616	100	2578
Tyson, Frank, Philadelphia, Pa., assignor to J. A. Higgins, Newark, N. J. Closure for jars or bottles	710,347	Sept. 30	4538	1024	100	2979
Tyson, William G., assignor of one-half to F. Tyson, Philadelphia, Pa. Stop-valve.	702,393	June 10	1971	450	99	3590
Tyzack, Henry F., assignor of two-thirds to H. S. Scott, Gateshead, and I. Sumnerfield, Newcastle-upon-Tyne, England. Reversible steam-turbine	712,424	Oct. 28	3898	853	101	856
Tzaut, Alfred, assignor to D. Perret, Neuchâtel, Switzerland. Electrical apparatus	701,647	June 3	672	147	99	2249
U. S. Long Distance Automobile Company. (See Riotté, Carl C. and E. A., assignors.)						
Uehermann, Karl, Christiania, Norway. Coin-freed telephone apparatus	695,013	Mar. 11	1391	287	98	2004
Uehermann, Karl, Christiania, Norway. Coin-freed apparatus for sale of stamps, tickets, or the like	696,611	Apr. 1	392	92	99	86
Uekotter, Herman H., Cincinnati, Ohio. Apparatus for making designs in cakes of soap	692,493	Feb. 4	476	112	98	896
Udell, David R., Delmar, N. Y. Horse-hitching device	715,527	Dec. 9	1668	364	101	2194
Udell, Joseph, Wisconsin Veterans Home, Wis. Necktie-holder	698,588	Apr. 29	4079	901	99	926
Udstad, Sivert, Aurora, Ill. Rod-packing	704,598	July 15	2307	501	100	497
Uebelacker, Charles F., Elmira, assignor to Peckham Motor Truck and Wheel Company, New York, N. Y. Adjustable brake-holding device	715,906	Dec. 16	2420	536	101	2372
Ueberroth, William W. (See Young and Ueberroth.)						
Uecker, Robert C., Harvard, Ill. Pencil-sharpener	710,822	Oct. 7	822	177	101	168
Uffel, Herman von., Philadelphia, Pa., assignor to Royal Manufacturing Company, Limited. Culinary utensil	713,575	Nov. 11	2167	484	101	1356
Uhl, Joseph F. L., Toledo, Ohio. Construction of metal furniture	705,488	July 22	4150	963	100	888
Uhlenhart, William L., Portland, Ore. Illuminating-buoy for fish-nets	713,364	Nov. 11	1756	395	101	1274
Uhlig, Richard W., Rutherford, assignor to H. C. Adams, Hackensack, N. J. Type-writing machine	717,144	Dec. 30	4951	1106	101	2945
Uhlir, Ernest. (See Dahlberg, Chiquenoi, and Uhlir.) (Reissue.)						
Uhlmann, Charles R., Peoria, Ill. Brush	692,387	Feb. 4	294	72	98	890
Ulrich, Edgar J., et al. (See Fox, John C., assignor.)						
Ulrich, George, Waltham, Mass. Spinning-top	693,928	Feb. 25	3237	717	98	1332
Ulsch, Trues, Saul, Ste. Marie, Canada. Refining composite metals	694,099	Mar. 4	697	148	98	1839
Ulmer, Melchor, New York, N. Y. Toy bowling-alley	693,191	Feb. 11	1851	401	98	1304
Ulrich, John, Columbus, Ohio. Motor	705,489	July 22	4151	963	100	889
Umberhower, Cornelius R. (See Reed and Umberhower.)						
Umlauf, August, Vienna, Austria-Hungary, assignor to Vereinigte Maschinenfabrik Augsburg und Maschinenbaugesellschaft Nürnberg A. G., Nuremberg, Germany. Apparatus for raising or lowering canal-boats, &c.	710,635	Oct. 7	439	95	101	92
Umsadtter, Michael. (See Bell, Isaac T., assignor.)						
Umstead, Isaac T., Camarillo, Cal. Beet-harvesting plow	715,320	Dec. 9	1280	273	101	2118
Underhill, Arthur J., assignor to Cluett, Peabody & Co., Troy, N. Y. Collar-shaper	691,023	Jan. 14	1245	281	98	275
Underhill, George J., assignor, by mesne assignments, to Sanitary Coupling Company, Bridgeport, Conn. Water-closet	712,022	Oct. 28	3159	691	101	705

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Underwood, Alfred, Oil City, assignor to Oil Well Supply Company, Pittsburg, Pa. Pipe-wrench	698,765	Apr. 29	4492	992	99	1017
Underwood, George W., assignor of one-half to F. E. Nicholson, Kansas City, Kans. Combined wringer-bench and ironing-board	715,627	Dec. 9	1845	410	101	2230
Underwood, Herbert G., assignor to International Power Vehicle Company, Stamford, Conn. Reversing and variable-speed gearing	696,849	Apr. 1	851	196	99	180
Underwood, Herbert G., New York, assignor to H. H. Franklin, Syracuse, N. Y. Casting apparatus	715,713	Dec. 9	2008	449	101	2203
Underwood, J. Platt. (See Sweet, Benjamin W., assignor.)						
Underwood, John H., Marlboro, assignor of one-half to S. H. Howe Shoe Company, Marlboro and Boston, Mass. Machine for skiving heel-rands	715,907	Dec. 16	2422	536	101	2372
Underwood, Joseph B., Fayetteville, N. C. Refrigerator-car	699,260	May 6	241	56	99	1223
Underwood, Robert L., and I. C. Butterfield, assignors to R. E. Crocker and F. J. Sibley, Fostoria, Ohio. Railway-tie plate	691,988	Jan. 28	3068	688	98	688
Underwood, William J. (See Reynolds and Underwood.)						
Union Boiler Tube Cleaner Company. (See Forsyth and Bell, assignors.)						
Union Electric Manufacturing Company. (See Brown and Rhine, assignors.)						
Union Iron Works. (See Burrows, William B., assignor.)						
Union Iron Works. (See Thomas, Edwin E., assignor.)						
Union Lead and Oil Company. (See Bailey, John W., assignor.)						
Union Light & Heat Company. (See Graf, John J., assignor.)						
Union Manufacturing Company. (See Britton and Morrow, assignors.)						
Union Manufacturing & Specialty Company. (See Lee, Dwight B., assignor.)						
Union Metallic Cartridge Company. (See Lammadin and Stone, assignors.)						
Union Metallic Cartridge Company. (See Orcutt, Jerome, assignor.)						
Union Oil Refining & Fuel Company. (See Steiner, Robert, assignor.)						
Union Paper Bag Machine Company. (See Appel, Daniel, assignor.)						
Union Paper Bag Machine Company. (See Dulin, Charles E., assignor.)						
Union Paper Bag Machine Company. (See West, James, assignor.)						
Union Scale and Manufacturing Company. (See Hoepner, George, assignor.)						
Union Special Sewing Machine Co. (See Durand, Ernest F., assignor.)						
Union Special Sewing Machine Company. (See Foster, Charles H., assignor.)						
Union Special Sewing Machine Company. (See McNeil, Chester, assignor.)						
Union Special Sewing Machine Company. (See Onderdonk, Lansing, assignor.)						
Union Special Sewing Machine Company. (See Onderdonk and Merritt, assignors.)						
Union Special Sewing Machine Company. (See Patterson, James L., assignor.)						
Union Special Sewing Machine Company. (See Swift and Burk, assignors.)						
Union Special Sewing Machine Company. (See Weatherwax, Charles L., assignor.)						
Union Special Sewing Machine Company. (See Woodward, Russel G., assignor.)						
Union Special Sewing Machine Company <i>et al.</i> (See Hatch, Edward P., assignor.)						
Union Special Sewing Machine Company <i>et al.</i> (See Powell, Myron H., assignor.)						
Union Stop and Signal Company. (See Hart, Orlando W., assignor.)						
Union Switch and Signal Company. (See Chalmers, James, Jr., assignor.)						
Union Switch & Signal Company. (See Christofferson, Christian A., assignor.)						
Union Switch & Signal Company. (See Coleman, John P., assignor.)						
Union Switch and Signal Company. (See Gillmor, John E., assignor.)						
Union Switch and Signal Company. (See Miles, Henry D., assignor.)						
Union Typewriter Company. (See Burrige, Lee S., assignor.)						
Union Typewriter Company. (See Chapin, Murray H., assignor.)						
Union Typewriter Company. (See Fitch, Eugene, assignor.)						
Union Typewriter Company. (See Gabrielson, Carl, assignor.)						
Union Typewriter Company. (See Nilson, Peter F., assignor.)						
Union Typewriter Company. (See Sholes, Zalmom G., assignor.)						
Union Typewriter Company. (See Smith, George H., assignor.)						
Union Typewriter Company. (See Stickney, Burnham C., assignor.)						
Union Voucher Company. (See Wise, Homer, assignor.)						
Union Water Meter Company. (See Larrabee, William H., assignor.)						
Union Water Meter Company. (See Northrop, Frank L., assignor.)						
Union Wire Mattress Company. (See Klipfel, Thomas, assignor.)						
United Alkali Company. (See Duff, Edward J., assignor.)						
United Coke & Gas Company. (See Schniewind, Frederic W. C., assignor.)						
United Engineering and Foundry Company. (See Bray, Thomas J., Jr., assignor.)						
United Fast Color Eyelet Company. (See Kempshall, Eleazer, assignor.)						
United Gas Improvement Company. (See Earnshaw, Edward H., assignor.)						
United Gas Improvement Company. (See Taussig, John H., assignor.)						
United Indurated Fibre Company. (See Peterson, Jesse, assignor.)						
United Shirt and Collar Company. (See Dormandy, Garry J., assignor.)						
United Shoe Machinery Company. (See Casgrain, Louis A., assignor.)						
United Shoe Machinery Company. (See Cummings, Henry H., assignor.)						
United Shoe Machinery Company. (See Eaton, Arthur W., assignor.)						
United Shoe Machinery Company. (See Eliott, Alvin D., assignor.)						
United Shoe Machinery Company. (See Eppler, Andrew, Jr., assignor.)						
United Shoe Machinery Company. (See Fowler, Alfred B., assignor.)						
United Shoe Machinery Company. (See Freeman, Edwin T., assignor.)						
United Shoe Machinery Company. (See Freeman, Edwin T., assignor.) (Reissue.)						
United Shoe Machinery Company. (See Gare, Thomas, assignor.)						
United Shoe Machinery Company. (See Godfrey, Alexander, assignor.)						
United Shoe Machinery Company. (See Jackson, James E., assignor.)						
United Shoe Machinery Company. (See Kelley, Michael F., assignor.) (Reissue.)						
United Shoe Machinery Company. (See Lougee, Edwin A., assignor.)						
United Shoe Machinery Company. (See Mayo, Benjamin F., assignor.)						
United Shoe Machinery Company. (See Mayo and Elliott, assignors.)						
United Shoe Machinery Company. (See Putnam, Benjamin W., assignor.)						
United Shoe Machinery Company. (See Raymond, Freeborn F., 2d, assignor.)						
United Shoe Machinery Company. (See Rumney, Fred A., assignor.)						
United Shoe Machinery Company. (See Scott, Jacob R., assignor.)						
United Shoe Machinery Company. (See Small, Chester C., assignor.)						
United Shoe Machinery Company. (See Tobey, Franklin O., assignor.)						
United Shoe Machinery Company. (See Warren, George E., assignor.)						
United Shoe Machinery Company. (See Winkley and Phillips, assignors.)						
United Shoe Machinery Company of the State of New Jersey. (See Cavanagh, James, Jr., assignor.)						
United Shoe Machinery Company of the State of New Jersey. (See Ladd, Sherman W., assignor.)						
United States Battery Company. (See Bugg, Owen T., Jr., assignor.)						
United States Battery Company. (See Holderrieth, Charles H., assignor.)						



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United States Braid Machine Manufacturing Company. (See Diss, Albert B., assignor.)						
United States Cigar Manufacturing Company. (See Tingley, George H., assignor.)						
United States Distillation Company. (See Goss, William F. M., assignor.)						
United States Electric Signal Company. (See Ruddick, John J., assignor.)						
United States Fastener Company. (See Murphy, William B., assignor.)						
United States Fastener Company. (See Traut, George W., assignor.)						
United States Glass Company. (See Weiss, William F., assignor.)						
United States Glass Company. (See Ripley, Daniel C., assignor.)						
United States Graphotype Company. (See Ackerman, William, assignor.)						
United States Metallic Packing Company. (See Longstreth and King, assignors.)						
United States Register Company. (See Jones, Almon O., assignor.)						
United States Sanitary and Utility Sewage Disposal Company of New Jersey. (See Anderson, Stevens, and Lutz, assignors.)						
United States Sanitary and Utility Sewage Disposal Company of New Jersey. (See Lutz, Alexander, assignor.)						
United States Slot Machine Company. (See Williams, John A., assignor.)						
United States Smelting Company. (See Bartlett, Frank L., assignor.)						
United States Smelting and Gas Company. (See Chace, Albert F., assignor.)						
United States Tobacco Stemming Company. (See Hutcheson, James A., assignor.)						
United States Tool Holder Company. (See Normand, Joseph M., assignor.)						
United States Whip Company. (See Hull, David C., assignor.)						
United States Whip Company. (See Turner, Julius A., assignor.) (Reissue.)						
United States Wireless Message Co. (See Castro, Angel de, assignor.)						
Universal Accountant Machine Company. (See Rinsche, Frank C., assignor.)						
Universal Acetylene Company. (See Weeks, John W., assignor.)						
Universal Brush Company. (See Morrison, William, assignor.)						
Universal Car Journal Oiler Company. (See Armstrong, Ernest, assignor.)						
Universal Centrifugal Dryer Company. (See Seldner, Jonas J., assignor.)						
Universal Chromophoto Engraving Company. (See Foerster, Oscar, assignor.)						
Universal Ratchet Co. (See Willmarth, Charles A., assignor.)						
Universal Seal and Stopper Company. (See Schmitt, Edward D., assignor.)						
Universal Seal and Stopper Company. (See Schmitt, Edward D., assignor.) (Reissue.)						
Universal Talking Machine Manufacturing Company. (See Valiquet, Louis P., assignor.)						
Universal Winding Company. (See Morse, Alfred B., assignor.)						
Universal Winding Company. (See Wardwell, Simon W., assignor.)						
Unkefer, George R., and J. T. Bertelsen, Chicago, Ill. Automatic revolving teeter-totter.	715,321	Dec. 9 1282	273 274		101	2118
Unser, John, Carthage, assignor of one-half to W. W. Hawes, Clayton, N. Y. Brake mechanism for motor-vehicles.	709,124	Sept. 16 2138	489		100	2450
Unser, John, Carthage, assignor of one-half to W. W. Hawes, Clayton, N. Y. Brake mechanism for motor-vehicles.	709,125	Sept. 16 2137	489 490		100	2451
Unterlehner, Karl, Gries, Austria-Hungary. Shutter-fastener.	704,599	July 15 2310	501		100	498
Uppike, Mahlon, Chicago, Ill. Means for insulating coke-ovens, &c.	711,026	Oct. 14 1193	263		101	262
Uppdyke, Theodore S. (See Magney, Joseph P., assignor.)						
Upham, Burt F. (See Stuart and Upham.)						
Upham, Hubbard H., New York, N. Y. Water-bag.	699,778	May 13 1256	291	99	1445	
Upham, James B., Malden, Mass. Pocket-knife.	692,092	Jan. 28 3296	738	98	727	
Uplinger, Frank J. (See Kahler, George, assignor.)						
Upton, Delevan P., Jacksonville, Fla. Pipe holder or clutch.	708,724	July 29 4661	1010	100	1002	
Upton, Delevan P., Jacksonville, Fla. Rotary motor.	716,791	Dec. 23 4162	913	101	2753	
Upton Nut Company. (See Johnson, Charles A., assignor.)						
Upton, Theron A., Brooklyn, N. Y. Stop for window-blinds.	703,626	July 1 451	104	100	88	
Upton, Alva T., assignor of one-half to C. C. Johnson, Mount Vernon, Ill. Folding harrow.	709,589	Sept. 23 3900	688	100	2663	
Upton, Colcord, Beverly, Mass., assignor to Upton Machine Company. Friction-clutch.	691,507	Jan. 21 2161	484	98	485	
Upton, Colcord, Beverly, Mass., assignor to Upton Machine Company. Variable-speed gearing.	691,508	Jan. 21 2163	484 485	98	486	
Upton, Frank B., assignor of one-half to E. C. Hanpeter, St. Louis, Mo. Paint-dipping tank.	696,282	Mar. 25 3670	821	98	2524	
Upton, Joseph M., Atlantic, and W. S. Gray, Braintree, Mass. Hinge.	699,727	May 13 1149	268	99	1424	
Upton, King. (See Morrison, William, assignor.)						
Upton Machine Company. (See Upton, Colcord, assignor.)						
Urban, Johann. (See Bronnert, Fremery, and Urban.)						
Urban, Johann. (See Fremery and Urban.)						
Urban, Johannes. (See Fremery and Urban.)						
Uren, James B., Lilloet, Canada. Thill-coupling.	713,180	Nov. 11 1361	306	101	1192	
Uri, Joseph N., Mayberry, Nebr. Washing-machine.	715,322	Dec. 9 1284	274	101	2119	
Urien, Alfred R., et al. (See Back, William C., assignor.)						
Ursbruck, John H. and J. B., assignors of one-half to J. A. and M. A. Hunter, Philadelphia, Pa. Boot or shoe sewing machine.	715,323	Dec. 9 1285	274 275 276	101	2119	
Ursbruck, Joseph B. (See Ursbruck, John H. and J. B.)						
Utermöhlen, Carl F., Amsterdam, Netherlands. Antiseptic bandage.	703,627	July 1 452	104	100	89	
Utley, Edward L., Fayetteville, N. C. Wrench.	704,407	July 8 1939	420	100	408	
Utley, Milton R., assignor of one-half to C. F. Slacks, Chicago, Ill. Fuse-box.	715,528	Dec. 9 1669	364 365	101	2194	
Utter, John F. (See Utter, Joseph A., assignor.)						
Utter, Joseph A., Crawfordsville, Ind., assignor to J. F. Utter, San Francisco, Cal. Metallic fence-post.	709,617	Sept. 23 3138	699	100	2673	
Uytenbogaart, Johannes W. H., Utrecht, Netherlands. Socket for incandescent electric lamps.	693,087	Feb. 11 1601	349	98	1155	
V. L. Ney Company. (See Ney, Jacob, assignor.)						
V. R. Lansingh Company. (See Lansingh, Van Rensselaer, assignor.)						
Vacuum Dyeing Machine Company. (See Willard, James A., assignor.)						
Vagnfabriks Aktiebolaget I Södertelje. (See Erikson, Gustaf, assignor.)						
Vail, Morrison H., Chicago, Ill. Construction for buildings having circular or regular shaped roofs converging in one point.	693,980	Feb. 25 3399	747	98	1560	
Vail, Ralph E., Mount Vernon, Ohio. Expansion-joint.	690,797	Jan 7 831	183	98	175	
Vaillant, Johann, Remscheid, Germany. Safety by-pass device for gas-burners.	714,265	Nov 25 3526	775	101	1677	
Vais, Joseph, Duluth, Minn. Window-washer.	690,042	Apr 29 3052	111	99	1132	
Valdes, Elena M. de, New York, N. Y. Non-refillable bottle.	714,338	Nov 25 3528	806	101	1701	
Valentine, Gustaf V., Chicago, Ill. Dress-cutting instrument for drafting garments.	708,506	Sept 2 913	207 208	100	2167	
Valentine, Harry J., Hempstead, assignor to W. Vogel & Brothers, New York, N. Y. Coin-deposit bank.	695,845	Mar. 18 2811	640	98	2333	
Valentine, Harry J., Hempstead, assignor to W. Vogel & Brothers, New York, N. Y. Pocket-inhaler.	697,117	Apr. 8 1386	308	99	315	

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Valentine, Harry J., Hempstead, assignor to W. Vogel & Brothers, Brooklyn, N. Y. Tubular lantern	714,066	Nov. 18	3116	688	101	1573
Valentine, Harry J., Hempstead, N. Y., assignor to Columbian Hardware Company, Cleveland, Ohio. Hinge-knob	709,618	Sept. 23	3139	699	100	2673
Valerius, Theodore L., Fort Atkinson, Wis., assignor to Creamery Package Manufacturing Company, Chicago, Ill. Bottle filling and capping machine	690,488	Jan. 7	218	48, 44	98	47
Valerius, Theodore L., Fort Atkinson, Wis., assignor to Creamery Package Manufacturing Company, Chicago, Ill. Pasteurizing apparatus	701,102	May 27	3878	891	99	2026
Valiant, George, assignor to M. Valiant, Toronto, and W. M. Pentelow, London, Canada. Bicycle-canopy support	710,726	Oct. 7	625	130 131	101	128
Valiant, Margaret, et al. (See Valiant, George, assignor.)						
Valiquet, Louis P., New York, N. Y. Seal for talking-machine records	701,820	June 3	957	212	92	2309
Valiquet, Louis P., assignor to Universal Talking Machine Manufacturing Company, New York, N. Y. Tripod-support for horns of talking-machines	700,582	May 20	2361	657	99	1796
Valiquet, Louis P., New York, N. Y., assignor, by mesne assignments, to Universal Talking Machine Manufacturing Company. Talking-machine	701,648	June 3	673	147	99	2249
Valiquet, Louis P., New York, N. Y., assignor, by mesne assignments, to Universal Talking Machine Manufacturing Company. Talking-machine	701,649	June 3	674	147	99	2249
Valiquet, Louis P., assignor to Universal Talking Machine Manufacturing Company, New York, N. Y. Horn-supporting arm for talking-machines	705,165	July 22	3458	753	100	749
Valiquet, Louis P., assignor to Universal Talking Machine Manufacturing Company, New York, N. Y. Connector for horns and sound-boxes of talking-machines	713,722	Nov. 18	2438	545	101	1429
Valley, John N., Jersey City, N. J. Elevated railway	691,086	Jan. 14	1349	304 305	98	296
Vallier, Orvis, assignor of one-half to J. M. Sprague, Watertown, N. Y. Transferring bevel and try square	699,261	May 6	245	57	99	1224
Valves, Limited. (See Croft, John R., assignor.)						
Valvona, Antonio, Manchester, England. Apparatus for baking biscuit-cups for ice-cream	701,776	June 3	885	197	99	2294
Van Allan, Robert A., et al. (See Goode, George, assignor.)						
Van Allen, Tychon, et al. (See Geisenhüner and Van Allen, assignors.)						
Van Alstyne, Edward P., Jr., Kinderhook, N. Y. Folding table	706,868	Aug. 12	1683	377	100	1478
Van Amringe, D. R., et al. (See McMath, John F. O., assignor.)						
Van Arsdale, George D., Newark, N. J. Envelop	708,098	Sept. 2	181	43	100	2019
Van Arsdell, John C., Dallas, Tex. End support for spiral conveyers	701,969	June 10	1226	279	99	2380
Van Assche, Frank, Jersey City, N. J. Greenhouse construction	708,428	Sept. 2	768	172	100	2136
Van Auker, Horace W., Philadelphia, Pa. Rotary engine	690,738	Jan. 7	832	184	98	176
Van Auker, Sidney, Saginaw, Mich. Nailing implement	692,740	Feb. 4	916	203	98	998
Van Beresteyn, Hugo, Brussels, Belgium. Rotary motor	700,460	May 20	2641	605	99	1750
Van Brunt, Willard A., Horicon, Wis. Seeding-machine	695,509	Mar. 18	2183	493	98	2205
Van Buren, Albert A., Louisville, Ky. Attachment for upright pianos	710,543	Oct. 7	293	64	101	59
Van Cleave, J. W. (See Cope, George W., assignor.)						
Van Cott, Lincoln, and J. D. Kelley, New York, N. Y. Brake mechanism	702,384	June 10	1972	450	99	2530
Van Dam, Eduard. (See Boisselet, Jean B., assignor.)						
Van Demark, Arthur W., Lestershire, N. Y. Clothes-hanger	707,890	Aug. 26	3674	826	100	1920
Van den Heuvel, Mathias, Gangelt, near Geilenkirchen, Germany. Machine for making straw bottle-covers	692,662	Feb. 4	783	179	98	959
Van den Heuvel, Mathias, Gangelt, Germany. Assembling device for forming straws into cover-blanks	717,476	Dec. 30	5576	1210	101	3076
Van der Ploeg, Jarig P., The Hague, Netherlands. Treatment of ores and materials containing antimony	702,153	June 10	1575		99	2451
Van der Wee, George R., Rochester, N. Y. Bung and faucet for barrels	712,108	Oct. 28	3317	727	101	734
Van Derbeek, Stephen G. (See Rennie and Van Derbeek.)						
Van Derlip, Willis C., Sr., Corning, N. Y. Railway-signal	704,720	July 15	2505	541 542	100	540
Van Develde, John, Cleveland, Ohio. Barrel-making machinery	708,746	Sept. 9	1347	307	100	2268
Van Doorn, Frank E. (See Gardiner and Van Doorn.)						
Van Dorn, William T., Chicago, Ill. Railway-coupling	711,549	Oct. 21	2922	483	101	492
Van Duzer, Wilson W., Warwick, N. Y. Shutter-operating device	697,297	Apr. 8	1704	381	99	383
Van Dyke, Thomas H., Kansas City, Mo., assignor of one-third to J. W. Taylor, Kansas City, Kans. Air-brake system	692,948	Feb. 11	1351	294	98	1103
Van Eman, William W., et al. (See Moon, Herman, assignor.)						
Van Eversen, Horace, trustee. (See Foster, Rolon E., assignor.)						
Van Fleet, William, et al. (See Torricellas, Charles, assignor.)						
Van Gelder, Henry J., Brooklyn, N. Y. Index	717,145	Dec. 30	4959	1076	101	2947
Van Gieson, Eugene T., Newark, N. J. Game-counter	704,149	July 8	1476	316	100	310
Van Hagen, Isaac, Chicago, Ill. Manufacture of metallic bedsteads	695,846	Mar. 18	2812	640	98	2334
Van Hook, John L., Floydada, Tex. Combined heating and cooking stove	699,779	May 13	1257	292	99	1446
Van Hoorn, Albert, Oldham, England. Photographic-print washer	715,908	Dec. 16	2424	537	101	2373
Van Hoozer, Thomas H. B., Comanche, Tex. Churn-cover	701,234	May 27	4101	944	99	2072
Van Horn, Alberto T. (See Menns and Van Horn.)						
Van Horn, Charles B., Detroit, Mich. Vehicle-wheel	693,929	Feb. 25	3259	717 718	98	1532
Van Horn, Charles B., Philadelphia, Pa. Felly for vehicle-wheels	697,118	Apr. 8	1387	308	99	315
Van Horn, Charles R., assignor to Hall & Munson Co., Bay Mills, Mich. Saw-guide	694,337	Feb. 25	4107	914	98	1695
Van Horn, Charles R., assignor to Hall & Munson Co., Bay Mills, Mich. Saw-guide	694,338	Feb. 25	4109	914	98	1696
Van Horn, William, assignor of one-half to W. O. Ziegenfelder, Piqua, Ohio. Folding box	715,442	Dec. 9	1497	325	101	2161
Van Houten, Eugene H., assignor to Dutchess Tool Company, Fishkill-on-the-Hudson, N. Y. Oven-door	694,700	Mar. 4	700	153	98	1859
Van Houten, Frank H., assignor to Dutchess Tool Company, Fishkill-on-the-Hudson, N. Y. Rotary bake-oven	707,187	Aug. 19	2278	510	100	1619
Van Houten, William, Sycamore, and S. F. Prevatt, Nashville, Ga. Rice hulling and polishing machine	693,930	Feb. 25	3261	718	98	1532
Van Kannel Revolving Door Company. (See Van Kannel, Theophilus, assignor.)						
Van Kannel, Theophilus, New York, N. Y. Amusement or illusion apparatus	694,447	Mar. 4	211	46, 47 597	98	1757
Van Kannel, Theophilus, New York, N. Y., assignor to Van Kannel Revolving Door Company, New York, N. Y., and Charleston, W. Va. Revolving-door structure	711,803	Oct. 21	2708	598 599	101	595
Van Kirk, Benjamin R., assignor to Burnham, Williams & Company, Philadelphia, Pa. Supporting device for electric motors	712,981	Nov. 4	969	228	101	1095
Van Leer, John S., assignor of one-half to J. W. Howard, St. Louis, Mo. Trolley	694,218	Feb. 25	3820	845	98	1643
Van Luyken, Thomas F., Cataract, assignor of one-half to T. S. Burley, Nepanee, Canada. Axle-bearing	700,583	May 20	2863	657	99	1797
Van Meter, James M., Cambridge City, Ind. Bottle-closure	700,462	May 20	2645	606	99	1751
Van Naular, Ralph E., Munhall, Pa. Rail-joint	715,628	Dec. 9	1846	410	101	2230



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Van Ness, Albert, Chicago, Ill., assignor to Corn King Husker Company, Rochester, Ind., Corn husking and shredding machine	712,982	Nov. 4	971	226 227	101 1096
Van Nette, Wesley, Poplar, Ohio. Musical instrument	694,589	Mar. 4	482	104 105	98 1815
Van Noorden, Ezekiel, Boston, Mass. Glazed roof or structure	705,491	July 22	4155	904	100 989
Van Noorden, Ezekiel, and H. C. Smith, Boston, Mass. Self-closing window	698,589	Apr. 29	4080	902	99 826
Van Nostran, Joseph E., Canton, Ohio. Dental cuspidor	710,638	Oct. 7	463	97	101 93
Van Nostran, Joseph E., assignor of one-half to J. J. Hahn, Canton, Ohio. Dental cuspidor	704,601	July 15	2913	592	100 499
Van Orden, John M., Newark, N. J. Corset-cover	705,725	July 29	4662	1010	100 1003
Van Patton, Herbert, Meadville, Pa. Refracto-ophthalmometer	704,150	July 8	1478	317	100 310
Van Praag, David J., London, England. Acetylene gas generator	705,166	July 22	3460	733	100 750
Van Praag, Leonidas A., New York, N. Y. Finger-tip attachment for glove sewing machines	690,682	Jan. 7	596	130 131	98 128
Van Putten, Adrian. (See Zuidewind and Van Putten.)					
Van Schott, Gerard J., Passaic, N. J. Applicator	699,594	May 6	884	205	99 1357
Van Schott, Gerard J., assignor to himself and O. Dressler, Passaic, N. J. Wound-closing device	715,612	Dec. 9	1820	404	101 2225
Van Scoyoc, Leroy. (See Thomas and Van Scoyoc.)					
Van Scoyoc, Leroy, Louisville, Nebr. Fruit-drier	697,673	Apr. 15	2407	535	99 540
Van Slyke, Alexander A., Gloversville, N. Y., assignor of one-half to E. Perry, Jr., Bridgeport, Conn. Convertible revolving, reclining, and rocking chair	712,743	Nov. 4	511	120	101 1000
Van Steenberg, Burhams, New York, N. Y. Apparatus for the manufacture of carburete-hydrogen gas	699,353	May 6	426	97	99 1261
Van Tine, Daniel T. (See Altermatt and Van Tine.)					
Van Valkenburg, Charles J. (See Van Valkenburg, Randall T. and C. J.)					
Van Valkenburg, Randall T., assignor of one-half to W. E. Crichton, Laporte, Ind. Fence-post	696,520	Apr. 1	331	52	99 53
Van Valkenburg, Randall T., assignor of one-half to W. E. Crichton, Laporte, Ind. Gate	704,602	July 15	2314	502	100 490
Van Valkenburg, Randall T., Newcastle, Pa., and C. J. Van Valkenburg, Manchester, Mich.; said C. J. Van Valkenburg assignor to W. E. Crichton, Laporte, Ind. Fire-extinguisher	695,847	Mar. 18	2814	640	98 2334
Van Valkenburgh, Abram T. (See Gleason, Byron H., assignor.)					
Van Vleck, John. (See Murray and Van Vleck.)					
Van Volkenburgh, Philip. (See Newcomb, Edward C., assignor.)					
Van Voorhis, Harvey B., Pittsburg, Pa. Air-ship	702,120	June 10	1513	341 342	99 2437
Van Wagenen, Anthony, Sioux City, Iowa. Ratchet mechanism	702,684	June 17	2560	588	99 2673
Van Wagenen, Anthony, Sioux City, Iowa. Transmitter	702,751	June 17	2681	617	99 2687
Van Wagenen, Matthew, Syracuse, N. Y. Dumping-wagon	699,282	May 6	246	57	99 1224
Van Wagoner, Cornelius S., Cleveland, Ohio, assignor to M. L. Van Wagoner, Brooklyn, N. Y. Locking device for vehicle steering mechanism	707,464	Aug. 19	2778	629 630	100 1722
Van Wagoner, M. L. (See Van Wagoner, Cornelius S., assignor.)					
Van Wert, Charles J. (See Hickey, Thomas F., assignor.)					
Van Wie, Peter G., assignor to Ideal Manufacturing Company, Detroit, Mich. Combined broiler and toaster	706,502	Aug. 5	993	219	100 1318
Van Wie, Peter G., assignor to Ideal Manufacturing Company, Detroit, Mich. Hot-plate	706,503	Aug. 5	994	219	100 1318
Van Wormer, Joseph L. (See Padon, John S., assignor.)					
Van Zile, Harry L., New York, N. Y. Baffling-tile	712,158	Oct. 28	3412	747	101 754
Vanata, Thomas D., assignor of one-half to W. W. Grant, Washington, D. C. Animal-trap	703,628	July 1	453	104 105	100 89
Vance, Sheldon W., Crookston, Minn. Brick-truck	716,599	Dec. 23	3822	829 830	101 2681
Vance, W. W., et al. (See Wiseman, Daniel E., assignor.)					
Vandall, Cleophas, Eveleth, Minn. Pipe-jointer	691,678	Jan. 21	2474	554	98 550
Vandall, Cleophas, Eveleth, Minn. Pipe-coupling	714,625	Nov. 25	4187	926	101 1808
Vande Westelaken, Peter W., Alexandria, Va. Cask-pitching device	716,798	Dec. 23	4178	916	101 2755
Vandecar, William D., Grand Rapids, Mich. Electric railway-signal	700,461	May 20	2642	606	99 1750
Vandegrift, William C., San Francisco, Cal. Fluid-pumping and fluid-actuated machine	715,441	Dec. 9	1495	324	101 2161
Vandenburgh, Walter, et al. (See Reynolds, James H., assignor.)					
Vander Cook, Henry A., assignor to himself and A. H. Vanderkolk, Chicago, Ill. Toy	698,340	Apr. 22	3689	800	99 819
Vander Made, Paul R., Breukelen, Netherlands. Apparatus for carbureting air	690,681	Jan. 7	595	129 130	98 127
Vander Wee, George R., New York, N. Y. Tracing and cutting implement	690,489	Jan. 7	222	44	98 48
Vanderbeek, Abraham. (See Worron and Vanderbeek.)					
Vanderbeek, Abraham, Hartford, Conn. Universal joint	698,159	Apr. 22	3331	727	99 754
Vanderbilt, Cornelius, New York, N. Y. Bolster for railway-cars	698,876	Apr. 29	4741	1045	99 1074
Vanderbilt, Cornelius, New York, N. Y. Truck-bolster	707,656	Aug. 26	3195	717	100 1825
Vanderbilt, Cornelius, New York, N. Y. Locomotive-boiler	707,657	Aug. 26	3195	717	100 1825
Vanderbilt, Cornelius, New York, N. Y. Brake-beam	707,658	Aug. 26	3196	717	100 1826
Vanderbilt, Cornelius, New York, N. Y. Construction of body-bolsters for railway-cars	710,636	Oct. 7	460	96	101 93
Vanderbilt, Cornelius, New York, N. Y. Car-truck	710,637	Oct. 7	462	96	101 93
Vanderborcht, Henri, Brussels, Belgium. Apparatus for rapidly heating liquids	704,600	July 15	2311	502	100 498
Vandenburg, Robert B., Los Angeles, assignor of one-half to A. W. Johnson, Longbeach, Cal. Saucapan	694,807	Mar. 4	904	201	98 1903
Vandercook, Frank E., assignor of one-half to J. Meyer, Waterbury, Conn. Shoe-lacing book	699,989	May 13	1674	384	99 1532
Vandercook, Frank E., assignor of one-half to J. Meyer, Waterbury, Conn. Shoe-lacing book	699,990	May 13	1674	384	99 1532
Vandercook, Robert O., Evanston, Ill. Means for dissipating static electricity	705,490	July 22	4153	903 904	100 889
Vandercook, Wilmet A. (See Livingston and Vandercook.)					
Vanderkolk, Anthony H. (See Vander Cook, Henry A., assignor.)					
Vanderpool, Clarence R., Grand Rapids, Mich. Dental gage	696,120	Mar. 25	3354	756	98 2461
Vanderpool, Clarence R., Grand Rapids, Mich. Dental gage	709,884	Sept. 23	3543	798	100 2757
Vandersee, George W. (See Felton, John, assignor.)					
Vandersee, John H., assignor to Lukens Iron and Steel Company, Coatesville, Pa. Phosphorus machine	707,881	Aug. 26	3674	826 827	100 1920
Vandervort, Addison, Belleville, Canada. Lawn-sprinkler	691,419	Jan. 21	2001	449	98 451
Vanderveen, Frank, Grand Rapids, Mich. Check-book	713,538	Nov. 11	2094	469	101 1343
Vandevender, George W., Mingo, W. Va. Nut-lock	705,797	July 29	4787	1039	100 1029
Vandiver, John M. (See Talbert, Jacob M., assignor.)					
Vanduzen, Benjamin C., Winton Place, Ohio. Vaporizing device for explosive-engines	704,126	Sept. 16	2139	490 491	100 2451
Vanes, Arthur B., St. Margarets-on-Thames, England. Attaching door-knobs to spindles	712,023	Oct. 28	3161	691	101 705
Vanhouweling, Arthur, Pella, Iowa. Band-cutter and feeder for threshing-machines	715,443	Dec. 9	1499	325 326	101 2161

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Vann, Charles J., Brooklyn, N. Y. Bread-cutting machine.....	713,339	Nov. 11	2095	469	101	1804
Vantyle, Omer V. (See Vantyle, Elmer D. and O. V.)	692,949	Feb. 11	1353	294	98	1143
Vanstone, Samuel, assignor to Patent Development Company, Providence, R. I. Forging-machine.....	691,808	Mar. 4	905	201	98	1908
				202		
				667	100	660
Vanstone, Wesley E., New Westminster, Canada. Heater.....	704,988	July 15	3097	668		
Vantyle, Elmer D. and O. V., Lebanon, Ind. Animal-trap.....	694,701	Mar. 4	701	153	98	1859
Vantyle, Omer V. (See Vantyle, Elmer D. and O. V.)						
Varell, Arthur A., Dallas, Tex. Bale-band applying and tightening device.....	694,448	Mar. 4	213	47	98	1758
Vasey, Joseph N. (See Lancaster, John P., assignor.)						
Vaulchain, Samuel M., Jr. (See Howe and Vaulchain.)						
Vaulchain, Samuel M., assignor to Burnham, Williams & Company, Philadelphia, Pa. Compound engine and valve therefor.....	694,702	Mar. 4	708	153	98	1860
Vaulchain, Samuel M., Philadelphia, Pa., assignor to Burnham, Williams and Company. Locomotive-operated tool.....	696,283	Mar. 25	3671	821	98	2525
Vaulchain, Samuel M., assignor to Burnham, Williams & Company, Philadelphia, Pa. Seam or joint for steam-boilers.....	701,777	June 3	886	197	99	2294
				198		
Vaulchain, Samuel M., assignor to Burnham, Williams & Company, Philadelphia, Pa. Means for securing cylinders and valve-chests to saddles.....	711,886	Oct. 21	2870	635	101	680
Vaughan, David F., Haddonfield, N. J. Railway-spike.....	691,087	Jan. 14	1350	305	98	296
Vaughan, Edwin W., Worcester, Mass., assignor to American Steel and Wire Company of New Jersey. Apparatus for drawing metal.....	714,768	Dec. 2	222	44.45	101	1882
Vaughan, Harland, Springfield, Mass. Shuffle-board.....	694,121	Feb. 25	3835	803	98	1608
Vaughan, Henry H., Chicago, Ill., assignor to Ridgely and Johnson Tool Company. Motor-fluid-operated tool.....	691,420	Jan. 21	2004	449	98	452
Vaughan, Henry H., Chicago, Ill., assignor to Ridgely and Johnson Tool Company. Motive-fluid-operated tool.....	692,388	Feb. 4	296	72	98	860
Vaughan, Henry H., Chicago, Ill., assignor to Ridgely and Johnson Tool Company. Tobacco-press-operated tool.....	707,735	Aug. 26	3337	747	100	1855
Vaughan, James M., Owensboro, Ky. Tobacco-press.....	692,494	Feb. 4	479	112	98	896
Vaughan, William H. (See Powell and Vaughan.)						
Vaughen, Samuel W. (See Cabot and Vaughen.)						
Vaughen, Samuel W. (See Mitchell and Vaughen.)						
Vaughn, Benjamin A., Corning, Cal. Cooking-stove.....	699,991	May 13	1674	385	99	1533
Vaughn, Charles P., Peabody, Mass., assignor to Vaughn Machine Company, of West Virginia. Leather-working machine.....	695,770	Mar. 18	2661	605	98	2302
Vaughn, Francis E. and M. E., Pendleton, Ind. Gas-engine.....	716,792	Dec. 23	4164	913	101	2758
				914		
Vaughn, George C., Salem, assignor, by mesne assignments, to Vaughn Machine Company, Boston, Mass. Apparatus for leaching tanbark.....	698,877	Apr. 29	4743	1045	99	1074
Vaughn, John T., Griffin, Ga. Grate.....	709,377	Sept. 16	2655	595	100	2560
Vaughn Machine Company. (See Jones, Albert F., assignor.)						
Vaughn Machine Company. (See Perkins, Franklin J., assignor.)						
Vaughn Machine Company. (See Perkins and Parkhurst, assignors.)						
Vaughn Machine Company. (See Vaughn, Charles P., assignor.)						
Vaughn Machine Company. (See Vaughn, George C., assignor.)						
Vaughn, Marion E. (See Vaughn, Francis E. and M. E.)						
Vaught, Alexander, Paragould, Ark. Folding box.....	708,943	Sept. 9	1744	493	100	2351
Vaught, James C. H., Phillipsburg, Mont. Can for stamp-mills.....	697,119	Apr. 8	1330	308	99	315
Vaught, James C. H., Phillipsburg, Mont. Tappet for stamp-mills.....	708,680	July 1	568	127	100	112
Vautier, Auguste, Grandson, Switzerland. Photographic camera.....	708,858	July 1	890	195	100	178
Vautour, Marcel, and H. Prefontaine, Fisherville, Mass. Baking-cup cleaner.....	700,584	May 20	2864	657	99	1797
Veasey, William E. (See Mead, James R., assignor.)						
Veazie, Winchester. (See Crooks, James W., assignor.)						
Veeder, Curtis H., Hartford, Conn. Casting-machine.....	698,590	Apr. 29	4081	902	99	927
				903		
Veeder, Curtis H., Hartford, Conn. Casting-machine.....	698,591	Apr. 29	4087	904	99	928
				905		
Veeder, Curtis H., Hartford, Conn. Mold mechanism.....	698,592	Apr. 29	4103	905	99	931
Veeder, Curtis H., Hartford, Conn. Forming castings.....	698,593	Apr. 29	4109	906	99	932
Veeder, Curtis H., Hartford, Conn. Mold mechanism.....	698,594	Apr. 29	4117	906	99	933
Veeder, Curtis H., Hartford, Conn. Mold mechanism.....	698,595	Apr. 29	4119	907	99	934
Veeder, Curtis H., Hartford, Conn. Casting-machine.....	698,596	Apr. 29	4123	907		
				908	99	935
				909		
Veeder Manufacturing Company. (See Bock, Henry L., assignor.)						
Vegetol Company. (See Fletcher, Mordecai H., assignor.)						
Vehicle Equipment Company. (See Gibbs, Lucius T., assignor.)						
Vehicle Top Attachment and Protector Company. (See McMullen, Joseph B., assignor.)						
Velie Carriage Company. (See Connell, David W., assignor.)						
Veltheim-Ostrau, Franz von, Kreis Bitterfeld, Germany. Device for cutting off the heads of turnips.....	716,965	Dec. 30	4616	1000	101	2873
Venable Brothers. (See Pratt, Alexander W., assignor.)						
Vendredy, Henry. (See Vrand, Vendredy, Duitte, and Gauthier.)						
Venerer Barrel Machine Co. (See Ott, Willard J., assignor.)						
Venner, George O., Lawrence, Mass. Wheel for motor-vehicles.....	704,151	July 8	1481	317	100	311
Vent, Raymond T. (See Bernhard and Vent.)						
Venueth, Wilhelm, Darmstadt, Germany. Apparatus for concentrating liquids.....	691,210	Jan. 14	1564	355	98	341
Vereinigte Chininfabriken Zimmer & Co. (See Thron, Heinrich, assignor.)						
Vereinigte Chininfabriken Zimmer & Co., Gesellschaft mit Beschränkter Haftung. (See Thron, Heinrich, assignor.)						
Vereinigte Kunstseide Fabriken, A. G. (See Lehner, Friedrich, assignor.)						
Vereinigte Maschinenfabrik Augsburg und Maschinenbaugesellschaft, "Nurnberg A. G." (See Carstanjen, Max, assignor.)						
Vereinigte Maschinenfabrik Augsburg und Maschinenbaugesellschaft Nürnberg A. G. (See Ebbs, Hermann E., assignor.)						
Vereinigte Maschinenfabrik Augsburg und Maschinenbaugesellschaft Nürnberg A. G. (See Umlauf, August, assignor.)						
Vereinigte Maschinenfabrik Augsburg und Maschinenbaugesellschaft Nürnberg, A.-G., Firm of. (See Carstanjen, Max, assignor.)						
Vérel, Alphonso A., Glasgow, Scotland. Wheel.....	695,848	Mar. 18	2816	640	98	2335
Vérel, Alphonso A., Glasgow, Scotland. Wheel.....	706,480	Aug. 5	959	641	100	1310
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			Spec.	Dr. g.	Vol.	Page.
Vergon, Amelius D. (See Faught, John E., assignor.)						
Vérisol, Antoine, New York, N. Y. Means for decorating fabrics.	708,039	Sept. 2	181	48	100	2019
Verity, John, deceased; W. W. White, New York, N. Y., ancillary executor. Coupling for ships' propeller shafts.	690,356	May 6	432	98, 90	99	1262
Verity, John, deceased; W. W. White, New York, N. Y., ancillary executor. Ship's anchor.	710,825	Oct. 7	827	178	101	169
Vermehren, Johannes, Hellerup, near Copenhagen, Denmark. Calculating-machine.	711,887	Oct. 21	2871	635	101	630
Vermilyea, Le Roy. (See O'Leary, John, assignor.) (Reissue.)						
Vermont Farm Machine Company. (See Kimball, Perley L., assignor.) (Reissue.)						
Vermont Farm Machinery Company. (See Kimball, Perley L., assignor.)						
Vernon, Charles W., assignor of one-half to M. C. F. Hamby, Toronto, and M. Hamby, Ottawa, Canada. Photograph.	698,082	Apr. 22	3152	693	99	718
Vernon, Miles, Brooklyn, N. Y. Cover for memorandum-books.	709,687	Sept. 23	3258	730	100	2697
Vernon, William G., Wallingford, Pa. Journal-bearing.	712,425	Oct. 28	3899	853	101	857
Vernon, William H., Wakefield, England. Economizer.	694,590	Mar. 4	487	105	98	1817
Verona Tool Works. (See Woodings, Emanuel, assignor.)						
Verret, Nicholas J., and H. N. Samstag, Little Rock, Ark. Steam-engine.	709,062	Sept. 16	2014	460	100	2423
Verrill, Elgin C., Cape Elizabeth, Me. Last.	696,215	Mar. 25	3350	794	98	2499
Vertical Propeller Company. (See Exline, Frank, assignor.)						
Vestal, Warner L., San Bernardino, Cal. Rural-delivery mail-box.	694,219	Feb. 25	3821	845	98	1644
Vettel, Hugo, Newark, N. J. Window.	707,808	Aug. 26	3527	846	100	1892
Vetter, Alexander F. and J. C., assignors to Vetter Manufacturing Company, New York, N. Y. Automatic medical electrical apparatus.	712,220	Oct. 28	3518	771	101	774
Vetter, Henrietta. (See Hendrickson, Isaac B., assignor.)						
Vetter, Joseph C. (See Vetter, Alexander F. and J. C.)						
Vetter Manufacturing Company. (See Vetter, Alexander F. and J. C., assignors.)						
Veizin, Henry A., Denver, Colo., assignor to J. A. Jeffrey, Columbus, Ohio. Ore-elevator.	702,892	June 17	2947	679	99	2753
Vial, Denis, Fils, Lyons, France. Electric alarm.	700,885	May 20	2865	658	99	1738
Vicente, Nemesio, Cartagena, Spain. Water-tube boiler.	706,787	Aug. 12	1533	341	100	1446
Vick, Holland E., Alliance, Ohio. Saw-set.	708,100	Sept. 2	184	44	100	2019
Vickerman, Charles H., Philadelphia, Pa. Manufacturing white lead.	712,570	Nov. 4	759	184	101	1054
Vickers, Albert, assignor to Vickers, Sons & Maxim, Limited, Westminster, England. Automatic gun.	690,799	Jan. 7	833	185	98	176
Vickers, Albert, assignor to Vickers Sons & Maxim, Limited, Westminster, London, England. Feeding mechanism for automatic guns.	708,859	July 1	892	196	100	179
Vickers, Elias L., Oakfield, Ga. Turpentine-box.	715,529	Dec. 9	1672	365	101	2195
Vickers, Frederick W., Edgerton, Wis. Load-binder.	710,639	Oct. 7	465	97	101	83
Vickers, George M., Jr., Philadelphia, Pa. Truck.	692,389	Feb. 4	298	72	98	861
Vickers Sons & Maxim. (See Dawson and Buckham, assignors.)						
Vickers Sons & Maxim. (See Dawson and Horne, assignors.)						
Vickers Sons & Maxim. (See Trochain, Eugène, assignor.)						
Vickers Sons & Maxim. (See Vickers, Albert, assignor.)						
Vickers, Thomas F., et al. (See Daly, Michael J., assignor.)						
Vickery, George A., Lexington, Mass. Centrifugal bristle-exPELLING machine for brushes.	698,878	Apr. 29	4746	1045	99	1075
Victor Box Car Loader Company. (See Chappell, Delos A., assignor.)						
Victor Electric Company. (See Wantz, Julius B., assignor.)						
Victor P. De Knight Gun Company. (See De Knight, Victor P., assignor.)						
Victor Rubber Company. (See Smith, Harry S., assignor.)						
Victor Rubber Company. (See Webb, John G., assignor.)						
Victor Safe and Lock Company. (See Blechschmidt, Charles E., assignor.)						
Victorian Forage Pressing Company. (See Ferrier, James, assignor.)						
Vidal, Juan B., Havana, Cuba. Type-writer.	695,251	Mar. 11	1747	386	98	2097
Vidal, Léon, St. Rome-du-Tarn, France. Apparatus for the hydraulic propulsion of ships.	699,043	Apr. 29	5024	1111	99	1133
Viel, Paul I., Paris, France. Expansible pulley for motor-vehicles.	703,860	July 1	893	196	100	179
Viele, Ransom D. (See Robinson and Viele.)						
Viele, Ransom D., E. M. Walker, Troy, and T. D. Robinson, Albany, N. Y.; said Viele and Walker assignors of one-sixth to said Robinson. Folding-machine for collar-blanks, &c.	693,931	Feb. 25	3264	719	98	1533
Vieregg, Henry, Grand Island, Nebr. Fire-escape.	708,846	Sept. 9	1572	359	100	2315
Viko, Eindred, Sioux Falls, S. D. Muscle-developer.	714,067	Nov. 18	3117	688	101	1573
Viles, Joseph T., assignor of one-half to O. Bryan, Indianapolis, Ind. Adjustable nut-wrench.	710,382	Sept. 30	4601	1038	100	2990
Villard, Gilbert. (See Laportot, Villard, and Pignaud.)						
Villazon, Marcelino, New Haven, Conn. Motor.	707,809	Aug. 26	3529	797	100	1892
Ville, Jules, Montpelier, France. Red dye and making same.	701,427	June 3	257	54	99	2161
Vilsack, Edward J., et al. (See Hehr, John G., assignor.)						
Vimont, Jules L. (See Boudet, Arthur D., assignor.)						
Vincent, Thomas Y. (See Case and Vincent.)						
Vining, Robert W., Ealing, assignor to Auto-Postergraph Syndicate, Limited, London, England. Advertising device.	692,950	Feb. 11	1355	294	98	1104
Vink, Johannes H., Delft, Netherlands. Type-writing machine.	707,882	Aug. 26	3676	827	100	1920
Vinson, George W., Hazlewood, Ky. Vehicle-seat brace.	709,378	Sept. 16	2856	596	100	2561
Vinson, George W., assignor of one-half to J. E. Martin, Hazlewood, Ky. Corner-iron for vehicle-bodies.	697,298	Apr. 8	1706	381	99	383
Vinzent, Theodore R., Berkeley, assignor to W. G. Leale Manufacturing & Development Company, San Francisco, Cal. Protector for reciprocating rods.	713,723	Nov. 18	2439	545	101	1430
Violette, Florence, Minneapolis, Minn. Curtain-stretcher.	697,605	Apr. 15	2448	546	99	549
Virtue, John A., Delphos, Kans. Steam-engine.	695,510	Mar. 18	2185	493	98	2206
Vis, Gerhard N., Schweizerhalle, Switzerland. Treating brine.	698,341	Apr. 22	3640	820	99	820
Vis, Gerhard N., Schweizerhalle, Switzerland. Vacuum evaporating apparatus.	700,115	May 13	1871	486	99	1572
Vis, Gerhard N., Schweizerhalle, Switzerland. Vacuum apparatus for boiling brine.	700,860	May 27	3425	787	99	1931
Vis, Gerhard N., Schweizerhalle, Switzerland. Vacuum apparatus for boiling brine.	702,264	June 10	1759	401	99	2147
Vischer, Alfred. (See Alexander and Vischer.)						
Viser, William M., Harrodsburg, Ky. Flour-sifter.	697,903	Apr. 15	2814	622	99	679

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			Spec.	Dr. g.	
Vitri, George, Montclair, N. J. Fireplace	710,226	Sept. 30	4338	975	100 2937
Vivarttas, William O., Weehawken, assignor to H. B. Smith Machine Company, Smithville, N. J. Planing machine	693,576	Feb. 18	2558	572	98 1377
Vivian, Robert P., Los Angeles, Cal. Piston-rod packing	711,086	Oct. 14	1327	573	101 288
Vivier, Armand M., et al. (See Stabile, Gioacchino, assignor.)					
Vinnus, Alexis, Brussels, Belgium. Universal joint	693,577	Feb. 18	2590	573	98 1378
Vinnus, Alexis E., Brussels, Belgium. Clutch	696,284	Mar. 25	3672	821	98 2525
Vliet, Joshua B., assignor of one-half to C. M. Roehm, Detroit, Mich. Buggy-top adjuster	703,505	July 1	224	53	100 47
Vlk, Adolph, Chicago, Ill. Drill-press	709,568	Sept. 23	3056	680	100 2656
Voege, August, Brooklyn, N. Y. Game apparatus	712,159	Oct. 28	3414	748	101 754
Voelkel, George E., Los Angeles, Cal. Fireproof frame building	710,307	Sept. 30	4469	1008	100 2964
Voelker, August, Ehrenfeld, Germany. Manufacturing glass	698,766	Apr. 29	4493	992	99 1017
Voelker, August, Ehrenfeld, Germany. Manufacture of glass by electrical heating	702,081	June 10	1454	122	99 2425
Voelker, August, Cologne, Germany, assignor to Company l'Industrie Verrieres et ses Derivés, Brussels, Belgium. Electric glass-furnace	706,283	Aug. 5	567	123	100 1230
Voelker, George W., Woonsocket, R. I. Brushing-machine for cloth manufacturing	706,132	Aug. 5	244	51	100 1168
Voet, Cornelius, Harlem, Netherlands. Apparatus for supplying air to steam-generator furnaces	691,679	Jan. 21	2476	555	98 550
Voetter, Ernst, Uerdingen, Germany. Printing with sulfur dyes	708,439	Sept. 2	769	100	2137
Vogel & Brothers, William. (See Valentine, Harry J., assignor.)					
Vogel, Carl, Newburgh, N. Y. Emergent-brake	707,465	Aug. 19	2780	690	100 1723
Vogel, Charles, Fort Lee, N. J. Steam-engine	714,977	Dec. 2	662	139	101 1908
Vogel, Edward, assignor of one-half to J. A. Ondrak, New York, N. Y. Coupling	714,266	Nov. 25	3528	776	101 1678
Vogel, Ernest H., Brooklyn, N. Y. Metallic strap	705,626	July 29	4479	971	100 966
Vogel, Eugene W., Chicago, Ill. Circuit-controller	703,022	June 24	3203	738	99 2823
Vogel, Eugene W., assignor to D. S. Wegg, Chicago, Ill. Battery chute or well	691,024	Jan. 14	1247	282	98 275
Vogel, Fritz, Dusseldorf, Germany. Adjustable folding chair	706,688	Sept. 23	3259	730	100 2697
Vogel, Henry F. (See Bramson, Max, assignor.)					
Vogel, Henry F., and M. Weber, assignors to St. Louis Car Company, St. Louis, Mo. Platform-car	709,249	Sept. 16	2393	541	100 2504
Vogel, Louis D., assignor to Wooden Package Manufacturing Company, Omaha, Nebr. Trussing-machine	699,121	Apr. 29	5152	1141	99 1158
Vogel, Louis D., assignor to Wooden Package Manufacturing Company, Omaha, Nebr. Machine for sand-finishing tubs, buckets, &c.	701,821	June 3	958	212	99 2309
Vogel, Louis D., assignor to Wooden Package Manufacturing Company, Omaha, Nebr. Heater and drier	701,822	June 3	960	213	99 2309
Vogel, William, Hartley, Iowa. Heating-drum	707,990	Aug. 26	3872	870	100 1958
Vogel, William C., Hartley, Iowa. Button	712,426	Oct. 28	3900	854	101 857
Vogelbach, John B., and T. Gray, Brooklyn, N. Y. Pipe-vise	709,944	Sept. 30	3783	854	100 2811
Vogeler, Henry, Newcastle, Cal. Electric beehive-heater	702,833	June 17	2837	653	99 2731
Vogeler, Jerome L., Baltimore, Md. Advertising bottle or flask	716,793	Dec. 23	4167	914	101 2753
Vogelsang, August A., Dresden, Germany, assignor, by mesne assignments, to W. Lewin, Nottingham, England. Electrolytic cell and electrode therefor	703,861	July 1	894	197	100 179
Vogler, Hugo P., Waterville, assignor of two-thirds to A. Wippel and W. Wandell, Barnes, Kans. Hay-rack	701,110	May 27	3883	891	99 2027
Voglesong, John W. (See Le Clair, George E., assignor.)					
Vogt, Adolf. (See Bachmann and Vogt.)					
Vogt, Adolf, and M. von Recklinghausen, Westminster, London, England. Internal-combustion motor	706,366	Aug. 5	715	155	100 1301
Vogt, Adolf, and M. von Recklinghausen, Westminster, London, England. Machinery for the production of liquid under pressure	711,597	Oct. 21	2310	505	101 510
Vogt, Adolf, West Norwood, England, and M. von Recklinghausen, New York, N. Y. Producing liquids under pressure	716,794	Dec. 23	4168	914	101 2753
Vogt, George. (See Glück, Joseph, assignor.)					
Vogt, George, assignor of one-half to E. O. Ebersole, Corbin, Ky. Displacing device for use on railways	695,662	Mar. 18	2488	565	98 2268
Vogt, John, Winesburg, Ohio. Grain-conveyer	714,978	Dec. 2	668	140	101 1969
Vogt, Philip W., St. Louis, Mo. Air-brake	695,771	Mar. 18	2664	606	98 2303
Vogue, Franklin S., Keokuk, Iowa. Mail delivery and collection system	705,982	July 29	5114	1114	100 1095
Vought, August, assignor to Stanley Works, New Britain, Conn. Hasp-fastener	702,605	June 17	2419	551	99 2643
Vought, George F., San Francisco, Cal. Hammer	712,983	Nov. 4	973	227	101 1096
Vought, Henry G., assignor to Russell and Erwin Manufacturing Company, New Britain, Conn. Padlock	694,703	Mar. 4	704	154	98 1860
Vought, Henry G., assignor to Russell and Erwin Manufacturing Company, New Britain, Conn. Meat-cutter	694,704	Mar. 4	705	154	98 1860
Vought, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Liquid door-check	696,776	Apr. 1	728	164	99 155
Vought, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Liquid door-check	703,681	July 1	570	127	100 113
Vought, Henry G., New Britain, and H. K. Jones, Hartford, assignors to Russell & Erwin Manufacturing Company, New Britain, Conn. Door-check	711,598	Oct. 21	2317	506	101 511
Vought, Henry G., and W. E. Parker, assignors to Russell & Erwin Manufacturing Company, New Britain, Conn. Cylinder-lock	712,024	Oct. 28	3162	691	101 705
Vogt, Frederick H., Philadelphia, Pa. Escapement for timepieces	710,823	Oct. 7	823	177	101 108
Vogt, Gustav, Berlin, Germany. Friction-wheel gearing	704,721	July 15	2548	542	100 540
Vogt, Otto H. C., Lübeck, Germany. Label-holder for bottles, &c.	694,809	Mar. 4	906	202	98 1903
Vogt, Rudolph, Chemnitz, Germany. Cross-winding machine	709,653	Sept. 23	3194	713	100 2684
Vogtlaender-Tetzner, Walter. (See Schraube and Vogtlaender-Tetzner.)					
Vogtlander & Sohn Aktien Gesellschaft. (See Harting, Carl A. H., assignor.)					
Voglmayr, Frank, and S. H. Pomeroy, Chicago, Ill. Fireproof window	691,211	Jan. 14	1565	356	98 341
Voglmann, Frank, and S. H. Pomeroy, Chicago, Ill. Fireproof window	716,151	Dec. 16	2909	640	101 2175
Vojta, Thomas, Mound City, S. D. Oil-can	703,862	July 1	896	197	100 180
Voland, Francisque. (See Franc and Voland.)					
Volkening, Carl K., Brooklyn, N. Y. Bottle-washing brush	705,983	July 29	5117	1116	100 1096
Völker, Richard, Budapest, Austria-Hungary. Embossed wall-covering	703,863	July 1	897	197	100 180
Volkert, Ferdinand N., Chicago, Ill. Paper-binder	707,037	Aug. 12	1973	443	100 1599
Volkman, August. (See Schmidt, William A., assignor.)					
Volkman, Martin F., Santa Monica, Cal. Marine-engine governor	707,038	Aug. 12	1973	443	100 1596
Volkmar, Henry G., New York, N. Y. Pavement	693,192	Feb. 11	1853	401	98 1204



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Vollert, August. (See Reschke, Wilhelm, assignor.)						
Vollery, Francis H., Allegheny, Pa. Electromagnetic medical appliance	713,365	Nov. 11	1757	395 396	101	1274
Vollmann, Carl W., Montreal, Canada Air cooling and purifying apparatus	708,847	Sept. 9	1574	359	100	2316
Vollmer, Wilhelm, Brooklyn, N. Y. Machine for bending iron—flat and angle	699,858	May 13	1423	326	99	1481
Vollmer, Wilhelm, Brooklyn, N. Y. Apparatus for separating angle-iron	700,282	Sept. 16	2433	554	100	2517
Vollmer, Wilhelm, Brooklyn, N. Y. Machine for bending flat iron	709,283	Sept. 16	2456	554	100	2517
Vollstorff, August W., Toledo, Ohio. Car-brake mechanism	706,284	Aug. 5	568	123	100	1230
Volzer, Joseph, Jr., Pittsburg, Pa. Rail-joint	712,160	Oct. 28	3415	748	101	754
Von der Ahe, Charles C. (See Hergenhan and Von der Ahe.)						
Von der Poppenburg, Johannes, Charlottenburg, Germany. Storage-battery electrode	701,389	June 3	188	41	99	2146
Vorce, La Fayette D., Chicago, Ill. Extracting oil	704,869	July 15	3099	668	100	671
Vorce, La Fayette D., Chicago, Ill. Apparatus for separating solvents from oils	701,990	July 15	3102	668	100	661
Vorraber, Josef, Schöningen, Germany. Valve-gear for engines	712,744	Nov. 4	512	120	101	1043
Vosburgh, Henry E., Auburn, N. Y. Reduction-furnace	712,161	Oct. 28	3415	748	101	754
Vose and Cliff Manufacturing Company. (See Cliff, Edward, assignor.)						
Vosler, Newton G., Fort Collins, Colo. Embroidery-frame	699,268	May 6	249	57, 58	99	1225
Vosmaer, Alexander, Haarlem, assignor to Company Oon Maatschappij Systeem A. Vosmaer, Amsterdam, Netherlands. Ozonizing apparatus	709,427	Sept. 16	2744	617	100	2578
Vosmaer, Alexander, Haarlem, assignor to Company Oon Maatschappij Systeem A. Vosmaer, Amsterdam, Netherlands. Apparatus for treating liquids with gases or gases with liquids	709,379	Sept. 16	2656	596	100	2561
Voss, Henry C. (See Hodges, James W., assignor.)						
Voss, William H., Davenport, Iowa. Stave-tapering machine	711,599	Oct. 21	2318	506	101	511
Voss, William L., Harvey, Ill. Gearing	705,492	July 22	4157	904	100	889
Voss, Clarence E., assignor of one-half to N. H. Keister, Indianapolis, Ind. Wrapper or label assorting machine	698,597	Apr. 29	4136	910	99	938
Votey, Edwin S., Summit, N. J., assignor to Aeolian Company, New York, N. Y. Key-board playing attachment for musical instruments	696,216	Mar. 25	3552	794	98	2500
Votey, Edwin S., Summit, N. J., assignor to Aeolian Company. Operating-sheet for automatic musical instruments	707,283	Aug. 19	2460	551	100	1650
Votey, Edwin S., Summit, N. J., assignor to Aeolian Co., New York, N. Y. Tracker for musical instruments	712,162	Oct. 28	3419	749	101	755
Votey, Edwin S., Summit, N. J., assignor to Aeolian Co., New York, N. Y. Mechanical instrument	717,146	Dec. 30	4960	1076	101	2947
Vötsch, Hermann, assignor to F. Krupp, Essen, Germany. Brake for hoisting apparatus	702,384	June 17	2838	653	99	2731
Voynow, Constantine B. (See Nichols, Henry B., assignor.)						
Voynow, Constantine B., Philadelphia, Pa. Railway-track structure	714,068	Nov. 18	3118	689	101	1574
Voynow, Constantine B., Philadelphia, Pa. Railway-track structure	716,353	Dec. 10	3343	720	101	2555
Vraalstad, Edward J., assignor to Buffalo Pitts Company, Buffalo, N. Y. Threshing machine	699,044	Apr. 29	5026	1111	99	1133
Vrard, Edouard M. and M. Neuilly-sur-Seine, H. Vendredy, Puteaux, P. Duitte, Paris, and H. Gauthier, Neuilly-sur-Seine, France, assignors to C. L. Hyde, New York, N. Y., and E. M. Vrard, Neuilly-sur-Seine, France. Speed-changing gear	696,285	Mar. 25	3673	822	98	2525
Vrard, Maurice. (See Vrard, Vendredy, Duitte, and Gauthier.)						
Vreelburgh, John L., Austin, Tex. Separable button or stud	708,181	Sept. 2	341	81	100	2651
Vreeland, Cornelius D., Chicago Heights, Ill. Pigment	691,421	Jan. 21	2005	-----	98	452
Vreeland, Cornelius D., Chicago Heights, Ill. Pigment and paint composition	691,422	Jan. 21	2006	-----	98	452
Vreeland, Cornelius D., Upper Montclair, N. J. Pigment	691,423	Jan. 21	2007	-----	98	452
Vroom, Robert C., San Diego, Cal. Bread-toaster	694,042	Feb. 25	3509	772	98	1581
Vrooman, Nathaniel L., and R. R. Kirkland, Watertown, N. Y. Paper-pulp strainer	703,682	July 1	571	127, 128	100	113
Vrooman, Nathaniel L., and R. R. Kirkland, Watertown, N. Y. Screen-plate for pulp-strainers	703,683	July 1	574	128	100	114
Vuagniaux, John F., Council Bluffs, Iowa. Neck-yoke-center guard	698,598	Apr. 29	4141	910	99	938
Vulitch, Doushan de, and J. D'Orlowsky, Paris, France. Manufacture of calcium carbide	701,650	June 3	676	148	99	2249
W. D. Allen Manufacturing Company. (See Gibbs, Henry, assignor.)						
W. F. Brothers Company. (See Brothers, William F., assignor.)						
W. F. & John Barnes Company. (See Barnes, William F., assignor.)						
W. G. Armstrong, Whitworth & Company. (See Brankston, Ralph T., assignor.)						
W. G. Armstrong, Whitworth & Company. (See Noble, Andrew, assignor.)						
W. G. Armstrong, Whitworth & Company. (See Wright, Roger, assignor.)						
W. G. Browne Manufacturing Company. (See Browne, William G., assignor.) (Re-issue.)						
W. G. Leale Manufacturing & Development Company. (See Vinzent, Theodore R., assignor.)						
W. J. Clark Company. (See Lane, Louis, assignor.)						
W. S. Nott Company. (See Braucht, Roy L., assignor.)						
W. S. Nott Company. (See Caldwell, John, assignor.)						
W. W. Sweeney Co. (See Seeley, James E., assignor.)						
W. W. Sweeney Co. (See Stumpf, Leo, assignor.)						
Waaser, John E. See Baines and Waaser.						
Wachhorst, Newton B. See Ross and Wachhorst.						
Wachhorst, Newton B., and M. J. Ross, San Francisco, Cal. Can-testing machine	715,324	Dec. 9	1289	276	101	2120
Wachter, Michael, Trenton, N. J. Fire-escape	709,127	Sept. 16	2141	491	100	2452
Wachwitz, Heinrich, Hersbruck, assignor of one-half to M. Dünkelsbühler, Nuremberg, Bavaria, Germany. Coating metals preparatory to being heated	708,788	Sept. 9	1437	-----	100	2288
Wack, John, Canton, Ohio. Mine trap-door	713,181	Nov. 11	1364	1306 1307	101	1193
Wackerhagen, Edward, Fort Lee, N. J. Loom	691,088	Jan. 14	1351	305	98	297
Waclark Wire Company. (See De Lanarter and Wallace, assignors.)						
Wadell, George F., Anaconda, Mont. Trommel	691,025	Jan. 14	1249	286	98	275
Waddell, George F., and W. J. Evans, Anaconda, Mont. Chilian mill	709,689	Sept. 23	3260	730 731	100	2697
Waddell, James, Glasgow, Scotland. Range-finding and surveying instrument	702,835	June 17	2840	1653 1654	99	2732
Waddell, Montgomery. (See Ough and Waddell.)						
Waddell, Montgomery, New York, N. Y. Lifting-bridge	693,467	Feb. 18	2372	519	98	1333
Waddell, Thomas J., Philbrook, Mont. Fertilizer-distributor	701,778	June 3	888	198	99	2294
Wade, Eli G. D., assignor of two-thirds to G. S. Corner and J. F. Davis, Malta, Ohio. Waistcoat	703,684	July 1	576	128	100	114
Wade, George H., Greeley, Neb. Wagon-body lifter	707,466	Aug. 19	3783	630	100	1729
Wade, James R., St. Louis, Mo. Radiator attachment	698,083	Apr. 22	3154	693	99	719

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Wade, James R., St. Louis, Mo. Vacuum steam-heating system	708,101	Sept. 2	185	44	100	2020
Wade, John E., Brooklyn, N. Y. Car-coupling	708,274	Sept. 2	517	117	100	2086
Wade, John E., Brooklyn, N. Y. Car-coupling	708,275	Sept. 2	519	118	100	2087
Wade, Martin J., Iowa City, Iowa. Receptacle for containing papers	708,028	June 24	3205	788	99	2823
Wade, Martin J., Iowa City, Iowa. Paste pot or jar	708,024	June 24	3206	788	99	2823
Wade, Martin J., Iowa City, Iowa. Back and arm rest for water-closet or other seats	709,945	Sept. 30	3784	854	100	2818
Wade, Royal H., Elma, Wash. Jeweler's tool	697,120	Apr. 8	1391	300	99	316
Wade, William H., et al. (See Grant, Max, assignor.)						
Wadkin, Joseph W. (See Jarvis, Wadkin, and King.)						
Wadsworth, Frank L. O., Williams Bay, Wis., assignor to W. A. Bond, trustee, Chicago, Ill. Illuminating structure	698,088	Feb. 11	1602	349	98	1155
Wadsworth, Frank L. O., Allegheny, Pa., assignor to Pressed Prism Plate Glass Company, Chicago, Ill. Prismatic fireproof structure	713,182	Nov. 11	1267	308	101	1194
Wadsworth, George A., Motetide, Minn. Adjustable stand	704,603	July 15	2315	502	100	499
Wadsworth, George H., and E. J. Sherwin, Cuyahoga Falls, Ohio. Core-making machine	698,767	Apr. 29	4494	993	99	1017
Wadsworth, Joseph. (See Brown, Fred, assignor.)						
Wadsworth, Joseph, Paterson, N. J. Swivel-loom	706,133	Aug. 5	245	51,52	100	1168
Waegel, William, Reading, Pa. Dental flask	715,182	Dec. 2	1020	221	101	2044
Wagandt, Charles L., Baltimore, Md., assignor to National Enameling & Stamping Co. Spout brace for sheet-metal vessels	704,408	July 8	1941	420	100	409
Wagar, George A., Rochester, N. Y. Ironing-board	713,724	Nov. 18	2441	545	101	1430
Wagener, Dietrich E. (See Wilcox and Wagener.)						
Wagener, Louise, Jacksonville, Fla. Window-seat	710,127	Sept. 30	4144	935	100	2894
Wagg, Solomon R., Appleton, Wis. Refining-engine	698,084	Apr. 23	3155	693	99	719
Waggoner, Edward P., Syracuse, N. Y., assignor to A. A. Griffing Iron Company, Jersey City, N. J. Separator	692,390	Feb. 4	299	73	98	861
Wagner, Adam C. (See Helm, James A., assignor.)						
Wagner, Alfred, Munich, Germany. Storage-box for photographic plates	699,595	May 6	885	205	99	1357
Wagner, Anton, Manville, R. I. Valve	692,391	Feb. 4	302	73	98	862
Wagner, Caspar M., Chicago, Ill. Rocking-chair	700,266	May 20	3253	514	99	1673
Wagner, Chapin, Indianapolis, Ind. Plow	699,468	Feb. 18	2374	519	98	1304
Wagner, Charles, and W. Wendtland, New York, N. Y. Mantle-trimmer	695,354	Mar. 11	1921	428	98	2133
Wagner, Charles W., Camden, N. J. Reversing-gearing	699,596	May 6	887	206	99	1358
Wagner, Charles W., Washington, D. C. Game apparatus	712,025	Oct. 28	3163	692	101	708
Wagner, Daniel, assignor of two-thirds to J. Berg and L. G. Polk, Little Rock, Ark. Mattress-making machine	716,354	Dec. 16	3304	720	101	2555
Wagner, Edward H., New York, N. Y. Torch	706,134	Aug. 5	247	52	100	1168
Wagner Electric Manufacturing Company. (See Begole, Joshua F., assignor.)						
Wagner Electric Manufacturing Company. (See Johannesen, Svend E., assignor.)						
Wagner, F. W., et al. (See Kerstetter, James L., assignor.)						
Wagner, Franz X., assignor to Wagner Typewriter Company, New York, N. Y. Type-writing machine	699,354	May 6	428	98	99	1261
Wagner, Franz X., assignor to Wagner Typewriter Company, New York, N. Y. Type-carrier action and means for mounting same	704,152	July 8	1482	317	100	311
Wagner, Franz X., assignor to Wagner Typewriter Company, New York, N. Y. Line-spacing mechanism for type-writers	708,600	Sept. 9	1070	242	100	2209
Wagner, George, and B. B. Bird, St. Paul, Minn. Frame for motor-bicycles	709,380	Sept. 16	2658	596	100	2561
Wagner, John, Denver, Colo. Means for shaping and sharpening drill-bits	706,135	Aug. 5	248	52	100	1168
Wagner, John W. (See Frazier, Wagner, and Isenberg.)						
Wagner, Joseph C., Greensburg, Pa. Curtain-stretching frame	714,069	Nov. 18	3120	690	101	1574
Wagner, Omar P., Pontiac, Ill. Fumigator	713,819	Nov. 18	2615	583	101	1468
Wagner-Palmros Manufacturing Company. (See Aultman, Thomas G., assignor.)						
Wagner-Palmros Manufacturing Company. (See Palmros, Alexander, assignor.)						
Wagner, Richard, St. Louis, Mo. Ornamental tile	714,838	Dec. 2	382	82	101	1912
Wagner Typewriter Company. (See Burridge and Smith, assignors.)						
Wagner Typewriter Company. (See Howell, Charles W., Jr., assignor.)						
Wagner Typewriter Company. (See Manning, Edward J., assignor.)						
Wagner Typewriter Company. (See Morrison, William W., assignor.)						
Wagner Typewriter Company. (See Neahr, Jacob E., assignor.)						
Wagner Typewriter Company. (See Wagner, Franz X., assignor.)						
Wagner, Walter, Berwyn, Ill. Water-filter	690,540	Jan. 7	331	67	98	71
Wagner, Walter, Berwyn, Ill. Filter-strainer	690,541	Jan. 7	331	67	98	72
Wagner, Wilhelm, Mansfeld, Germany. Hydraulic pump	707,284	Aug. 19	2461	552	100	1656
Wagner, William H., and G. H. Santer, Albany, Wis. Tobacco-case	693,469	Feb. 18	2576	529	99	1303
Wagoner, Henry V., Bensonhurst, N. Y. Combined letter-sheet and envelop	704,153	July 8	1483	318	100	311
Wagoner, John J., Leiters Ford, Ind. Metallic cross-tie	697,299	Apr. 8	1707	381	99	383
Wahl, Frank S. (See Hammersmith, Perry C., assignor.)						
Wahlberg, Andres F., Brooklyn, N. Y. Lock	703,506	July 1	325	53	100	47
Wahle, Adolph, Davenport, Iowa. Mechanical movement	705,492	July 22	4153	904	100	889
Wahle, Adolph, Davenport, Iowa. Combined hoop and leg-clip for tubs, &c	712,623	Nov. 4	308	72	101	903
Wahm, Gustavus A. N., Detroit, Mich. Bearing for scale-pivots	695,973	Mar. 25	3043	690	99	2395
Wahlen, Peter G., Cologne-Ehrenfeld, Germany. Stiffener for ladies' clothing	693,932	Feb. 25	3271	720	98	1534
Wahlert, Henry A., assignor to American Brake Company, St. Louis, Mo. Slack-adjuster for brakes	696,521	Apr. 1	232	53	99	53
Wahlert, Henry A., assignor to American Brake Company, St. Louis, Mo. Brake slack-adjuster	696,522	Apr. 1	234	53	99	54
Wahlert, Henry A., assignor to American Brake Company, St. Louis, Mo. Brake slack-adjuster	696,523	Apr. 1	235	54	99	54
Wahlert, Henry A., assignor to American Brake Company, St. Louis, Mo. Slack-adjuster for railway-brakes	696,524	Apr. 1	237	54	99	54
Wahlert, Henry A., assignor to American Brake Company, St. Louis, Mo. Locomotive-brake	696,525	Apr. 1	238	54	99	55
Wahlert, Henry A., assignor to American Brake Company, St. Louis, Mo. Brake slack-adjuster	696,526	Apr. 1	238	54	99	55
Wahman, Ernest S., and H. A. Rehberg, assignors to H. E. Nichols, O. D. W. and C. W. Inman, Beloit, Wis. Peg-cutter	692,320	Jan. 28	3495	790	98	775
Waibel, Frederick B., Brooklyn, assignor to Manhattan Brass Company, New York, N. Y. Combined lamp and lantern	709,654	Sept. 23	3196	713	100	2684
Wainman, John N., Evansville, Ind. Pilot-house indicator for steamboats, &c	715,325	Dec. 9	1291	276	101	2120
Wainwright, Edward W., Morris, Ill. Caster	715,629	Dec. 9	1847	411	101	2230



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Wainwright, Frank R., Jersey City, N. J. Checking-machine	705,494	July 22	4159	905 906	100 890	
Wainwright, William W., assignor to P. H. & F. M. Roots Company, Connersville, Ind. Rotary pump	704,224	July 8	1606	348	100 336	
Wait, Henry H., Chicago, Ill. Conductor for electromagnetic induction apparatus	693,578	Feb. 18	2591	573	98 1378	
Wait, Henry H., assignor to Western Electric Company, Chicago, Ill. Winding for dynamo-electric machines	693,579	Feb. 18	2593	574	98 1378	
Wait, Henry H., assignor to Western Electric Company, Chicago, Ill. Regulating multicircuit-generators	716,355	Dec. 16	3907	721	101 2556	
Wait, Henry H., assignor to Western Electric Company, Chicago, Ill. Regulating mechanism for multicircuit-generators	716,356	Dec. 16	3909	722 723	101 2556	
Waite Chair Company. (See Washburn, Theodore W., assignor.)						
Waite, Guy B., Hoboken, N. J. Center construction for floor-arches	703,025	June 24	3207	738	99 2823	
Waite, Henry E., Newton, Mass. Mail-marking machine	700,586	May 20	2866	658	99 1798	
Waite, Henry W., assignor of one-half to W. H. Cox, Wollaston, Mass. Steam-valve	706,613	Aug. 12	1190	264	100 1372	
Waitt, David M., et al. (See Reynolds, Charles J., assignor.)						
Wakefield, James S., Mangum, Okla. Ter. Rein support and holder	697,121	Apr. 8	1392	309	99 316	
Wakefield, William O. (See Knox and Wakefield.)						
Wakefield, William R., Mount Union, Pa. Machine for forming bricks, tile, &c	698,599	Apr. 29	4142	910 911 912	99 939	
Wakely, William, Taunton, Mass. Furnace	696,701	Apr. 1	584	131 132	99 127	
Wakeman, Rudolph H., Brockroad, assignor of sixty per cent. to W. D. Williams, Fredricksburg, Va. Car-brake	711,915	Oct. 21	2939	646	101 643	
Walbridge, William D. (See Hugentobler, Emil M., assignor.)						
Walchner, Carl A., Offenbach-on-the-Main, Germany. Frame for sliding windows, sashes, or the like	716,066	Dec. 30	4617	1001	101 2874	
Waldhorn, Jens M. K., Chicago, Ill. Toy	709,728	Sept. 23	3825	748	100 2712	
Walden, Charles H. (See Perry, Frank J. A., assignor.)						
Waldleyer, Henry J. (See Breunig and Waldleyer.)						
Waldmann, Adolph W., Chicago, Ill., and F. E. Kaiser, Cincinnati, Ohio. Machine for trimming and marking cigars	703,026	June 24	3208	739	99 2823	
Waldmire, Henry W., Philadelphia, Pa. Ventilator	693,193	Feb. 11	1857	401	98 1205	
Waldo, John A., Jr., Reading, Mass. Device for fastening loose-leaf books	708,102	Sept. 2	187	44	100 2020	
Waldo, Rufus W., and A. G. Bonham, King City, Mo. Windmill cut-off	692,392	Feb. 4	303	73	98 862	
Waldron, Frederick A., Stamford, Conn. Motor-vehicle	696,121	Mar. 25	3355	757	98 2461	
Waldron, Harry L., Providence, assignor of one-half to W. H. Crowninshield and C. H. Lawton, Pawtucket, R. I. Combined vizor and eye-shield	694,449	Mar. 4	215	48	98 1758	
Waldron, Harry L., Providence, assignor of one-half to W. H. Crowninshield and C. H. Lawton, Pawtucket, R. I. Combined cap-vizor and eye-shield	700,587	May 20	2868	659	99 1798	
Waldron, John, assignor to Sprout, Waldron & Company, Muncy, Pa. Balance-wheel	713,725	Nov. 18	2442	545	101 1430	
Valenta, Frank, North Tarrytown, N. Y. Game	697,574	Apr. 15	2213	498	99 502	
Wales, Anna E., Minneapolis, Minn. Shears	708,683	Sept. 9	1229	281	100 2242	
Wales, Cornelius M., Guntown, Miss. Combined table-spread and napkin-holder	705,496	July 22	4164	906	100 891	
Wales, Nathaniel B., Braintree, Mass. Heater or boiler	703,685	July 1	578	129	100 114	
Wales, Nathaniel B., Braintree, Mass. Combined water-closet and flushing reservoir	716,315	Dec. 15	3224	704	101 2540	
Wales, Samuel S., Munhall, Pa. Furnace-charging apparatus	698,708	Apr. 29	4495	993	99 1018	
Wales, Samuel S., Munhall, Pa. Hoisting apparatus	699,902	May 13	1676	385	99 1333	
Wales, Theodore F., Bridgeport, Conn. Package for grain products	701,970	June 10	1227	279	99 2380	
Walker, Ambrose L., Camden, N. J. Egg-separator	697,759	Apr. 15	2560	569	99 573	
Walker, Arthur W., Malden, Mass. Stove	697,185	Apr. 8	1502	385	99 339	
Walker, Charles W. (See Briggs, Thomas H., assignor.)						
Walker, Edward H. (See Smith, Matthew, assignor.)						
Walker, Edward M. (See Viole, Walker, and Robinson.)						
Walker, Edwin, Erie, Pa. Bottle-tap	692,951	Feb. 11	1357	295	98 1104	
Walker, Edwin, Erie, Pa. Cigar-tip cutter	694,591	Mar. 4	489	106	98 1817	
Walker, Edwin, Erie, Pa. Bottle-neck-clamping mechanism for cork-pullers	713,540	Nov. 11	2097	469	101 1344	
Walker, Elmer, River Point, R. I., and F. E. Walker, Boston, Mass. Registering directory or indicator for offices	691,989	Jan. 28	3064	688	98 688	
Walker, Ernest. (See Mackean and Walker.)						
Walker, Ferdinand A., Minneapolis, Minn. Carpet-beater	712,984	Nov. 4	973	227	101 1096	
Walker, Frank, Los Angeles, Cal. Combined solar and artificial heat water-heater	705,167	July 22	3462	754	100 750	
Walker, Frank E. (See Walker, Elmer and F. E.)						
Walker, Frederick W., Utica, N. Y. Bed-frame	708,431	Sept. 2	771	173	100 2137	
Walker, George. (See Carnes, John W., assignor.)						
Walker, George A., assignor to Creamery Package Manufacturing Company, Chicago, Ill. Rotary pump	693,470	Feb. 18	2377	520	98 1335	
Walker, George G. (See Cornett and Walker.)						
Walker, George M., Lincoln, Nebr. Rotary engine	713,541	Nov. 11	2099	470	101 1344	
Walker, Harry B., Brockton, Mass. Shoe form or last	703,686	July 1	579	129	100 115	
Walker, Ira B., Etina, Cal. Butter-cutter	693,760	Feb. 18	2922	642 643	98 1447	
Walker, Isaac J. (See Shick, Lehman, and Walker.)						
Walker, James A., assignor of one-half to C. W. Weaver, Rockford, Ill. Windmill-regulator	695,897	Mar. 18	2906	659	98 2354	
Walker, James C., Waco, Tex. Motor	696,612	Apr. 1	338	92 98	99 87	
Walker, James C., Waco, Tex. Steam-generator	704,722	July 15	2598	542 543 552 553	100 540	
Walker, James G., Moro, Oreg. Attachment for threshing-machines	707,287	Aug. 19	2465	553	100 1657	
Walker, James H., assignor of one-half to E. H. Bottum, Milwaukee, Wis. Preventing oxidation of molten metals	698,769	Apr. 29	4496	993	99 1018	
Walker, John B., assignor of two-fifths to E. F. Nordman and O. E. Randle, Bessemer, Ala. Hand-roller	699,341	Feb. 11	2120	465	98 1262	
Walker, John H., Lexington, Ky. Trolley pole harp	714,267	Nov. 25	3339	776	101 1673	
Walker, John H., Lexington, Ky. Contact for trolley-harps	714,368	Nov. 25	3333	777	101 1679	
Walker, Joseph, St. Elmo, Va., assignor of one-half to H. P. West, Washington, D. C. Plunger-adjusting mechanism for re-press brick-machines	708,276	Sept. 2	520	118	100 2087	
Walker, Joseph M., Newcastle, Pa. Electric or automatic switch-throwing mechanism	712,026	Oct. 28	3165	692	101 706	
Walker, Milo S., Chicago, Ill. assignor to General Electric Company. Circuit-interrupter	708,182	Sept. 2	343	81 82	100 2917	
Walker, Milo S., assignor of two-thirds to M. and A. L. Herskovitz, Chicago, Ill. Burner	707,285	Aug. 19	2462	552	100 1657	
Walker, Milo S., assignor of two-thirds to M. and A. L. Herskovitz, Chicago, Ill. Burner	707,286	Aug. 19	2464	552	100 1657	
Walker, Milton W. (See Day, Charles M., assignor.)						
Walker, Oakley S., Worcester, Mass. Magnetic chuck	691,828	Jan. 28	2784	626	98 621	

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Walker, Oakley S., Worcester, Mass. Grinding-machine .....	693,471	Feb. 18	2379	521	98	1335
Walker, Oakley S., Worcester, Mass. Grinding-machine .....	712,571	Nov. 4	760	176	101	1054
Walker, Randall W., Oxford, N. Y. Holdback .....	696,527	Apr. 1	240	55	99	55
Walker, Reinert R., Indianapolis, Ind. Bracket-shelf .....	704,154	July 8	1486	318	100	312
Walker, Robert L., New York, N. Y. Garbage-furnace .....	709,946	Sept. 30	3786	854	100	2818
Walker, Samuel. (See Hindley, Walker, and Rose.)						
Walker, Samuel J., Leesville, La. Force-draft attachment for stoves .....	707,188	Aug. 19	2280	510	100	1619
Walker, Theodore M., and L. H. Warren, Des Moines, Iowa. Brick-trimming machine .....	715,909	Dec. 16	2425	537	101	2373
Walker, Thomas F. and T. S., Birmingham, England. Electrical ship's-log apparatus .....	701,651	June 3	677	148 150	99	2250
Walker, Thomas S. (See Walker, Thomas F. and T. S.)						
Walker, William. (See Wilson, Robert, assignor.)						
Walker, William H. (See Mork, Little, and Walker.)						
Walker, William H., Newtonville, assignor to Towle Manufacturing Company, Newburyport, Mass. Alloy of silver .....	712,027	Oct. 28	3166		101	707
Walker, William R., Sabula, Iowa. Napkin-support .....	703,864	July 1	893	197	100	180
Walkins, Louis E., Springfield, Mass. Trolley for electric-railway cars .....	715,714	Dec. 9	2007	449 450	101	2264
Walkins, Louis E., Springfield, Mass., assignor to E. W. Farnham, Chicago, Ill. Electric-railway system .....	709,063	Sept. 16	2017	460	100	2424
Wall, Asbel T., East Greenwich, R. I. Composite wire and making same .....	697,575	Apr. 15	2214	493	99	503
Wall, Charles, Alexandria, Minn. Windmill .....	713,820	Nov. 18	2617	584	101	1468
Wall, Charles F., Philadelphia, Pa. Nose-piece for eyeglasses .....	707,883	Aug. 26	3677	827	100	1921
Wall, Charles L., Philadelphia, Pa. Window frame and sash .....	708,430	Sept. 2	770	173	100	2137
Wall, John C., and M. E. Schedbauer, Jr., assignors to Ring Frame Thread Protector Company, Amsterdam, N. Y. Protector for ring-spinning frames .....	693,876	Mar. 18	2868	651	98	2346
Wall, Julius, Berlin, Germany. Automatic releasing mechanism for phonographs, &c. ....	694,705	Mar. 4	707	134 155	98	1861
Wall and Ochs. (See Wall and Propert, assignors.)						
Wall and Ochs. (See Waugh, Henry H., assignor.)						
Wall, Osborne, assignor of one-third to R. C. Hughes, New Plymouth, New Zealand. Fountain-pen .....	703,323	June 24	3744	862	99	2930
Wall, Patrick, and B. W. Moore, Allegheny, Pa.; said Moore assignor to said Wall. Oil-cannon .....	696,384	Mar. 25	3924	899	98	2575
Wall, William L., and L. Propert, assignors to Wall and Ochs, Philadelphia, Pa. Eyeglasses or spectacles .....	701,111	May 27	3884	892	99	2028
Wallace, Allen B., Newcastle, Pa. Lock .....	705,495	July 22	4163	906	100	890
Wallace, Charles, assignor to New Era Machinery Company, Denver, Colo. Pulverizing-mill .....	693,089	Feb. 11	1603	1349 1350	98	1155
Wallace, David T., Chicago, Ill. Nut-lock .....	690,902	Jan. 7	1008	227	98	211
Wallace, David T., assignor of one-third to C. F. Thompson, Chicago, Ill. Nut-lock .....	703,166	June 24	3490	802	99	2877
Wallace, Dora M., Gainesville, assignor of one-half to S. C. Taylor, Bayport, Fla. Attachment for ovens .....	714,537	Nov. 25	4021	890	101	1776
Wallace, Frederick W. (See De Lamarter and Wallace.)						
Wallace, James C., Colorado City, Colo. Window-shade hanger .....	699,264	May 6	251	58	99	1225
Wallace, James C., Colorado City, Colo. Filter-bed .....	705,726	July 29	4663	1011	100	1003
Wallace, John G., assignor of one-half to J. R. Morgan, Chicago, Ill. Document-envelope .....	698,600	Apr. 29	4145	912	99	930
Wallace, John H., Stravithie, Scotland. Strap-grip for snaffling horses, &c. ....	702,166	June 10	1601	361 362 373 374	99	2456
Wallace, John H., Stravithie, Scotland. Rope-grip for snaffling .....	704,282	July 8	1713	373 374	100	369
Wallace, Levi. (See Chapman, George F., assignor.)						
Wallace Manufacturing Company. (See Hix, Howard L., assignor.)						
Wallace, Michael W., Eveleth, Minn. Rotary engine .....	711,600	Oct. 21	2320	506 507	101	512
Wallace, Samuel A. (See Hammond, Leander W., assignor.)						
Wallace, Thomas, Wheeling, W. Va. Horizontal bar .....	715,530	Dec. 9	1673	365	101	2195
Wallace, William C., assignor of one-half to John Brown & Company, Limited, Sheffield, England. Furnace for water-tube steam-boilers .....	691,089	Jan. 14	1352	306 307	98	297
Wallace, William L., et al. (See Fitzgerald, Seifert, and Kimmel, assignors.)						
Wallace, William W., Wiltoughby, assignor to American Clay-Working Machinery Company, Bucyrus, Ohio. Rotary mechanical drier .....	711,027	Oct. 14	1194	263	101	263
Waller, Henry P. (See Hage and Waller.)						
Waller, William A. C., assignor to Acton Concrete Partition Company, Limited, London, England. Block or tile for partitions, walls, &c. ....	690,811	Jan. 7	857	188	98	180
Wallerstein, Max, and H. H. Freund, New York, N. Y. Apparatus for aerating wort improving the quality of yeast .....	692,170	Jan. 28	3383	766	98	751
Wallerstein, Max, and H. H. Freund, New York, N. Y. Apparatus for mixing wort and yeast and aerating them .....	695,974	Mar. 25	3045	690	98	2896
Wallihan, Orlando F., Reliance, Va. Silo .....	703,324	June 24	3745	862	99	2930
Wallin, Gustaf E., Chicago, Ill. Linotype-slug holder .....	699,728	May 13	1152	268	99	1425
Walling, Samuel E., New Whatcom, Wash. Planer-chuck .....	715,326	Dec. 9	1292	277	101	2120
Wallis, Edward D., Bluemound, Kans. Corn-harvester .....	706,614	Aug. 12	1192	264 265	100	1872
Wallis, Henry E., Chicago, assignor of forty-nine one-hundredths to C. S. Platt, Springfield, Ill. Adjustable brace .....	711,916	Oct. 21	2941	647	101	643
Wallis, Thomas R., Dyersburg, Tenn. Harrow tooth-bar .....	712,321	Oct. 28	3519	771	101	775
Wallis, Thomas R., Dyersburg, Tenn. Colter-bearing .....	714,070	Nov. 18	3121	690	101	1574
Wallmann & Co., Joh. F. (See Cerebotani, Luigi, assignor.)						
Wallmann Engine Company. (See Wallmann, Henning F., assignor.)						
Wallmann, Henning F., Chicago, Ill., assignor to Wallmann Engine Company. Internal-combustion oil-engine .....	690,542	Jan. 7	332	68	98	72
Wallmann, Henning F., Chicago, Ill., assignor to Wallmann Engine Company. Air-exhausting apparatus .....	692,741	Feb. 4	913	210	98	986
Wallmann, Henning F., Chicago, Ill., assignor to Wallmann Engine Company. Internal-combustion engine .....	713,366	Nov. 11	1758	396 397	101	1274
Wallmann, Henning F., Chicago, Ill., assignor to Wallmann Engine Company. Internal-combustion engine .....	713,367	Nov. 11	1762	397 398	101	1275
Walls, Joseph A., and R. L. Boyter, Neri, Tex. Wire-stretcher .....	696,881	Apr. 1	931	212	99	197
Walrath, Alphonso. (See Weller, Marvin E., assignor.)						
Walrath, Jesse. (See Smith, James M., assignor.)						
Walrath, Jesse, Racine, Wis. Igniter-controlling mechanism for explosive-engines .....	691,509	Jan. 21	2166	485	98	487
Walsh, Braine, Lansingburg, N. Y. Trunk .....	700,588	May 20	2870	659	99	1738
Walsh, James, Jr., Philadelphia, Pa. Stop-valve .....	694,706	Mar. 4	708	155	98	1861



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Walsh, James, Jr., Philadelphia, Pa. Nut-lock	717,058	Dec. 30	4799	1040	101	2913
Walsh, John E., Philadelphia, Pa. Locking system for mail-boxes	699,597	May 6	888	206	99	1358
Walsh, John J., et al. (See McGarvey, Edward, assignor.)						
Walsh, Laurence J., New York, N. Y., assignor of one-fourth to M. J. Sullivan, Butte, Mont. Automatic vent-valve	701,428	June 3	258	58	99	2161
Walsh, Michael, and J. N. Angers, Bay City, Mich. Wrench	708,183	Sept. 2	345	82	100	2452
Walsh, Patrick W., Butte, Mont. Wrench	692,742	Feb. 4	921	210	98	987
Walsh, Thomas, Lowell, Mass. Apparatus for steaming fabrics, &c.	692,171	Jan. 28	3384	705	98	752
Walter, Charles F., New York, N. Y. Holder for pens, pencils, or the like	714,538	Nov. 25	4022	890	101	1776
Walter, Charles M., Cincinnati, Ohio, assignor to International Leather Company of South Dakota. Tanning and leaching apparatus	713,542	Nov. 11	2102	470	101	1344
Walter, Friedrich B., Dresden, Germany. Combined garment-holder and trousers-stretcher	717,147	Dec. 30	4961	1076	101	2947
Walter, Gustav E. (See Parker, George H., assignor.)						
Walter, Gustave, Sandwich, Ill. Combined storm-apron and dust-hood	706,285	Aug. 5	571	123 124	100	1281
Walter, Henry S. (See Riecker and Walter.)						
Walter, Henry S. (See Stanley and Walter.)						
Walter, Henry S. (See Traut and Walter.)						
Walter, Joseph J., and J. S. Brockert, Wapakoneta, Ohio; said Brockert assignor to said Walter. Garment	697,576	Apr. 15	2216	494	99	503
Walter, Stanley L., and F. W. Keiner, Elacostown, Pa. Hardening copper	701,429	June 3	259	59	99	2161
Walter, William, Rosebank, N. Y. Apparatus for cooling syrups	701,971	June 10	1229	280	99	2380
Walter, William, Shelton, Wash. Means for sealing preserving-jars	714,539	Nov. 25	4023	890	101	1776
Walter, William L., Port Huron, Mich., assignor of one-fourth to B. H. Brockway, Washington, D. C. Current-motor	703,355	June 24	3825	879	99	2948
Walter, William L., Port Huron, assignor of one-half to S. W. Smith, Pontiac, Mich., and B. H. Brockway, Washington, D. C. Current-motor	701,430	June 3	260	58, 59	99	2161
Walters, Charles, et al. (See Clark, Spencer, assignor.)						
Walters, Edward E., assignor of one-half to B. A. Mink, Lehighton, Pa. Stove	693,761	Feb. 18	2924	643	98	1447
Walters, Edward E., assignor of two-fifths to B. A. Mink, Lehighton, Pa. Adjustable electric-light support	694,810	Mar. 4	907	202	98	1904
Walters, George W., London, Canada. Renewable-seat valve	690,490	Jan. 7	225	45	98	49
Walters, Nels P., Fort Madison, Iowa. Toy	700,861	May 27	3428	787	99	1981
Walters, William J. H., Syracuse, N. Y. Shampooing-hood	717,148	Dec. 30	4962	1077	101	2947
Walters, William G., Liverpool, England. Molding apparatus	704,155	July 8	1487	310	100	312
Walther, Arthur C., Brooklyn, N. Y. Battery-end-cell switch-indicator	690,800	Jan. 7	837	185	98	176
Walther, Arthur C., East Orange, N. J. End-cell-switch indicator	717,477	Dec. 30	5577	1211	101	3077
Walther, Charles F. (See Peoples and Walther.)						
Walther, Edward, Washington, Iowa. Carbureter	707,467	Aug. 19	2785	631	100	1724
Walther, Edward, Washington, Iowa. Air-pump	708,944	Sept. 9	1747	403	100	2351
Walther, Robert E., Verdau, Germany. Incandescent spirit-lamp	716,316	Dec. 16	3225	705	101	2540
Walther, William J., Boston, Mass. Insulator for electric circuits	700,463	May 20	2646	606	99	1751
Walton, Jesse M., Stephenville, Tex. Planter	701,779	June 3	889	198	99	2265
Walton, Herbert G., Bates County, Mo. Seeding attachment for grain-drills	705,497	July 22	4165	906	100	891
Walton, Jerrold F., Sturgis, Mich. Adjustable-back chair	705,171	July 22	3472	755	100	732
Walton, John, Erie, Pa., assignor of one-half to Allis-Chalmers Company. Sawmill set-works	707,370	Aug. 19	2606	589	100	1686
Walton, John, Milwaukee, Wis., assignor, by mesne assignments, of one-half to Allis-Chalmers Company. Sawmill set-works	714,269	Nov. 25	3535	777	101	1689
Walton, John H., et al. (See Boorman and Sharp, assignors.)						
Walton, Morris. (See Gaul, William F., assignor.)						
Walton, Orrin E., Sycamore, Ohio. Machine for blowing glass	703,325	June 24	3746	803	99	2930
Walton Signal Company. (See Walton, William H., assignor.)						
Walton, Thomas J., Corsicana, Tex. Grate	703,865	July 1	898	198	100	180
Walton, William G., and D. W. Harner, Philadelphia, assignors of one-third to E. W. Evans, West Philadelphia, Pa. Garment-supporter	707,736	Aug. 26	3340	748	100	1855
Walton, William H., Brooklyn, assignor to Walton Signal Company, New York, N. Y. Railway-signal	715,183	Dec. 2	1622	221	101	2045
Walton, William L., Neche, N. D. Cleaning attachment for disk implements	715,910	Dec. 16	2429	537	101	2374
Waltrip, Henry B., assignor of one-half to J. W. Tunstall, Epley Station, Ky. Convertible harrow and land-mower	700,862	May 27	3429	788	99	1932
Walworth & Neville Manufacturing Company. (See Neville, Wilkinson D., assignor.)						
Walz, Charles J., assignor to West Disinfecting Company, New York, N. Y. Air-forcing device for atomizers	700,095	May 27	3693	841	99	1978
Walz, Charles J., assignor to West Disinfecting Company, New York, N. Y. Apparatus for disinfecting	702,041	June 10	1361	310	99	2404
Wanamaker, John. (See Miller, Stanley G., assignor.)						
Wanamaker, John. (See Rehffuss and Tily, assignors.)						
Wanamaker, John. (See Tily and Rehffuss, assignors.)						
Wandell, Charles C., Philadelphia, Pa. Woodworking-clamp	710,544	Oct. 7	294	64	101	50
Wandell, William, et al. (See Vogler, Hugo P., assignor.)						
Wander, Alfred K., and R. Dalmar, Chicago, Ill. Suspenders	698,085	Apr. 22	3156	694	99	719
Wands, John C., St. Louis, Mo. Roller side bearing	694,503	Mar. 4	301	69	98	1775
Wands, John C., St. Louis, Mo. Side bearing for railway-cars	694,504	Mar. 4	305	69, 70	98	1777
Wands, John C., St. Louis, Mo. Roller side bearing	694,505	Mar. 4	309	70	98	1778
Wands, John C., St. Louis, Mo. Side bearing	694,506	Mar. 4	311	70	98	1778
Wands, John C., St. Louis, Mo. Roller side bearing	695,849	Mar. 18	2817	641	98	2335
Wands, John C., St. Louis, Mo. Side bearing for railway-cars	696,385	Mar. 25	3925	809	98	2575
Wands, John C., St. Louis, Mo. Roller side bearing	708,601	Sept. 9	1071	242	100	2209
Wands, John C., St. Louis, Mo. Side bearing	713,183	Nov. 11	1368	308	101	1194
Wands, John C., St. Louis, Mo. Car-truck bolster	713,368	Nov. 11	1765	397	101	1275
Wands, John C., St. Louis, Mo. Car-truck bolster	713,543	Nov. 11	2104	471	101	1345
Wands, John C., St. Louis, Mo. Car-truck	717,304	Dec. 30	5268	1143 1144	101	3014
Wands, John C., and F. R. Cornwall, St. Louis, Mo.; said Cornwall assignor to Chicago Railway Equipment Company, Chicago, Ill. Side bearing for railway-cars	696,286	Mar. 25	3675	822	98	2526
Wangenheim, Melville H. (See Campbell, Emerson B., assignor.)						
Wangerin, August. (See Wangerin, John G. and A.)						
Wangerin, John G., Springfield, Minn. Sprocket attachment	697,577	Apr. 15	2216	494	99	503
Wangerin, John G., Springfield, Minn. Implement-seat	709,619	Sept. 23	3141	699	100	2673
Wangerin, John G. and A., Springfield, Minn. Fastening means for binder-aprons	716,967	Dec. 30	4618	1001 1002	101	2874
Wanless, John, Bay City, Mich. Window-locking device	707,039	Aug. 12	1978	444	100	1587

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Wanless, Richard R., assignor to A. Weil, New York, N. Y. Button-sewing machine.....	698,812	Apr. 22	3642	806	99	820
Wansbrough, William D., Lincoln, England. Two-speed gear-wheel.....	709,381	Sept. 16	2660	596	100	2562
Wansbrough, William D., Lincoln, England. Variable sprocket-gear.....	712,985	Nov. 4	474	298	101	1096
Wansbrough, William H., South Bend, Ind. Door for mail-wagons.....	700,868	May 27	3480	788	99	1932
Wantz, Julius B., Chicago, Ill., assignor to Victor Electric Company. Massaging implement.....	703,100	June 24	3363	772	99	2853
Waples, Margaret E., Ann Arbor, Mich. Hat-fastener.....	703,507	July 1	229	54	100	47
Wappler, Reinhold H., New York, N. Y. Electro-surgical instrument.....	702,752	June 17	2687	617	99	2700
Ward, Alexander F., Memphis, Tenn. Hoop-coiling machine.....	716,317	Dec. 16	3226	705	101	2540
Ward, Arthur D., et al. (See Bachmann, Frederick, assignor.).....						
Ward, Baldwin D., Millport, N. Y. Ball-bearing.....	696,777	Apr. 1	730	165	99	156
Ward, Dell, assignor of one-half to J. R. Taylor, Grand Rapids, Mich. Flash-light gas-burner.....	695,014	Mar. 11	1304	288	98	2005
Ward, George R., New York, N. Y., assignor to C. F. Coburn, Boston, Mass. Bag-machine.....	690,491	Jan. 7	226	45, 46	98	49
Ward, James, Delaware, assignor to International Oil Furnace Company, Limited, Scotswood Road, Delaware, near Newcastle-on-the-Tyne, county of Northumberland, England. Portable furnace.....	695,015	Mar. 11	1305	289	98	2005
Ward, James, assignor to International Oil Furnace Company, Limited, Newcastle-upon-Tyne, England. Furnace.....	695,975	Mar. 25	3047	691	98	2396
Ward, John S. (See Ivor and Ward.).....						
Ward, Neil, Lonsdale, R. I., assignor to Draper Company, Hopedale, Mass. Filling-replenishing loom.....	691,734	Jan. 21	2574	577	98	571
Ward, Peter W., et al. (See Douglas, Peyton, assignor.).....						
Ward, Richard, assignor to L. G. Bloomingdale, New York, N. Y. Bracket for supporting awning rods.....	691,026	Jan. 14	1251	283	98	276
Ward, Richard B., assignor of one-third to N. L. Camp, San Marcos, Tex. Hinge-gainer.....	695,355	Mar. 11	1923	429	98	2132
Ward, Timothy M., Newark, N. J. Coffee-roaster.....	703,508	July 1	280	54, 55	100	47
Ward, William J., Pittsburg, Pa. Rail-joint.....	691,680	Jan. 21	2477	555	98	551
Ward, William J., Pittsburg, Pa. Car-fender.....	698,762	Feb. 18	2925	644	98	1447
Ward, Willis J., assignor of one-half to C. C. Kolars, Lesueur Center, Minn. Gage-pin for job-printing presses.....	698,343	Apr. 22	3043	806	99	820
Wardell, John G. (See Cowan, Jewett, and Wardell.).....						
Warden, George W. (See Cox and Warden.).....						
Warden, William F. (See Maranville and Warden.).....						
Warder, Bushnell & Glessner Co. (See Bauer, Charles L., assignor.).....						
Warder, Bushnell & Glessner Company. (See Myers, William B., assignor.).....						
Warder, Bushnell & Glessner Company. (See Sperry, Herbert B., assignor.).....						
Wardle, William W. (See Keith and Wardle.).....						
Wardwell, Frank A., Methuen, Mass. Loom-picker.....	691,212	Jan. 14	1569	356	98	342
Wardwell, Simon W., Providence, R. I. Cop or package of yarn for dyeing.....	712,986	Nov. 4	977	229	101	1097
Wardwell, Simon W., Providence, R. I. Dyeing enveloped yarns.....	712,987	Nov. 4	980	229	101	1097
Wardwell, Simon W., Providence, R. I., assignor to Universal Winding Company, Portland, Me. Machine for winding composite cops.....	690,492	Jan. 7	230	47, 48, 49	98	50
Wardwell, Simon W., Providence, R. I., assignor to Universal Winding Company, Portland, Me. Cop-tube carrier.....	690,493	Jan. 7	242	49	98	53
Wardwell, Simon W., Providence, R. I., assignor to Universal Winding Company, Portland, Me. Expansion-pulley.....	690,494	Jan. 7	244	50	98	53
Wardwell, Simon W., Providence, R. I., assignor to Universal Winding Company, Portland, Me. Lubricating device.....	712,745	Nov. 4	515	121	101	1004
Wardwell, Simon W., Providence, R. I., and H. H. Ricker, assignors to Mossberg Wrench Co., Attleboro, Mass. Wrench.....	698,086	Apr. 22	3158	664	99	719
Ware, Erastus A., assignor of one-half to M. B. McDonald, Noank, Conn. Pipe-wrench.....	700,064	Sept. 16	2019	461	100	2424
Ware, Francis A. (See Griswold, George W., assignor.).....						
Ware, Henry M., Lexington, Ky. Valve.....	695,016	Mar. 11	1306	289	98	2006
Ware, John M., Shuteston, La. Strainer for well-tubing.....	713,544	Nov. 11	2106	471	101	1345
Ware, John W., trustee. See Plumtree, Oliver L., assignor.).....						
Ware, Joseph L., St. Paul, Minn. Grain-binder.....	702,335	June 10	1882	429, 430, 431	99	2510
Ware, Thomas F., Colfax, Cal. Thill-coupling.....	707,741	Aug. 26	3369	758	100	1869
Ware, Walter F., Camden, N. J. Medicine-dropper.....	703,101	June 24	3364	772	99	2853
Ware, Walter F., Camden, N. J., and W. R. Cartledge, Philadelphia, Pa. Elastic stocking.....	707,659	Aug. 26	3198	717	100	1826
Wareham, Fred A., East Providence, R. I. Coupling.....	707,901	Aug. 26	3873	870	100	1959
Wareham, George W., Pittsburg, Pa. Mattress-filler.....	697,445	Apr. 8	1263	281	99	288
Warfel, Henry C., assignor of one-half to I. V. Gray, Phillipsburg, Pa. Window-cleaner.....	697,780	Apr. 15	2561	569	99	573
Waring, Arthur B., Yonkers, N. Y. Machine for flanging hat-brims.....	713,545	Nov. 11	2107	472	101	1345
Waring, Edward M., Brooklyn, N. Y. Long-knife cloth-cutting machine.....	691,090	Jan. 14	1354	307	98	297
Waring, Pierre C., Yonkers, N. Y. Automatic feeding and weighing mechanism.....	698,234	Apr. 22	3469	763, 764	99	784
Waring, Thomas, Camden, N. J. Ink-receptacle.....	713,546	Nov. 11	2109	472	101	1346
Warick, William. (See Salisbury, Herbert L., assignor.).....						
Warlick, Oscar, Chicago, assignor to F. W. Peterson, Zion City, Ill. Garment-supporter.....	695,511	Mar. 18	2186	494	98	2206
Warlick, Oscar, assignor to D. E. Terriere, Chicago, Ill. Garment-supporter.....	699,265	May 6	252	58	99	1225
Warlick, Noah F., Chattanooga, Tenn. Fan-operating device.....	707,040	Aug. 12	1979	444	100	1537
Warne, James F., Ottawa, Canada. Separable ledger.....	715,184	Dec. 2	1023	222	101	2045
Warner, Austin P., assignor to Duplex Printing Press Company, Battlereck, Mich. Printing-press.....	698,344	Apr. 22	3644	806	99	820
Warner Brothers Company. (See Warner, De Ver H., assignor.).....						
Warner, Charles H., Beloit, Wis. Paper-making machine.....	703,714	July 1	625	139, 140	100	123
Warner, Claude B., Avon, Ill. Window-screen.....	704,992	July 15	3017	609	100	662
Warner, Daniel, Bronson, Mich. Dirt or mud guard for vehicles.....	712,624	Nov. 4	309	72	101	963
Warner, Daniel, Bronson, Mich., assignor of one-half to J. W. Stone, Brooklyn, N. Y. Drilling machine.....	690,122	Apr. 29	5155	1142	99	1159
Warner, De Ver H., assignor to Warner Brothers Company, Bridgeport, Conn. Supporting or connecting means.....	696,528	Apr. 1	240	55	99	55
Warner, De Ver H., assignor to Warner Brothers Company, Bridgeport, Conn. Stocking-supporter.....	713,184	Nov. 11	1869	309	101	1194
Warner, Dwight M., Sparta, Mich. Brick-drying shed.....	715,185	Dec. 2	1023	222	101	2045
Warner, Eugene L., Waverly, Kans. Woven-wire fence fabric.....	709,065	Sept. 16	2020	461	100	2424
Warner, Francis D. (See Pratt, Allison A., assignor.).....						
Warner, George M., Brooklyn, N. Y., assignor, by mesne assignments, to Central Cyclone Company, Ltd., London, England. Apparatus for supplying fuel to furnaces.....	707,992	Aug. 26	3875	870, 871	100	1950



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Warner, George W., Beatrice, Nebr. Window-cleaner.	695,183	Mar. 11	1619	359	98	2071
Warner, Henry H., Tacoma, Wash. Coupling mechanism for railway steam or air pipes	708,108	Sept. 2	188	44, 45	100	2020
Warner, Henry H., Tacoma, Wash. Flexible pipe-joint.	708,104	Sept. 2	189	45	100	2020
Warner, Hugh L., and W. H. Lonsdale, assignors to Dayton Motor Vehicle Co., Dayton, Ohio. Hydrocarbon-burner.	716,497	Dec. 23	3598	786	101	2034
Warner, Isaac M., assignor to F. C. Boise, Union City, Mich. Telegraph-pole or fence-post.	698,424	Apr. 22	3794	837	99	852
Warner, Isaac M., assignor to F. C. Boise, Union City, Mich. Fence-post, telegraph-pole, or the like	702,893	June 17	2949	680	99	2753
Warner, Isaac M., assignor to F. C. Boise, Union City, Mich. Wire-fence stretcher	705,498	July 22	4166	907	100	891
Warner, Isaac M., assignor to F. C. Boise, Union City, Mich. Wire-fence stretcher	708,277	Sept. 2	521	119	100	2087
Warner, Isaac M., assignor to F. C. Boise, Union City, Mich. Fence-post	709,835	Sept. 23	3344	799	100	2757
Warner, Isaac M., assignor to F. C. Boise, Union City, Mich. Wire-fence stretcher	714,071	Nov. 18	3122	690	101	1575
Warner, Isaac M., assignor to F. C. Boise, Union City, Mich. Fence-post or telegraph-pole.	716,968	Dec. 30	4021	1002	101	2874
Warner, James H. (See Moyle, Richard L., assignor.)						
Warner, John F., Boston, Mass. Hair-drier	696,122	Mar. 25	3356	757	98	2461
Warner, John G., Creighton, Nebr. Ticket-case	711,601	Oct. 21	2321	507	101	512
Warner, John H., West Plains, Mo. Register	716,785	Dec. 23	4173	915	101	2754
Warner, Lorin V., Cassopolis, Mich. Spring draft attachment.	704,604	July 15	2316	503	100	499
Warner, Maggie, Chicago, Ill. Strainer	695,593	Mar. 18	2367	536	98	2244
Warner, Morris L. and W. D., Hudson, Mich. Gas-separator.	693,763	Feb. 18	2026	644	98	1448
Warner & Swasey Company. (See Fecker, Gottlieb, assignor.)						
Warner and Swasey Company. (See Warner and Fecker, assignors.)						
Warner, Thomas S., assignor to C. L. Swanson, Frankfort, Kans. Cultivator	701,972	June 10	1232	280	99	2381
Warner, Willard D. (See Warner, Morris L. and W. D.)						
Warner, William L., Chicago, Ill. Heater	709,947	Sept. 30	3787	855	100	2819
Warner, William M., Yonkers, N. Y. Buckle.	711,748	Oct. 21	2307	573	101	574
Warner, William R., Vergennes, Vt. Burner and inhaler	699,598	May 6	890	206	99	1358
Warner, Worcester R., and G. Fecker, assignors to Warner and Swasey Company, Cleveland, Ohio. Binocular glass	714,340	Nov. 25	3660	807	101	1703
Warnica Company. (See Arkfield, George W., assignor.)						
Warnica Company. (See Gaffney, Augustus, assignor.)						
Warr, George V., London, and W. T. Wright, Wrayisbury, England. Obtaining edible vegetable oil.	692,743	Feb. 4	922		98	987
Warren, Alfred N., Toledo, Ohio. Carton spice-cabinet	691,990	Jan. 28	3063	688	98	688
Warren, Ambrose G., assignor of one-half to J. W. Paxson Company, Philadelphia, Pa. Sand-blast apparatus	707,527	Aug. 19	2899	656	100	1747
Warren, Benjamin H. (See Cheney, Walter L., assignor.)						
Warren, Bernard J., Dover, Me. Fishing-rod holder	704,991	July 15	3105	669	100	662
Warren, Charles, assignor to Bell Organ and Piano Company, Limited, Guelph, Canada. Subbass for self-playing organs	716,498	Dec. 23	3602	787	101	2634
Warren, Charles, assignor to Bell Organ and Piano Company, Limited, Guelph, Canada. Motor for self-playing organs	716,499	Dec. 23	3603	787	101	2635
Warren, Charles H., Pittston, Me., assignor to Draper Company, Hopedale, Mass. Means for defining the beat of the lay of looms	701,973	June 10	1234	282	99	2381
Warren, Charles T., assignor of one-half to G. A. Maurer, San Antonio, Tex. Shuttle mechanism for sewing-machines.	701,780	June 8	891	199	99	2295
			748			
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Warren, Clinton J., Chicago, Ill. Bottling-machine	707,737	Aug. 26	3341	754	100	1855
				755		
Warren, Clinton J., Chicago, Ill. Machine for applying labels to bottles	707,738	Aug. 26	3354	755	100	1857
				756		
Warren, Clinton J., Chicago, Ill. Machine for wiring corks in bottles.	707,739	Aug. 26	3358	756	100	1858
				757		
Warren, Clinton J., Chicago, Ill. Bottle-washing machine	707,740	Aug. 26	3362	757	100	1858
				758		
Warren, Clinton J., Chicago, Ill. Machine for corking bottles	707,993	Aug. 26	3878	871	100	1960
				872		
Warren, Clinton J., Clinton, Ill. Bottle-filling machine	707,994	Aug. 26	3883	872	100	1961
Warren, Courtney, Buda, Ill. Washing-machine.	712,427	Oct. 28	3901	854	101	857
Warren, Edward, and G. W. Healy, Fort Thomas, Ariz. Ter Still	714,339	Nov. 25	3659	807	101	1703
Warren, Edward C., Providence, R. I., assignor to Rotary Engine Company. Rotary engine	715,221	Dec. 2	1089	423	101	2069
				424		
Warren, Edward K., assignor to Warren Featherbone Company, Threeoaks, Mich. Stiffening cord or tape	698,879	Apr. 29	4748	1046	99	1075
Warren, Edward K., and A. A. Ackerman, Threeoaks, Mich. Feather duster	698,880	Apr. 29	4749	1046	99	1075
Warren, Edward K., and J. H. Holden, Threeoaks, Mich. Woven feather fabric	708,620	Sept. 23	3143	700	100	2074
Warren, Edward K., and J. H. Holden, Threeoaks, Mich. Woven feather fabric	708,621	Sept. 23	3143	700	100	2074
Warren, Edward K., and J. H. Holden, Threeoaks, Mich. Woven feather fabric	709,622	Sept. 23	3144	700	100	2074
Warren-Ehret Company. (See MacCollin, William H., assignor.)						
Warren, Eli, Eldorado, Kans. Pump	697,046	Apr. 8	1267	281	99	248
Warren Featherbone Company. (See Holden and Ackerman, assignors.)						
Warren Featherbone Company. (See Warren, Edward K., assignor.)						
Warren Featherbone Company. (See Webster, William, assignor.)						
Warren, Fred E. (See Cumnock and Warren)						
Warren, Frederick J., Newton, Mass. Pavement	695,421	Mar. 11	2083	456	98	2156
Warren, Frederick J., Newton, Mass. Bituminous street-pavement	695,422	Mar. 11	2084	456	98	2156
Warren, Frederick J., Newton, Mass. Street-pavement	695,423	Mar. 11	2086	457	98	2157
Warren, Frederick J., Newton, Mass. Preparing the ingredients of street sheet pavements or roadways	715,630	Dec. 9	1849		101	2230
Warren, George E. (See Gordon and Warren.)						
Warren, George E., Boston, Mass., assignor to Metallic Heel and Counter Company, Kittery, Me. Machine for making pieced soles	706,615	Aug. 12	1194	265	100	1373
Warren, George E., Pawtucket, R. I., assignor to United Shoe Machinery Company, Paterson, N. J. Lock-stitch sewing-machine	715,911	Dec. 16	2432	537	101	2874
Warren, Henry E., Newton, assignor to Lombard Governor Company, Boston, Mass. Relief-valve for reservoirs containing fluid under pressure.	703,687	July 1	581	129	100	1115
Warren, Herbert C., Hartford, Conn. Universal joint	699,904	May 13	1517	349	99	1502

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Warren, John E. (See Fassett and Warren.)						
Warren, John J., Brownville, N. Y. Hydraulic wire-guide	711,139	Oct. 14	1414	306	101	309
Warren, John W., Omaha, Nebr. Purifying hydrocarbon oils	705,168	July 22	3467		100	751
Warren, Louis H. (See Walker and Warren.)						
Warren, Matthew M., and M. M. Altare, Pence Spring, W. Va. Railway cattle-guard	696,153	Mar. 25	3434	770	98	2477
Warren, Thomas R., Glendale, Cal. Attachment for gas or gasoline stoves	712,988	Nov. 4	982	230	101	1007
Warren Webster and Company. (See Osbourn, Millard P., assignor.)						
Warren Webster and Company. (See Serrall, John A., assignor.)						
Warren, William E., St. Louis, Mo. Locomotive-boiler.	716,600	Dec. 23	3825	880	101	2682
Warren, William H. (See Farnoff, Jay W., assignor.)						
Warrick, John A., Sheldon, Ill. Telephone-switch	714,540	Nov. 25	4024	890	101	1776
Warriner, Edward W., Sheffield, England. Stylographic or other fountain-pen	713,927	Nov. 18	2838	680	101	1514
Warring, Franklin B. (See Caton and Warring.)						
Warring, Franklin B., assignor to Caton's Foundry and Machine Company, San Jose, Cal. Hydrocarbon-feeder for explosive-engines	709,428	Sept. 16	2745	617	100	2579
Warstler, Levi, Louisville, assignor of one-half to A. J. Merley, Osnaburg, Ohio. Device for ornamenting faces of tile	692,744	Feb. 4	923	210	98	987
Warwick, Frank B., et al. (See Wilkinson, Thomas A., assignor.)						
Warwick, George T., Springfield, Mass. Machine for making metallic spokes, &c	693,342	Feb. 11	2121	465	98	1262
Warwick, George T., assignor of one-half to G. M. Hendee, Springfield, Mass. Coaster and brake mechanism for cycles	693,472	Feb. 18	2382	466	98	1336
Warwick, Walter W., et al. (See Wilkinson, Thomas A., assignor.)						
Wash-Board Pail Company. (See Libenow, Ferdinand E., assignor.)						
Washa, William, New York, N. Y. Danger-signal for railways	710,383	Sept. 30	4602	1038	100	2991
Washburn, Burton A., Wickliffe, Ky. Medicine-applicator	695,356	Mar. 11	1925	429	98	2133
Washburn, Charles B., executor. (See Washburn, George W.)						
Washburn, Edward B., Summertown, Tenn. Cattle-guard	716,500	Dec. 23	3605	788	101	2635
Washburn, Edwin C., Minneapolis, Minn. Draft-rigging for engines and cars	705,169	July 22	3468	754	100	751
Washburn, George P., Chadron, Nebr. Acetylene-gas generator	698,160	Apr. 22	3332	727	99	755
Washburn, George W., deceased, New York, N. Y.; C. I. Washburn, executor. Jewelry-securer	693,764	Feb. 18	2028	644	98	1448
Washburn, Harry, Osceola Mills, Pa. Combined poker and lid-lifter	698,161	Apr. 22	3334	728	99	755
Washburn, Henry L., New York, assignor to W. R. Moore, Eden, N. Y. Door-bell	692,221	Jan. 28	3497	791	98	775
Washburn, Morgan, New York, N. Y. Transfer-ticket	693,765	Feb. 18	2929	644	98	1448
Washburn, Theodore W., assignor to Wait Chair Company, Baldwinville, Mass. Convertible chair	708,278	Sept. 2	532	119	100	2087
Washburn, Warren S., Adams Center, N. Y. Harvester	706,367	Aug. 5	724	158	100	1283
Washburn, William E., Cedar Rapids, Iowa. Electric cautery	712,989	Nov. 4	983	230	101	1097
Washburn, William S., Wollaston, Mass. Safety-valve	701,525	June 3	432	98	99	2197
Washburne, Ansel L. (See Hesse, Gustaf E., assignor.)						
Washburne, Benjamin F., Rockfalls, Ill. Farm-wagon body	697,225	Apr. 8	1574	352	99	353
Washburne, James V., Waterbury, Conn. Fastener for gloves, &c	714,072	Nov. 18	3124	690	101	1575
Washington, Alfred, and M. Standiford, Chicago, Ill. Advertising device	703,102	June 21	3366	772	99	2853
Washington, George, New Brighton, N. Y. Hydrocarbon incandescent lamp	706,504	Aug. 5	996	219	100	1318
Washington, George, New Brighton, N. Y. Gage	706,505	Aug. 5	996	220	100	1319
Washington, Henry S., Locust, N. Y. Garment-fastener	713,928	Nov. 18	2839	680	101	1514
Waslyng, Peter J. M., assignor of one-half to J. D. MacKenzie, Savanne, Canada. Combined lifting and track-aligning jack	696,613	Apr. 1	402	94	99	88
Vass, Alfred G., London, England. Manufacture of printer's varnish and ink	716,818	Dec. 16	3228		101	2540
Wassmann, August. (See Tuck and Wassmann.)						
Water Overflow Preventive Company of New York. (See Toback, Leopold, assignor.)						
Waterbury Button Company. (See Smith, Joseph R., assignor.)						
Waterbury Mfg. Co. (See Perkins, Walter H., assignor.)						
Waterhouse, Harold D. (See Jacobs and Waterhouse.)						
Waterman, Albert P., Orange, and G. H. E. Berthold, Newark, assignors to Edison Phonograph Works, Orange, N. J. Numbering-machine	709,128	Sept. 16	2143	491	100	2452
Waterman, Edgar R., Helena, Mont. Oil-burner	715,912	Dec. 16	2434	538	101	2374
Waterman, Elizabeth H., Binghamton, N. Y. Stocking-supporter	709,066	Sept. 16	2021	461	100	2424
Waterman, Frank D., executor. (See Gilbert, Frederick, assignor.)						
Waterman, Frank D., executor. (See Waterman, Lewis E.)						
Waterman, Lewis E., assignor to Emerson Manufacturing Company, Rockford, Ill. Disk plover	692,805	Feb. 4	1049	236	98	1010
Waterman, Lewis E., assignor to Emerson Manufacturing Company, Rockford, Ill. Sand-box for wheel	692,806	Feb. 4	1050	236	98	1010
Waterman, Lewis E., assignor to Emerson Manufacturing Company, Rockford, Ill. Disk plover	705,627	July 29	4480	971	100	967
Waterman, Lewis E., assignor to Emerson Manufacturing Company, Rockford, Ill. Wheeled plover	705,628	July 29	4482	972	100	967
Waterman, Lewis E., deceased, Brooklyn, N. Y.; F. D. Waterman, executor. Fountain-pen	698,881	Apr. 29	4750	1046	99	1076
Waterman, Lewis E., deceased, Brooklyn, N. Y.; F. D. Waterman, executor. Safety fountain-pen	698,882	Apr. 29	4760	1047	99	1077
Waterman, Sarah, New York, N. Y. Self-igniter	708,279	Sept. 2	523	119	100	2088
Waterman, Stephen, Providence, R. I. Frame or base for zinc or electrotype plates	702,606	June 17	2420	552	99	2643
Waters, Edward G., New York, N. Y. Document-file	700,267	May 20	2255	515	99	1673
Waters, Frederick G. (See Hine and Waters.)						
Waters, Frederick R., Salida, Colo., assignor, by mesne assignments, of one-half to S. O. Main and R. J. Powell, Baltimore, Md. Ore-separator	700,711	May 20	3119	709	99	1832
Waters, Patrick J., Bristol, Pa. Apparatus for stretching bed-springs	710,545	Oct. 7	295	65	101	59
Watkins, Charles O., Moriah, assignor of one-half to C. Garvey, Crownpoint, N. Y. Composition of matter for the manufacture of golf-balls, &c	715,186	Dec. 2	1026		101	2046
Watkins, Edward G., assignor to Heywood Bros. and Wakefield Company, Gardner, Mass. Swivelled chair	714,764	Dec. 2	226	45	101	1883
Watkins, George, (See Bradley, Granville E., assignor.)						
Watkins, Henry, assignor to E. M. Antisdel, Utica, N. Y. Stamping-machine	702,753	June 17	2691	618	99	2701
Watkins, James T., assignor of one-half to W. W. Moody, Jefferson City, Tenn. Laundry bracket or clamp	694,302	Feb. 25	3971	884	98	1676
Watkins, Joel, Joliet, Ill. Couch-frame	701,112	May 27	3886	892	99	2038
Watkins, Orel H., assignor, by mesne assignments, to J. K. Milner, Clinton, Iowa. Insect-guard	694,901	Mar. 4	1084	239	98	1911



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Watkins, William D., assignor of one-half to J. W. Bolster, San Jose, Cal. Telephone-selecting device	695,976	Mar. 25	3048	691 692	98	2397
Watlington, Edgar H., Ridgewood, N. J., assignor to Sprague Electric Company, New York, N. Y. Hoisting apparatus	707,660	Aug. 26	3190	718	100	1836
Watorek, Adolf, Lemberg, Austria-Hungary. Sterilizing apparatus	712,746	Nov. 4	517	121	101	1005
Watrous, Earl G., Chicago, Ill. Water-closet valve	710,123	Sept. 30	4147	935	100	2894
Watrous, Earl G., Chicago, Ill. Valve	710,129	Sept. 30	4150	935	100	2895
Watrous, Martin D., Ansonia, Conn. Corset-stay-tipping machine	690,599	May 6	801	206 207	99	1359
Watson, Benjamin, Eden, N. Y. Mail-bag catcher	695,252	Mar. 11	1748	387	98	2097
Watson, David S., Polo, Ill. Adjustable door-hanger	716,152	Dec. 16	2919	640	101	2475
Watson, David S., assignor to Watson Wagon Company, Canastota, N. Y. Dumping-wagon	691,330	Jan. 14	1839	415 416 417	98	401
Watson, Erskine L., Cornish, Me. Automatic piano or organ player	700,390	May 20	2512	575	99	1722
Watson, Frank C. (See Dougan and Watson.)						
Watson, Frank C. (See Paynter and Watson.)						
Watson, Frank C. (See Smith and Watson.)						
Watson, Frank C., assignor to Smith-Watson Manufacturing Company, Philadelphia, Pa. Rheostat	715,327	Dec. 9	1294	277	101	2121
Watson, George, Leeds, England. Furnace for the destruction of town refuse	713,024	Nov. 4	1045	243	101	1110
Watson, George, Leeds, England. Furnace for the destruction of town refuse	716,601	Dec. 23	3826	830	101	2683
Watson, George A. (See Brooks and Watson.)				546 547 548		
Watson, Henry F., assignor of one-half to M. A. Snider, Valparaiso, Ind. Machine for making mica-board	697,696	Apr. 15	2451	788	99	549
Watson, James, Marinette, Wis. Portable stove	716,501	Dec. 23	3605	788	101	2635
Watson, James A., Washington, D. C., and W. H. Rose, Baltimore, Md. Apparatus for advertising or like purposes	714,839	Dec. 2	383	82	101	1912
Watson, James T., Scranton, Pa. Safety fuse-box	699,045	Apr. 29	5027	1111 1112	99	1133
Watson, John, Brooklyn, N. Y., assignor to Empire Machine Corporation. Machine for justifying type	695,017	Mar. 11	1308	289	98	2006
Watson, John, Brooklyn, assignor, by mesne assignments, to E. C. Hoyt and F. Rosen, New York, N. Y. Machine for justifying type	700,712	May 20	3121	709	99	1853
Watson, John G., Chester, Pa. Anchor	697,300	Apr. 8	1713	382	99	385
Watson, Joseph C., et al. (See Stanley, John M., assignor.)						
Watson, Leslie J., assignor of one-half to G. F. Conner, Port Huron, Mich. Governor-valve	706,616	Aug. 12	1197	296	100	1374
Watson, Louis T., et al. (See Maloney, William, assignor.)						
Watson, Merrill, New York, N. Y. Fireproof floor construction	710,380	Sept. 30	4470	1008	100	2964
Watson, Peter B., Philadelphia, Pa. Folding reclining-chair	707,884	Aug. 26	3678	827 828	100	1921
Watson, Peter B., assignor of one-half to R. W. Tunis, Philadelphia, Pa. Electromagnetic engine	695,253	Mar. 11	1750	387	98	2098
Watson, Robert, assignor of one-half to C. A. Kram, Washington, D. C. Apparatus for treating diseases by vacuum and air pressure	714,342	Nov. 25	3663	808	101	1703
Watson, Thomas, Bridge of Weir, assignor to E. S. Coats, Paisley, Scotland. Cop-building mechanism for spinning and doubling machinery	691,991	Jan. 28	3066	689	98	688
Watson, Thomas, Bridge of Weir, assignor to E. S. Coats, Paisley, Scotland. Drag device for spinning machinery	691,992	Jan. 28	3060	690	98	689
Watson, Thomas, Bridge of Weir, assignor to E. S. Coats, Paisley, Scotland. Flier for spinning and doubling machinery	708,945	Sept. 9	1748	404	100	2351
Watson Wagon Company. (See Watson, David S., assignor.)				142 143		
Watson, William D., Chicago, Ill. Window	692,560	Feb. 4	606	143	98	922
Watson, William D., Chicago, Ill. Window	702,754	May 17	2693	618 619	99	2701
Watson, William S., assignor to Fels & Co., Philadelphia, Pa. Soap-press	701,113	May 27	3887	812 813	99	2028
Watson, William W., Ada, Minn. Tobacco-cutter	701,974	June 10	1235	282	99	2382
Watt, Forrest H. (See Watt, Stewart and F. H.)						
Watt, George F., Chicago, Ill. Card-index file	700,391	May 20	2513	575	99	1723
Watt, James H., Barnesville, Ohio. Mining-car-door fastening	702,265	June 10	1760	401	99	2488
Watt, Sern P., Morgan Park, assignor to Hine-Watt Manufacturing Company, Chicago, Ill. Door-check	711,685	Oct. 21	2478	545	101	546
Watt, Sern P., Morgan Park, assignor to Hine-Watt Manufacturing Company, Chicago, Ill. Door-check	711,686	Oct. 21	2484	546	101	548
Watt, Sern P., Morgan Park, assignor to Hine-Watt Manufacturing Company, Chicago, Ill. Acetylene-gas burner	716,153	Dec. 16	2911	64	101	2475
Watt, Stewart and F. H., Barnesville, Ohio; said F. H. Watt assignor to said Stewart Watt. Twyer for cupola-furnaces	697,301	Apr. 8	1714	382	99	385
Watters, John H., Anniston, Ala. Track-sanding device	691,993	Jan. 28	3071	689	98	689
Wattie, William, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Straw matting	693,090	Feb. 11	1604	350	98	1135
Wattie, William, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom for making straw matting	693,091	Feb. 11	1607	350	98	1155
Watts, James F., Wadsworth, Ohio. Corner-joint for vehicle-bodies	691,027	Jan. 14	1232	288	98	276
Watts, John, Akron, Ohio. Door-check	701,431	June 3	265	39	99	2163
Watts, John, Akron, Ohio. Fifth-wheel	707,189	Aug. 19	2281	511	100	1620
Watts, John, Akron, Ohio. Whiffletree	714,341	Nov. 25	3663	807	101	1703
Watts, John T., Crookston, Minn. Mechanical movement for converting motion	691,511	Jan. 21	2171	486	98	488
Watts, John T., Crookston, Minn. Mechanical movement for converting motion	705,490	July 22	4198	997	100	891
Watts, Louis A., assignor of one-half to G. Schott, Cincinnati, Ohio. Adjustable curtain-bracket	708,280	Sept. 2	523	119	100	2088
Watts, Louis A., assignor of one-half to G. Schott, Cincinnati, Ohio. Adjustable shade-bracket	708,281	Sept. 2	524	120	100	2088
Watts, Louis A., assignor of one-half to G. Schott, Cincinnati, Ohio. Adjustable curtain-bracket	708,507	Sept. 2	917	208	100	2167
Watts, Orville. (See Howell, Orange D., assignor.)						
Watts, Thornton L., Muncy Valley, Pa. Railway-joint	707,468	Aug. 19	2786	631	100	1724
Watz, Charles, New York, N. Y. Vegetable-cutter	694,592	Mar. 4	492	107	98	1817
Waugh, David S., Chicago, Ill. Automatic valved hammer	701,235	May 27	4102	945	99	2072
Waugh, Eugene. (See Waugh, Robert E. and E.)						
Waugh, Eugene. (See Waugh, Robert E. and E.)	709,067	Sept. 16	2622	641	100	2425
Waugh, Henry H., Brooklyn, N. Y., assignor to Wall and Ochs, Philadelphia, Pa. Lens-fastening for glasses	702,385	June 10	1975	451	99	2531

## Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Waugh, James M., Chicago, Ill. Draw-bar draft-rigging for car-couplings	690,688	Jan. 7	599	131	98	128
Waugh, James M., Chicago, Ill. Draft-rigging for railway-cars	690,684	Jan. 7	603	131	98	129
Waugh, James M., Chicago, Ill. Draft-rigging for railway-cars	705,172	July 22	3474	756	100	753
Waugh, Robert E. and E., Denver, Colo. Dry ore-concentrator	708,356	June 24	3828	880 881	99	2949
Wauters, William M. (See Edwards and Wauters.)						
Wawrosch, Rudolf, Triest, Austria-Hungary. Swivel watch-pendant	712,872	Nov. 4	766	177	101	1055
Way, Charles A., North Charleston, N. H. Wire pillow	713,025	Nov. 4	1045	243 244	101	1110
Way, Frank. (See Damerell, Henry, assignor.)						
Way, Henry E., assignor of one-half to H. B. Griffith, Custer, S. D. Ore-testing tablet.	704,409	July 8	1942	420	100	409
Way, Pennock M., Tallapoosa, Ga., assignor of one-half to T. A. Oleson, Leeper, Mo.	713,026	Nov. 4	1047	244	101	1110
Wayman, Albert J., Dubois, Pa. Electrical connector	704,070	July 15	2423	524	100	522
Wayne Chemical Company. (See Humphreys, Frederick W., assignor.)						
Wayt, Edward A., New York, N. Y. Machine for bordering paper	697,186	Apr. 8	1504	336	99	340
Ways, William M., Detroit, Mich. Game	707,469	Aug. 19	2788	681	100	1724
Weaner, Cornelius, assignor of three-fourths to H. D. Bokop, A. F. Miller, and F. W. Young, Defiance, Ohio. Heating-stove	699,420	May 6	582	132	99	1205
Wear, Frank, Melford, Mass. Safety-tread	695,018	Mar. 11	1309	289	98	2006
Wear, Frank F., et al. (See Tittle, Horatio S., assignor.)						
Weatherhead, Albert J. and E. H., Cleveland, Ohio. Brass-founder's melting-furnace	691,213	Jan. 14	1570	357	98	342
Weatherhead, Charles E. (See Lamont and Weatherhead.)						
Weatherhead, Edward H. (See Weatherhead, Albert J. and E. H.)						
Weatherill, Henry G. (See Rundquist, William, assignor.)						
Weatherly, Sidney M., New York, N. Y. Block or base for holding plates from which printed impressions may be taken	695,977	Mar. 25	3052	692	98	2997
Weathers, James, assignor of one-half to J. A. Robbins, Indianapolis, Ind. Combination-tool	698,601	Apr. 29	4147	913	99	940
Weatherwax, Charles L., St. Louis, Mo., assignor to Union Special Sewing Machine Company, Chicago, Ill. Folding-guide for sewing-machines	702,512	June 17	2237	510	99	2607
Weaver, Albert L. (See Winans, Daniel M., assignor.)						
Weaver, Albert S., assignor of one-half to P. Ochs, Providence, R. I. Guard for eye-glasses	710,227	Sept. 30	4388	975	100	2987
Weaver, Albert W., El Verano, Cal. Pump	714,416	Nov. 25	3797	838 839	101	1731
Weaver, Calvin P., Bloomsburg, Pa. Leaf-holder	704,410	July 8	1944	421	100	409
Weaver, Charles D., assignor to McPherson Office Novelty Company, McPherson, Kans. Memorandum and indicating device	701,236	May 27	4106	945	99	2073
Weaver, Charles D., McPherson, Kans., assignor to Clark-Weaver Manufacturing Company, Greeley, Colo. Drying-reel	708,184	Sept. 2	346	82	100	2052
Weaver, Charles D., McPherson, Kans., assignor to Clark-Weaver Manufacturing Company, Greeley, Colo. Shoe-lacing-tip machine	708,282	Sept. 2	526	120 121	100	2088
Weaver, Charles W. (See Walker, James A., assignor.)						
Weaver, Ervin E., Plaza, assignor of one-half to B. B. Stewart, Bays, Ohio. Derrick	701,975	June 10	1236	282	99	2382
Weaver, Everett, Harrisburg, Ill. Single-reel-clip	711,087	Oct. 14	1328	287	101	289
Weaver, George L., et al. (See Bartley, Milton, assignor.) (Reissue.)						
Weaver, Ira A., assignor to Sattley Manufacturing Company, Springfield, Ill. Corn-planter	703,357	June 24	3833	881	99	2050
Weaver, Ira A., assignor to Sattley Manufacturing Company, Springfield, Ill. Wheel-paw	715,733	Dec. 9	2046	458	101	2272
Weaver, Ira A., Moline, Ill., assignor to Deere & Company. Disk-bearing	713,027	Nov. 4	1048	244	101	1110
Weaver, John W., et al. (See Savage, Thomas A., assignor.)						
Weaver, Solomon F., Payne County, Okla. Ter. Stacker	697,578	Apr. 15	2318	494 495 496	99	503
Weaver, Spencer F., Philadelphia, Pa. Track-switch	701,781	June 3	893	199	99	2295
Weaver, William H., Colfax, Wash. Potato-slicer	711,088	Oct. 14	1329	287 288	101	289
Weaver, William H. M., assignor of one-half to R. J. Speir, Macon, Ga. Electrical system of recording and checking as applied to railway signaling	710,348	Sept. 30	4539	1024 1025	100	2979
Weaver, William W., and L. H. Sanford, Augusta, Me. Dandy-roll cleaner	697,302	Apr. 8	1716	383	99	386
Webb, Alonzo, Summer Shade, Ky. Railway	697,904	Apr. 15	2815	622	99	630
Webb, Edward, Reading, Mass. Valve	702,266	June 10	1761	402	99	2488
Webb, Edwin W. (See Jones and Webb.)						
Webb Folding Box Company. (See Webb, Zaida B., assignor.)						
Webb, Frank W. (See Gorman, David W., assignor.)						
Webb, George B., Westfield, N. J., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine	703,866	July 1	900	198	100	180
Webb, George B., Westfield, N. J., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine	717,149	Dec. 30	4964	1077	101	2948
Webb, Henry, Ashton, Mich. Machine for cutting vegetable-roots	706,368	Aug. 5	726	158	100	1263
Webb, Henry C., Smethwick, England. Inlaying of wood	691,214	Jan. 14	1571	357	98	342
Webb, Henry F., assignor of one-half to W. A. Shear and W. H. Richards, Coudersport, Pa. Jar closure and fastener	690,046	Apr. 29	5030	1112	99	1134
Webb, Henry F., assignor of one-half to W. H. Richards and W. A. Shear, Coudersport, Pa. Jar-closure	711,028	Oct. 14	1200	264	101	264
Webb, James H., Ada, Ind. Ter. Broom-head	690,495	Jan. 7	246	50	98	54
Webb, John G., assignor to Victor Rubber Company, Springfield, Ohio. Rubber-tire equipment for vehicle-wheels	691,028	Jan. 14	1254	284	98	276
Webb, John R., Newport, W. Va. Match-safe	693,993	Feb. 25	3271	726	98	1634
Webb, John W. (See Wilson, Allen F., assignor.)						
Webb, Samuel F., and W. S. Huff, Wichita, Kans. Animal-poke	706,617	Aug. 12	1198	260	100	1374
Webb, Samuel J., Minden, La. Bale-press	706,618	Aug. 12	1200	265	100	1374
Webb, Samuel J., Minden, La. Rotary engine	690,623	Sept. 23	3145	700 701	100	2674
Webb, Samuel J., Minden, La. Compound-lever press	716,319	Dec. 16	3229	705 706	101	2541
Webb, Samuel J., Minden, La. Turbine-engine	717,059	Dec. 30	4799	1040	101	2913
Webb, William G. (See Klinger, Peter, assignor.)						
Webb, Zaida B., Whippany, N. J. Game	700,589	May 20	2872	659	99	1798
Webb, Zaida B., Whippany, assignor to Webb Folding Box Company, Newark, N. J. Folding box	690,496	Jan. 7	248	50	98	54
Webb, Zaida B., Whippany, assignor to Webb Folding Box Company, Newark, N. J. Folding box	690,497	Jan. 7	249	50	98	51



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Webb, Zaida B. Whippany, assignor to Webb Folding Box Company, Newark, N. J. Folding box	690,498	Jan. 7	250	51	98	54
Webb, Zaida B. Whippany, assignor to Webb Folding Box Company, Newark, N. J. Folding box	692,561	Feb. 4	607	143	98	922
Webb, Zaida B. Whippany, assignor to Webb Folding Box Company, Newark, N. J. Folding box	692,562	Feb. 4	608	143	98	922
Webb, Zaida B. Whippany, assignor to Webb Folding Box Company, Newark, N. J. Folding box	692,563	Feb. 4	609	143	98	922
Webb, Zaida B. Whippany, assignor to Webb Folding Box Company, Newark, N. J. Folding box	692,564	Feb. 4	610	144	98	923
Webb, Zaida B. Whippany, assignor to Webb Folding Box Company, Newark, N. J. Folding box	701,652	June 3	681	150	99	2250
Webb, Zaida B. Madison, assignor to Webb Folding Box Company, Newark, N. J. Folding box	713,028	Nov. 4	1050	244	101	1111
Webber, Frank L., Oxford, Nebr. Pipe-wrench	692,093	Jan. 28	3267	738	98	727
Webber, Frank L., Oxford, Nebr. Vise	703,326	June 24	3749	863	99	2980
Webber, Frank I., assignor of three-fourths to J. W. Trammel, G. H. Christ, and N. A. Pettygrove, Oxford, Nebr. Well-screen	691,994	Jan. 28	3073	690	98	689
Webber, Mary E., Collierville, Tenn. Mosquito-canopy	709,528	Sept. 23	2995	667	100	2144
Webber, Samuel S., Trenton, N. J. Grip-actuating mechanism	706,369	Aug. 5	727	158	100	1263
Webber, Wallace G. (See Flint, Herbert L., assignor.)						
Webber, William. (See Fridman and Webber.)						
Weber, Aaron M. (See Wynne, William F., assignor.)						
Weber, Aaron M., New York, N. Y. Substitute for whalebone stiffening-strips	714,541	Nov. 25	4027	891	101	1777
Weber, Aaron M., New York, N. Y. Stiffening-strip for garment-waists, corsets, &c.	715,187	Dec. 2	1027	232	101	2046
Weber, Adam, Newark, N. J., assignor to J. K. Osborn Manufacturing Company. Chate-laine-frame and lock or catch therefor	692,807	Feb. 4	1050	236	98	1010
Weber, Carl, St. Louis, Mo. Steel-concrete construction	712,635	Nov. 4	311	73	101	963
Weber, Charles, Pittsburg, Pa. Guide for metal-bending machines	702,896	June 17	2842	654	99	2732
Weber, Charles H., Minneapolis, Minn. Closed measuring-can	697,047	Apr. 8	1268	282	99	288
Weber, Clyde R. (See Stearns and Weber.)						
Weber, Edward, Hamilton, Ohio. Collar turner and edger	691,029	Jan. 14	1255	284	98	276
Weber, Emil, and F. C. Frey, Baker City, Oreg. Snap-hook	693,194	Feb. 11	1859	402	98	1205
Weber, Emil, and F. C. Frey, Baker City, Oreg. Lock	700,106	May 13	1874	436	99	1573
Weber, Frederick C., Chicago, Ill. Electric smelting-furnace	704,993	July 15	3105	669	100	663
Weber, Frederick C., Chicago, Ill. Treating metallic oxides in the production of metals and alloys	705,727	July 29	4664	1011	100	1003
Weber, Frederick C., Pittsburg, Pa. Telescopic hoist	715,715	Dec. 9	2009	450	101	2204
Weber, Frederick W., Boalsburg, Pa., assignor of one-half to B. F. Keller, Bramwell, W. Va. Stairway	699,993	May 13	1677	385	99	1533
Weber, George A., Stamford, Conn., assignor to Weber Railway Joint Manufacturing Co., New York, N. Y. Railway-rail joint	705,170	July 22	3471	755	100	752
Weber, George L., Kansas City, Kans. Apparatus for converting fuel into power	693,766	Feb. 18	2330	645	98	1448
Weber, Henry E., Canton, Ohio. Syringe-nozzle	703,103	June 24	3367	773	99	2834
Weber, Henry H. (See Bastle and Weber.)						
Weber, Jacob. (See Weber, Samuel and J.)						
Weber, Martin. (See Doppelmayr and Weber.)						
Weber, Moritz. (See Vogel and Weber.)						
Weber, Moritz, assignor to St. Louis Car Company, St. Louis, Mo. Locking device for car-seats	714,979	Dec. 2	669	140	101	1969
Weber, Peter, East Orange, N. J. Photographic reproducer	698,602	Apr. 29	4149	913	99	940
Weber Railway Joint Manufacturing Co. (See Weber, George A., assignor.)						
Weber, Samuel and J., New York, N. Y. Signal-lantern	714,073	Nov. 18	3125	691	101	1575
Weber, Valentin, Princeville, Ill. Fare-register	691,995	Jan. 28	3074	691	98	690
Weber, Wilhelm, Stolberg II, assignor to Chemische Fabrik Rhenania, Aachen, Germany. Aseptic preparation from pancreas and producing same	691,081	Jan. 21	2478		98	551
Weber, Wilhelm, Stolberg II, assignor to Chemische Fabrik Rhenania, Aachen, Germany. Pancreas preparation and producing same	695,254	Mar. 11	1753		98	2098
Weber, William, Chicago, Ill. Registering-bank	712,873	Nov. 4	766	177	101	1055
Weber, William E. (See Fullard, William, assignor.)						
Weber, William L. (See Flood, Alfred L., assignor.)						
Webster, Alfred J., assignor to J. A. Jeffrey, Columbus, Ohio. Conveyor	702,894	June 17	2951	680	99	2754
Webster, Arthur J., M. W. Hall, and W. E. Stadler, Bakersfield, Cal. Pump for deep wells	711,804	Oct. 21	2713	599	101	596
Webster, Camp and Lane Company. (See Hulett, George H., assignor.)						
Webster, Camp & Lane Machine Company. (See Hulett, George H., assignor.)						
Webster, Cyrus C., Minneapolis, Minn. Strip-metal-casting machine	703,358	June 24	3834	881	99	2950
Webster, Cyrus C., Minneapolis, Minn. Apparatus for supplying molten metal to molds	716,320	Dec. 16	3231	706	101	2541
Webster, Cyrus C., Minneapolis, Minn. Apparatus for supplying molten metal to molds	716,321	Dec. 16	3233	706	101	2542
Webster, Cyrus C., Minneapolis, Minn. Strip-metal-finishing machine	716,322	Dec. 16	3235	707	101	2542
Webster, David G., et al. (See Mathias, Theodore N., assignor.)						
Webster, David G., Capron, Ill., assignor to himself, L. G. Adams, and S. J. Hall, Waterloo, Iowa, and T. M. Mathias. Combined rein holder and guide	713,929	Nov. 18	2840	631	101	1515
Webster, George S., Minneapolis, Minn. Choke-feed lubricator	715,913	Dec. 16	2436	538	101	2375
Webster, Glenn C., Warren, Ohio. Former for filaments for incandescent electric lamps	694,220	Feb. 25	3823	847	98	1644
Webster, Glenn C., assignor to Sterling Electrical Manufacturing Company, Warren, Ohio. Incandescent electric lamp	708,432	Sept. 2	773	173	100	2137
Webster, Harold A., assignor to H. B. Newton, Haverhill, Mass. Rotary sole-edge setter	699,430	May 6	584	132	99	1295
Webster, Harold A., Haverhill, Mass., assignor to Goodyear Shoe Machinery Company, Portland, Me. Tension device	704,411	July 8	1945	421	100	409
Webster, Harry G., assignor to Stromberg-Carlson Telephone Manufacturing Company, Chicago, Ill. Telephone-exchange system	698,087	Apr. 22	3159	684	99	720
Webster, Hosea, Montclair, N. J. Superheater for steam-generators	708,433	Sept. 2	774	174	100	2138
Webster, Hosea, Montclair, N. J. Superheating steam	709,655	Sept. 23	3197	714	100	2684
Webster, Hosea, Montclair, N. J. Superheater for steam-generators	713,185	Nov. 11	1370	309	101	1195
Webster, J. B., et al. (See Fulford, Elijah D., assignor.)						
Webster, James. (See Bryan, Clarence H., assignor.)						
Webster, Joseph C., Philadelphia, Pa. Solder for soldering aluminium	707,470	Aug. 19	2788		100	1725
Webster, Joseph S., Herndon, Va. Puzzle	698,088	Apr. 22	3161	694	99	720

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Webster, Warren. (See Atkins, Charles H., assignor.)						
Webster, Warren, Merchantville, assignor to American Steam Heating Specialty Company, Camden, N. J. Steam heating apparatus	715,716	Dec. 9	2011	450 451	101	2265
Webster, William, Porter, Ind., assignor to Warren Featherbone Company, Threeoaks, Mich. Machine for preparing quill substance	698,883	Apr. 29	4763	1047 1048	99	1078
Wechsler, Isaac, Brooklyn, N. Y. Suspenders	697,005	Apr. 15	2816	623	99	630
Wechsler, Simon. (See Adelsberger and Friedmann, assignors.)						
Wecht, Louis A., et al. (See Wilke, Ferdinand, assignor.)						
Weddell, Oliver S., McKeesport, Pa. Rail-joint	694,122	Feb. 25	3635	893	98	1608
Weddell, Oliver S., McKeesport, Pa. Rail-joint	707,471	Aug. 19	2789	632	100	1725
Wedderburn, George, Dunn Loring, Va. Carbureting-lamp	707,190	Aug. 19	2982	511	100	1620
Wedeau, David, Orient, Iowa. Tank-heater	713,821	Nov. 18	2621	585	101	1469
Wedekind, Edgar, Tübingen, Germany. Chlorinated methyl-ether of menthol	703,104	June 24	3368		99	2854
Weder, Paul J., assignor to Sharp & Smith, Chicago, Ill. Veterinary mouth-speculum	692,565	Feb. 4	611	144	98	923
Weder, Paul J., assignor to Sharp & Smith, Chicago, Ill. Veterinary surgeon's float	703,867	July 1	903	198	100	181
Weder, Paul J., assignor to Sharp & Smith, Chicago, Ill. Veterinary surgeon's float	703,868	July 1	905	198	100	181
Weder, Paul J., assignor to Sharp & Smith, Chicago, Ill. Veterinary surgeon's float	703,869	July 1	907	199	100	182
Wedgefuth, Louis C., New York, N. Y. Non-refillable bottle	704,594	July 15	3112	670	100	698
Wedgworth, Ross. (See McLemore, Walter S., assignor.)						
Weeber, Christian F., Albany, N. Y. Muffler for explosive-engines	692,094	Jan. 28	3268	739	98	728
Weeber, Christian F., Jr., Albany, N. Y. Steering and braking device	704,156	July 8	1488	319	100	312
Weed, Elissa L., assignor of one-half to T. C. Burke, Baker City, Oreg. Egg-beater	701,432	June 3	266	60	99	2163
Weed, Frank S., Thorp, Wash. Cow-tail holder	711,602	Oct. 21	3323	507	101	513
Weed, Jacob B., Philadelphia, Pa., assignor of one-half to S. Twitchell Company, Camden, N. J., and Philadelphia, Pa. Bottle-filling machine	703,870	July 1	908	199	100	183
Weed, John J., et al. (See Lappin, Frank, assignor.)						
Weekley, Andrew J., East Pittsburg, Pa. Pneumatic siphon	716,323	Dec. 16	3237	707	101	2543
Weeks, Charles J., Tarrytown, N. Y. Postman's rack	708,283	Sept. 2	532	121	100	2093
Weeks, Henry C., Bayside, N. Y. Bicycle	700,590	May 20	2873	660	99	1799
Weeks, John W., assignor to Universal Acetylene Company, Providence, R. I. Acetylene-gas generator	701,433	June 3	267	60, 61	99	2163
Weeks, John W., assignor to Universal Acetylene Company, Providence, R. I. Gasometer	716,796	Dec. 23	4175	916	101	2755
Weeks, Samuel V., assignor of one-half to O. F. Janes, Chattanooga, Tenn. Disk plow	710,908	Oct. 7	958	210 211	101	195
Wege, Peter M., Niles, Ohio, assignor to General Fireproofing Company. Paneled member for sheet-metal structures	716,154	Dec. 16	2913	641	101	2476
Wegeforth, Theodore C. H. (See Fisher, Francis E., assignor.)						
Wegemann, August H. (See Leslie, Silas W., assignor.)						
Wegener, Carl, Berlin, Germany. Smokeless combustion-furnace	711,805	Oct. 21	2715	599	101	596
Wegener, Carl, Berlin, Germany. Smokeless combustion-furnace	712,467	Oct. 28	3972	620	101	871
Wegerer, Hermann, Gloggnitz, Austria-Hungary. Wood-grinding machine	690,600	May 6	893	207	99	1359
Wegg, David S. (See Holdridge, Clarence A., assignor.)						
Wegg, David S. (See Jones, Willis S., assignor.)						
Wegg, David S. (See Vogel, Eugene W., assignor.)						
Weglein, Louis, Jr., Philadelphia, Pa. Machine for making ice-cream sandwiches	696,778	Apr. 1	730	165	99	156
Wegman Fire Company, (See Osterberg, Hans G., assignor.)						
Wegner, Frederick A., Madison, Wis. Butter-mold	710,546	Oct. 7	297	65	101	60
Wegner, John J., Brooklyn, N. Y. Sack-race structure	706,467	Aug. 5	938	205	100	1305
Wegner, William, Milwaukee, Wis. Curtain-fixture	714,980	Dec. 2	669	140	101	1969
Wehmeier, Herman C., and W. J. Daubenbis, Cincinnati, Ohio. Device for mixing liquids, partial liquids, or the like	697,579	Apr. 15	2223	496	99	504
Wehmeyer, John W., St. Louis, Mo. Car-fender	705,886	July 23	3446	1075	100	1060
Wehrle, Henry C., Bellevue, Ky. Stopper-extractor	716,602	Dec. 23	3827	590	101	2683
Weibezahl, Herman G., New York, N. Y. Pliers and gripping-tool	698,162	Apr. 22	3335	729	99	756
Weibezahl, Herman G., New York, N. Y. Eyelet	698,770	Apr. 22	3498	944	99	1018
Weible, Thomas P., Columbus, Ohio. Non-refillable bottle	704,605	July 15	2317	503	100	500
Weichel, Hugo. (See Weichel, Theodore P. and H.)						
Weichel, Theodore P. and H., Plymouth, Nebr. Corn harvester and husker	699,601	May 6	896	207 208 691	99	1360
Weichelt, Carl, Moscow, Russia. Steam-turbine	714,074	Nov. 18	3127	692	101	1575
Weichhart, John, San Francisco, Cal. Belt-carrier	704,723	July 15	2517	544	100	542
Weidaw, Frank T., Syracuse, N. Y. Brush-holder	706,286	Aug. 5	572	124	100	1231
Weidley, George A., assignor to G. & J. Tire Company, Indianapolis, Ind. Vehicle-tire	701,434	June 3	272	61	99	2164
Weidenbaker, Edmund, Chicago, Ill. Flask	699,569	Sept. 23	3059	691	100	2656
Weidenfeld, Frank, Richmond, Va. Eyeglass-frame	713,990	Jan. 28	3079	692	98	690
Weidig, Henry E., Newark, N. J. Surgical dressing	696,123	Mar. 25	3357	787	98	2462
Weidinger, Albert E., Englewood, N. J. Fireplace	715,914	Dec. 16	2438	538 539	101	2375
Weierbach, William, and E. S. Dickson, assignors to Pittsburgh Cigar Machine Company, Pittsburgh, Pa. Cigar-bunching machine	707,742	Aug. 26	3369	758 759	100	1860
Weigel, Joel, San Francisco, Cal. Clamp for tank or like hoops	706,137	Aug. 5	256	53	100	1171
Weigel, Karl, Hanover, Germany. Harp	707,041	Aug. 12	1981	445	100	1538
Weightman, William H., New York, N. Y. Air-supply to liquid vaporizing, cooling, and aerating apparatus	693,195	Feb. 11	1860	402	98	1205
Weigl, Johann E., Vienna, Austria-Hungary. Matrix for stereotyping	709,284	Sept. 16	2458	100	100	2518
Weigley, Edwin A., Richland Center, Wis. Mercantile-stock register	715,444	Dec. 9	1502	326	101	2162
Weiherriller, Frederick, et al. (See Darwin, Frank L., assignor.)						
Weil, Alfred. (See Wanless, Richard E., assignor.)						
Weil, August J. (See Seeets, George N., assignor.)						
Weil, Brockman & Company. (See McCown, Sylvester, assignor.)						
Weil, Emanuel L., and T. W. Evans, New Orleans, La. Acetylene-gas generator	692,745	Feb. 4	924	210 211	98	987
Weil, Henry, New York, N. Y. Stocking-guard	696,779	Apr. 1	732	165	99	156
Weil, Joseph, New York, N. Y. Necktie-fastener	705,501	July 22	4173	908	100	892
Weil, Joseph, New York, N. Y. Neckwear-fastener	710,547	Oct. 7	298	65	101	60
Weiland, Roelf J., Canistota, S. D. Floor-jack	702,837	June 17	2843	655	99	2732
Weiler, Louis G., assignor of one-half to W. Freinel, New York, N. Y. Spray-nozzle for sprinkling-slates	703,167	June 24	3494	803	99	2878
Weillersbacher, John. (See Bringer, Herman H., assignor.)						
Weimar, Fred, Chicago, assignor of two-thirds to T. D. Hewitt, Freeport, and S. A. French, Chicago, Ill. Calipers	691,682	Jan. 21	2479	555	98	551



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Weimar, Fred, assignor of two-thirds to S. A. French, Chicago, and T. D. Hewitt, Freeport, Ill. Compressed-air drill	692,393	Feb. 4	304	74	98	863
Weimer, Charles A., Carrollton, Ill. Detachable plow-point	704,996	July 15	3115	671	100	464
Weimer, John A., Lebanon, Pa. Bogie-truck for railway cars	717,060	Dec. 30	4801	1041	101	2914
Weinberg, Arthur, assignor to L. Cassella & Co., Frankfort-on-the-Main, Germany. Brown-violet-sulfur dye and making same	701,435	June 3	273	.....	99	2164
Weinberg, Arthur, assignor to L. Cassella & Co., Frankfort-on-the-Main, Germany. Blue wool-dye and making same	703,105	June 24	3369	.....	99	2854
Weinberg, Arthur, assignor to L. Cassella & Co., Frankfort-on-the-Main, Germany. Yellow-acridin dye and making same	709,187	Sept. 16	2271	.....	100	2477
Weinberg, Arthur, and R. Herz, assignors to L. Cassella & Co., Frankfort-on-the-Main, Germany. Blue-sulfur dye and making same	693,633	Feb. 18	2700	.....	98	1401
Weinberg, Arthur, and R. Herz, assignors to L. Cassella & Co., Frankfort-on-the-Main, Germany. Making blue-sulfur dye	693,633	Feb. 18	2702	.....	98	1401
Weinberg, Arthur, and F. Klingemann, assignors to L. Cassella & Co., Frankfort-on-the-Main, Germany. Blue dye and making same	709,186	Sept. 16	2270	.....	100	2477
Weinberg, Arthur, and O. Lange, assignors to L. Cassella & Co., Frankfort-on-the-Main, Germany. Yellow-sulfur dye and making same	712,747	Nov. 4	518	.....	101	1005
Weinberg, Arthur, and O. Lange, assignors to L. Cassella & Co., Frankfort-on-the-Main, Germany. Orange-brown-sulfur dye and making same	714,542	Nov. 25	4028	.....	101	1777
Weinberg, Bernhard, Boston, assignor of one-half to L. Jacobson, Cambridge, Mass. Detachable alarm for kettles	700,864	May 27	3431	788	99	1932
Weindorf, Don F., Erie, Pa. Marine dock	710,170	Sept. 30	4329	954	100	2912
Weinel, Frederick E., assignor of one-half to W. E. Raub, Apollo, Pa. Automatic electric signal	691,683	Jan. 21	2480	1555	98	551
Weingaertner, Albert, St. Louis, Mo. Revolving window-sash	696,287	Mar. 25	3677	822	98	2327
Weingaertner, Albert, St. Louis, Mo. Sash-balance connection	704,225	July 8	1607	348	100	336
Weingarten Bros. (See Grotta, David, assignor.)	.....	.....	.....	.....	.....	.....
Weinrich, Moriz, Yonkers, N. Y. Apparatus for purifying masse-cuite	696,317	Mar. 25	3553	795	98	2500
Weinrich, Moriz, Yonkers, N. Y. Purifying and preserving raw sugar	711,603	Oct. 21	2324	.....	101	513
Weir Frog Company. (See Partington, Charles, assignor.)	.....	.....	.....	.....	.....	.....
Weir, John M. (See Chapman, Ensign, and Weir.)	.....	.....	.....	.....	.....	.....
Weir, Max W., Newark, N. J., assignor to Densmore Typewriter Company, Syracuse, N. Y. Type-writing machine	703,509	July 1	237	55, 56	100	49
Weir, Max W., Newark, N. J., assignor to Wyckoff, Seamans & Benedict, Hion, N. Y. Type-writing machine	706,136	Aug. 5	249	53	100	1169
Weir, Robert, Jr., McKeesport, Pa. Rail-joint	711,604	Oct. 21	2325	508	101	513
Weir Stove Company. (See Wilbur, George E., assignor.)	.....	.....	.....	.....	.....	.....
Weir, William S., Monmouth, Ill. Oil-can	695,512	Mar. 18	2187	494	98	2206
Weises, Michel, Allison, Iowa. Construction of structures sustaining cross strains	698,605	Apr. 29	4154	914	99	941
Weirich, James E., Toledo, Ohio. Portable flag-signal standard	693,663	Mar. 18	2498	565	98	2268
Weiss, Joseph B., and L. C. Anderson, Franklin, Ohio. Apparatus for saturating liquids with gases	694,081	Feb. 25	3569	788	98	1594
Weiss, William E., Ottawa, Ill. Awning-frame	714,075	Nov. 18	3130	692	101	1556
Weisbrod, John F., Allegheny, Pa. Metallic railway tie	700,788	Aug. 12	1535	344	100	1446
Weisse, Paul, Lester Prairie, Minn. Combined milk strainer and ventilator	708,285	Sept. 2	534	121	100	2090
Weisenborn, George P. A., Clarence, Mo. Wire-fence machine	705,500	July 22	4170	1907	100	892
Weisenburger, Charles O. (See Moffitt and Weisenburger.)	.....	.....	.....	.....	.....	.....
Weisker, Bernhard H., New York, N. Y. System of submarine construction	699,729	May 13	1153	1203	99	1425
Weiss, Carl W., New York, N. Y. Explosive-engine	704,995	July 15	3113	670	100	664
Weiss, Carl W., New York, N. Y. Regenerator-burner	710,130	Sept. 30	4154	936	100	2896
Weiss, Carl W., assignor of one-half to A. Mietz, New York, N. Y. Incandescent igniter for explosive-engines	708,284	Sept. 2	533	121	100	2090
Weiss, Carl W., assignor of one-half to A. Mietz, New York, N. Y. Lubricator for explosive-engines	710,026	Sept. 30	3940	880	100	2831
Weiss, Carl W., assignor of one-half to A. Mietz, New York, N. Y. Incandescent igniter for explosive-engines	710,824	Oct. 7	825	178	101	169
Weiss, Charles J., Alexandria, Ind. Folding bed and wardrobe	702,888	June 17	2844	655	99	2733
Weiss, Louis T., Flatbush, N. Y. Variable-speed gearing	703,629	July 1	455	105	100	89
Weiss, Ludwig. (See Pfeifer, Max, assignor.)	.....	.....	.....	.....	.....	.....
Weiss, Moritz, Vienna, Austria-Hungary. Pneumatic tire	707,661	Aug. 26	3200	718	100	1827
Weiss, Robert, Kingersheim, near Mulhouse, Germany. Apparatus for dyeing	704,293	July 8	1715	374	100	390
Weiss, William F., Camden, N. J., assignor to United States Fender Company, Camden	691,829	Jan. 28	2787	626	98	631
Weissenhauser, Alfred L., New York, N. Y. Closure for bottles, jars, &c.	705,173	July 22	3478	756	100	733
Weisser, Mathias, Milwaukee, Wis. Telephone-transmitter	710,300	Sept. 30	4472	1008	100	2965
Weitz, George G., Medford, assignor to National Electric Hose Signaling Company, Boston, Mass. Electrical hose-signaling apparatus	696,529	Apr. 1	241	55	99	56
Weitz, George G., Medford, assignor to himself, F. K. Young and M. P. Curran, trustees, Boston, Mass. Electric hose-signal system	693,062	Feb. 11	1609	351	98	1156
Weitz, George G., Medford, assignor to himself, F. K. Young and M. P. Curran, trustees, Boston, Mass. Electric hose-coupling	696,702	Apr. 1	586	182	99	127
Welch, Abraham T., Baltimore, Md. Drier	708,602	Sept. 9	1074	243	100	2210
Welch, Abraham T., Baltimore, Md. Drier	708,603	Sept. 9	1082	243	100	2211
Welch, Abraham T., Baltimore, Md. Drier	708,604	Sept. 9	1087	244	100	2212
Welch, Abraham T., Baltimore, Md. Heating materials for the purpose of drying or treating	708,946	Sept. 9	1750	404	100	2332
Welch, E. Baker, et al. (See Robinson, Thomas C., assignor.)	.....	.....	.....	.....	.....	.....
Welch, Edwin K., Philadelphia, Pa. Mortar composition	706,138	Aug. 5	257	.....	100	1171
Welch, H. Augusta, et al. (See Robinson, Thomas C., assignor.)	.....	.....	.....	.....	.....	.....
Welch, John F., Braman, Okla. Terr. Feed device for threshing-machines	691,215	Jan. 14	1572	357	98	343
Welch, Rosia W., assignor, by mesne assignments, to Southern Rice Polishing Machine Company, Baltimore, Md. Machine for cleaning rice, &c.	705,985	July 29	5119	1116	100	1096
Welch, Samuel F., assignor to Western Wheeled Scraper Company, Aurora, Ill. Machine for handling stone, &c.	699,266	May 6	253	58, 59	99	1225
Welch, Thomas, Paw Paw, Mich. Lock-lifter for railway automatic couplings	697,048	Apr. 8	1270	282	99	280
Welch, William, assignor to Draper Company, Hopedale, Mass. Apparatus for truing spinning spindles	712,109	Oct. 28	3320	728	101	736
Welch, Winesap H. (See Click, John J., assignor.)	.....	.....	.....	.....	.....	.....
Welden, Reuben H. (See Conway, George O. S., assignor.)	.....	.....	.....	.....	.....	.....
Welford, Robert, Sunderland, England. Secondary battery	713,186	Nov. 11	1371	309	101	1195
Wein, Axel, London, England. Apparatus for raising or lowering ships' boats	711,749	Oct. 21	2608	573	101	574

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Welin, Peter. (See Brown and Welin.)						
Welin, Peter, assignor to T. P. Brown, Worcester, Mass. Music-roll for automatic musical instruments.	694,450	Mar. 4	217	48	98	1759
Welke, John T., Milwaukee, Wis. Stamp-affixing machine.	716,969	Dec. 30	4632	1002	101	2875
Welker, Horace S., Shelby, Ohio. Oven.	711,029	Oct. 14	1201	264	101	264
Wellen, Charles E., Myersdale, Pa. Rail-joint.	698,606	Apr. 29	4155	914	99	941
Weller, Herbert D., assignor of three-fourths to W. G. Hawley and H. P. Laronette, San Jose, Cal. Mail-pouch address and fastening attachment.	690,431	May 6	584	132	99	1295
Weller, Mack B., Louisville, Ky. Windlass.	698,771	Apr. 29	4499	994	99	1019
Weller, Marvin E., assignor of two-fifths to A. Walrath, Fort Plain, N. Y. Fire-extinguisher.	696,780	Apr. 1	732	165	99	156
Wellington, Frank O., Braintree, assignor to Fore River Ship and Engine Company, Quincy, Mass. Conduit-clamp.	705,984	July 29	5118	1116	100	1096
Wellman, Arthur G., et al. (See Porter, Edwin F., assignor.)						
Wellman, Arthur W., Madison, Wis. Woven-wire fencing.	707,743	Aug. 26	3373	759	100	1861
Wellman, Calvin W., Toledo, Ohio. Burial apparatus.	713,187	Nov. 11	1372	310	101	1195
Wellman, Charles H. (See Wellman and McGeorge.)						
Wellman, Charles H. (See Wellman and Seaver.)						
Wellman, Charles H. (See Wellman, Samuel T. and C. H.)						
Wellman, Charles H. (See Wellman, Seaver, and Morgan.)						
Wellman, Charles H. (See Wellman, Seaver, and Wellman.)						
Wellman, David L., Frazee, Minn. Flax-harvester.	708,848	Sept. 9	1576	359 360	100	2316
Wellman, Harlan P., Ashland, Ky., assignor to General Electric Company. Electric-railway system.	690,499	Jan. 7	251	51	98	55
Wellman, Harold R., New York, N. Y., assignor to General Incandescent Arc Light Company of New York. Case for fan-motors.	708,105	Sept. 2	190	45	100	2021
Wellman, Louis P., West New York, N. J. Strap.	706,468	Aug. 5	941	205	100	1306
Wellman, Samuel G., Corry, Pa. Automatic sash-lock.	714,343	Nov. 25	3567	808	101	1704
Wellman, Samuel T., and J. McGeorge, assignors to Wellman-Seaver Engineering Company, Cleveland, Ohio. Brake.	710,640	Oct. 7	466	97, 98	101	93
Wellman, Samuel T. and C. H., assignors to Wellman-Seaver Engineering Company, Cleveland, Ohio. Hot-blast stove.	711,089	Oct. 14	1330	288	101	289
Wellman, Samuel T. and C. H., and J. W. Seaver, Cleveland, Ohio. Combined charging and discharging device for coke-ovens.	692,746	Feb. 4	927	211 212	98	988
Wellman, Samuel T., J. W. Seaver, and C. H. Wellman, Cleveland, Ohio. Crane and scaffolding.	698,423	Apr. 22	3702	837	99	852
Wellman, Samuel T. and C. H., and J. McGeorge, assignors to Wellman-Seaver Engineering Company, Cleveland, Ohio. Mechanism for stripping and handling ingots.	713,029	Nov. 4	1051	245	101	1111
Wellman, Samuel T. and C. H., J. W. Seaver, and T. R. Morgan, assignors to Wellman-Seaver Engineering Company, Cleveland, Ohio. Coke-loading apparatus.	698,235	Apr. 22	3474	764	99	785
Wellman-Seaver Engineering Company. (See Barland, Ernst, assignor.)						
Wellman-Seaver Engineering Company. (See Hyatt and McGeorge, assignors.)						
Wellman-Seaver Engineering Company. (See Seaver, John W., assignor.)						
Wellman-Seaver Engineering Company. (See Wellman and McGeorge, assignors.)						
Wellman-Seaver Engineering Company. (See Wellman, Samuel T. and C. H., assignors.)						
Wellman-Seaver Engineering Company. (See Wellman, Seaver, and Morgan, assignors.)						
Wellman-Seaver-Morgan Engineering Company. (See Ernst, Alfred, assignor.)						
Wellman-Seaver-Morgan Engineering Company. (See Seaver, John W., assignor.)						
Wellman, Willard F., Belmont, Me. Roller-bushing for sheaves for stringing tobacco.	710,088	Sept. 30	4060	915	100	2576
Wells, Abel W., et al. (See Engberg, Carl, assignor.)						
Wells, Almon V., Washington, D. C. Loose-leaf ledger.	693,767	Feb. 18	2933	645	98	1449
Wells, Channing M., Southbridge, Mass. Spectacle or eyeglass case.	705,502	July 23	4174	908	100	802
Wells, Charles G., Hartford, Conn. Machine for stringing tobacco.	702,267	June 10	1763	402	99	2488
Wells, Charles G., Hartford, assignor to Pouleur and Wells, Windsor, Conn. Machine for stringing tobacco.	708,434	Sept. 2	775	174	100	2138
Wells, Charles L., et al. (See Hachmann, Frederick, assignor.)						
Wells, Charles M., assignor of one-half to M. A. Bragg, Eolia, Mo. Combined corn-drill and manure-distributor.	692,232	Jan. 28	3498	791	98	775
Wells, Clinton, Seibert, Colo. Windmill.	711,140	Oct. 14	1416	306 307	101	309
Wells, Elmer J., assignor of one-half to G. B. Wood, Nashua, Iowa. Game-register.	713,576	Nov. 11	2168	485	101	1356
Wells, Elmer J., and J. F. Young, Nashua, Iowa. Window-shade-cord clamp.	701,436	June 3	273	61	99	2164
Wells, Elmer J., and G. B. Wood, Nashua, Iowa. Game-register.	714,840	Dec. 2	853	83	101	1913
Wells, Francis M., et al. (See Beach, Isaac D., assignor.)						
Wells, Frank A., New York, N. Y. Water-closet.	708,106	Sept. 2	191	45	100	2021
Wells, Frederic E., Greenfield, Mass. Motor.	691,424	Jan. 21	2008	450	98	452
Wells, Frederic E., Greenfield, Mass. Screw-machine.	714,841	Dec. 2	887	83	101	1913
Wells, George, Montreal, Canada. Automatic chromatope.	693,317	Feb. 11	3071	453	98	1250
Wells, George E. (See Schwedtmann and Wells.)						
Wells, George W., trustee. (See English, Analdo M., assignor.)						
Wells, James A., and J. D. Sumrall, Knight, Tex. Current-wheel.	703,871	July 1	912	200	100	183
Wells, Jesse O., Des Moines, Iowa. Traction-engine.	703,872	July 1	913	200 201	100	183
Wells, John F., et al. (See Harrington, Louder, assignor.)						
Wells, Luther, Versailles, Ky. Water-elevator.	709,809	Sept. 23	3499	789	100	2746
Wells, Nelson D. (See Couch and Wells.)						
Wells, Stephen M., Jr., Bristol, assignor to Greystone Manufacturing Company, Greystone, Conn. Halter-chain.	690,801	Jan. 7	839	185	98	177
Wells, William T., Columbus, Ohio. Apparatus for treatment of diseases.	711,605	Oct. 21	2326	508	101	513
Wells, William T., Columbus, Ohio. Table.	714,981	Dec. 2	671	140	101	1970
Weisbach Light Company. (See Farraday and Goss, assignors.)						
Weisbach Light Company. (See Jost, John F., assignor.)						
Weisbach Light Company. (See Sutes, Townsend, assignor.)						
Weish, Wesley R., Parkesburg, Pa. Stalk-cutter.	702,513	June 17	2238	510	99	2607
Weiter, Samuel, and J. Armstrong, Chicago, Ill., assignors to Armstrong Bros. Tool Co. Cutting-tool.	700,865	May 27	3432	789	99	1932
Weiter, Samuel, and J. Armstrong, Chicago, Ill., assignors to Armstrong Bros. Tool Co. Tool-holder.	707,472	Aug. 19	2791	632	100	1725
Welton, C. C., et al. (See Johnson, Charles N., assignor.)						
Welton, Frank R., Detroit, Mich. Planter.	695,128	Mar. 11	1526	338	98	2050
Welton, P. M., et al. (See Johnson, Charles N., assignor.)						
Welton, William H. H., Akron, assignor of one-half to F. Kirk, Chagrin Falls, Ohio. Switch-throwing device.	692,747	Feb. 4	929	212	98	988
Wetly, Joel, Fort Wayne, Ind. Machine for cutting and bending rules.	707,744	Aug. 26	3374	759	100	1861
Wetzel Manufacturing Company. (See Sturtevant, Charles A., assignor.)						
Wenliager, Charles G., Chicago, Ill. Machine for brushing sheet metal.	717,150	Dec. 30	4969	1077	101	2950



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Wemmer, William N., Trenton, N. J. Safety-valve.....	692,808	Feb. 4	1051	236	98	1011
Wende, Frank J., Chicago, and B. B. Carter, Hinsdale, assignors, by mesne assignments, to D. & W. Manufacturing Company, Chicago, Ill. Printing-machine.....	709,810	Sept. 23	3500	790 791	100	2746
Wendling-Hoch Adding Machine Company. (See Hoch, Adam, assignor.)						
Wendt, Fredrick H., assignor to Brown Folding Machine Company, Erie, Pa. Paper-folding machine.....	713,726	Nov. 18	2444	546	101	1431
Wendt, Wilhelm. (See Horstmann and Wendt.)						
Wendtland, Wilhelm. (See Wagner and Wendtland.)						
Wenig, Ferdinand. (See Berg, Rudolf, assignor.)						
Wenker, Raymond J., Milwaukee, Wis. Dental form for holding teeth.....	707,810	Aug. 26	3530	797	100	1892
Wenneis, William, Weehawken, N. J. Folding furniture.....	707,288	Aug. 19	2466	553	100	1658
Wenning, Alfred, and C. H. Gégauiff, assignors to Société Alsacienne de Constructions Mécaniques, Mulhausen, Germany. Comb-ing-machine.....	712,222	Oct. 28	3520	771	101	775
Wentworth, Charles C., Roanoke, Va. Ramming-machine.....	697,303	Apr. 8	1718	383 384	99	386
Wentz, Robert F., Nazareth, Pa. Manufacturing cement.....	714,842	Dec. 2	390	84	101	1913
Wentz, Robert F., Nazareth, Pa. Apparatus for the manufacture of cement.....	714,843	Dec. 2	397	84	101	1915
Wentzel, James C., Greensburg, Pa. Rail-joint fastener.....	706,469	Aug. 5	943	205	100	1306
Wentzel, Otto, Jersey City, assignor of one-half to E. Kohler, Newark, N. J. Safety device for pin-tongues.....	703,715	July 1	627	140	100	124
Wenzel, William, Appleton, Wis. Apparatus for making sulfurous acid.....	704,412	Sept. 8	1947	422	100	409
Wepplö, Isaac W., Baudon, Minn. Rotary steam-engine.....	708,684	Sept. 9	1230	281 282	100	2242
Werk, Robert F., New Orleans, La. Clipper.....	701,653	June 3	682	150	99	2250
Werk, Robert F., New Orleans, La. Clipper.....	714,543	Nov. 25	4029	891	101	1777
Werlin, Louis, Elsmere, Del. Automatic chemical fire-extinguisher.....	705,508	July 22	4175	908	100	893
Werneck, Eugen, Gerstewitz, near Weissenfels, Germany. Filter-press.....	691,030	Jan. 14	1256	284 285	98	277
Werner, Albert, Liberty, N. Y. Portable dark room.....	694,221	Feb. 25	3824	847	98	1644
Werner, Albert Y., and P. B. Ellis, assignors of one-third W. M. Stewart and C. J. Kappler, Carson City, Nev. Extracting rubber-like gum from greasewood.....	697,987	Apr. 15	2921	99	650	
Werner, Edward E. C., New York, N. Y. Ice-cream freezer.....	700,591	May 20	2875	660	99	1799
Werner, Edward H., Somerset, Pa. Rotary engine.....	716,970	Sept. 30	4624	1002 1003	101	2875
Werner, Frederick W., Hempstead, N. Y. Means for promoting combustion.....	709,948	Dec. 30	3790	855	100	2819
Werner, Gotthilf R., assignor of one-half to F. A. Louis, Colby, Kans. Dumping-vehicle.....	710,909	Oct. 7	960	211	101	195
Werner, John, Rochester, N. Y. Syrup-cooler.....	699,730	May 13	1157	270	99	1426
Werner, Paul F., Williamansett, Mass. Trolley-track switch.....	709,590	Sept. 23	3091	688 689	100	2664
Werner, Paul F., Williamansett, assignor to Coburn Trolley Track Manufacturing Company, Holyoke, Mass. Switch for overhead tubular trolley-tracks.....	706,139	Aug. 5	258	54	100	1171
Werner, William A. P., London, England. Apparatus for the production of fiberless filaments.....	697,580	Apr. 15	2224	496	99	504
Werner, William A. P., London, England. Regulating-gear.....	712,028	Oct. 28	3167	692	101	707
Wernicke, Otto H. L., et al. (See Roach, William G. and A. C., assignors.)						
Werra, Conrad, assignor to Manitowoc Aluminum Novelty Company, Manitowoc, Wis. Grinding, polishing, or buffing machine.....	713,256	Nov. 11	1513	342 343	101	1222
Wertenbruch, Franz, Glasgow, Scotland. Weighing-machine.....	694,222	Feb. 25	3826	847 848	98	1645
Werth, Joseph M., Elkhorn, W. Va. Pipe-coupling.....	715,222	Dec. 2	1093	234	101	2060
Wertheim, Ludwig. (See Wolfbauer, Edward, assignor.)						
Wertheim, Ludwig, New York, N. Y. Garment-supporter.....	717,305	Dec. 30	5270	1144	101	3015
Werthner, Christian, assignor to Gendron Manufacturing Company, Limited, Toronto, Canada. Knockdown wicker chair.....	691,216	Jan. 14	1574	358	98	343
Werts, David E., Grants Pass, Ore. Change-address holder.....	713,030	Nov. 4	1053	245	101	1112
Wertz, Herman, Newark, N. J., assignor to Hardman Rubber Company. Display-box.....	714,544	Nov. 25	4080	892	101	1777
Wescott, James M., Hornellsville, and C. B. Smith, Prattsburg, N. Y. Automatic safety gas-valve.....	692,172	Jan. 28	3367	768	98	752
Wescott, John H., Norfolk, Va. Compound engine.....	710,910	Oct. 7	961	212	101	196
Wesel, Ferdinand, Brooklyn, N. Y. Engraver's ruling-machine.....	699,859	May 13	1424	329	99	1481
Wesel, Ferdinand, Brooklyn, N. Y. Machine for shaving electrolytes.....	708,435	Sept. 2	777	175	100	2138
Wesel, Ferdinand, Brooklyn, N. Y. Machine for beveling photo-engravers' plates.....	708,436	Sept. 2	779	176	100	2139
Wesener, John A., Chicago, Ill. Chemical apparatus.....	700,268	May 20	2256	515	99	1674
Wesley, John A. B., Gawler, South Australia. Concentrating-table.....	692,495	Feb. 4	480	112 113	98	897
Wessel, Karl, assignor to Curled Fibre Manufacturing Company, St. Paul, Minn. Mattress-filling machine.....	707,745	Aug. 26	3376	760	100	1861
Wessel, Karl, assignor to Curled Fibre Manufacturing Company, St. Paul, Minn. Mattress-filling machine.....	707,746	Aug. 26	3381	761	100	1863
Wessel, William C., and H. W. Jacob, Pittsburg, Pa. Railway-rail joint.....	708,605	Sept. 9	1090	245	100	2213
Wessell, Charles, New York, N. Y. Refining spelter.....	698,163	Apr. 22	3357	99	756	
Wessells, Samuel, Peekskill, N. Y. Shelf for cash-registers.....	693,473	Feb. 18	2383	822	98	1837
Wesselmann, Bruno, Gross Lichterfelde, Germany. Frame for metal-shearing machines.....	710,310	Sept. 30	4476	1009 1010	100	2065
Wessling, Henry. (See Gibson and Wessling.)						
Wessman, Carl A., Chicago, Ill. Drilling-machine.....	697,581	Apr. 15	2226	496 497	99	505
Wesson, Daniel B., Springfield, Mass. Front sight for revolvers.....	715,223	Dec. 2	1095	234	101	3061
Wesson, Daniel B., Springfield, Mass. Rear sight for revolvers.....	717,473	Dec. 30	5579	121	101	3077
Wesson, James H., Attalla, Ala. Baling press.....	716,502	Dec. 23	3908	789	101	2635
Wesson, Joseph H., Springfield, Mass. Revolving firearm.....	702,607	June 17	2420	532	99	2643
Wesson, Joseph H., Springfield, Mass. Revolver-lock.....	708,437	Sept. 2	781	177	100	2139
Wesson, Joseph H., Springfield, Mass. Device for reloading cartridge-shells.....	716,797	Dec. 23	4176	916	101	2755
Wesson, Miley B. (See Lewis, Ray, and Wesson.)						
West, Allen L., Cuba, Ohio. Portable cable-anchor fence.....	691,425	Jan. 21	2010	450	98	453
West, Boylston Manufacturing Company. (See Fitz, William E., assignor.)						
West, Charles O., assignor of one-half to J. E. Lockwood, Kansas City, Mo. Street-car fender.....	700,269	May 20	2258	515 516	99	1674
West Disinfecting Company. (See Martin, Frank A., assignor.)						
West Disinfecting Company. (See Tuck, William H., assignor.)						
West Disinfecting Company. (See Walz, Charles J., assignor.)						
West, Edward. (See Blauvelt, William E., assignor.)						
West, Fred A., Browning, Wis. Cow-milker.....	710,384	Sept. 30	4005	1089	100	2992

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West, Henry P. (See Walker, Joseph, assignor.)						
West, James, St. Louis, Mo., assignor, by assignment, to Union Paper Bag Machine Company, Philadelphia, Pa. Paper-bag machine	711,369	Oct. 14	1872	408 409	101	405
West, James Dalston, assignor of two-thirds to H. J. W. Raphael, Shepherds Bush, county of Middlesex, and H. L. Ettinghausen, London, England. Apparatus for determining and marking focal center of spherical lenses	691,217	Jan. 14	1575	358 359	98	344
West, James Dalston, assignor of two-thirds to H. J. W. Raphael, Shepherds Bush, county of Middlesex, and H. L. Ettinghausen, London, England. Apparatus for attaching holding devices to lenses while such lenses are being shaped and edged	691,218	Jan. 14	1576	359	98	344
West, James Dalston, assignor of two-thirds to H. J. W. Raphael, Shepherds Bush, county of Middlesex, and H. L. Ettinghausen, London, England. Machine for forming and finishing edges of lenses	691,219	Jan. 14	1578	359 360	98	344
West, James Dalston, assignor of two-thirds to H. J. W. Raphael, Shepherds Bush, county of Middlesex, and H. L. Ettinghausen, London, England. Apparatus for cutting elliptical or other shaped lenses accurately in relation to their focal centers while being cut	691,220	Jan. 14	1582	361	98	345
West, Jay O., Port Huron, Mich. Skein-holder	712,874	Nov. 4	770	178	101	1055
West, John T., Bowling Green, Ky. Rein-guard	705,986	July 29	5121	1117	100	1096
West, Julius H., Berlin, Germany. Manufacture of electric cables	700,107	May 13	1876	487	99	1573
West, Julius H., Berlin, Germany. Electric cable	716,155	Dec. 16	2914	641	101	2476
West, Lawrence B., Cincinnati, Ohio. Beam for railway-track foundations	706,619	Aug. 12	1302	267	100	1375
West, Leonidas D., Geneva, N. Y. Apparatus for producing combustion	696,007	Apr. 29	4155	914	99	941
West, Louis G. M., assignor of one-half to R. E. Munro, Baltimore, Md. Means for lubricating hydraulic cylinders	700,270	May 20	2260	516	99	1675
West, Timothy C., Richmond, Va. Return-envelop	690,500	Jan. 7	258	52	98	57
West, Truman C., Hattiesburg, Miss. Baling-press	708,688	July 1	583	180	100	115
Westbrook, James G., and J. McCasland, Ogdensburg, N. Y. Hub	711,368	Oct. 14	1871	408	101	405
Westdal, Stephen T. (See Green, Charles D., assignor.)						
Westfield, Herman E. F., assignor of one-half to G. J. Seiss, Toledo, Ohio. Musical pipe toy	714,765	Dec. 2	227	45	101	1888
Westenholz, Thomas F., Hellerup, near Copenhagen, Denmark. Apparatus for automatically lighting or extinguishing gas lamps	713,031	Nov. 4	1054	245 246	101	1112
Westerby, Thomas, and W. G. Crosthwaite, Leeds, England. Boiler or other furnace grate	693,634	Feb. 18	2702	596	98	1402
Westerlin & Campbell. (See Criswell, Lexter P., assignor.)						
Western Battery Company. (See Bond and Shouse, assignors.)						
Western Clock Manufacturing Company. (See Neureuther, Andrew H., assignor.)						
Western Electric Company. (See Dean, William W., assignor.)						
Western Electric Company. (See Fiske, Bradley A., assignor.)						
Western Electric Company. (See Hall, Roderic F., assignor.)						
Western Electric Company. (See McBerty, Frank R., assignor.)						
Western Electric Company. (See McBerty and Loveridge, assignors.)						
Western Electric Company. (See O'Connell, Joseph J., assignor.)						
Western Electric Company. (See Scribner, Charles E., assignor.) (Reissue.)						
Western Electric Company. (See Wait, Henry H., assignor.)						
Western Implement Company. (See Neuens, Michael W., assignor.)						
Western Manufacturing Company. (See Shafer, Charles T., assignor.)						
Western, Richard W. (See Ellershausen and Western.)						
Western Storage Battery Company. (See Pumpelly, James K., assignor.)						
Western Telegraph Typewriting Machine Company. (See Foote, Theodore M., assignor.)						
Western Wheeled Scraper Company. (See McKnight, Thomas R., assignor.)						
Western Wheeled Scraper Company. (See McKnight and Clapp, assignors.)						
Western Wheeled Scraper Company. (See Welch, Samuel F., assignor.)						
Western Wire Fence Company. (See Canfield, Frank, assignor.)						
Westervelt, Herbert E., South Bend, Ind. Paper-bag machine	709,129	Sept. 16	2146	492 493	100	2452
Westinghouse Air Brake Company. (See Herr, Edwin M., assignor.)						
Westinghouse Air Brake Company. (See Mason, Harry R., assignor.)						
Westinghouse Air Brake Company. (See Newell, Frank C., assignor.)						
Westinghouse Air Brake Company. (See Small, Henry J., assignor.) (Reissue.)						
Westinghouse Air Brake Company. (See Synnestvedt, Paul, assignor.)						
Westinghouse Air Brake Company. (See Westinghouse, George, assignor.)						
Westinghouse Air Brake Company. (See Westinghouse, Henry H., assignor.)						
Westinghouse Air Brake Company. (See Woods, Granville T., assignor.)						
Westinghouse Electric & Manufacturing Co. (See Davis, Harry P., assignor.)						
Westinghouse Electric & Manufacturing Co. (See Lamma, Benjamin G., assignor.)						
Westinghouse Electric & Manufacturing Company. (See Baker, Malcolm H., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Cheney, Davison, and Skinner, assignors.)						
Westinghouse Electric & Manufacturing Company. (See Conrad, Frank, assignor.)						
Westinghouse Electric and Manufacturing Company. (See Merrick, Frank A., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Merrick and Forrer, assignors.)						
Westinghouse Electric and Manufacturing Company. (See Merrick and Stull, assignors.)						
Westinghouse Electric & Manufacturing Company. (See Peck, John S., assignor.)						
Westinghouse Electric & Manufacturing Company. (See Perkins, Thomas S., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Short, Sidney H., assignor.)						
Westinghouse Electric & Manufacturing Company. (See Siegfried, Robert, assignor.)						
Westinghouse Electric & Manufacturing Company. (See Storer, Norman W., assignor.)						
Westinghouse Electric & Manufacturing Company. (See Stuart, Harve R., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Stull, Emmett W., assignor.)						
Westinghouse Electric & Manufacturing Company. (See Thomas, Percy H., assignor.)						
Westinghouse Electric & Manufacturing Company. (See Tilden, George G., assignor.)						
Westinghouse Electric & Manufacturing Company. (See Tyler, Charles C., assignor.)						
Westinghouse, George. (See Beebe, Murray C., assignor.)						
Westinghouse, George. (See Goddard, Frederick M., assignor.)						
Westinghouse, George. (See Hanks, Marshall W., assignor.)						
Westinghouse, George. (See Knox, William J., assignor.)						
Westinghouse, George. (See Kusebach, Anton, assignor.)						
Westinghouse, George. (See Potter, Henry N., assignor.)						
Westinghouse, George. (See Potter and Nernst, assignors.)						
Westinghouse, George. (See Wurts, Alexander J., assignor.)						
Westinghouse, George, Pittsburg, Pa. Furnace	708,107	Sept. 2	192	46	100	2021
Westinghouse, George, Pittsburg, Pa. Car-coupling	708,747	Sept. 9	1350	308 309	100	2268
Westinghouse, George, Pittsburg, Pa. Gas-engine	710,385	Sept. 30	4607	1099	100	2992
Westinghouse, George, Pittsburg, Pa. Rotary engine	712,626	Nov. 4	312	73	101	963



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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Westinghouse, George, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Automatic fluid-pressure brake apparatus.	699,267	May 6	255	50	99	1226
Westinghouse, Henry H., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Apparatus for applying and controlling braking force.	702,268	June 10	1765	402 403 404	99	2489
Westinghouse, Henry H., Edgewood Park, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Fluid-pressure brake	702,269	June 10	1770	404	99	2490
Westinghouse, Henry H., Edgewood Park, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Fluid-pressure brake	707,473	Aug. 19	2793	632	100	1725
Westinghouse, Henry H., Edgewood Park, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Fluid-pressure brake	707,474	Aug. 19	2795	632	100	1726
Westinghouse Machine Company. (See Bole, William A., assignor.)						
Westinghouse Machine Company. (See Flanders, Louis H., assignor.)						
Westinghouse Machine Company. (See Hodgkinson, Francis, assignor.)						
Westinghouse Machine Company. (See Robinson, Cyrus, assignor.)						
Westlake, Charles T., Granite, Ill. Car-transom.	692,566	Feb. 4	613	144	98	923
Westlake, Charles T., Granite, Ill. Swinging spring-seat for car-bolsters.	692,567	Feb. 4	614	144 145	98	923
Westlake, Charles T., Granite, Ill. Car-bolster	692,568	Feb. 4	615	145	98	924
Westlake, Charles T., St. Louis, Mo. Car-bolster	692,569	Feb. 4	616	145	98	924
Westlake, Charles T., Granite City, Ill., assignor to Commonwealth Steel Company, St. Louis, Mo. Swinging spring-seat for car-bolsters.	704,997	July 15	3116	671	100	604
Westlake, Charles T., Granite City, Ill., assignor to Commonwealth Steel Company, St. Louis, Mo. Truck side frame	706,789	Aug. 12	1537	845	100	1446
Westlake, Charles T., Granite, Ill., assignor to Commonwealth Steel Company, St. Louis, Mo. Truck side frame	714,076	Nov. 18	3131	698	101	1576
Westlake Company. (See Westlake, William, assignor.)						
Westlake, Henricus W., Los Angeles, Cal. Vaginal irrigator	693,358	Feb. 11	2153	473 1145	98	1268
Westlake, William, Brooklyn, N. Y., assignor, by mesne assignments, to Westlake Company. Furnace for burning powdered fuel	717,306	Dec. 30	5270	1146 808 809	101	3015
Westmark, Hans O., Aurora, Ill., assignor of one-half to O. C. Mann, Nora Springs, Iowa. Boiler-due rattle	714,344	Nov. 25	3668	809	101	1705
Westmoreland, Henry A., Creswick, Victoria, Australia. Wrench.	717,479	Dec. 30	5580	1211	101	3077
Weston, Asa L., Dover, Ohio. Hasp-fastener	704,413	July 8	1919	422	100	410
Weston, Austin M., Kansas City, Mo. Lister-cultivator	693,474	Feb. 18	2287	522	98	1337
Weston, Charles B., Brooklyn, N. Y. Wall-paper machine	707,289	Aug. 19	2468	553	100	1638
Weston, Dyson. (See Tuckerfield, Charles, assignor.)						
Weston, Edward, Newark, N. J. Electrical measuring instrument	716,971	Dec. 30	4626	1003 1004	101	2876
Weston, Edward, Newark, and A. O. Benecke, Vailsburg, N. J. Recording electrical measuring instrument	713,257	Nov. 11	1517	343 344	101	1223
Weston, Edward, Newark, and A. O. Benecke, Vailsburg, N. J. Recording electrical measuring instrument	713,258	Nov. 11	1522	344 345	101	1224
Weston, Edward, Newark, and A. O. Benecke, Vailsburg, N. J. Recording electrical measuring instrument	713,259	Nov. 11	1526	345	101	1224
Weston, Frank F. (See Barton, George F., assignor.)						
Weston, Henry, Philadelphia, Pa. Lamp-wick	699,432	May 6	585	183	99	1296
Weston Paper and Manufacturing Company. (See Davis, John N., assignor.)						
Weston, William W., Weston, S. C. Hay-press	692,952	Feb. 11	1358	295	98	1105
Westover, Henry J., Mount Vernon, assignor to H. W. Leonard, Bronxville, N. Y. Variable-speed and reversing gear	709,690	Sept. 23	3261	731	100	2698
Westover, Selah S. W. (See Adkins, Samuel S., assignor.)						
Wetheral, Peter J., Holyoke, Mass. Thread-winding machine	693,196	Feb. 11	1862	402	98	1206
Wetherell, Mary E., Boston, assignor to S. H. Sawyer, Wellfleet, Mass. Bustle and hip extension	692,095	Jan. 28	3269	739	98	728
Wetherill, John P., South Bethlehem, Pa. Magnetic separator	708,186	Sept. 2	348	83	100	2052
Wetherill, John P., South Bethlehem, Pa. Magnetic separator	708,187	Sept. 2	350	83, 84	100	2053
Wetherill, John P., South Bethlehem, Pa. Magnetic separator	708,187	Sept. 2	352	84	100	2054
Wetherill, William C., Joplin, Mo. Zinc-furnace	708,438	Sept. 2	782	177 178	100	2139
Wetherman, Gerald F., and G. Holzhausen, Enfield, England. Stone or plate for photo-mechanical printing and for other purposes, and preparing same	707,747	Aug. 26	3334		100	1864
Wetley, C. E. et al. (See Brooks, Theodore L., assignor.)						
Wetmore, Earl P., London, England, assignor to Lorain Steel Company. Electric railway	713,822	Nov. 18	2622	585	101	1469
Wetmore, Henry H., St. Paul, assignor of one-half to W. Arnold, St. Cloud, Minn. Stone-cutting machine	713,823	Nov. 18	2623	585	101	1469
Wetmore, Orin D., Chicago, Ill. Glue-tank	699,268	May 6	257	59	99	1226
Wetzel, Frederick L., St. Louis, Mo., assignor to National Biscuit Company, Jersey City, N. J., and Chicago, Ill. Truck for icing-frames	714,417	Nov. 25	3799	839	101	1731
Wetzel, Frederick L., St. Louis, Mo., assignor to National Biscuit Company, Jersey City, N. J., and Chicago, Ill. Apparatus for facilitating the icing or coating of cakes, biscuits, or the like	714,418	Nov. 25	3800	840	101	1731
Wetzel, Frederick L., St. Louis, Mo., assignor to National Biscuit Company, Jersey City, N. J., and Chicago, Ill. Machine for facilitating the icing or coating of bakery products	714,419	Nov. 25	3302	840 841	101	1732
Wetzel, Frederick L., St. Louis, Mo., assignor to National Biscuit Company, Jersey City, N. J., and Chicago, Ill. Drier for bakery or similar iced goods	714,420	Nov. 25	3806	841	101	1732
Wetzig, Ernest L., and G. W. Reust, Junction City, Kans. Cartridge-shell loader	713,032	Nov. 4	1056	246	101	1112
Weyer, La Fayette T., assignor to J. M. Andrews, Arran, and C. M. Ausley, Tallahassee, Fla. Railway-rail joint	711,687	Nov. 21	2487	546	101	549
Weyand, Joseph, Guttenberg, N. J. Hydraulic air-compressor	698,236	Apr. 22	3476	764	99	786
Weyandt, Andrew E. (See Weyandt, John H. and A. E.)						
Weyandt, John H. and A. E., Bowerston, Ohio. Plumb and level	716,603	Dec. 23	3829	831	101	2683
Weyant, Thomas R., Brooklyn, assignor to Standard Fan Company, New York, N. Y. Fan	691,426	Jan. 21	2012	430 431	98	453
Weyburn, Elbert D. (See Scott and Weyburn.)						
Weyer, Theodore G., Chicago, Ill., assignor to S. Karpen & Bros. Sofa-bed	713,260	Nov. 11	1529	345	101	1225
Weyer, Wm. S. (See Gould, William J., assignor.)						
Weyl, Theodor, Charlottenburg, near Berlin, assignor to Siemens and Halske, Aktien-Gesellschaft, Berlin, Germany. Manufacture of sterilized carbonated waters	700,464	May 20	2647	606	99	1751
Wezel, Julius, Leipsic, Germany. Plant for treating paper	697,761	Apr. 15	2562	570 571	99	573
Wezel, Julius, Leipsic, Germany. Treating paper for art printing	698,772	Apr. 29	4501		99	1019
Whalen, John A. (See Doerner and Whalen.)						
Whalen, John W., Cambridge, assignor of one-half to J. H. McGee, Boston, Mass. Vehicle-brake	716,324	Dec. 16	3238	708	101	2543

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Whalen, William J., Pittsburg, Pa. Riving-machine	716,159	Dec. 16	2915	641	101	2476
Whaley, Luke, Weytown, N. Y. Circulating box for pulp-screens	694,707	Mar. 4	710	155	98	1881
Wharfield, Henry C., et al. (See Wharfield, Marion A., assignor.)						
Wharfield, Marion A., assignor of eight-fifteenths to B. G. McMechen and H. C. Wharfield, Toledo, Ohio. Link-motion for steam-engines	705,174	July 22	3481	757	100	754
Wharton, Harry, Loughborough, England. Reversing tap-holder	708,748	Sept. 9	1356	310	100	2270
Wharton, John M. (See Dye, William H., assignor.)						
Wharton, William, Jr., assignor to William Wharton, Jr., & Company, Incorporated, Philadelphia, Pa. Railway-switch	704,414	July 8	1950	422	100	110
Wheatley, Frederick L., Gleasonston, and S. Steen, Medixrun, Pa. End-gate	691,081	Jan. 14	1259	285	98	277
Wheatley, Thomas, Syracuse, N. Y. Mailing-tube	696,614	Apr. 1	403	94	99	88
Wheaton, Carl M., Newton, Mass. Friction-clutch	691,221	Jan. 14	1582	361	98	345
Wheaton, Charles H., Iola, Kans. Leaf for books	709,529	Sept. 23	2996	667	101	2644
Wheel Within Wheel Company. (See Haywood, Daniel H., assignor.)						
Wheel Within Wheel Company. (See Lee, George S., assignor.)						
Wheeland, Charles E., assignor to Wheeland Novelty Company, Seattle, Wash. Educational appliance	715,224	Dec. 2	1095	235	101	2061
Wheeland Novelty Company. (See Wheeland, Charles E., assignor.)						
Wheeler, Arthur. (See Clark and Wheeler.)						
Wheeler, Benjamin F., assignor to Wheeler Manufacturing Company, Detroit, Mich. Bicycle-handle-bar grip	701,437	June 3	275	81	99	2164
Wheeler, Carrie A., Albany, N. Y. Show-bells	716,157	Dec. 16	2916	642	101	2477
Wheeler, Charles H., Harsleden, England. Washing apparatus for railway or tramway carriages	695,255	Mar. 11	1754	387	98	2008
Wheeler, Charles H., and F. W. Kremer; said Wheeler assignor to India Rubber Company, Akron, Ohio. Mold for curing tires	696,124	Mar. 25	3387	757	98	2462
Wheeler, Charles H., and F. W. Kremer; said Wheeler assignor to India Rubber Company, Akron, Ohio. Vehicle-tire	705,175	July 22	3482	757	100	754
Wheeler, Charles H., and F. W. Kremer; said Wheeler assignor to India Rubber Company, Akron, Ohio. Vehicle-wheel	705,176	July 22	3483	757	100	754
Wheeler, Charles H., and F. W. Kremer; said Wheeler assignor to India Rubber Company, Akron, Ohio. Vehicle-wheel	705,177	July 22	3485	757	100	755
Wheeler, Charles H., and F. W. Kremer; said Wheeler assignor to India Rubber Company, Akron, Ohio. Solid-rubber tire	705,178	July 22	3487	758	100	755
Wheeler, Clara H., New York, N. Y. Hose-supporter	697,049	Apr. 8	1272	282	99	289
Wheeler, Clifton H., and L. Pratt, Shortlands, N. J., assignors to Wheeler Condenser and Engineering Company, New York, N. Y. Water-cooling tower	707,042	Aug. 12	1981	415	100	1538
Wheeler Condenser and Engineering Company. (See Wheeler and Pratt, assignors.)						
Wheeler, Edmund L., Brooklyn, N. Y. Globe-holder	712,029	Oct. 28	3170	692	101	768
Wheeler, George A., New York, N. Y. Hinge	698,884	Apr. 29	4765	1048	99	1078
Wheeler, Holland, Lawrence, Kans. Inlet and catch-basin	699,269	May 6	250	89	99	1227
Wheeler, James F., Perry Township, assignor of one-half to A. Boice, Indianapolis, Ind. Buncher attachment for mowers	693,093	Feb. 11	1611	351	98	1156
Wheeler, John B. C., et al. (See Cohen, George W., assignor.)						
Wheeler, Joseph, Wheeler, Ala. Combined ramrod, gun-rest, and bayonet	716,158	Dec. 16	2918	642	101	2477
Wheeler Manufacturing Company. (See Wheeler, Benjamin F., assignor.)						
Wheeler, Milo L. G., and D. D. Besse, Seattle, Wash. Water-motor	716,650	Dec. 23	3919	856	101	2702
Wheeler, Robert L., assignor of one-half to G. E. Poppelt, Peoria, Ill. Corner-shield	695,184	Mar. 11	1621	360	98	2071
Wheeler, Samuel D., Fowlstown, assignor of one-half to D. N. Miller, Atlapulcus, Ga. Machine for stringing tobacco leaves	710,027	Sept. 30	3942	889	100	2852
Wheeler, Samuel H., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Drawer for sewing-machine stands or other articles of furniture	697,582	Apr. 15	2327	497	99	505
Wheeler, Seth, Albany, N. Y. Expansion-bolt	691,921	Jan. 28	2936	662	98	662
Wheeler, Seth, Albany, N. Y. Machine for perforating paper	707,885	Aug. 26	3680	828	100	1921
Wheeler, Webster B., Fullerton, Nebr. Electrically-controlled optical appliance	709,837	Sept. 23	3548	810	100	2738
Wheeler, William R., Hartford, Conn. Photo-book	714,844	Dec. 2	404	85	101	1916
Wheeler & Wilson Manufacturing Company. (See Abercrombie, William R., assignor.)						
Wheeler & Wilson Manufacturing Company. (See Dial and Dimond, assignors.)						
Wheeler & Wilson Manufacturing Company. (See Dimond, George H., assignor.)						
Wheeler & Wilson Manufacturing Company. (See Dimond and Dial, assignors.)						
Wheeler & Wilson Manufacturing Company. (See Eames, George M., assignor.)						
Wheeler & Wilson Manufacturing Company. (See Laubscher, Alexander, assignor.)						
Wheeler & Wilson Manufacturing Company. (See Most, John, assignor.)						
Wheeler & Wilson Manufacturing Company. (See Noble, Donald, assignor.)						
Wheeler & Wilson Manufacturing Company. (See Ostrom, Freeland W., assignor.)						
Wheeler & Wilson Manufacturing Company. (See Wheeler, Samuel H., assignor.)						
Wheelwright, Charles S., Bristol, R. I. Apparatus for cooking garbage	709,836	Sept. 23	3545	799	100	2757
Wheelwright, Charles S., Providence, R. I., assignor to Wheelwright Filler & Manufacturing Company. Apparatus for draining crystals of sulfate of lime	712,347	Oct. 28	3737	817	101	821
Wheelwright Filler & Manufacturing Company. (See Wheelwright, Charles S., assignor.)						
Wheelwright, Thomas S., Highland Park, Ill. Seal-lock	695,513	Mar. 18	2188	494	98	2206
Whelan, Eugene B., Omaha, Nebr., and W. J. Sweigard, Philadelphia, Pa. Combined vacuum relief-valve	714,945	Nov. 25	3673	509	101	1706
Whelan, James W. (See Donohue, James S., assignor.)						
Whelan, Joseph A., Rock Springs, Wyo. Weed-puller	707,475	Aug. 19	2789	638	100	1726
Wheler, Harvey, Harrisburg, Pa. Push-pole	705,179	July 22	3498	758	100	755
Whelleben, John H. (See O'Keefe and Whelleben.)						
Whetham, Charles, Ruskin, Canada. Portable tripod	703,873	July 1	917	201	100	184
Whicher, Louis E., et al., trustees. (See Stone, John S., assignor.)						
Whitehart, John, Zanesville, Ohio. Carpet-stretcher	695,772	Mar. 18	2665	606	98	2304
Whinery, Samuel B., Pittsburg, Pa., assignor to Pittsburg Blue Print Company. Blue-printing apparatus	699,355	May 6	431	98	99	1262
Whinery, Samuel B., Pittsburg, Pa., assignor to Pittsburg Blue Print Company. Carbon-holder	702,514	June 17	2240	510	99	2607
Whinery, Samuel B., assignor to Pittsburg Blue Print Company, Pittsburg, Pa. Blue-printing apparatus	704,415	July 8	1950	422	100	410
Whipple, Archibald M., North Adams, Mass. System of glazing	697,583	Apr. 15	2328	497	99	505
Whipple, Charles, Ashley, Ohio. Wire-fence tool	705,504	July 22	4177	909	100	898
Whipple, Henry J. (See Tuttle, Charles, assignor.)						
Whitaker, Ceryl J. (See Betts and Whitaker.)						
Whitaker, George, Columbus, Ohio. Lubricator	715,717	Dec. 9	2013	451	101	2265
Whitaker, John H., Davenport, Iowa. Automatically-operating door	695,885	Apr. 29	4770	1049	99	1079
Whitaker, Lewis E., Sussex, N. J. Cloth or sponge holder	696,125	Mar. 25	3358	758	98	2462
Whitaker, Louis P. (See Spencer and Whitaker.)						
Whitaker, Morris M., Sacket Harbor, N. Y., assignor of one-half to W. R. Sands, Newark, N. J. Steam-turbine	713,261	Nov. 11	1531	346	101	1225



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Whitaker, Nelson E. (See Dally, Charles A., assignor.)						
Whitaker, Simon S., assignor of one-half to R. and B. T. Jones, Venetia, Pa. Rotary engine.	716,503	Dec. 23	3612	789	101	2636
Whitall Tatum Company. (See Tatum, Albert H., assignor.)						
Whitall Tatum Company. (See Tatum, Charles A., assignor.)						
Whitcomb, Horatio N., Waterloo, assignor of two-thirds to J. L. Lafontaine, Roxton Falls, and M. Auger, Toronto, Canada. Gun-rack.	712,428	Oct. 28	3903	854	101	857
White, Albert E., Cleveland, Ohio. Hoisting apparatus.	711,806	Oct. 21	2716	800	101	597
White, Alfred J., Akron, Ohio. Guard for power-driven wood-jointers.	692,748	Feb. 4	930	212	99	988
White, Alfred J., assignor to Williams Foundry and Machine Company, Akron, Ohio. Vulcanizer.	717,480	Dec. 30	5581	1211 1212	101	3077
White, Andrew. (See Giacomini, Achilles, assignor.)						
White, Andrew M., Grayling, Mich. Rail-clamp.	700,108	May 13	1878	437	99	1573
White, Arthur E., Chicago, Ill. Wire or rope stretcher and fastener.	717,481	Dec. 30	5583	1212	101	3078
White, Aurelius G. (See Bell, Jason J., assignor.)						
White, Booker C., and T. J. Jones, Catlin, Ill.; said Jones assignor to said White. Moving-machine.	710,238	Sept. 30	4339	976 606 607 608	100	2937
White, Bruce C., Pittsburg, Pa. Molding-machine.	695,773	Mar. 18	2666	607 608	98	2304
White, Burdette J., et al. (See Moore, Frank M., assignor.)						
White, Charles B. (See White, Franklin, assignor.)						
White, Charles B. and F., Landover, Md. Bedstead.	702,899	June 17	2845	655	99	2733
White, Charles B. and F., Landover, Md. Spring bed-bottom.	704,416	July 8	1951	423	100	410
White, Charles E., Moline, Ill. Mechanism for straightening rails, bars, &c.	702,840	June 17	2846	655	99	2733
White, Charles P., Spencer, N. C. Artificial limb.	708,685	Sept. 9	1231	282	100	2242
White, Charles T., assignor of one-half to A. B. Graham, South Bend, Ind. Bottle-filling device.	708,874	July 1	921	202	100	185
White, Clarence A., Goshen, N. Y. Lemon-squeezer.	713,034	Nov. 4	1064	247	101	1114
White, Clarence O., assignor of one-half to E. J. Kimball, Minneapolis, Minn. Vaporizer for explosive-engines.	694,708	Mar. 4	710	156	98	1861
White, Clarence O., assignor to Globe Iron Works, Minneapolis, Minn. Sparking device.	702,895	June 17	2845	681	99	2755
White, David, assignor of one-half to G. A. Kennon, Kentwood, La. Grappling-hook.	701,654	June 3	933	151	99	2251
White, David E., Winchester, Kans. Cutter-bar.	697,030	Apr. 8	1273	283	99	280
White, David E., Winchester, Kans. Buckle.	702,082	June 10	1455	327	99	2425
White, Edna D., Stillman Valley, Ill. Darning-last.	700,866	May 27	3433	789	99	1933
White, Edward L. (See White, John H. and E. L.)						
White, Edward Y., San Antonio, Tex. Spring-frame for motor-cycles.	716,604	Dec. 23	3836	831	101	2683
White, Frank C., assignor to Wilcox & White Company, Meriden, Conn. Automatic piano-player.	697,226	Apr. 8	1576	332 333	99	354
White, Frank L., assignor of one-half to W. B. Howel, Pine Bluff, Ark. Cotton-compressor.	704,998	July 15	3117	671	100	664
White, Franklin. (See White, Charles B. and F.)						
White, Franklin, assignor of one-half to C. B. White, Landover, Md. Knockdown chair.	693,197	Feb. 11	1864	403	98	1206
White, Franklin, assignor of one-half to C. B. White, Landover, Md. Extension-table.	701,782	June 3	895	199	99	2296
White, Franklin R., assignor to Patent Button Company, Waterbury, Conn. Fastener.	691,222	Jan. 14	1587	362	98	346
White, Franklin R., assignor to Patent Button Company, Waterbury, Conn. Fastener.	692,953	Feb. 11	1361	296	98	1105
White, Fred C., et al. (See Beck, George W., assignor.)						
White, Fred S. (See Bishop, Benjamin M., assignor.)						
White, George, Jr. (See Maxwell and White.)						
White, George, Jr., Madison, N. J. Bottle-closure.	713,824	Nov. 18	2624	746	101	1469
White, Georgia, et al. (See White, Nathan, assignor.)						
White, Harrie C. (See White, Hawley C. and H. C.)						
White, Harry H., assignor to Carpenter Steel Company, Incorporated, Reading, Pa. Automatic stop mechanism for wire-mills.	714,120	Nov. 18	3211	709	101	1535
White, Hawley C. and H. C., assignors to H. C. White Co., North Bennington, Vt. Stereoscope.	701,526	June 3	493	98	99	2198
White, Hawley C. and H. C., assignors to H. C. White Co., North Bennington, Vt. Stereoscope.	701,527	June 3	496	98	99	2198
White, Henry, and W. G. Taylor, Marion, Ohio, assignors of one-third to Z. T. Silvis, Greensburg, Pa., and H. J. Silvis, Mansfield, Ohio. Valve-gear.	707,995	Aug. 26	3888	873 874	100	1962
White, Henry A., Chicago, Ill., assignor to Pfaunder Vacuum Fermentation Company, Rochester, N. Y. Apparatus for racking carbonated beverages.	691,997	Jan. 28	3080	692 693	98	690
White, Henry C. (See Alexander and White.)						
White, Henry P., Kalamazoo, Mich. Mechanical speed-regulator.	703,027	June 24	3210	739	99	2824
White, Henry P., Kalamazoo, Mich. Speed-regulator.	708,439	Sept. 2	786	178	100	2140
White, Henry P., Kalamazoo, assignor, by mesne assignments, to Wilmarth and Morman Company, Grand Rapids, Mich. Drill-grinding machine.	697,584	Apr. 15	2231	498 499	99	506
White, Hubert C., Jamaica, Vt. Mop-wringer.	698,773	Apr. 29	4501	995	99	1019
White, Hubert L., Utica, N. Y. Pliers.	715,915	Dec. 16	2439	539	101	2375
White, Irving A., Keene, N. H. Centering-gage.	715,445	Dec. 9	1503	326	101	2162
White, James H., Orange, assignor to T. A. Edison, Llewellyn Park, N. J. Projecting kinoscope.	714,845	Dec. 2	405	85,86	101	1916
White, James L., West Superior, assignor to J. L. White Furnace Company, Milwaukee, Wis. Grate.	692,809	Feb. 4	1052	237	98	1011
White, James T., Meriden, Conn. Bushing for buffing-wheels.	716,325	Dec. 16	3240	708	101	2543
White, Joel K., and H. W. Daub, Topeka, Kans. Trap for waste-pipes.	716,326	Dec. 16	3241	708	101	2544
White, John F., Racine, Wis. End-gate.	713,262	Nov. 11	1535	347	101	1227
White, John F., Racine, Wis. Wagon-jack.	714,346	Nov. 25	3676	810	101	1706
White, John F., Buffalo, N. Y. Making soda alum.	714,846	Dec. 2	409	860	101	1917
White, John H. and E. L., Englewood, N. J. Machine for making paper tubes.	713,836	Sept. 30	4608	1040	100	2993
White, John W., Wisner, Nebr. Composition for protecting growing plants.	698,435	Apr. 22	3646	99	99	821
White, Joseph, Ocean Grove, N. J. Swing-boat.	713,263	Nov. 11	1536	347	101	1227
White, Joseph, assignor to R. Hoe, New York, N. Y. Printing-machine.	705,180	July 22	3489	758	100	756
White, Joseph, assignor to R. Hoe, New York, N. Y. Feeding mechanism for printing-machines.	705,181	July 22	3495	758 759	100	757
White, Joseph, assignor to R. Hoe, New York, N. Y. Inking mechanism for printing-machines.	715,916	Dec. 16	2440	539 540	101	2376
White, Joseph A. (See Moore and White.)						
White, Joseph A., Allegheny, Pa. Curtain-pole.	712,163	Oct. 28	3420	749	101	755
White, Joseph A., assignor of one-half to J. W. Moore, Philadelphia, Pa. Speed-changing device.	703,359	Oct. 21	3842	884	99	2953
White, Joseph A., assignor of one-half to J. W. Moore, Philadelphia, Pa. Wire guide for paper-making machines.	712,468	Oct. 28	3973	808 809	101	871
White, Lawrence, Baltimore, Md. Car-fender.	697,762	Apr. 15	2564	571	99	571

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White, Leonard L. (See Lindsay and White.)						
White, Louise S., Eskridge, Kans. Garment-hanger	695,019	Mar. 11	1310	290	98	2006
White, Matthew J. W. (See Stoneman, Orville A., assignor.)						
White, Nathan, assignor to G. V. White, Pasadena, and S. Rousseau, Sierraville, Cal. Power-transmitter and speed-controller	692,749	Feb. 4	981	212	98	980
White, Paul H., assignor to White Steam Wagon Company, Indianapolis, Ind. Steering-gear	690,802	Jan. 7	840	186	98	177
White, Paul H., assignor to White Steam Wagon Company, Indianapolis, Ind. Frame for vehicles	696,288	Mar. 25	3679	823	98	2527
White, Paul H., assignor to White Steam Wagon Company, Indianapolis, Ind. Steam-wagon truck	699,860	May 13	1426	329	99	1481
White, Paul H., assignor to White Steam Wagon Company, Indianapolis, Ind. Vehicle-wheel	699,994	May 13	1679	386	99	1533
White, Paul H., assignor to White Steam Wagon Company, Indianapolis, Ind. Steam-generator	707,996	Aug. 26	3891	874	100	1963
White, Paul H., assignor to White Steam Wagon Company, Indianapolis, Ind. Valve-gear	709,949	Sept. 30	3791	855	100	2820
White, Paul H., assignor to White Steam Wagon Company, Indianapolis, Ind. Steam-engine	711,606	Oct. 21	2327	509	101	513
White, Paul H., assignor to White Steam Wagon Company, Indianapolis, Ind. Engine and driving-gear support for steam-wagons	717,517	Dec. 30	5646	1225	101	3091
White, Robert E., Duluth, Minn. Means for retaining and releasing loads on logging-cars	695,357	Mar. 11	1926	429	98	2133
White, Rollin H., assignor to White Sewing Machine Company, Cleveland, Ohio. Hand-pump	697,585	Apr. 15	2235	499	99	507
White, Rollin H., assignor to White Sewing Machine Company, Cleveland, Ohio. Throttle-valve for steam-carriages	697,586	Apr. 15	2237	499	99	507
White, Rollin H., assignor to White Sewing Machine Company, Cleveland, Ohio. Feeding mechanism for boilers	703,220	June 24	3593	825	99	2898
White, Rollin H., assignor to White Sewing Machine Company, Cleveland, Ohio. Valve mechanism for steam-carriage burners	707,478	Aug. 19	2805	634	100	1728
White, S. V. (See Crandall, Jesse A., assignor.)						
White, Samuel A., Boston, Mass. Color-holder	692,040	Jan. 28	3159	713	98	706
White Sewing Machine Company. (See Cheshire, Edward, assignor.)						
White Sewing Machine Company. (See Grothe, William, assignor.)						
White Sewing Machine Company. (See White, Rollin H., assignor.)						
White Steam Wagon Company. (See White, Paul H., assignor.)						
White, Stephen P., Pulaski, Tenn. Silo	699,602	May 6	899	298	99	1361
White, Theodore F., Chino, Cal. Road-oiling machine	703,327	June 24	3750	864	99	2931
White, Thomas B., Warsaw, Mo. Inscription-frame for monuments	695,774	Mar. 18	2678	608	98	2306
White, Thomas E., Rochester, N. Y. Tobacco-pipe	695,185	Mar. 11	1621	360	98	2072
White, Virgil D., Cottagegrove, Oreg. Bottle	713,548	Nov. 11	2112	473	101	1346
White, Walter S., Jamestown, N. Y. Foot-cleaner	712,110	Oct. 28	3321	728	101	736
White, William, Jr. (See Collin, Simon C., assignor.)						
White, William, Jr., Pittsburg, Pa. Manufacture of steel	695,256	Mar. 11	1735	311	98	2099
White, William, Lawrenceburg, Tenn. Display-rack	704,157	July 8	1489	319	100	313
White, William, Philadelphia, Pa. Curbing and paving	704,999	July 15	3118	672	100	665
White, William L., Hedon, near Hull, England. Sweetmeat-machine	709,382	Sept. 16	2662	597	100	2562
White, William W., executor. (See Verity, John.)						
Whiteford, Horace F., et al. (See Johnston, George W., assignor.)						
Whitehead, Aura E., assignor to Farrand & Votey Organ Company, Detroit, Mich. Piano-player	705,000	July 15	3119	672	100	665
Whitehead, Christopher. (See Monroe, William E., assignor.)						
Whitehead, Edwin A., Broken Hill, New South Wales, Australia. Distance-recording apparatus for reciprocating bodies	708,440	Sept. 2	787	178	100	2140
Whitehead, Frederick L., Butte, Mont. Water attachment for power-drills	704,158	July 8	1490	320	100	313
Whitehead, Henry M. (See Dodge, Lemuel P., assignor.)						
Whitehead & Hoag Company. (See Breeze, George A., assignor.)						
Whitehead & Hoag Company. (See Hoag, Chester R., assignor.)						
Whitehead & Hoag Company. (See Mountford, Sidney, assignor.)						
Whitehead & Hoag Company. (See Sims, Richard, assignor.)						
Whitehead & Hoag Company. (See Smeeton, Richard J., assignor.)						
Whitehead, John, Fiume, Austria-Hungary. Torpedo-launching apparatus	697,906	Apr. 15	2817	623	99	631
Whitehead, John F., New Brighton, Pa. Hanger for brooms or the like	690,803	Jan. 7	841	186	98	177
Whitehead, Leonard J., et al. (See Denney, Thomas H., assignor.)						
Whitehead, Stephen L., Norton, Va. Match-safe	698,774	Apr. 29	4504	995	99	1020
Whitehill, David B., North Clarendon, Pa. Stop-cock	692,394	Feb. 4	305	74	98	863
Whitehouse, Arthur T., Lisbon, N. D. Glass-cutler's board	714,545	Nov. 25	4032	892	101	1777
Whitehouse, Thomas, Birmingham, England. Apparatus for rolling flat sheet metal	705,887	July 29	4948	1076	100	1061
Whitehurst, George W., Ellisville, Miss. Nut-lock	712,748	Nov. 4	519	121	101	1095
Whitehurst, John T., and F. W. Wild, Jr., Baltimore, Md. Labeling-machine	696,218	Mar. 25	3555	796	98	2500
Whiteley, Charles E. E., et al. (See Hoffman, Edmund, assignor.)						
Whiteley, Henry, et al. (See Hoffman, Edmund, assignor.)						
Whiteley, William G., et al. (See Hoffman, Edmund, assignor.)						
Whiteley Exerciser Company. (See Schneider, Franklin, assignor.)						
Whiteley, Isaac H., and J. R. Yocom, Hope, Ark. Churn-shield	691,223	Jan. 14	1588	362	98	346
Whiteley, William N., Springfield, Ohio. Grain-binding harvesting-machine	696,126	Mar. 25	3359	738	98	2462
Whitely, William N., Springfield, Ohio. Grain-binding harvester	703,328	June 24	3732	864	99	2931
Whitely, William N., Springfield, Ohio. Bicycle	707,480	Aug. 19	2808	635	100	1729
Whitely, William N., Springfield, Ohio. Grain-binding harvester	713,264	Nov. 11	1538	343	101	1227
Whitely, William N. and William N., Jr., Springfield, Ohio. Bicycle handle-bar	691,830	Jan. 28	2788	626	98	632
Whitely, William N. and William N., Jr., Springfield, Ohio. Roller-bearing	691,922	Jan. 28	2997	662	98	663
Whitely, William N. and William N., Jr., Springfield, Ohio. Bicycle handle-bar	704,159	July 8	1491	320	100	313
Whiteman, George W., Philadelphia, Pa. Railway-frog	713,547	Nov. 11	2110	473	101	1346
Whitely, Charles Y., Steubenville, Ohio. Drapery-hanger	691,684	Jan. 21	2482	556	98	552
Whitesolver, James C., Cameron, Mo. Copy-holder	707,662	Aug. 26	3301	718	100	1827
Whitide, Isaac F. (See Gale, William L., assignor.)						
Whitide, James, et al. (See Sporrang, Carl A., assignor.)						
Whitide, James, New York, N. Y. Convertible boat-propelling apparatus	714,766	Dec. 2	228	45	101	1883
Whitide, Madison, Carrier, Okla. Ter. Combined wrench and tire-setter	704,725	July 15	2522	545	100	543



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Whiteside, Sidney B., New York, N. Y., assignor to Whiteside Wheel Company, Limited, Grand Rapids, Mich. Vehicle-wheel	712,875	Nov. 4	770	178	101	1056
Whiteside, Sidney B., New York, N. Y., assignor to Whiteside Wheel Company, Limited, Grand Rapids, Mich. Vehicle-wheel	712,876	Nov. 4	772	178	101	1056
Whiteside, Sidney B., assignor to Whiteside Wheel Company, Limited, Grand Rapids, Mich. Vehicle-wheel	713,033	Nov. 4	1000	247	101	1113
Whiteside Wheel Company. (See Whiteside, Sidney B., assignor.)						
Whitfield Company. (See Schneider, William, assignor.)						
Whitford, Albert P., et al. (See Law, Prentis E., assignor.)						
Whitford, Rolland A., Kendallville, Ind. Feeder for young calves or colts	697,304	Apr. 8	1721	384	99	386
Whitin Machine Works. (See McLean, Henry H., assignor.)						
Whitin Machine Works. (See Owen, Henry A., assignor.)						
Whitin Machine Works. (See Owen, Oscar L., assignor.)						
Whitin Machine Works. (See Pratt, Albert K., assignor.)						
Whiting, Barnet M., Spokane, Wash. Weather-strip	702,370	June 10	1772	405	99	2190
Whiting, Charles J., LaSalle, Ill. Safety-catch for wheeled earth-scrapers	706,706	Aug. 12	1354	301	100	1409
Whiting & Davis. (See Davis, Edward P., assignor.)						
Whiting, James A., Boston, Mass. Type-cleaning device for type-writing machines	692,954	Feb. 11	1362	296	98	1105
Whiting, Paul, East Las Vegas, N. Mex. Ter. Safety-valve	694,811	Mar. 4	009	202	98	1904
Whiting, Paul, East Las Vegas, N. Mex. Ter. Equalizing-valve	707,476	Aug. 19	2799	1633	100	1727
Whiting, Paul, East Las Vegas, N. Mex. Ter. Quadruple valve	707,477	Aug. 10	2802	634	100	1727
Whiting, Paul, East Las Vegas, N. Mex. Ter. Air-brake system	712,877	Nov. 4	773	179	101	1056
Whiting, Richard R., Cincinnati, Ohio. View outfit	695,958	Mar. 25	3053	692	98	2397
Whiting, William J., Handsworth, near Birmingham, England. Revolver-firearm	700,592	May 20	2878	1661	99	1799
Whitla, John S., administrator. (See Carrington, Jackson D.)						
Whitley, Alfred A., Bury, England. Gearing for stentering or other machines	714,078	Nov. 18	3133	693	101	1577
Whitley, William P., assignor to Rawlings Sporting Goods Company, St. Louis, Mo. Foot-ball jacket	714,079	Nov. 18	3134	693	101	1577
Whitlock, Frederick B., Indianapolis, Ind., assignor to National Malleable Castings Company, Cleveland, Ohio. Stove-top	699,003	May 6	900	209	99	1361
Whitlock, Myron J., Ansonia, Conn. Calendering-machine	691,923	Jan. 28	2940	1662	98	693
Whitlock, Myron J., Ansonia, Conn. Calendering-machine	692,570	Feb. 4	017	145	98	924
Whitlock, Ralph G., Los Angeles, Cal. Device for holding removable leaves	700,867	May 27	3435	789	99	1983
Whitlock, Ralph G., Los Angeles, Cal. Pump for measuring, mixing, blending, or diluting liquids	712,164	Oct. 28	3121	1750	101	755
Whitman, Royal E., Washington, D. C. Riding-saddle and saddle attachment	717,307	Dec. 30	3274	1146	101	3916
Whitmore, Edwin B. (See Lane and Whitmore.)						
Whitmore, Frank L., Belvedere, England. Friction-brake	691,513	Jan. 21	2174	1486	98	488
Whitmore, George E., and E. M. Tillinghast, New Haven, Conn.; said Whitmore assignor to said Tillinghast. Child's carriage	716,972	Dec. 30	4633	1041	101	2877
Whitmyer, John H., Johnstown, N. Y. Rail-joint bed-plate	699,905	May 13	1519	349	99	1313
Whitner, Hiram K., Chicago, Ill. Golf-club	715,325	Dec. 2	1102	235	101	2093
Whitney, Arthur E., et al. (See McDouge, George F., assignor.)						
Whitney, Charles B., Chicopee Falls, Mass. Punching-bag	695,186	Mar. 11	1622	360	98	2072
Whitney, Charles B., Chicopee Falls, Mass. Punching-bag apparatus	695,187	Mar. 11	1624	361	98	2072
Whitney, Clinton E., New York, N. Y., assignor of one-half to F. B. and L. H. Sage, Hackensack, N. J. Advertising device	712,323	Oct. 28	3522	772	101	775
Whitney, Edward D. N., et al. (See Lappin, Frank, assignor.)						
Whitney, Frank, Minnetka, Ill. Roller-bearing	690,626	Jan. 7	498	108	98	107
Whitney, Franklin E. (See Stoddard and Whitney.)						
Whitney, George E., Boston, Mass., assignor to Whitney Motor Wagon Company, Kittery, Me. Pump	691,512	Jan. 21	2172	486	98	488
Whitney, George E., Boston, Mass., assignor to Whitney Motor Wagon Company, Kittery, Me. Audible low-water alarm for automobile-tanks	698,775	Apr. 29	4305	995	99	1020
Whitney, George E., Boston, Mass., assignor to Whitney Motor Wagon Company, Kittery, Me. Engine						
Whitney, James E., Leominster, Mass. Antirattler for thill-couplings	699,905	May 13	1680	386	99	1538
Whitney, Lemuel R., Milwaukee, Wis. Dust-collector	704,160	July 8	1494	320	100	314
Whitney Manufacturing Company. (See Couch, Elbert M., assignor.)						
Whitney Motor Wagon Company. (See Whitney, George E., assignor.)						
Whitney, Fardon A., Southington, Conn. Animal-trap	706,470	Aug. 5	944	206	100	1306
Whitney, Perrin B., Walpole, assignor of one-half to J. E. Pimpton, Norwood, Mass.; Steam-engine. (See Bayerdoerfer, Frank, assignor.)	697,187	Apr. 8	1507	336	99	340
Whitney, Ruel W., Cleveland, Ohio. Photographic exposure-meter	709,250	Sept. 16	2395	542	100	2505
Whitney, Truman W., et al. (See Priest, Louis, assignor.)						
Whitney, William C., assignor to Wilmore Computing Scale Company, Newark, N. J. Computing spring-scale	713,265	Nov. 11	1541	348	101	1228
Whitney, William O., Glens Falls, N. Y. Propeller	691,514	Jan. 21	2177	487	98	489
Whitney, William O., Glens Falls, N. Y. Folding umbrella	699,731	May 13	1158	279	99	1426
Whiton, Lucius E., New London, Conn. Centering-machine	698,068	Apr. 29	4158	914	99	942
Whiton, Morris F., Hingham, Mass. Rail-bond	692,395	Feb. 4	308	74	98	864
Whiton, Morris F., Hingham, Mass. Junction-box coupling	697,051	Apr. 8	1274	283	99	290
Whiton, Morris F., Hingham, Mass. Junction-box	697,052	Apr. 8	1275	283	99	290
Whiton, Morris F., Hingham, Mass. Coupling and nipple for outlet or junction boxes	701,114	May 27	3891	893	99	3029
Whiton, Morris F., Hingham, Mass. Rail-bond	707,668	Aug. 26	3203	718	100	1827
Whiton, Morris F., Hingham, Mass. Outlet or junction box	715,917	Dec. 16	2451	540	101	2379
Whitson, Robert, Auckland, New Zealand. Exhaust-condenser for explosive motors or engines	714,080	Nov. 18	3134	694	101	1577
Whittaker, Edward E. (See Brooks and Whittaker.)						
Whittaker, Matthew H., Salford, England, assignor to Mergenthaler Linotype Company, New York, N. Y. Linotype-machine	691,685	Jan. 21	2483	556	98	532
Whittall, Matthew J. (See Harding, Walter R., assignor.)						
Whittelsey, Henry N., Camden, N. J. Exhaust-muffler	714,077	Nov. 18	3132	693	101	1577
Whittemore, Charles P., Mount Vernon, Iowa. Monkey-wrench	705,799	July 29	4790	1089	100	1030
Whittemore, Charles W. (See Thornton and Whittemore.)						
Whittemore, John O. A. (See Burke, Charles G., assignor.)						
Whittemore, Mary E., Mount Vernon, Iowa. Tape-needle	705,800	July 29	4791	1040	100	1030

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Whitemore, Zenas, Morton, Pa. Street-sweeper.	698,475	Feb. 18	2391	523	98	1388
Whitten, Arthur M., West Medford, assignor to Library Bureau, Boston, Mass. Ruling-machine.	700,271	May 20	2261	516	99	1675
Whittier, Rinaldo A. (See Fassett and Whittier.)						
Whittingham, George H., New York, N. Y. Rheostat.	712,749	Nov. 4	520	122	101	1005
Whittingham, George H., New York, N. Y. Electric switch.	716,504	Dec. 23	3613	790	101	2636
Whittington, Joseph H., assignor to New York Supply Company, Buffalo, N. Y. Ribbon and stock supporter.	707,479	Aug. 19	2807	635	100	1728
Whittlesey, Charles F., Albuquerque, N. Mex. Ter. Building block and wall.	704,606	July 15	2317	503	100	500
Whittlesey, George, New London, Conn. Brake for propeller-shafts.	697,053	Apr. 8	1276	283	99	290
Whyte, James M., Parkers Landing, Pa. Combined trace holder and protector.	691,924	Jan. 28	2944	663	98	664
Whyte, Robert M., Jersey City, N. J., assignor to Schieffelin and Company, New York, N. Y. Compressed tablet.	701,493	June 3	276	62	99	1642
Wiberg, Georg, Stockholm, Sweden. Controlling and measuring device for liquids.	712,627	Nov. 4	315	73, 74	101	964
Wiberg, Peter E., Bloomfield, N. J. Buckle.	710,641	Oct. 7	467	98	101	94
Wiberg, Peter E., Bloomfield, N. J. Manufacturing safety-pins.	713,727	Nov. 18	2445	546	101	1431
Wiberg, Peter E., Bloomfield, N. J. Safety-pin machine.	713,728	Nov. 18	2446	546	101	1431
Wibliztzauser, Otto, Brooklyn, N. Y. Driving mechanism.	700,868	May 27	3437	769	99	1933
Wiborgh, Johan G., and W. Palmaer, Stockholm, Sweden. Manufacturing manure from apatite or similar mineral phosphate.	707,886	Aug. 26	3682	1040	100	1922
Wich, Ferdinand J., Altringham, England. Trimming mechanism for linotype-machines.	705,801	July 29	4792	1041	100	1030
Wich, Ferdinand J., Broadheath, England. Trimming mechanism for linotype-machines.	711,807	Oct. 21	2718	601	101	597
Wichmann, Georg, and M. Gabler, assignors to Chemische Fabrik auf Actien, (vorm. E. Schering.), Berlin, Germany. Salt of hexamethylentetramin and quinic acid and making same.	690,804	Jan. 7	843	98	177	
Wick, John, assignor of one-half to W. P. Todd, Chester, Pa. Anchor.	718,825	Nov. 18	2625	586	101	1470
Wick, Robert, Carlstadt, N. J. Power-controlling device.	715,918	Dec. 16	2452	541	101	2380
Wickes, Robert O., Troy, N. Y. System for distributing merchandise.	690,627	Jan. 7	500	108	98	107
Wickham, James. (See Wickham, William S., assignor.)						
Wickham, William S., assignor of one-half to J. Wickham, Salamanca, N. Y. Billiard or pool table.	711,030	Oct. 14	1202	264	101	264
Wickham, William S., assignor to J. Wickham, Salamanca, N. Y. Roof-board joint.	713,577	Nov. 11	2171	485	101	1357
Wickline, William P. (See Holland and Wickline.)						
Wicks, Frederick, Esher, England. Metal-pump for type-casting. (Reissue)	12,017	July 22	4337	938	100	924
Wicks, James L. (See Simpson, Alfred J., assignor.)						
Wicks, Milton O., Babylon, N. Y. Brake-operating device.	703,106	June 24	3370	773	99	2854
Wicksteed, Joseph H., Leeds, England. Duplex tool-holder for planers, &c.	708,947	Sept. 9	1757	405	100	2353
Wickstrom, August, Denver, Colo. Nut-cracker.	707,997	Aug. 26	3392	874	100	1964
Wickstrom, John. (See Anderson, Erickson, and Wickstrom.)						
Widdowson, Harold, Hyde, England. Beef-holder.	701,976	June 10	1238	282	99	2382
Wideman, Gustavus, assignor to Wilcox Manufacturing Company, Aurora, Ill. Carrier-track.	693,934	Feb. 25	3273	720	98	1534
Wideman, Gustavus, assignor to Wilcox Manufacturing Company, Aurora, Ill. Shaft-bearing.	694,043	Feb. 25	3510	773	98	1582
Wideman, Gustavus, assignor to Wilcox Manufacturing Company, Aurora, Ill. Door-hanger.	694,044	Feb. 25	3511	773	98	1582
Widenhofer, Michael J., assignor of one-half to I. Y. Baringer, Perkasio, Pa. Holder or file for papers, letters, &c.	701,655	June 3	685	151	99	2351
Wideman, Francis M., Catonsville, and I. W. Wright, Glenelg, Md. Corn-harvester.	716,327	Dec. 16	3243	709	101	2544
Widmann, Otto, Berlin, Germany. Apparatus for transmitting the positions of movable pointers.	714,081	Nov. 18	3135	694	101	1578
Widmayer, Frank B., M. E. Toepel, and A. Potdevin, New York, N. Y. Generator or mixing valve.	714,982	Dec. 2	672	141	101	1970
Widmer, Jacob, New Hartford, Conn. Spinning.	700,272	May 20	2265	517	99	1675
Widmer, Jakob, Zurich, Switzerland. Portable cooking apparatus.	695,979	Mar. 25	3056	693	98	2938
Widner, Ralph, Engle, N. Mex. Ter. Motor.	705,001	July 15	2121	673	100	666
Wieber, Frank L., Lindstrom, Minn. Measuring tank and pump.	691,515	Jan. 21	3179	488	98	489
Wiechmann, John, Albany, N. Y. Fluid-pressure speeding device.	717,308	Dec. 30	5275	1146	101	3016
Wieda, Ernst F. W., Paterson, N. J. Candy-dripping machine.	712,878	Nov. 4	779	180	101	1057
Wiedemann, Joseph A., Eldorado, Kans. Watchmaker's tool.	691,516	Jan. 21	2180	488	98	489
Wiedenbauer, Alois, assignor to American Key Can Company, Chicago, Ill. Bail.	699,861	May 13	1427	329	99	1482
Wieder, Henry G. A. I., assignor to C. W. Phillips, London, England. Sound-reproducer.	708,849	Sept. 9	1581	360	100	2317
Wiederhold, George, Elmfield, N. J. Machine for saturating mantle materials.	696,337	Mar. 25	3849	856	98	2561
Wiederstein, Theodore E., Jr., Philadelphia, Pa. Book.	698,603	Apr. 29	4150	913	99	940
Wiedmeyer, William, Norristown, Pa. Brake for pivotal running-gear of vehicles.	707,481	Aug. 19	2809	635	100	1729
Wiegand, Henry H. (See Penman and Wiegand.)						
Wieman, Fred W., Lawrence, Kans. Fire-hose nozzle.	692,571	Feb. 4	119	146	98	924
Wiener, Samuel S. (See Hammond, George W., assignor.)						
Wiens, Adolph R., Milwaukee, Wis. Brush.	691,032	Jan. 14	6260	285	98	277
Wiens, Adolph R., Milwaukee, Wis. Brush.	697,763	Apr. 15	2565	571	99	574
Wiens, Adolph R., Milwaukee, Wis. Brush.	711,141	Oct. 14	1417	307	101	310
Wiens, Arnold, Bitterfeld, Germany. Making oxalates.	714,347	Nov. 25	3678	101	1707	
Wiens, John P., Milwaukee, Wis. Brush. (Reissue)	12,067	Dec. 23	4380	951	101	2610
Wier, David K., Lake City, Iowa. Wagon end-gate and shoveling-board.	698,604	Apr. 29	4152	913	99	941
Wiese, Conrad C. A. E., Hamburg, Germany. Night life-buoy.	705,707	Aug. 12	1355	302	100	1409
Wiese, Frederick, Milwaukee, Wis. Fruit-jar.	705,182	July 23	3502	750	100	760
Wiesekel, George, Allentown, Pa. Vertical-lift lubricating-valve for steam-chests.	708,108	Sept. 2	195	46	100	2022
Wiesen, John, Braddock, Pa. Hat-pin.	710,349	Sept. 30	4544	1025	100	2980
Wiesenfeld, Robert S., assignor of one-half to J. Castelberg, Baltimore, Md. Automatic clock.	715,226	Dec. 2	1104	235	101	2063
Wieser, Daniel, assignor to H. Sulzbach & Co., Zurich, Switzerland. Manufacture of enameled metal plates.	709,530	Sept. 23	2997	668	100	2644
Wieser, Joseph, Brooklyn, N. Y. Treadle for organs or the like.	711,190	Oct. 14	1538	330	101	335
Wieser, Joseph, Brooklyn, assignor of one-half to K. Fink, New York, N. Y. Pneumatic motor.	693,198	Feb. 11	1865	403	98	1206
Wieser, Joseph, Brooklyn, assignor of one-half to K. Fink, New York, N. Y. Pedal for self-playing attachments for pianos.	705,062	July 15	3123	673	100	666
Wiesner, Frederick E., Washington, D. C. Indicator device for drip-pans.	717,309	Dec. 30	5278	1147	101	3016
Wiesner, Oscar C., Kansas City, Mo. Mechanical toy.	702,515	June 17	2241	510	99	2608



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Wiessner, Karl, Radeberg, Germany. Match-machine .....	700,392	May 20	2515	575	99	1723
Wieting, Friedrich, Meridian, Oreg. Apparatus for handling and drying hops .....	715,718	Dec. 9	2016	451	101	2286
Wiget, Alfred. (See Kern and Wiget.) .....						
Wiggins, Frank, Tacoma, Wash. Self-tightening key for pulleys .....	697,054	Apr. 8	1278	284	99	290
Wiggins, Frederick A. (See Albert and Wiggins.) .....						
Wiggins, Frederick A., Salem, Oreg. Camera .....	693,768	Feb. 18	2936	646	98	1449
Wiggins, Josiah C. (See Evans and Wiggins.) .....						
Wigglesworth, Albert W., Chicago, Ill. Drilling-machine .....	711,448	Oct. 14	2011	436	101	433
Wight, Orson J., assignor of one-half to Acme Sucker Rod Company, Toledo, Ohio. Pipe-wrench .....	701,237	May 27	4108	945	99	2073
Wigle, Eli, Grand Rapids, assignor to Shaw-Walker Company, Muskegon, Mich. Mechanism for operating doors .....	710,329	Sept. 30	4341	976	100	2937
Wigtel, Carl, assignor to F. H. Stillman, Brooklyn, N. Y. Hydraulic riveting or punching tool .....	701,439	June 3	278	62	99	2165
Wigtel, Carl, assignor to F. H. Stillman, Brooklyn, N. Y. Hydraulic punching-tool .....	714,546	Nov. 25	4033	893	101	1778
Wilcox, William W. (See Cummings and Wilcox.) .....						
Wilber, Herbert T., Dorchester, Mass. Speed-regulator .....	698,609	Apr. 29	4161	915	99	942
Wilber, Isaac L., Boston, Mass. Identifying device .....	692,173	Jan. 28	3390	768	98	753
Wilborne, L. S., et al. (See Arnold, Cyrus M., assignor.) .....						
Wilbur, D. C. (See Riley, James W., assignor.) .....						
Wilbur, George E., assignor to Weir Stove Company, Taunton, Mass. Cooking stove or range .....	691,033	Jan. 14	1261	286	98	278
Wilbur, John W. (See McLevy, Wilbur, and Wooster.) .....						
Wilbur, R. M. (See Allen, Everett P., assignor.) .....						
Wilcomb, Frank, Norristown, Pa. Splicing mechanism for knitting-machines .....	691,686	Jan. 21	2485	557	98	552
Wilcomb, Frank, Norristown, Pa. Stop-motion for knitting-machines .....	698,089	Apr. 22	3163	695	99	720
Wilcomb, Frank, Norristown, Pa. Stop-motion for knitting-machines .....	698,090	Apr. 22	3173	696	99	723
Wilcomb, Frank, Norristown, Pa. Stop-motion for knitting-machines .....	698,091	Apr. 22	3177	696	99	724
Wilcomb, Frank, Norristown, Pa. Stop-motion for knitting-machines .....				697		
Wilcomb, Frank, Norristown, Pa. Circular spring-needle knitting-machine .....	705,505	July 22	4178	910	100	893
Wilcox, Alva W., Newark, Ohio. Car-roof .....	705,888	July 29	4049	1077	100	1061
Wilcox Brothers. (See Thayer, Clark F., assignor.) .....						
Wilcox, Camden L., West Williamsfield, Ohio. Evaporator .....	896,154	Mar. 25	3435	771	98	2478
Wilcox, Daniel H., Buffalo, N. Y. Canal-bat .....	700,393	May 20	2518	577	99	1724
Wilcox, Edward M. (See Jones, Frank A., assignor.) .....						
Wilcox, Edward M., assignor of two-thirds to W. A. Spencer and I. L. Minford, Omaha, Nebr. Stopper-puller .....	713,930	Nov. 18	2842	631	101	1515
Wilcox, Edwin T., Berea, Ohio. Nut-lock .....	692,572	Feb. 4	622	146	98	925
Wilcox, Edwin T., Berea, Ohio. Nut-lock .....	692,573	Feb. 4	623	147	98	925
Wilcox, Elmer A., assignor to Standard Vending Company, Chicago, Ill. Vending-machine .....	700,394	May 20	2520	577	99	1724
Wilcox, Elmer A., assignor to Standard Vending Company, Chicago, Ill. Cigar-package .....	700,395	May 20	2522	577	99	1724
Wilcox, Elmer A., assignor to Standard Vending Company, Chicago, Ill. Vending-machine .....	705,005	July 15	3127	675	100	667
Wilcox, Elmer A., assignor to A. P. Kastler and F. S. Smith, Chicago, Ill. Soda-water apparatus .....	692,955	Feb. 11	1364	297	98	1106
Wilcox, Frank A., Erie, Pa. Inner tube for pneumatic tires .....	697,055	Apr. 8	1279	284	99	291
Wilcox, Frank A., Erie, Pa., and J. R. Gammeter, Akron, Ohio, assignors to Pennsylvania Rubber Company, Erie, Pa. Inner tube for pneumatic tires .....	697,227	Apr. 8	1580	353	99	355
Wilcox, Frank E., Mechanicsburg, Pa. Single perch-gear for vehicles .....	709,149	Sept. 16	2790	628	100	2538
Wilcox, Frank E., assignor of one-half to L. E. Hickok, Mechanicsburg, Pa. Vehicle-gear .....	709,068	Sept. 16	2027	462	100	2426
Wilcox, Frank E., assignor of one-half to L. E. Hickok, Mechanicsburg, Pa. Vehicle-gear .....	709,069	Sept. 16	2028	462	100	2426
Wilcox, Frank E., assignor of one-half to L. E. Hickok, Mechanicsburg, Pa. Vehicle-gear .....	709,070	Sept. 16	2029	463	100	2426
Wilcox, Frank N., New Orleans, La. Oil-burner .....	715,227	Dec. 2	1104	236	101	2063
Wilcox, Frank N., and J. S. Gaennie, New Orleans, La. Coffee-pot .....	699,604	May 6	901	210	99	1861
Wilcox, Frederick C. (See Pedersen, Niels, assignor.) .....						
Wilcox, George, Los Angeles, Cal., assignor to American Can Company, Jersey City, N. J. Securing heads to cans .....	695,514	Mar. 18	2190	495	98	2206
Wilcox, George, Los Angeles, Cal., assignor to American Can Company, Jersey City, N. J. Can-fusing machine .....	695,515	Mar. 18	2193	495	98	2207
Wilcox, George, Los Angeles, Cal., assignor to American Can Company, Jersey City, N. J. Can-dipping machine .....	695,516	Mar. 18	2195	496	98	2208
Wilcox, George, Los Angeles, Cal., assignor to American Can Company, Jersey City, N. J. Side-seaming metal cans .....	695,517	Mar. 18	2202	499	98	2210
Wilcox, George, Los Angeles, Cal., assignor to American Can Company, Jersey City, N. J. Can-soldering machine .....	695,518	Mar. 18	2203	499	98	2210
Wilcox, George, Los Angeles, Cal., assignor to American Can Company, Jersey City, N. J. Solder-charged can-body and sheet-metal blank .....	695,519	Mar. 18	2204	500	98	2210
Wilcox, George, Los Angeles, Cal., assignor to American Can Company, Jersey City, N. J. Machine for applying solder to sheet-metal blanks .....	695,520	Mar. 18	2206	501	98	2211
Wilcox, George, Los Angeles, Cal., assignor to American Can Company, Jersey City, N. J. Apparatus for side-seaming metal cans .....	695,521	Mar. 18	2211	501	98	2212
Wilcox, Henry. (See Reichardt and Wilcox.) .....						
Wilcox, Henry, Newark, N. J. Right and left nail-clipper .....	702,516	June 17	2242	511	99	2608
Wilcox, Henry, Newark, N. J. Pyrographic tool .....	715,720	Dec. 9	2020	452	101	2267
Wilcox, Jerry, Schuyler, Nebr. End-gate .....	692,574	Feb. 4	624	147	98	925
Wilcox, John F., Cleveland, Ohio, assignor to Retort Coke Oven Company. Coal ramming and transfer apparatus .....	710,643	Oct. 7	470	98	99	94
Wilcox, John F., and D. E. Wagener, assignors to Retort Coke Oven Company, Cleveland, Ohio. Retort coke-oven .....	711,268	Oct. 14	1676	360	101	362
Wilcox, Joseph E., assignor to M. L. Wilcox, D. Farquharson, and W. E. Swett, San Francisco, Cal. Wave-motor .....	692,396	Feb. 4	309	75	98	864
Wilcox Manufacturing Company. (See North, Theodore, assignor.) .....						
Wilcox Manufacturing Company. (See Wideman, Gustavus, assignor.) .....						
Wilcox, Margaret D., Portsmouth, Va. Foot-strap for drawers .....	702,121	June 10	1516	342	99	2438
Wilcox, Matilda L., et al. (See Wilcox, Joseph R., assignor.) .....						
Wilcox, Reuben C., assignor to J. H. Modrell, Wichita, Kans. Bicycle-support .....	704,161	July 8	1495	320	100	314
Wilcox, Theodore E., Newark, N. J., assignor, by mesne assignments, to Aladdin Manufacturing Company. Gas-igniter .....	694,902	Mar. 4	1085	239	98	1942
Wilcox & White Company. (See White, Frank C., assignor.) .....						
Wilcox, William R., Saratoga, Wyo. Bucket-dumping apparatus .....	715,228	Dec. 2	1106	236	101	2063

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Wilcox, William R., Saratoga, Wyo. Bucket-dumping apparatus	716,328	Dec. 16	3245	710	101	2544
Wild, Frederick W., Jr. (See Whitehurst and Wild.)						
Wild, Frederick W., Jr., Baltimore, Md. Boxing-machine	690,805	Jan. 7	843	186 187	98	177
Wild, Frederick W., Jr., Baltimore, Md. Power-transmitting device for hand-driven mechanisms	708,286 710,850	Sept. 2 Sept. 30	535 4545	122 1035	100	2090 2980
Wild, James R., Cambridge, Mass. Ventilator	693,199	Feb. 11	1867	404	98	1207
Wild, William E. (See Bailey and Wild.)						
Wilde, Daniel, Washington, Iowa. Grain-weigher	713,085	Nov. 4	1065	247 248	101	1114
Wilde, Henry, assignor of one-half to B. L. Armstrong, New London, Conn. Oscillating lease-rod for looms	710,827	Oct. 7	829	179	101	169
Wilde, Henry, and J. W. Lee, New London, Conn. Picker-stick for looms	700,829	May 27	3438	740	99	1933
Wilde, Karl A., Glinde, near Hamburg, Germany. Electrode	698,237	Apr. 22	3478	765	99	786
Wilder, Burton E., Chicago, Ill. Electric vapor-lighter	692,575	Feb. 4	625	147	98	926
Wilder, Julius P., assignor of one-half to F. C. Hill, Willis, Kans. Door-securer	693,476	Feb. 18	2892	523	98	1338
Wilder, William H., Gardner, Mass. Wick-tube	697,907	Apr. 15	2833	625	99	631
Wilder, William W., Jr., Cincinnati, Ohio. Office-indicator						
Wildermann, Meyer. (See Edser and Wildermann.)						
Wildermuth, La Fayette, Columbus, Ohio. Grass-receptacle for lawn-mowers	715,721	Dec. 9	3022	452	101	2267
Wilderson, Clinton G. (See Harold, Elmer, assignor.)						
Wildman, Frank B., Norristown, Pa. Knitting-machine	703,028	June 24	3212	739	99	2824
Wile, Louis, assignor of one-half to L. Hansen, Morris, Ill. Ear-muff	708,446	Sept. 2	798	182	100	2143
Wiler, Alfred D., et al. (See Falkenstein, George S. and C., assignors.)						
Wiles, Thomas S., Albany, N. Y. Drier	692,750	Feb. 4	934	213	98	990
Wiley, Edgar C., Radford, assignor of two-thirds to H. E. McWane, Lynchburg, Va., and G. L. Carter, Bristol, Tenn. Hydraulic crane	700,162	May 13	2017	461 462	99	1600
Wiley, Frank P. (See McNary and Wiley.)						
Wiley, William A., Rochester, Minn. Potato pick-up	697,305	Apr. 8	1722	384	99	387
Wilford, Edward B. (See Schramm and Wilford.)						
Wilford, Edward B. (See Schramm, Wilford, and Fulton.)						
Wilgus, Daniel C., San Francisco, Cal. Hydrocarbon-burner	712,879	Nov. 4	780	181	101	1057
Wilharm, Adolph J. (See Wilharm, Edwin C. and A. J.)						
Wilharm, Edwin C. and A. J., Greenleaf, Wis. Pneumatic feed-conveyer for feed-cutters	691,034	Jan. 14	1263	286	98	278
Wilhelm, Louis, Southbridge, Mass., assignor to Standard Optical Company, Geneva, N. Y. Machine for drilling lenses	695,980	Mar. 25	3057	693	98	2393
Wilhelm, Louis, Southbridge, Mass., assignor to W. W. Essick, Reading, Pa. Frameless spectacles or eyeglasses	712,429	Oct. 28	3905	855	101	858
Wilhelmi, Otto, Dusseldorf, Germany. Rail for minimizing jolting on railways	699,270	May 6	260	60	99	1237
Wilke, Ferdinand, assignor of three-fourths to J. Grether, S. G. Tibbs, and L. A. Wecht, Akron, Ohio. Electric circuit-closing device	698,383	Apr. 22	3719	822	99	837
Wilke Manufacturing Company. (See Conwell, James S., assignor.)						
Wilkening, Walter H., and W. A. Nehls, Cincinnati, Ohio. Hand-vice	702,517	June 17	2244	511	99	2608
Wilkins, Edward F. (See Corssen, Ferdinand, assignor.)						
Wilkins, John D., assignor of one-half to R. W. Creuzbauer, New York, N. Y. Counter-balance for lift-bridges, &c.	691,035	Jan. 14	1264	287	98	278
Wilkins, John D., assignor to Dental Protective Supply Company, Chicago, Ill. Dental handpiece	713,826	Nov. 18	2637	586	101	1470
Wilkins, John D., assignor to Dental Protective Supply Company, Chicago, Ill. Dental plugger	715,447	Dec. 9	1508	827	101	2163
Wilkes, Aaron, et al., administrators. (See Wilkes, Moses.)						
Wilkes, Moses, deceased; A. Wilkes and S. E. Gallagher, (also known as Elizabeth G. Wilkes.) Trenton, N. J., administrators. Swinging table for hydraulic presses	709,285 693,200	Sept. 16 Feb. 11	2490 1869	555 404	100	2518 1207
Wilkin, Frank P., Salt Lake City, Utah. Store-goods lifter	697,908	Apr. 15	2825	625	99	632
Wilkin, Frank P., Salt Lake City, Utah. Card or sign holder	691,517	Jan. 21	2181	488	98	489
Wilkin, Theodore S., Milwaukee, Wis. Log-turner	695,257	Mar. 11	1756	389	98	2099
Wilkin, Theodore S., Milwaukee, Wis. Band-saw wheel	708,850	Sept. 9	1582	360	100	2317
Wilkin, Theodore S., Milwaukee, Wis. Band-saw wheel	695,981	Mar. 25	3059	693	98	2318
Wilkins, Fred B., Woonsocket, R. I. Warp stop-motion for narrow-ware looms	695,982	Mar. 25	3060	694	98	2319
Wilkins, Fred B., Woonsocket, R. I. Warp-and-sign support for narrow-ware looms	695,983	Mar. 25	3062	694	98	2320
Wilkins, John F., assignor of one-half to J. S. Land, Norfolk, Va. Invalid bed-rest	691,224	Jan. 14	1589	362	98	346
Wilkins, Monroe P., New York, N. Y., and H. C. Aspinwall, Pompton Lakes, N. J., assignors to Lafin & Rand Powder Company, New York, N. Y. Powder-granulating machine	695,129 693,092	Mar. 11 Apr. 22	1528 3183	338 697	98 99	2051 726
Wilkins, Robert C., Montreal, Canada. Safety watch-pocket						
Wilkinson, Alfred. (See Wilkinson, John and A.)						
Wilkinson, Charles A., Worcester, Mass. Apparatus for charging and dispensing liquids	699,407 704,417	Apr. 29 July 8	5031 1952	1112 423	99 100	1134 411
Wilkinson, Charles A., Worcester, Mass. Igniter						
Wilkinson, Charles H., Huddersfield, England. Non-slipping wearing tread or covering	692,397	Feb. 4	312	75	98	864
Wilkinson, George, Harrogate, England. Cable-terminal box for electricity-supply purposes	705,802 701,538	July 29 June 3	4795 438	1041 98	100	1081 2199
Wilkinson, Jabez, Fall River, Mass. Selva-helid motion	705,506	July 22	4185	910	100	895
Wilkinson, Jennie, Cleveland, Ohio. Garment-supporter	691,831	Jan. 28	2790	627	98	632
Wilkinson, John, Syracuse, N. Y. Vehicle-frame	698,164	Apr. 22	3338	729	99	756
Wilkinson, John and A., Manchester, England. Photographic camera						
Wilkinson, John A., assignor of one-half to G. E. Frost, New York, N. Y. Rotary and folding chair	709,286	Sept. 16	2461	555	100	2518
Wilkinson, John A., New York, N. Y., assignor of three-fourths to J. G. Mark, Chicago, Ill., L. B. Menefee, Houston, and O. R. Menefee, Fort Worth, Tex. Opera-chair	714,547	Nov. 25	4085	893	101	1778
Wilkinson, John F., Boston, Mass. Ruffer and gatherer for sewing-machines	716,159	Dec. 16	2919	642	101	2477
Wilkinson, Joseph, Burton-in-Lonsdale, E. F. Chapman and H. Thornton, Leeds, England. Carburetor	699,337	May 6	433	100	99	1263
Wilkinson & Lancaster, et al. (See Smith, Edward W., assignor.)						
Wilkinson, Milton E., Groveton, N. H. Screen-plate fastener	695,532	Mar. 18	2213	502	98	2212
Wilkinson, Thomas A., assignor of two-fifths to W. W. and F. B. Warwick, Cincinnati, Ohio. Telescope valve	701,440	June 3	279	62	99	2165
Wilkinson, Walter S., Baltimore, Md. Manufacture of bituminous paving	705,728	July 29	4667	-----	100	1004
Wilkinson, Walter S., Baltimore, Md., and C. H. Burchinal, Pittsburg, Pa. Asphaltic paving mixture or composition	705,803	July 29	4797	-----	100	1031
Wilkinson, William R., Claxton, Ga. Cotton-chopper	700,169	May 13	1879	487	99	1573
Will, Eddie, Bigstone, S. D. Needle for binders	707,482	Aug. 19	2811	635	100	1729
Will, G. A. (See Cole and Hamilton, assignors.)						
Willard, Charles A., St. Louis, Mo. Safety attachment for cars	693,935	Feb. 25	3274	721	98	1535



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Willard, Edward A. (See Hughes, William S., assignor.)						
Willard, Edward E., Ridgway, Pa. Sawmill and planer	700,870	May 27	3441	790	99	1984
Willard, Isaac N. (See Spalding, Samuel J., assignor.)						
Willard, James A., Chattanooga, Tenn., assignor to Vacuum Dyeing Machine Company.						
Apparatus for dyeing	715,719	Dec. 9	2018	452	101	2296
Wilcox, Elijah, Yonkers, N. Y. Ash-sifter	700,383	Sept. 16	2664	598	100	2362
Wilcox & Gibbs Sewing Machine Company. (See Borton and Brush, assignors.)						
Wilcox, Walter D., Wayland, N. Y. Controller for throttle-valves	713,037	Nov. 4	1068	248	101	1114
Willemain, Paul, Mulhouse, Germany. Building containing acetylene-gas-generating apparatus	696,219	Mar. 25	3557	796	98	2501
Wiler, Marshall A., assignor to Hucher Mfg. Co., Burroak, Mich. Garment-hanger	713,188	Nov. 11	1376	310	101	1195
Willett, Wallace P., East Orange, N. J. Trap-nest	712,348	Oct. 28	3739	817	101	821
Willette, Will S. (See Dyer and Willette.)						
Willette, Willie S. (See Dyer and Willette.)						
Willey, Charles E., Louisville, Ky. Drilling machinery	701,115	May 27	3892	893	99	2029
Willey, George O., Lynn, Mass. Puzzle	714,421	Nov. 25	3809	842	101	1733
William C. Gregg & Co. (See Gregg, William C., assignor.)						
William G. Bell Company. (See Cobb and Jenkins, assignors.)						
William Hamilton Manufacturing Co. (See Erb, Samuel, assignor.)						
William M. Cram Company. (See Fox, Joseph M., assignor.)						
William J. Lowell Company. (See Desmond, John, assignor.)						
William Schollhorn Company. (See Bernard, William A., assignor.)						
William Wharton, Jr., & Company. (See Angerer, Victor, assignor.)						
William Wharton, Jr., & Company, Incorporated. (See Wharton, William, Jr., assignor.)						
Williams, Alfred. (See Bates and Williams.)						
Williams, Allen G., assignor to Maryland Shoe Machinery Company, Baltimore, Md., Machine for inserting protectors in heels and soles of shoes	696,289	Mar. 25	3680	823	98	2527
Williams, Arnold E., et al. (See Collier, Arthur T., assignor.)						
Williams, Benjamin A. (See Bates and Williams.)						
Williams, C. C. (See Duffner, Matthew, assignor.)						
Williams, Carey G., Dalton, Iowa. Spiral conveyor	710,387	Sept. 30	4612	1040	100	2993
Williams, Charles E., Chicago, Ill. Garbage wagon and receptacle	699,906	May 13	1519	349	99	1503
Williams, Charles E., Brooklyn, N. Y., assignor to American Can Company, Jersey City, N. J., and New York, N. Y. Securing swivel-plates to perforated covers	695,424	Mar. 11	2037	457	98	2157
Williams, Charles F., Anderson, Ind. Door-securer	694,812	Mar. 4	910	203	98	1994
Williams, Charles H. (See Keen and Williams.)						
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Finger-guard for brake-beams	690,862	May 13	1428	329	99	1482
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Side bearing for railway-cars	702,896	June 17	2955	681	99	2755
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Side bearing for railway-cars	710,645	Oct. 7	474	100	101	95
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Side bearing	712,224	Oct. 28	3323	772	101	776
Williams, Charles W. (See Street and Williams.)						
Williams, Charles W., Montclair, N. J. Paper band	698,886	Apr. 29	4772	1049	99	1080
Williams, Clarence H., Ringsum, Iowa. Combined stock and hay rack for wagons	711,142	Oct. 14	1419	307	101	310
Williams & Company, Burnham. (See Lindsay, Ellwood C., assignor.)						
Williams, David. (See Dressel, Albert R., assignor.)						
Williams, David S., assignor of one-half to G. S. Gassner, Philadelphia, Pa. Gas incandescent lamp	717,482	Dec. 30	5585	1212	101	3078
Williams, David S., assignor of one-half to G. S. Gassner, Philadelphia, Pa. Gas incandescent lamp	717,483	Dec. 30	5588	1213	101	3079
Williams, Ebenezer E., assignor of one-fourth to A. L. Wood, Nevada, Mo. Shipping crate	707,665	Aug. 26	3205	719	100	1828
Williams, Edgar L., Peoria, Ill. Means for tracing pictures, &c	697,764	Apr. 15	2566	571	99	574
Williams, Edmund T. L., London, England. Means for preventing road-vehicles from slipping sideways	709,838	Sept. 23	3551	800	100	2788
Williams, Edward, Birmingham, England. Machinery for the manufacture of rimmed wheels and disks	705,008	July 15	3124	673	100	666
Williams, Edward A. (See Williams, George C., and E. A.)						
Williams, Eligia M., Fitzgerald, Ga. Rail chair or support	699,046	Apr. 29	5032	1112	99	1134
Williams, Ephraim, Festus, Mo. Grader	699,996	May 13	1682	386	99	1594
Williams, Firm of John. (See Smart, Walter J., assignor.)						
Williams Foundry and Machine Company. (See White, Alfred J., assignor.)						
Williams, Francis, Ruabon, England, assignor to Computing Scale Company, Dayton, Ohio. Weighing and price-indicating apparatus	712,880	Nov. 4	782	181	101	1058
Williams, Frank T., assignor to Edward Miller & Company, Meriden, Conn. Oil-lamp burner	691,832	Jan. 28	2791	627	98	633
Williams, George, Cleveland, Ohio. Hook and lock for iron bedsteads	691,427	Jan. 21	2016	451	98	498
Williams, George A., et al. (See De Force, Mary A., assignor.)						
Williams, George A. and J. O. McCall, Dougherty, Ind. Ter. Stock-guard for railways	705,729	July 29	4670	1041	100	1004
Williams, George C. and E. A., Brooklyn, N. Y. Nursery window-guard	708,411	Sept. 2	730	179	100	2141
Williams, George C. and E. A., Brooklyn, N. Y. Bowed nursery window-guard	708,412	Sept. 2	791	179	100	2141
Williams, George H., Thorold, Canada. Fruit box or basket	698,776	Apr. 29	696	995	99	1020
Williams, George H., Kansas City, Mo. Graduated reinforced arched angle-bar for railway-track joints	714,422	Nov. 25	3809	842	101	1733
Williams, George H., assignor to Stenotype Company, Boston, Mass. Type-writing machine	710,089	Sept. 30	4062	915	100	2877
Williams, George M., Baltimore, Md., assignor to American Tobacco Company, New York, N. Y. Cigar-mold	694,507	Mar. 4	312	70	98	1779
Williams, George M., Baltimore, Md., assignor to American Tobacco Company, New York, N. Y. Cigar-mold	694,508	Mar. 4	314	71	98	1779
Williams, George M., Baltimore, Md., assignor to American Tobacco Company. Machine for boxing little cigars	708,789	Sept. 9	1437	329	100	2288
Williams, George R., Brooklyn, assignor to Economic Machine Company, New York, N. Y. Automatic stop mechanism for paper-feeding or other machines	714,423	Nov. 25	3811	843	101	1733
Williams, George R., Brooklyn, assignor to Economic Machine Company, New York, N. Y. Paper-feeding machine	714,847	Dec. 2	410	86, 87	101	1917
Williams, George R., Brooklyn, assignor to Economic Machine Company, New York, N. Y. Stop-motion for printing-presses, &c	715,446	Dec. 9	1504	326	101	2162
Williams, George R., Denver, Colo. Sheet-metal covering for roofs or other surfaces and fastening device therefor	695,523	Mar. 18	2215	502	98	2213
Williams, Gilbert M., Maysville, Ky. Envelop and stamp moistener	701,441	June 3	281	62	99	2166

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Williams, Gurdon H., Brooklyn Township, Ohio. Bicycle	714,121	Nov. 18	3212	709	101	1595
Williams, Gurdon H., Brooklyn Township, assignor of one-half to McMyler Mfg. Co., Cleveland, Ohio. Excavator	711,449	Oct. 14	2015	436	101	434
Williams, Harry B., Brooklyn, assignor to American Can Company, New York, N. Y. Machine for manufacturing soldered cans	702,167	June 10	1602	362	99	2456
Williams, Harry B., Brooklyn, assignor to American Can Company, New York, N. Y. Side-seam-soldering machine	702,168	June 10	1608	363	99	2457
Williams, Harry B., New York, N. Y., assignor to American Can Company. Dredge-box	702,169	June 10	1612	363	99	2458
Williams, Henry, Willits, Cal. Wave-motor	706,620	Aug. 12	1303	267	100	1375
Williams, Henry A., Quincy, assignor to Putnam Nail Company, Boston, Mass. Machine for forging horseshoe-nails or other articles	695,984	Mar. 25	3063	684	98	2399
Williams, Henry M. (See Burger, Franz, assignor.)				695		
Williams, Henry M. (See Burger and Williams.)						
Williams, Henry M., assignor of one-fourth to F. Burger, Fort Wayne, Ind. Blanket-guard	708,109	Sept. 2	196	47	100	2022
Williams, Irvin, Nelson, Mo. Permutation-padlock	711,608	Oct. 21	2532	510	101	514
Williams, Isaac N., Sullivan, Ind. Guard attachment for dental engines	696,155	Mar. 25	3438	771	98	2478
Williams, James F., assignor of two-thirds to F. Schenker, Vincennes, Ind. Rotary engine	714,424	Nov. 25	3816	844	101	1734
Williams, James F., assignor of two-thirds to F. Schenker, Vincennes, Ind. Rotary engine	714,425	Nov. 25	3818	844	101	1735
Williams, James H., Wilson, Kans. Boiler-pipe cleaner	711,370	Oct. 14	1875	409	101	406
Williams, James P., Boston, Mass., assignor to Ball and Socket Manufacturing Company, Cheshire, Conn., and Boston, Mass. Press	699,732	May 13	1104	271	99	1426
Williams, James R. (See McGilvary, Thomas T., assignor.)						
Williams, James R., Independence, Mo. Hand-cultivator	699,733	May 13	1165	271	99	1427
Williams, Jeff D., Denning, Ark. Automatic fan	708,443	Sept. 2	792	180	100	2141
Williams, John, Belvidere, Ill. Fire-escape	695,775	Mar. 18	2680	608	98	2307
Williams, John, Boston, Mass. Protected sponge	714,026	Nov. 25	4189	926	101	1809
Williams, John, Oakland, assignor to Security Coin Box Company, San Francisco, Cal. Coin-box	690,806	Jan. 7	847	187	98	178
Williams, John, Gowerston, assignor to J. Rees, Swansea, England. Carriage or wagon spring	698,611	Apr. 29	4165	916	99	943
Williams, John, assignor of one-third to W. S. Rodgers, Cleveland, Ohio. Clothes-drying apparatus	701,977	June 10	1239	283	99	2382
Williams, John A., Brooklyn, assignor to United States Slot Machine Company, New York, N. Y. Coin-controlled apparatus	716,505	Dec. 23	3616	730	101	2637
Williams, John A., Brooklyn, assignor to United States Slot Machine Company, New York, N. Y. Vending-machine	716,506	Dec. 23	3622	731	101	2638
Williams, John A., Brooklyn, assignor to United States Slot Machine Company, New York, N. Y. Vending-machine	716,507	Dec. 23	3620	732	101	2638
Williams, John B. (See Cooper, James F., assignor.)				733		
Williams, John C. (See Rickert, John W., assignor.)						
Williams, John C., Kansas City, Mo. Floating lighthouse	708,287	Sept. 2	537	122	100	2090
Williams, John C., Kansas City, Mo. Bridge	716,160	Dec. 16	2921	643	101	2477
Williams, John E. (See Akers and Richards, assignors.)						
Williams, John F., West Orange, N. J., assignor to New Idea Printing Machine Company. Tip-printing press	699,049	Apr. 29	5033	1113	99	1135
Williams, John H., Abertillery, England. Apparatus for coating metal plates	697,909	Apr. 15	2826	625	99	632
Williams, John K., Akron, Ohio. Rubber-tire-setting machine	697,056	Apr. 8	1280	285	99	291
Williams, John K., Akron, Ohio. Rubber-tire-setting machine	700,871	May 27	3448	791	99	1934
Williams, John M., Krebs, Ind. Ter. Rotary engine	713,578	Nov. 11	2172	485	101	1357
Williams, John R., Linneus, Mo. Excavator	695,020	Mar. 11	1311	290	98	2007
Williams, John R., East Orange, N. J., assignor to John R. Williams Company, New York, N. Y. Cigar-bunching machine	707,748	Aug. 26	3386	761	100	1864
Williams, John T. (See Hughes, William D., assignor.)				762		
Williams, Joseph H., Upper Alton, assignor of three-fourths to I. Moore, M. R. Lindley, and H. L. Dickinson, Alton, Ill. Locomotive	709,429	Sept. 16	2747	617	100	2579
Williams, Joseph H., Upper Alton, assignor of three-fourths to I. Moore, M. R. Lindley, and H. L. Dickinson, Alton, Ill. Locomotive boiler	709,430	Sept. 16	2750	618	100	2580
Williams, Lavinia B., Greenville, Tex. Blackboard-eraser	714,122	Nov. 18	3213	709	101	1596
Williams, Lester J., assignor to Kendrick & Davis, Lebanon, N. H. Watchmaker's staking-tool	707,887	Aug. 26	3683	829	100	1922
Williams, Louis N. D. (See Scott, Robert W., assignor.)						
Williams, Louis N. D. (See Scott, Williams, and Swinglehurst.)						
Williams, Louis N. D., et al. (See Bellis, David C., assignor.)						
Williams, Louis N. D., Ashbourne, assignor of one-half to R. W. Scott, Philadelphia, Pa. Knitted fabric	709,839	Sept. 23	3552	800	100	2758
Williams, Louis N. D., assignor of one-half to R. W. Scott, Philadelphia, Pa. Knitted fabric	709,840	Sept. 23	3553	801	100	2759
Williams, Louis N. D., Ashbourne, assignor of one-half to R. W. Scott, Philadelphia, Pa. Knitting-machine	709,841	Sept. 23	3555	801	100	2759
Williams, Ora V., Cleveland, Ohio. Carburetor	710,826	Oct. 7	828	173	101	109
Williams, Mark D., Sidney, Tex. Stalk-cutter	705,183	July 22	3508	760	100	760
Williams, Michael, Madison, assignor of one-third to W. J. Schneider, Middletown, Wis. Well-drilling machine	704,770	July 15	2605	564	100	559
Williams, Milton F., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Fuel blower and pulverizer	711,688	Oct. 21	2488	546	101	549
Williams, Ora V., Cleveland, Ohio. Carburetor	710,646	Oct. 7	476	100	101	96
Williams, Owen, Fall River, Mass. Stop-motion for steam-engines	707,888	Aug. 26	3685	829	100	1922
Williams Patent Crusher and Pulverizer Company. (See Williams, Milton F., assignor.)						
Williams, Richard J., et al. (See Stephenson, Levi T., assignor.)						
Williams, Robert, Malvern, assignor to Fresh Air and Safety Sash Fastener Company, Limited, Adelaide, South Australia, Australia. Sash-fastener	701,238	May 27	4109	946	99	2773
Williams, Rufus M. (See Horack, Charles L., assignor.)						
Williams, Samuel F., San Francisco, Cal. Sink-strainer	706,621	Aug. 12	1204	267	100	1375
Williams, Samuel H., Barnardsville, Tenn. Pea thresher and separator	697,188	Apr. 8	1311	337	99	341



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Williams, Sidney T. (See Turnipseed and Williams.)						
Williams, Thomas W., Schenectady, N. Y., assignor to General Electric Company. Regulation of dynamo-electric machines	697,057	Apr. 8	1282	285	99	291
Williams, White & Co. (See Yeakley, Melvin A., assignor.)						
Williams, William, Teller, Colo. Combined dinner-pail and lantern	691,036	Jan. 14	1269	287	98	280
Williams, William B., Clark Mills, N. Y. Shipping-crate	700,996	May 27	3664	841	99	1978
Williams, William C., Brooklyn, N. Y., assignor to W. M. Klein, Chicago, Ill. Controlling mechanism for printing-presses	706,622	Aug. 12	1205	267 268	100	1375
Williams, William C., Brooklyn, N. Y., assignor to W. M. Klein, Chicago, Ill. Controlling mechanism for printing-presses	706,623	Aug. 12	1209	268	100	1377
Williams, William F. (See Mendenhall, John C., assignor.)						
Williams, William F., London, England. Elastic tire	694,223	Feb. 25	3829	848	98	1545
Williams, William F., London, England. Means for securing elastic tires to wheels	695,776	Mar. 18	3681	699	98	2307
Williams, William F., London, England. Elastic tire	702,271	June 10	1773	405	99	2490
Williams, William F., London, England. Elliptic chain driving-gear	702,841	June 17	2849	657	99	2734
Williams, William F., London, England. Elliptic chain driving-gear	702,842	June 17	2850	657	99	2734
Williams, William H., assignor of two-thirds to J. O. Owens and C. Strunk, Slatford, Pa. Mail-pouch fastener	692,398	Feb. 4	313	75	98	864
Williams, William N., Welcome, Minn. Sleigh-runner	703,510	July 1	242	56	100	49
Williams, Wilton A., O. L. Ingram, and J. B. Wilson, Walla Walla, Wash. Telephone-call for party-lines	701,783	June 3	896	200	99	2296
Williams, Win D. (See Wakeman, Rudolph H., assignor.)						
Williams, Win D., Fredericksburg, Va. Rotary engine	705,004	July 15	3126	674	100	666
Williamson, Alexander D., Coleraine, Ireland. Gas-purifier	692,399	Feb. 4	314	76	98	865
Williamson, Alexander D., Coleraine, Ireland. Acetylene-gas generator	699,271	May 6	261	60	99	1227
Williamson, Benjamin L. (See Williamson, Eli S. and B. L.)						
Williamson, Bert A., Matland, Mo. Stovepipe	705,507	July 22	4187	910	100	895
Williamson Brothers Company. (See Williamson, John D., Jr., assignor.)						
Williamson, Daniel A., Tyrone, Pa. Shoe-lacing machine	692,956	Feb. 11	1365	297	98	1106
Williamson, Eli S. and B. L., Buffalo, N. Y. Vise	711,007	Oct. 21	2330	509	101	514
Williamson, Henry C., and H. Pries, Michigan City, Ind. Dump-car	690,501	Jan. 7	260	52, 53	98	57
Williamson, John D., Jr., assignor to Williamson Brothers Company, Philadelphia, Pa. Brake mechanism	712,349	Oct. 28	3741	818	101	822
Williamson, John T., Gateshead, England. Valve	712,350	Oct. 28	3742	818 819	101	822
Williamson, Robert. (See Pott and Williamson.)						
Williamson, Robert J., Montmorenci, Ind. Cork-extractor	697,587	Apr. 15	2238	499	99	507
Williamson, William B., Malvern, assignor of one-half to W. E. Myers, Powhattan, Kans. Stay for buggy-beds	704,769	July 15	2904	563	100	558
Williamson, William C., Chicago, Ill. Roaster and trusser	691,693	Jan. 28	1873	694	98	633
Willis, Franklin W., Pratt, W. Va. Coal-tipple	714,082	Nov. 18	3137	695	101	1578
Willis, George M. (See Badt and Willis.)						
Willis, George M., Chicago, Ill. Storage-battery separator	693,676	Feb. 18	2775	611	98	1416
Willis, Glenn T., and J. Porteous, Fresno, Cal.; said Willis assignor to said Porteous. Harrow-tooth fastening	697,058	Apr. 8	1284	285	99	292
Willis, Glenn T., and J. Porteous, Fresno, Cal.; said Willis assignor to said Porteous. Cultivator	697,059	Apr. 8	1285	286	99	292
Willis, Henry M., East Williston, N. Y. Tobacco-pipe	705,988	July 29	5126	1117	100	1096
Willis, John, assignor of one-half to L. A. Etherington, Philadelphia, Pa. Loom	693,677	Feb. 18	2777	611	98	1417
Willis, Robert H., Chicago, Ill. Adhesive cement and making same	694,045	Feb. 25	3512		98	1582
Willis, Robert H., Chicago, Ill. Pulley-covering	694,046	Feb. 25	3513	773	98	1582
Willison, John, Derby, England. Automatic coupling for railway-carriages	713,729	Nov. 18	2455	547	101	1435
Willison, John, Derby, England, assignor to National Malleable Castings Company, Cleveland, Ohio. Appliance for uncoupling railway-cars	696,386	Mar. 25	3929	870	98	2577
Willison, John, assignor to National Malleable Castings Company, Cleveland, Ohio. Coupling for railway-carriages, &c	708,110	Sept. 2	197	47	100	2022
Williston, Belvin T., Somerville, assignor to Hancock Inspirator Company, Boston, Mass. Revolution-indicator	699,272	May 6	262	60, 61	99	1227
Willmarth, Charles A., assignor, by mesne assignments, to Universal Ratchet Co., Detroit, Mich. Wire-fence ratchet or tightener	713,730	Nov. 18	2456	547	101	1435
Willmarth, Robert I., San Francisco, assignor to A. Bergman, Sacramento, Cal. Anti-septic protector for telephone-mouthpieces	716,329	Dec. 16	3248	710	101	2545
Willmott, Oliver J., Malvern, England. Ash-tray and advertising device	707,664	Aug. 26	3204	719	100	1828
Willmott, Henry C., and C. W. Lovett, Holyoke, Mass. Guard-board and cleaner for couch-rolls	714,548	Nov. 25	4087	893	101	1779
Willcock, David B., Kansas City, Mo. Reversing mechanism for washing-machines	708,444	Sept. 2	794	1181	100	2142
Willon, Joseph, New York, N. Y. Newspaper-holder	702,518	June 17	2245	511	99	2608
Willoughby, Frank S., Manchester, England. Cycle	712,165	Oct. 28	3425	750	101	755
Willis, Edwin C., Peru, Ind., assignor of one-half to H. Evans, Philadelphia, Pa. Apparatus for making steel, &c	698,610	Apr. 29	4162	915 916	99	942
Willson Aluminum Company. (See Chalmot, Guillaume de, assignor.)						
Willson, Freeman R., Jr., assignor to J. A. Jeffrey, Columbus, Ohio. Machine for washing coal, &c	702,897	June 17	2956	681 682	99	2755
Willson, Freeman R., Jr., assignor to J. A. Jeffrey, Columbus, Ohio. Conveyor-shaft hanger	715,448	Dec. 9	1512	327	101	2163
Willson, Freeman R., Jr., assignor to J. A. Jeffrey, Columbus, Ohio. Conveyor	715,449	Dec. 9	1513	328	101	2164
Willson, Leo W., Battlereck, Mich. Blotter-holder	713,266	Nov. 11	1543	343	101	1228
Willson, William R., Baker City, Oreg. Lamp	695,985	Mar. 25	3067	695	98	2400
Willy, John, Chicago, Ill. System of devices for keeping hotel accounts	700,465	May 20	2648	607	99	1752
Willyerd, John B., assignor to H. A. Hyatt, St. Louis, Mo. Machine for making buttons	701,116	May 27	3895	894 895	99	2080
Wilmarth, Edwin B., assignor to V. H. Blackinton and Company, Attleboro Falls, Mass. Badge	700,273	May 20	2266	517	99	1676
Wilmarth, Edwin B., assignor to V. H. Blackinton and Company, Attleboro Falls, Mass. Badge	710,828	Oct. 7	830	179	101	169
Wilmarth and Morman Company. (See Ridderhof, Cornell, assignor.)						
Wilmarth and Morman Company. (See White, Henry P., assignor.)						
Wilmore Computing Scale Company. (See Whitney, William C., assignor.)						
Wilmot, Clarence L., Pittsburg, Pa. Tank-car	701,656	June 3	686	151 152	99	2252
Wilmot, Clarence L., assignor to Carnegie Steel Company, Pittsburg, Pa. Pipe-coupling	713,036	Nov. 4	1067	248	101	1114

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Wilmot, George W., N. Maley, and G. T. Brown, Freeland, Pa. Oil-retaining box .....	707,043	Aug. 12	1984	445	100	1538
Wilmot, John F., Detroit, Mich. Extension-table .....	699,605	May 6	903	210	99	1362
Wilmoth, William F., assignor to American Furnace Company, New York, N. Y. Furnace .....	702,755	June 17	2695	619	99	2701
Wilmoth, William F., assignor to American Furnace Company, New York, N. Y. Steam-boiler or other furnace .....	702,756	June 17	2698	620	99	2702
Wilmoth, William F., assignor to American Furnace Company, New York, N. Y. Draft and damper regulator for furnaces .....	715,919	Dec. 16	2453	541	101	2380
Wilms, Remy, Barmen, Germany. Loom-reed .....	700,593	May 20	2880	661	99	1800
Wilsey, William H., Sioux City, Iowa. Safety device for elevators .....	693,036	Feb. 25	3276	721	98	1535
Wilsley, William H., Sioux City, Iowa. Door-latch .....	697,306	Apr. 8	1722	384	99	867
Wilsley, William H., Sioux City, Iowa. Safety device for elevators .....	704,468	July 8	2057	445	100	432
Wilske, Frank A., Champaign, Ill. Bicycle repair-scope .....	703,093	June 24	3214	740	99	2825
Wilson, Addison, Lowell, Mass. Coin-controlled strength-testing machine .....	692,958	Feb. 11	1370	298	98	1107
Wilson, Adoniram J., Westfield, N. J., and W. W. Salmon, Chicago, Ill. Electric signaling system .....	692,959	Feb. 11	1372	298	98	1107
Wilson, Albert O., (See Cole and Wilson.) .....						
Wilson, Albert W., San Francisco, Cal. Fishing-gear .....	697,910	Apr. 15	2827	625	99	632
Wilson, Alexander T., Chicago, Ill. Mop-holder .....	696,290	Mar. 25	3684	824	98	2528
Wilson, Allen F., assignor to one-half of J. W. Webb, Clayton, N. J. Implement for finishing necks and lips of bottles .....	692,957	Feb. 11	1369	298	98	1107
Wilson, Allen F., assignor to one-half to J. W. Webb, Clayton, N. J. Neck and cover for closing bottles or jars .....	699,606	May 6	905	210	99	1362
Wilson, Archibald R., (See Iveson and Wilson.) .....						
Wilson, Arthur W., Moline, Ill. Attachment for buggy-boots .....	708,686	Sept. 9	1235	293	100	2243
Wilson, Augusta, Canton, Mo. Mop-holder .....	704,667	June 3	687	152	99	2252
Wilson, Carrie L., Ozarkie, Kans. Pail .....	711,818	Oct. 21	2723	602	101	597
Wilson, Cecil P., Newton, Mass. Dental instrument .....	714,983	Dec. 2	675	141	101	1971
Wilson, Charles E., St. Louis, Mo. Ditching and dredging machine .....	695,258	Mar. 11	1758	389	98	2099
Wilson, Charles E., assignor to Keystone Telephone Company, Philadelphia, Pa. Telephonic wall set .....	698,612	Apr. 29	4165	916	99	943
Wilson, Charles E., assignor to Keystone Telephone Company, Philadelphia, Pa. Base-plate for telephone transmitter-arms .....	698,613	Apr. 29	4167	917	99	943
Wilson, Charles F., Brooklyn, N. Y. Trolley catcher and retriever .....	696,781	Apr. 1	735	166	99	157
Wilson, Charles F., assignor to Gate City Stone Works, Incorporated, Catlettsburg, Ky. Combined grate-front and stove .....	699,123	Apr. 29	5159	1142	99	1159
Wilson, Charles J., (See Heist, Leo G., assignor.) .....						
Wilson, David H., Chicago, Ill. Electric battery .....	715,920	Dec. 16	2455	541	101	2381
Wilson, David J., assignor to H. Espey Manufacturing Company, Washington, D. C. Toy .....	710,090	Sept. 30	4066	917	100	2878
Wilson, David Y., assignor to one-half to R. Hamill, Cochranville, Pa. Cow-milker .....	702,386	June 10	1976	451	99	2531
Wilson, Edward, St. Louis, Mo. Automatic slack-adjuster for brakes .....	711,750	Oct. 21	2909	574	101	575
Wilson, F. Cortez, (See Wilson, George L., assignor.) .....						
Wilson, F. Cortez, Chicago, and G. L. Wilson, Oakpark, Ill. Gas-distributing system .....	710,642	Oct. 7	468	98	101	94
Wilson, Frank G., Ithaca, N. Y. Machine for grinding lenses .....	691,225	Jan. 14	1590	362	98	347
Wilson, Generous L., Chicago, Ill. Railway-signal .....	712,430	Oct. 28	3906	855	101	858
Wilson, George, assignor to Emerson Manufacturing Company, Rockford, Ill. Pitman .....	699,358	May 6	438	100	99	1264
Wilson, George B., et al. (See Lewis, Charles F., assignor.) .....						
Wilson, George E., Stillwater, Minn. Threshing and separating machine .....	705,987	Jan. 29	5123	1117	100	1097
Wilson, George H., Louisville, Ky. Fastener for collars .....	699,050	Apr. 29	5036	1114	99	1135
Wilson, George L., (See Wilson, F. Cortez and G. L.) .....						
Wilson, George L., Oakpark, assignor to one-half to F. C. Wilson, Chicago, Ill. Lantern .....	701,276	May 27	4187	961	99	2087
Wilson, George M., Sault Ste. Marie, Canada. Machine for producing chlorin gas and caustic soda from common salt .....	693,678	Feb. 18	2780	612	98	1417
Wilson, George P., et al. (See Rhodes, Wesley, assignor.) .....						
Wilson, George W., (See Ricketts, James B., assignor.) .....						
Wilson, Hambleton P., Altoona, Pa. Rail brace and support .....	701,442	June 3	283	63	99	2166
Wilson, Harry H., Lockhaven, Pa. Suspender-buckle .....	700,872	May 27	3445	791	99	1964
Wilson, Harry L., assignor to Erie City Iron Works, Erie, Pa. Steam-boiler. (Reissue.) .....	12,052	Nov. 4	1084	252	101	1117
Wilson, Harry L., assignor to Erie City Iron Works, Erie, Pa. Steam-boiler. (Reissue.) .....	12,053	Nov. 4	1087	252	101	1118
Wilson, Henry, New York, N. Y. Machine for forming loops on wire ends .....	714,426	Nov. 25	3821	846	101	1735
Wilson, Herbert R., Rochester, N. Y. Lace hook and clasp .....	700,274	May 20	2267	517	99	1676
Wilson, Homer T., (See Bateman and Wilson.) .....						
Wilson, Homer T., Fort Worth, Tex. Crude-oil burner .....	700,275	May 20	2268	517	99	1676
Wilson, Howard B., New York, assignor to Wyckoff, Seamans & Benedict, Iilon, N. Y. Transfer or carbon paper for type-writing machines .....	701,443	June 3	284	63	99	2166
Wilson, Howard L., assignor to C. H. Hook, Baltimore, Md. Stamping-machine .....	699,051	Apr. 29	5037	1114	99	1136
Wilson, Isaac A., Detroit, Mich. Hand-power propeller .....	696,703	Apr. 1	588	132	99	128
Wilson, James, (See Breeze, Frank A., assignor.) .....						
Wilson, James A., et al. (See Jacoby, William, assignor.) .....						
Wilson, James G., New York, N. Y. Fireproof shutter, door, &c. ....	700,873	May 27	3447	791	99	1935
Wilson, James H., Mount Ayr, Iowa. Automatic gate .....	708,445	Sept. 2	796	181	100	2142
Wilson, James H., Lowell, Mass. Pail-filling and indicating device .....	710,230	Sept. 30	4342	976	100	2938
Wilson, James M., assignor to Electric Sparking and Illuminating Company, Limited, Battlecreek, Mich. Magneto-electric generator .....	695,358	Mar. 11	1928	430	98	2133
Wilson, James M., assignor to Electric Sparking and Illuminating Company, Limited, Battlecreek, Mich. Electric generator .....	699,734	May 13	1167	272	99	1427
Wilson, James M., assignor to one-half to T. T. Miller, Pryor-creek, Ind. Ter. Drawer for bins .....	717,484	Dec. 30	5590	1213	101	3079
Wilson, James O., Canton, Mo. Lightning-rod .....	708,188	Sept. 2	354	84, 85	100	2054
Wilson, James S., (See Brown, Charles N., assignor.) .....						
Wilson, John, Glasgow, Scotland. Filter-press .....	699,052	Apr. 29	5039	1114	99	1136
Wilson, John A., Des Moines, Iowa. Folding buggy-top .....	690,543	Jan. 7	533	68	98	72
Wilson, John B., (See Williams, Ingram, and Wilson.) .....						
Wilson, John F., Jetmore, Kans. Automobile-lock .....	693,201	Feb. 11	1870	404	98	1237
Wilson, John H., Blue Island, Ill. Cover for cooking vessels .....	710,548	Oct. 7	300	65	101	60
Wilson, John H. N., Honolulu, Hawaii. Device for cutting sugar-cane, &c. ....	706,481	Aug. 5	960	209	100	1310
Wilson, John T., Jersey Shore, Pa. Balanced slide-valve .....	705,730	July 29	4671	1011	100	1004
Wilson, John W., (See Hays and Wilson.) .....						
Wilson, Joseph A., Westfield, N. J., assignor to Hall Signal Company. Signal and signaling-circuit .....	693,094	Feb. 11	1613	352	98	1157
Wilson, Joseph H., (See McInnis, William N., assignor.) .....						
Wilson, Joseph H., Buffalo, N. Y., assignor to Acme White Lead and Color Works, Detroit, Mich. Paint-dip for wheels .....	695,986	Mar. 25	3069	696	98	2400



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Wilson, Levi. (See Cooper, John H., assignor.)						
Wilson, Lida, Brooklyn, N. Y. Cooling means for rotary motors	700,276	May 20	2270	518 519	99	1676
Wilson, Lida, Brooklyn, N. Y. Gas impact-engine	700,277	May 20	2272	519	99	1677
Wilson, Lida, Brooklyn, N. Y. Reversible screw-propeller	700,278	May 20	2276	520	99	1677
Wilson, Lida, Brooklyn, N. Y. Marine governor	712,881	Nov. 4	784	182	101	1058
Wilson, Luke I., et al. (See Seiler, Philipp, assignor.)						
Wilson, M. B. (See Burke, Robert E., assignor.)						
Wilson, Margaret C., Chicago, Ill. Bottle-stopper	708,749	Sept. 9	1358	309	100	2270
Wilson, Matthew, Garrison, Iowa. Harness-saddle	697,060	Apr. 8	1287	286	99	292
Wilson, Peter J., Sheffield, England. Lock-nut	704,162	July 8	1496	321	100	314
Wilson, Reginald P., Westminster, England. Valve-locking apparatus	716,508	Dec. 28	3631	793	101	2039
Wilson, Robert, Schenectady, N. Y. Steam-turbine	714,627	Nov. 25	4190	936	101	1819
Wilson, Robert, assignor to W. Walker, Newark, N. J. Cigar or cigarette lighting device	704,163	July 8	1497	321	100	314
Wilson, Robert B., Woonhaven, N. Y. Capsule	691,687	Jan. 21	2489	558	98	553
Wilson, Samuel. (See McHenry and Wilson.)						
Wilson, Stephen E., Frenchblanding, Mich. Treating garbage	709,384	Sept. 16	2665	598 599	100	2563
Wilson, Stephen E., Frenchblanding, Mich. Apparatus for treating garbage	709,450	Sept. 16	2791	628	100	2589
Wilson, Sylvester, Cloquet, Minn. Valve	696,615	Apr. 1	405	94	99	89
Wilson, Thomas, Sunderland, England. Means for disengaging and replacing the supports of boats on ships, &c.	692,400	Feb. 4	315	76	98	865
Wilson, Thomas, Meyers Falls, Wash. Road-scraper	700,594	May 20	2880	662	99	1800
Wilson, Thomas E. C., Liverpool, England. Life-guard	697,122	Apr. 8	1393	309	99	316
Wilson, Thomas M., Layton, Pa. Brick-kiln	704,418	July 8	1953	424 425	100	411
Wilson, Wallace, Philadelphia, Pa. Manufacture of seamless hosiery with lacework stripes	702,849	June 17	2853	658	99	2734
Wilson, Walter G., Westminster, England. Explosion-engine	710,727	Oct. 7	430	131	101	129
Wilson, William C., St. Louis, Mo. Intermediate coupling	705,989	July 29	5127	1118	100	1066
Wiltzie, Cornelius J., assignor to Wiltzie Manufacturing Company, Chicago, Ill. Curtain-fixture	710,644	Oct. 7	471	99	101	95
Wiltzie Manufacturing Company. (See Wiltzie, Cornelius J., assignor.)						
Wimberly, S. J. (See Miller, Thomas O., assignor.)						
Wimmer, Charles I., assignor to one-third to J. Moore, Columbus, Ohio. Window-shade fixture	709,842	Sept. 23	3556	802	100	2759
Wimpfheimer, Charles A. (See Killars, John, assignor.)						
Wimpfheimer, Charles A., et al. (See Beugle, John V., assignor.)						
Winaus, Daniel M. (See Osgood, Horatio B., Jr., assignor.)						
Winaus, Daniel M., Binghamton, assignor to A. L. Weaver, New York, N. Y. Coin-controlled cigar exhibiting and vending apparatus	701,978	June 10	1240	283	99	2383
Winaus, Daniel M., Binghamton, assignor to A. L. Weaver, New York, N. Y. Exhibiting and vending machine	708,687	Sept. 9	1236	283	100	2243
Winaus, Edwin, New York, N. Y. Power-transmitting machinery	709,856	Sept. 23	3579	806	100	2764
Winaus, I. W. (See Bishop and Toline, assignors.)						
Winaus, Frank C., Dallas, Tex. Canopy	707,483	Aug. 19	2812	636	100	1729
Winberg, Severn, Galesburg, Ill. Spirit-level and plumb	710,388	Sept. 30	4618	1041	100	2994
Winch, Allen, Chicago, Ill. Acetylene gas generator	704,226	July 8	1609	318	100	336
Winchell, Edwin H., Chicago, Ill., assignor of one-half to C. W. Farrington, Duluth, Minn. Capo tasto	692,751	Feb. 4	937	213	98	990
Winchester, Benjamin T., Baltimore, Md. Hypodermic syringe	694,813	Mar. 4	911	203	98	1904
Winchester, James D., Beverly, Mass. Last	707,998	Aug. 26	3893	875	100	1964
Winchester Repeating Arms Co. (See Bennett and Johnson, assignors.)						
Winchester Repeating Arms Co. (See Bennett and Mason, assignors.)						
Winchester Repeating Arms Co. (See Burns and Bennett, assignors.)						
Winchester Repeating Arms Co. (See Griffith, Charles H., assignor.)						
Winchester Repeating Arms Co. (See Johnson, Thomas C., assignor.)						
Winchester Repeating Arms Co. (See Mason, William, assignor.)						
Winchester Repeating Arms Co. (See Tilton, Albert, assignor.)						
Winckfield, George W., assignor of one-half to H. H. and E. Hoyt, Oakland, Cal. Game	694,509	Mar. 4	315	71	98	1779
Winckler, Richard P., Latonia, Ky. Bookbinding	694,593	Mar. 4	494	107	98	1818
Winder, James C., assignor of one-half to D. C. Lyle, Eastpoint, Ga. Magnetic separator	702,272	June 24	3765	867	99	2935
Windle, William H., Philadelphia, Pa. Commutator-segment	702,367	June 10	1774	405	99	2490
Windsoph, August P., New York, N. Y. Fixture for washstands, bath-tubs, or the like	704,419	July 8	1956	425	100	412
Windsoph, Jay F., and R. C. Stoffer, Norwich, N. Y. Clinical thermometer	708,329	June 10	1980	451	99	2532
Windsor, H. C. (See Scott, Stacy W., assignor.)						
Windsor Hardware Manufacturing Corporation. (See Wood, Hubert K., assignor.)						
Wineinger, Homer. (See Opel, Frederick W. and J. G., assignors.)						
Winfield, John S. (See Stukes, John M., assignor.)						
Winfrey, Edgar M., Wichita Falls, Tex. Shade-bracket	702,519	June 17	2247	511	99	2609
Winz, Heribert H., Buffalo, N. Y. Making hydrogen sulfid	690,502	Jan. 7	262	53	98	58
Wing, Heribert H., Buffalo, N. Y. Making sulfite compounds	716,390	Dec. 16	3249	710 711	101	2545
Wing, Heribert H., New Brighton, N. Y. Making magnesium sulfite	690,503	Jan. 7	267	54	98	58
Wing, Heribert H., New Brighton, N. Y. Obtaining calcium sulfate and by-products	712,225	Oct. 28	3524	772	101	776
Wing, Heribert H., New Brighton, N. Y. Obtaining alum	712,226	Oct. 28	3528	773	101	777
Wing, Heribert H., New Brighton, N. Y. Making magnesium sulfate	714,984	Dec. 2	678	141	101	1971
Wing, John F., Maywood, Ill., assignor, by mesne assignments, to American Can Company, Jersey City, N. J. Automatic sheet-metal disk or cap-feeding machine	702,388	June 10	1982	452	99	2533
Winger, F. W., et al. (See Kersetter, James L., assignor.)						
Winger, William D. (See Climensson and Winger.)						
Wingerter, William, Halo, Ohio. Water-tube boiler	693,037	Feb. 25	3279	721	98	1535
Winget, Jasper S., York, Pa. Cigar-machine	699,607	May 6	905	211	99	1362
Winget, Marion A., Columbus, Ohio. Machine for molding concrete bodies	694,123	Feb. 25	3636	803 804	98	1608
Winget, Marion A., Columbus, Ohio. Building construction	698,735	May 18	1170	272	99	1427
Winkemann, Heinrich, Bremen, Germany. Photograph	707,749	Aug. 26	3400	796 797	100	1866
Winkes, Edward H., Buffalo, N. Y., assignor, by mesne assignments, of one-half to American Motor Carriage Company, Cleveland, Ohio. Storage-battery plate	711,917	Oct. 21	2942	617	101	648
Winkleman, Benjamin, assignor of one-half to A. C. Adams and J. F. Shrider, Herring, Ohio. Pumping apparatus for wells	696,616	Apr. 1	406	94	99	89
Winkler, William, assignor to G. D. Galphin, F. H. Brown, Syracuse, and E. D. Scofield, New York, N. Y. Brake mechanism for vehicles	696,530	Apr. 1	244	55	99	56

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Winkley Company. (See Hanson, Bengt M. W., assignor.)						
Winkley Company. (See Strong, William E. S., assignor.)						
Winkley, Erastus E., Lynn, Mass. Welt-sewing machine	700,279	May 20	2281	521	99	1678
Winkley, Erastus E., Lynn, Mass., assignor to Goodyear Shoe Machinery Company, Portland, Me. Sole-leveling machine	692,401	Feb. 4	316	76,77	98	866
Winkley, Erastus E., and B. Phillips, Lynn, Mass., assignors to United Shoe Machinery Company, Paterson, N. J. Lock-stitch seam	703,030	June 24	3216	740	99	2825
Winn, David F., assignor of one-half to E. Etzenhouser and E. N. Reeser, Kansas City, Mo. Heating stove or furnace	700,874	May 27	3448	792	99	1935
Winn, Elisha S., Jackson, assignor to R. N. Sr., and R. N. Fickett, Jr., Atlanta, Ga. Dusting-brush	713,827	Nov. 18	2629	586	101	1470
Winn, Jasper C., assignor, by mesne assignments, to J. Rothschild, Chicago, Ill. Door-stop	705,804	July 29	4739	1042	100	1031
Winn, Joseph L., Austin, Tex. Ledger	704,420	July 8	1958	426	100	412
Winn, Philip, Birmingham, England. Apparatus for cutting pipes, rods, &c	708,730	Sept. 9	1448	330	100	2230
Winship, Walter E., San Francisco, Cal. Active material for storage batteries and making same	703,875	July 1	923		100	185
Winslow Bros. Co. (See Bitner, Harry, assignor.)						
Winslow Bros. Co. (See Gilmore, Charles B., assignor.)						
Winslow Bros. Co. (See Kall, Jackson L., assignor.)						
Winslow, Dion L., Boston, Mass. Folding blank paper box	708,288	Sept. 2	588	122	100	2001
Winslow, Francis A., Chicago, Ill. Door closer and check	695,987	Mar. 25	3071	696	98	2401
Winslow, Sidney W. (See Kempshall, Eleazer, assignor.)						
Winslow, Sidney W., trustee. (See Kempshall, Eleazer, assignor.)						
Winslow, William F., Winsted, Conn. Electric clock	710,829	Oct. 7	830	180	101	170
Winsor & Jerauld Manufacturing Company. (See Peck, Ira F., assignor.)						
Winspear, Henry C., Buffalo, N. Y. Grease-cup	713,579	Nov. 11	2174	485	101	1358
Winsper, Samuel, administrator. (See McCarthy, James W.)						
Winstanley, David W., Egremont, assignor of one-half to W. H. Travers, Seacombe, England. Sweeping broom or brush	716,161	Dec. 16	2923	643	101	2478
Winston, H. S. (See Archer, Capelle H., assignor.)						
Wintor & Adler. (See Baumeister and Adler, assignors.)						
Wintor, Ernst, assignor to Farbwerke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Red cotton-dye and making same	697,765	Apr. 15	2568		99	574
Wintor, Josef L., Hamburg, Germany. Matrix	691,922	Jan. 28	2946		98	664
Wintor, Robert, Hanover, Germany. Stove	691,688	Jan. 21	2491	558	98	553
Wintor, Robert, Hanover, Germany. Damper	700,396	May 20	2534	578	99	1725
Wintor, Salomon, et al. (See Nossian, Wilhelm, assignor.)						
Wintor, William A. H., Bancroft, Nebr. Display-rack	694,124	Feb. 25	3638	804	98	1609
Wintor, William R., Trenton, N. J. Electric annunciator	705,805	July 29	4800	1042	100	1032
Winterowd, James H., Legend, Ind. Device for binding hay on wagons	702,520	June 17	2348	512	99	2600
Winters, David L., Chicago, assignor to T. W. Snow, Batavia, Ill. Clutch	700,875	May 27	3449	792	99	1935
Winters, Edward F., Toledo, Ohio. Display tray and case	714,427	Nov. 25	3822	841	101	1736
Winters, Jacob R., Clinton, Mo. Recoil-pad for guns	699,608	May 6	909	217	99	1363
Winters, Jacob R., Clinton, Mo. Corn-popper	715,229	Dec. 2	1168	236	101	2064
Winters, Myrtle, Atlanta, Ga. Bed-spring	706,624	Aug. 12	1211	208	100	1317
Winters, Randolph A., Atwood, Kans. Fence-wire tightener	696,291	Mar. 25	3685	824	98	2328
Winters, William. (See O'Byrne, William, assignor.)						
Wintherlich, Hans J., Omaha, Nebr. Jar-closure	701,117	May 27	3896	895	99	2020
Wintner, Louis. (See Ball and Wintner.)						
Winton, Alexander, Cleveland, Ohio. Multiple oil-feeder	710,928	Oct. 7	965	219	101	203
Winton, Henry D., Wellesley Hills, Mass. Binding-envelope or file	705,006	July 15	3131	677	100	608
Winton, Henry D., assignor of one-half to F. C. Hersey, Wellesley Hills, Mass. Preserving cereal foods	713,580	Nov. 11	2175		101	1358
Winton, Henry D., assignor of one-half to F. C. Hersey, Wellesley Hills, Mass. Cereal food	713,581	Nov. 11	2177	486	101	1358
Winton, Henry D., assignor of one-half to F. C. Hersey, Wellesley Hills, Mass. Preserving cereals	713,582	Nov. 11	2179		101	1358
Winton Motor Carriage Company. (See Melanowski, Leo, assignor.)						
Wippel, August, et al. (See Vogler, Hugo P., assignor.)						
Wireless Telegraph Company of America. (See De Forest and Smythe, assignors.)						
Wires, Edward T., Terre Haute, Ind. Car-wheel	714,848	Dec. 2	416	87	101	1918
Wirsching, Louis, New York, N. Y. Thermocauter	706,482	Aug. 5	962	210	100	1310
Wirsing, Andrew, Milwaukee, Wis. Hoisting-bucket carrier	705,806	July 29	4803	1042	100	1032
Wirsing, Andrew, Milwaukee, Wis. Hoisting-bucket mechanism	707,484	Aug. 19	2813	636	100	1720
Wirt, George A., Fugit Township, Ind. Signaling-target	708,189	Sept. 2	355	85	100	2054
Wirt, Paul E., Bloomsburg, Pa. Spring attachment for articles of wear, &c	692,041	Jan. 28	3160	714	98	706
Wirt, Paul E., Bloomsburg, Pa. Spring attachment for articles of wear, &c	692,042	Jan. 28	3164	715	98	706
Wirt, Paul E., Bloomsburg, Pa. Spring attachment for articles of wear, &c	692,096	Jan. 28	3270	739	98	728
Wirt, Paul E., Bloomsburg, Pa. Fountain-pen	706,140	Aug. 5	259	54	100	1171
Wirt, Paul E., Bloomsburg, Pa. Fountain-pen	706,141	Aug. 5	263	54,55	100	1172
Wirth, Ernst, Dortmund, Germany. Reducing aromatic nitro compounds	714,423	Nov. 25	3823	767	101	1736
Wirtz, Luis, London, England. Machine for making chain	707,750	Aug. 26	3401	768	100	1866
Wisborg, Anders P., Leanna, Kans. Hedge-trimmer	695,259	Mar. 11	1760	390	98	2100
Wisdom, George P., New York, N. Y., assignor to H. H. Pratt, Westfield, N. J. Rheostat or electric heater	717,310	Dec. 30	5279	1147	101	3017
Wise, Edgar H., Westmont, Pa. Electrical-controller contact-arm	712,882	Nov. 4	786	183	101	1058
Wise, Frances J. (See Leonard, Chester S., assignor.)						
Wise, George H., et al. (See Stearns, Edmond B., assignor.)						
Wise, Herbert A., Luxora, Ark. Running-gear for vehicles	706,483	Aug. 5	963	210	100	1310
Wise, Homer, Flushing, N. Y., assignor to Union Voucher Company. Voucher	705,807	July 29	4804	1043	100	1032
Wise, Solomon F., Philadelphia, Pa., assignor to H. B. Smith Machine Company. Gage for setting cutter-heads	691,331	Jan. 14	1843	417	98	403
Wise, Solomon F., Philadelphia, Pa., assignor to H. B. Smith Machine Company. Double-spline drawer-pull boring-machine	694,510	Mar. 4	316	71	98	1779
Wise, William G., et al. (See Russell, Oscar, assignor.)						
Wiseman, Abraham L. (See Stewart and Wiseman.)						
Wiseman, Daniel E., Chicago, Ill., assignor of two-thirds to W. W. Vance, Ottumwa, Iowa, and C. V. Aspinwall, Chicago, Ill. Storage battery	711,710	Oct. 21	2526	554	101	556
Wishart, James M., Pasadena, Cal. Hydrocarbon-burner	714,985	Dec. 2	682	142	101	1972
Wissam, William, and B. Seidel, Chicago, Ill., assignors to Adams & Westlake Company. Safety-valve	707,485	Aug. 19	2814	636	100	1730



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Wisor, David. (See Geer and Wisor.)						
Wissmann, Conrad, Gelsenkirchen, Germany. Machine for extracting coal in pieces from mines	701,979	June 10	1243	284	99	2383
Wissman, Joe H. (See McLouth, Hayes, and Wissman.)						
Wiswall, Edwin Island, Ill. Adding machine	703,330	June 24	3766	867	99	2936
Wiswall, William J., assignor of one-half to G. A. Plank, Kansas City, Mo. Cultivator	700,576	May 27	3450	792	99	1936
Witham, George S., Millinocket, Me. Paper-making machine	704,607	July 15	2319	1503 1504	100	500
Witherell, A. W. (See Dickerson, Fred G., assignor.)						
Witherell, George E., Hartford, Conn., assignor to Remington Arms Company, Ilion, N. Y. Single-trigger mechanism for firearms	697,061	Apr. 8	1288	286	99	293
Witherell, Loren R. (See Etcheson and Witherell.)						
Withers, Charles R. (See Nichols, Frank L., assignor.)						
Withers, George B., Marion, Iowa. Hame and trace connector	709,950	Sept. 30	3792	888	100	2820
Withrow, Samuel P., Cincinnati, Ohio. Perambulator	700,397	May 20	2525	578	99	1725
Witman, Edward O., Malden, Mass. Receptacle for holding and delivering aromatic substances	701,980	June 10	1245	284	99	2383
Witry, Louis W., Waterloo, Iowa. Speed-regulator for explosive-engines	710,047	Oct. 7	478	1100 1101	101	97
Witsch, Bertha. (See Neuenfelder and Witsch.)						
Witt, George E., Fresno, Cal. Crude-oil burner	693,938	Feb. 25	3279	721	98	1536
Witt, Henry G., Grafton, Iowa. Wireless corn-planter	692,402	Feb. 4	319	77, 78	98	866
Witte, Alexis, Brooklyn, N. Y. Razor-gage	692,576	Feb. 4	627	147	98	996
Witte, Ernst, Hildesheim, Germany. Device for rinsing and washing glasses, tumblers, &c.	717,061	Dec. 30	4808	1041 1042	101	2914
Witte, Ernst, Newark, N. J., assignor to J. E. Mergott Company. Catch or lock for purse or bag frames	716,799	Dec. 23	4179	917	101	2755
Witte, Fred, Okawville, Ill. Grain-separator	696,915	Apr. 1	1005	1233 1224	99	212
Witte, Frederick W., Chelmsford, England. Shaft hanger and bearing	695,086	Mar. 11	1437	1316 1317	98	2032
Witte, Herman F., Chicago, Ill., assignor to Otis Elevator Company, East Orange, N. J. Valve mechanism for hydraulic elevators	700,877	May 27	3451	793	99	1936
Witte, Hubert, assignor to St. Louis Car Company, St. Louis, Mo. Ratchet-brake for cars	704,327	July 8	1612	349	100	337
Witte, Hubert, assignor to St. Louis Car Company, St. Louis, Mo. Guard-gate for railway-cars	704,328	July 8	1613	349	100	337
Witte, Martin. (See Karlik and Witte.)						
Wittenmeier, Frederick, assignor to Kroeschell Brothers Ice Machine Company, Chicago, Ill. Compressor	711,689	Oct. 21	2491	1546 1547	101	550
Witkowski, Carl, Berlin, Germany. Wooden split pulley	703,031	June 24	3217	740	99	2825
Wittman, Max G., Jonesboro, Ark. Piano-pedal	693,477	Feb. 18	693	524	98	1339
Wittmann, Rudolf, Brooklyn, N. Y. Cycle	693,302	Feb. 11	1872	405	98	1206
Wittmer, George X., Pittsburg, Pa., assignor to Pittsburg Meter Company. Recording apparatus for fluid-meters	716,973	Dec. 30	4634	1004	101	3877
Wittstein, Charles F., assignor to Schrader-Wittstein Company, Chicago, Ill. Setting for finger-rings or other articles of jewelry	694,594	Mar. 4	496	107	98	1818
Wittstein, Charles T., assignor to Schrader-Wittstein Company, Chicago, Ill. Finger-ring	694,595	Mar. 4	497	108	98	1818
Witty, Richard, San Bernardino, Cal. Hydrocarbon-burner	699,058	Apr. 29	5040	1114 1115	99	1136
Witzel, Andrew C., New York, N. Y. Spindle attachment for lathes or other tools	704,726	July 15	2523	545	100	543
Witzenmann, Emil, Pforzheim, Germany. Armor or sheathing for electric conductors	692,960	Feb. 11	1376	298	98	1108
Witzenmann, Emil, Pforzheim, Germany. Metallic spiral hose	714,323	Nov. 25	3824	847	101	1736
Wixel, Samuel M., Marcus, Iowa. Sample case and exhibitor	701,658	June 3	688	152	99	2252
Wixel, Samuel M., Marcus, Iowa. Rail-joint	703,576	July 1	926	202	100	186
Wixted, Edward F., assignor of one-half to F. H. Letourneau, Chicago, Ill. Ventilating-fan	708,606	Sept. 9	1091	245	100	2213
Wm. C. Gregg & Co. (See Gregg, William C., assignor.) (Reissue.)						
Wm. H. Armstrong & Co. (See Fugh, James M., assignor.)						
Wm. L. Gilbert Clock Company. (See Rottler, Theodor, assignor.)						
Wode, Adam, Jr. (See Fenton and Wode.)						
Wodicka, George W., St. Louis, Mo. Wall-finish and making same	709,188	Sept. 16	2272		100	2477
Wodle, Charles. (See Roberts, George H., Sr., assignor.)						
Woehler, Frederick, et al. (See Smith, Albert D., assignor.)						
Woehler, Henry G., et al. (See Smith, Albert D., assignor.)						
Woehrman, Camillo von. (See Muenger, Fredrick, assignor.)						
Woelfel, Joseph M., Moore, Pa. Cloth-washing machine	716,509	Dec. 23	3632	1793 1794	101	2639
Woernli, Joseph, Frances, Wash. Washing-machine	703,360	June 24	3844	1885 1886	99	2953
Woerner, Fritz, Hamburg, Germany. Automatic feed apparatus	700,110	May 13	1880	437	99	1574
Woerner, Ludwig, Brooklyn, N. Y. Foot-rest	699,780	May 13	1258	292	99	1446
Woerner, Robert, Manila, Philippine Islands. Apparatus for pressing cigars	694,062	Feb. 25	3571	788	98	1595
Wohl, Alfred, Charlottenburg, Germany. Extracting sugar from its solutions	707,889	Aug. 26	3686		100	1922
Wohl, Alfred, Berlin, Germany. Making acetyl chloride	710,648	Oct. 7	480		101	97
Wohl, Alfred, Charlottenburg, and A. Kollprepp, Berlin, Germany. Recovering sugar	695,702	Mar. 18	2555		98	2290
Wohlfield, Jacob, et al. (See Howe, John C., assignor.)						
Wohlhuter, Albert. (See Espitallier, John A., assignor.)						
Woittequand, Charles, Charleville, France. Mounting for electric bells	694,511	Mar. 4	318	72	98	1780
Wolbrecht, Julius, Manila, Philippine Islands. Ventilated hat	707,482	Aug. 19	2846	636	100	1790
Wolcott, Clarence, and P. Ma Girl, Bloomington, Ill. Metallic culvert	691,026	Jan. 28	2946	663	98	664
Wolcott, Darwin S., trustee. (See Cosgrave, Sylvester A., assignor.)						
Wolcott, John H., Concord, Mich. Corset-fastening	699,359	May 6	438	100	99	1264
Wolf, Alfred, Paris, France. Compound for protecting and indurating porous materials	692,961	Feb. 11	1377		98	1109
Wolf, Benedict T., Chicago, Ill. Toy savings-bank	690,544	Jan. 7	337	69	98	73
Wolf, Carl, Schweinsburg-on-the-Pleisse, Germany. Apparatus for dyeing yarn	701,444	June 3	285	63	99	2166
Wolf & Co., A. Jr. (See Hall, Albrecht, assignor.)						
Wolf, David L., Archer City, Tex. Knotter attachment for harvesters	699,360	May 6	440	100	99	1264
Wolf Electrical Promoting Company. (See Meyer, Henry A., assignor.)						
Wolf, Frank R. (See Mathers, George C., assignor.)						
Wolf, George, Jersey City, N. J. Metal-lined paper box	714,988	Dec. 2	685	142	101	1973
Wolf, H. O. (See Dodson, Roy, assignor.)						
Wolf, Harry, assignor to B. Kuppenheimer & Co., Chicago, Ill. Coat	705,007	July 15	3132	677	100	668
Wolf, Henry. (See Hornung and Wolf.)						
Wolf, Isaiah W., Midway, W. Va. Lock	716,510	Dec. 23	3635	794	101	2640

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Wolf, Jacob, <i>et al.</i> (See Cohen, George W., assignor.)						
Wolf, Josef, assignor of one-half to A. Eggers, Bloomfield, N. J. Combined door spring and check	713,267	Nov. 11	1544	349	101	1228
Wolf, Leo, Kansas City, Mo. Faucet or tap	709,189	Sept. 16	2273	516	100	2477
Wolf, Ludwig. (See Lewis and Grow, assignors.)						
Wolf, Nicholas, <i>et al.</i> (See Lyon, William S., assignor.)						
Wolf, Paul J., St. Louis, Mo. Paper cutting and rewinding machine	716,605	Dec. 23	3882	831	101	2684
Wolfbauer, Edward, assignor to L. Wertheim, New York, N. Y. Garment-supporter	717,485	Dec. 30	5591	1213	101	3079
Wolfberg, Morris, New York, N. Y. Ear ring protector	711,269	Oct. 14	1678	361	101	363
Wolfe, Andrew C., Denver, Colo., assignor of one-fourth to J. F. Hewitt, Allegheny, Pa. Locomotor switch-throwing device	702,042	June 10	1362	310	99	2405
Wolfe, Andrew C., assignor of one-fourth to W. L. Barnes, Denver, Colo. Automatic releasing device for safety trolleys	713,828	Nov. 18	2630	587	101	1470
Wolfe, Arthur P., Brooklyn, N. Y. Double-seaming machine	700,997	May 27	3667	842	99	1979
Wolfe, Arthur P., assignor to Niagara Machine and Tool Works, Buffalo, N. Y. Screw-threading and beading machine	716,162	Dec. 16	2924	643	101	2478
Wolfe, Harry W., <i>et al.</i> (See Lundgren, Axel L., assignor.)						
Wolfe, Jacob C., New York, N. Y. Device for transferring checks, tickets, &c	692,577	Feb. 4	627	148	98	926
Wolfe, Jacob C., New York, N. Y. Type-writing and adding machine	698,614	Apr. 29	4168	917	99	943
Wolfe, Jacob S., and L. K. Englert, West Catasauqua, Pa. Alloy	694,224	Feb. 25	3830		98	1646
Wolfe, John, Cleveland, Ohio. Rail-joint	714,986	Dec. 2	683	142	101	1972
Wolfe, Joseph L., Stamford, Conn. Transmission-rearing	714,083	Nov. 18	3140	695	101	1578
Wolfe, Martin W., New Lexington, Ohio. Interlocking board	714,987	Dec. 2	684	142	101	1972
Wolfe, Philip W., Dover, N. J. Scoop	695,359	Mar. 11	1989	490	98	2194
Wolferperger, Ross C., and M. E. Moran, Chicago, Ill. Gun	712,486	Dec. 30	5592	1214	101	3080
Wolff, Carl, New York, N. Y. Burser	695,850	Mar. 18	2819	641	98	2325
Wolff, Frank C., Lajunta, Colo. Scissors-gage	692,578	Feb. 4	634	149	98	928
Wolff, Herbert W., and A. Lipschutz, assignors to American Car & Foundry Company, St. Louis, Mo. Winding-shaft for car-doors	712,227	Oct. 28	3532	773	101	778
Wolff, Hermann R., Goebenz Java. Centrifugal machine	712,628	Nov. 4	317	74	101	964
Wolff, Otto, <i>et al.</i> (See Falkenstein, George S. and C., assignors.)						
Wolfgang, Emilie, Berlin, Germany. Combined wardrobe and traveling-trunk	691,518	Jan. 21	2182	488	98	490
Wolfinger, Joseph, Dundas, Wis. Cheese-marker	707,528	Aug. 19	2900	656	100	1748
Wolford, James O., Columbus, Ohio. Nut-lock	694,125	Feb. 25	3639	804	98	1609
Wolford, Taylor H., <i>et al.</i> (See Nolan and Mortenson, assignors.)						
Wolhaupter, Benjamin, Chicago, Ill. Rail-joint	691,037	Jan. 14	1270	287	98	280
Wolhaupter, Benjamin, Chicago, Ill. Railway-tie plate	691,332	Jan. 14	1845	417	98	403
Wolhaupter, Benjamin, Chicago, Ill. Tie-plate	700,998	May 27	3671	843	99	1980
Wollensak, Andrew, Rochester, N. Y. Photographic shutter	691,689	Jan. 21	2491	558	98	554
Wollensak, Andrew, Rochester, N. Y. Photographic shutter	700,878	May 27	3455	798	99	1937
Wolpers, Augustus, Haemelerwald, Germany. Cleaning-paste and making same	706,790	Aug. 12	1538		100	1447
Wolske, Augustus, Keok, Victoria, Australia. Preparing asphalt	697,307	Apr. 8	1724		99	387
Wolski, Wacław, Schodnica, Austria-Hungary. Deep-boring apparatus	699,273	May 6	263	61	99	1228
Wolstenholme, Sons & Company, Thomas. (See Stevens, Frederick, assignor.)						
Woltz, Fred. (See Boswell, Henry L., assignor.)						
Wolverine Manufacturing Company. (See Johnson, Henry, assignor.)						
Wolverton, Bruce, Portland, Oreg. Hinged gate	703,877	July 1	927	202	100	186
Wolverton, Irvn E., <i>et al.</i> (See Rice, W. Elby M., assignor.)						
Wolwin, Augustus B., Duluth, Minn. Ship construction	706,708	Aug. 12	1357	303	100	1409
Womer, Frank E., Fairhaven, Wash. Rotary engine	715,722	Dec. 9	2024	452	101	2267
Wonder Plow Company. (See Murdock, Horace B., assignor.)						
Wood, Albert E., Meriden, Conn. Hose-reel	698,346	Apr. 22	3647	807	99	921
Wood, Alfred, Folkestone, England. Harness	701,659	June 3	689	152	99	2232
Wood, Amos L., <i>et al.</i> (See Anderson, Emanuel, assignor.)						
Wood, Amos L., <i>et al.</i> (See McDermott, William, assignor.)						
Wood, Anson L., <i>et al.</i> (See Williams, Ebenezer E., assignor.)						
Wood, Augustus L., assignor of one-half to E. C. Eidmann, Cincinnati, Ohio. Cash-reg-ister	708,190	Sept. 2	356	85, 86	100	2065
Wood, Bertini T., Berlin, Wis. Hoop for milk-cans	716,800	Dec. 23	4182	917	101	2756
Wood Bros. Steel Self Feeder Co. (See Wood, Franz J., assignor.)						
Wood, Charles. (See Powell, William E., assignor.)						
Wood, Charles A., <i>et al.</i> (See Crandall and Wood.)						
Wood, Charles S., Chicago, Ill. Syringe-nozzle	703,107	June 24	3371	773	99	2854
Wood & Company, William T. (See Bodenstein, Henry, assignor.)						
Wood, Edgar J., Brooklyn, N. Y. Boiler-feeder	714,549	Nov. 25	4098	893	101	1779
Wood, Elmer R., Salem, N. J. Vest	714,767	Dec. 2	2929	46	101	1884
Wood, Frank D., San Francisco, Cal. Means for working ores by the cyanid process	701,239	May 27	4110	946	99	2073
Wood, Frank W., Indianapolis, Ind. Rivet-making machine	694,596	Mar. 4	498	108	98	1818
Wood, Frank W., Newport News, Va. Electric bell	716,801	Dec. 23	4183	917	101	2756
Wood, Frank W., and M. R. MacPherson, Chelsea, Mass. Horseshoe-pad	708,607	Sept. 9	1092	245	100	2213
Wood, Franz J., Des Moines, Iowa. Tender for traction-engines	710,028	Sept. 30	3943	859	100	2852
Wood, Franz J., assignor to Wood Bros. Steel Self Feeder Co., Incorporated, Des Moines, Iowa. Feeder for grain-separators	701,240	May 27	4112	946	99	2074
Wood, Franz J., assignor to Wood Bros. Steel Self Feeder Co., Incorporated, Des Moines, Iowa. Knife for band-cutters and feeders	710,649	Oct. 7	481	101	101	97
Wood, Frederick W., and E. H. Stiles, Jr., Kansas City, Mo.; said Stiles assignor to said Wood. Automatic stringed musical instrument	702,898	June 17	2960	682	99	2756
Wood, Frederick W., assignor to Crown Gold Milling Company, San Francisco, Cal. Ore-grading apparatus	711,650	Oct. 21	2403	539	101	530
Wood, Frederick W., Baltimore, Md., assignor to Railroad Supply Company, Chicago, Ill. Tie-plate machine	712,167	Oct. 28	3428	750	101	756
Wood, George. (See Page and Wood.)						
Wood, George, Newark, N. J. Oil-vapor engine	708,511	July 1	243	56, 57	100	50
Wood, Gideon B., <i>et al.</i> (See Wells, Elmer J., assignor.)						
Wood, Gideon B., <i>et al.</i> (See Wells and Wood.)						
Wood, Guilford S., <i>et al.</i> (See Dearing, David M., assignor.)						
Wood, Harry M., Worcester, Mass. Sleeve-protector	701,445	June 3	286	63	99	2166
Wood, Henry A. W., New York, N. Y. Double multipress	701,120	May 27	3904	897	99	2032



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Wood, Henry A. W., New York, N. Y. Double multipress. (Reissue) .....	12,016	July 22	4333	936 937	100	923
Wood, Henry A. W., assignor to Campbell Printing Press & Manufacturing Company, New York, N. Y. Printing-machine .....	693,203	Feb. 11	1873	405 406	98	1308
Wood, Henry A. W., assignor to Campbell Printing Press & Manufacturing Company, New York, N. Y. Impression mechanism for printing presses .....	693,204	Feb. 11	1879	406	98	1209
Wood, Henry A. W., assignor to Campbell Printing Press & Manufacturing Company, New York, N. Y. Printing machine .....	694,597	Mar. 4	499	108	98	1819
Wood, Henry A. W., assignor to Campbell Printing Press & Manufacturing Company, New York, N. Y. Web-controlling mechanism .....	701,118	May 27	3398	895 896	99	2030
Wood, Henry A. W., assignor to Campbell Printing Press & Manufacturing Company, New York, N. Y. Inking apparatus .....	701,119	May 27	3901	806	99	2031
Wood, Henry A. W., assignor to Campbell Printing Press & Manufacturing Company, New York, N. Y. Printing machine .....	710,650	Oct. 7	482	102	101	97
Wood, Henry A. W., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Delivery mechanism .....	717,487	Dec. 30	5594	1214 1215	101	3080
Wood, Hubert K., assignor, by mesne assignments, to Windsor Hardware Manufacturing Corporation, Hartford, Conn. Food-chopper .....	697,766	Apr. 15	2569	572	99	574
Wood, Ira F., Galveston, Ind. Hub-attaching device .....	711,888	Oct. 21	2572	635	101	630
Wood, James, assignor of one-half to W. H. Clark, Noblesville, Ind. Toe-calk machine .....	713,268	Nov. 11	1548	320	101	1229
Wood, James E., Harvard, assignor to E. C. Harmon, trustee, Chicago, Ill. Corn-harvester .....	706,142	Aug. 5	266	56 57	100	1172
Wood, James E., Harvard, assignor to E. C. Harmon, trustee, Chicago, Ill. Traction-wheel .....	716,606	Dec. 23	3833	832	101	2684
Wood, James J., Fort Wayne, Ind. Electric fan .....	697,588	Apr. 15	2339	500	99	508
Wood, James J., Fort Wayne, Ind. Electric fan .....	697,589	Apr. 15	2244	500	99	509
Wood, James J., Fort Wayne, Ind. Fan .....	697,697	Apr. 15	2457	548	99	551
Wood, James J., Fort Wayne, Ind. Means for controlling electric circuits .....	706,143	Aug. 5	275	58	100	1173
Wood, James J., Fort Wayne, Ind. Hanger for transformers or the like .....	706,870	Aug. 12	1686	378	100	1479
Wood, James R., Glasgow, Scotland. Spirit-level .....	692,097	Jan. 28	3273	740	98	729
Wood, Jennie F. (See Ferguson, David, assignor.) .....						
Wood, Jesse L., Fulton, and W. G. Lawrence, Cordova, Ill. Combination-tool .....	708,447	Sept. 2	799	182	100	2143
Wood, John M., assignor of one-half to H. C. Kolde, Cincinnati, Ohio. Washline-fall-lifter .....	716,607	Dec. 23	3834	832	101	2684
Wood, John W., Terre Haute, Ind. Grain-door for railway box-cars .....	706,626	Aug. 12	1213	269	100	1377
Wood, Jonathan L. (See Meade, Henry R., assignor.) .....						
Wood, Joseph S., Sr., Brooklyn, N. Y. Acetylene-gas generator .....	699,274	May 6	296	61	99	1228
Wood, Robert J., Glasgow, Scotland. Apparatus for displaying advertisements .....	699,054	Apr. 29	5042	1115	99	1137
Wood, Rosseter F. A., Princeton, Va. Indicator .....	691,998	Jan. 28	3084	698	98	691
Wood, Seba D. (See Greene and Wood.) .....						
Wood, Stephen W., New York, N. Y. Canal towing mechanism .....	707,529	Aug. 19	2901	656 657	100	1748
Wood, Thomas A., and J. W. Spann, Luxora, Ark. Stalk or weed cutter .....	712,883	Nov. 4	790	183	101	1059
Wood, Thomas J. (See Polk and Wood.) .....						
Wood, Thomas P. (See Brett, Robert D., assignor.) .....						
Wood, W. W. (See Anderson, Charles W., assignor.) .....						
Wood, Warren, Paterson, N. J. Bushing for rock-drills .....	712,884	Nov. 4	791	183	101	1059
Wood, Warren, Paterson, N. J. Tripod for rock-drills .....	712,885	Nov. 4	792	184	101	1059
Wood, William A., Ansonia, Conn. Variable-speed clutch .....	707,890	Aug. 26	3690	829 830	100	1923
Wood, William A., Ansonia, Conn., assignor of one-half to G. H. Benjamin, New York, N. Y. Feed mechanism for screw-cutting lathes .....	715,921	Dec. 16	2456	541 542	101	2381
Wood, William A., Ansonia, Conn., assignor of one-half to G. H. Benjamin, New York, N. Y. Variable-speed mechanism .....	715,922	Dec. 16	2463	543 544	101	2382
Wood, William C., New York, N. Y. Railway-switch .....	702,522	June 17	2251	512	99	2699
Wood, William C., Wetumpka, Ala. Pneumatic spring for vehicles .....	715,723	Dec. 9	2926	453	101	2260
Wood, William G., San Francisco, Cal. Photographic-printing frame .....	715,923	Dec. 16	2467	543	101	2383
Woodard, George E., Bradford, Pa. Rotary engine .....	706,485	Aug. 5	967	212	100	1312
Woodbridge, Fred L. (See McCay, Spencer, assignor.) .....						
Woodbridge, Jonathan E., Schenectady, N. Y., assignor to General Electric Company. Synchronizing alternators .....	691,834	Jan. 28	2794	628	98	693
Woodbridge, Jonathan E., Schenectady, N. Y., assignor to General Electric Company. Means for transmitting electrical energy .....	697,123	Apr. 8	1394	309	99	316
Woodbridge, Jonathan E., Schenectady, N. Y., assignor to General Electric Company. Transforming alternating currents .....	717,488	Dec. 30	5508	1215	101	3081
Woodbridge, Jonathan E., Schenectady, N. Y., assignor to General Electric Company. Means for transforming alternating currents .....	717,518	Dec. 30	5648	1226	101	3091
Woodbridge, Jonathan E., Albany, N. Y., assignor to General Electric Company. Connection for measuring instruments .....	713,583	Nov. 11	2180	486	101	1359
Woodbury, Daniel C. (See Davis and Woodbury.) .....						
Woodbury, George E., Charlotte, Mich. Attachment for fruit can or jar covers .....	704,421	July 8	1960	426	100	412
Woodbury, George E., San Francisco, Cal. Ore-concentrator .....	715,326	Dec. 9	1296	278	101	2121
Woodbury, William A., Newton Highlands, Mass. Collar .....	692,098	Jan. 28	3374	740	98	739
Woodcock, Willard J., Brooklyn, N. Y. Refrigerating machine .....	706,625	Aug. 12	1212	269	100	1377
Woodcock, William H. (See Hornbrook and Woodcock.) .....						
Woodell, Enoch C., Highpoint, N. C. Electric generator .....	695,524	Mar. 18	2216	502	98	2213
Wooden Package Manufacturing Company. (See Vogel, Louis D., assignor.) .....						
Woodeson, William A., assignor to Clarke, Chapman and Company, Limited, Gateshead, England. Steam-actuated valve for engines and motors .....	694,709	Mar. 4	712	156 157	98	1862
Woodeson, William A., assignor to himself and Clarke, Chapman and Company, Limited, Gateshead, England. Steam-boiler .....	714,084	Nov. 18	3142	696 697	101	1579
Woodeson, William A., assignor to himself and Clarke, Chapman and Company, Limited, Gateshead, England. Steam-boiler .....	714,085	Nov. 18	3146	696 697	101	1580
Woodford, Samuel B., Imperial, assignor of one-half to C. B. Hamilton, Coraopolis, Pa. Attachment for washboilers .....	707,667	Aug. 26	3308	719	100	1888
Woodhiser, Thomas, Leadville, Colo. Claw-bar .....	690,392	Mar. 25	3686	825	98	2338
Woodliff, Emanuel, Oakmont, Pa. Jack .....	708,948	Sept. 9	1759	405	100	1377
Woodings, Emanuel, assignor to Verona Tool Works, Oakmont, Pa. Lifting-jack .....	701,823	June 3	962	214	99	2310
Woodley, Thomas E. (See Blodgett, William A., assignor.) .....						
Woodman, George A. (See Sceets, George N., assignor.) .....						
Woodman, George A., Chicago, Ill., assignor of three-fourths to Kirby Lumber Company, Journal-box lid .....	702,899	June 17	2904	693	99	2756
Woodman, George A., Chicago, Ill., assignor of three-fourths to Kirby Lumber Company, Journal-box lid .....	702,900	June 17	2905	693	99	2757

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Woodman, George A., Chicago, Ill., assignor of three-fourths to Kirby Lumber Company. Dust-proof journal-box lid.	702,901	June 17	2966	688	99	2757
Woodman, George A., assignor of three-fourths to T. B. Kirby, F. W. Renshaw, and H. V. Kuhlman, Chicago, Ill. Brake-shoe.	704,491	July 8	2106	456	100	442
Woodmansee, Clay G., assignor of one-half to R. C. Hamlin, Los Angeles, Cal. Blowpipe-orch.	692,752	Feb. 4	938	213	98	990
Woodmansee, R. S. (See Kennedy, Harry R., assignor.)						
Woodnall, Bessie, Wakefield, Mass. Faucet.	711,609	Oct. 21	2333	510	101	514
Woodruff, Charles H., assignor to Woodruff & Edwards Company, Elgin, Ill. Adjustable desk and seat.	699,939	May 13	1585	363	99	1515
Woodruff, Cyrus H., Buffalo, N. Y. Apparatus for unloading vessels.	700,280	May 20	2333	521	99	1678
Woodruff, Edmund W., Washington, D. C. Rod-lock for card-indexes.	712,166	Oct. 28	3426	750	101	756
Woodruff, Edward, Chicago, Ill. Mechanism for temporarily locking water-closets, jowls, or washbasins.	706,869	Aug. 12	1684	377	100	1479
Woodruff & Edwards Company. (See Woodruff, Charles H., assignor.)						
Woodruff Hardware Co. (See Woodruff, Robert L., assignor.)						
Woodruff, John W., Hamburg, N. Y. Silo.	699,997	May 13	1684	387	99	1534
Woodruff, John W., Hamburg, N. Y. Silo.	699,998	May 13	1685	387	99	1535
Woodruff, Leslie B., and F. E. Caton, San Jose, Cal. Inking apparatus.	705,184	July 22	3503	700	100	760
Woodruff, Merritt N., et al. (See Pearce, William, assignor.)						
Woodruff, Robert L., assignor to Woodruff Hardware Co., Winder, Ga. Hay-press.	711,270	Oct. 14	1678	361	101	363
Woods, Alexander F., Murphy, Iowa. Apparatus for loading manure, &c., on wagons.	693,769	Feb. 18	2939	646	98	1450
Woods, Edward D., Newark, N. J. Knife.	714,086	Nov. 18	3150	697	101	1581
Woods, Edward D., Newark, N. J. Shears.	714,087	Nov. 18	3150	697	101	1581
Woods, Edwin S. (See McLunn and Woods.)						
Woods, Edwin S., Chicago, Ill. Draft-rigging for railway-cars.	691,038	Jan. 14	1275	288	98	281
Woods, Edwin S., Chicago, Ill. Car-truck.	696,617	Apr. 1	407	95	99	89
Woods, Fount L. (See Boothe and Woods.)						
Woods, Frank J., San Antonio, Tex. Well-boring machine.	702,608	June 17	2422	552	99	2644
Woods, Granville T., Parkridge, assignor, by mesne assignments, to H. W. Leonard, East Orange, N. J. Controlling electric motors or other electrical translating devices.	690,807	Jan. 7	849	187	98	178
Woods, Granville T., Parkridge, assignor, by mesne assignments, to H. W. Leonard, East Orange, N. J. Controlling electric motors or other electrical translating devices.	690,808	Jan. 7	850	187	98	179
Woods, Granville T., assignor to H. W. Leonard, New York, N. Y. Apparatus for controlling electric motors or other electrical translating devices.	690,809	Jan. 7	852	188	98	179
Woods, Granville T., assignor to H. W. Leonard, New York, N. Y. Apparatus for controlling electric motors or other electrical translating devices.	690,810	Jan. 7	855	188	98	180
Woods, Granville T., New York, N. Y., assignor to General Electric Company. Electric railway.	695,988	Mar. 25	3072	696	98	2401
Woods, Granville T., New York, N. Y., assignor, by mesne assignments, to Westinghouse Air Brake Company, Pittsburg, Pa. Automatic air-brake.	701,981	June 10	1246	284	99	2384
Woods, Granville T. and L., New York, N. Y., assignors to H. C. Townsend and D. H. Decker, trustees. System of electrical control.	697,767	Apr. 15	2570	572	99	575
Woods, Granville T. and L., New York, N. Y., assignors to H. C. Townsend and D. H. Decker, trustees. Motor controlling apparatus.	697,928	Apr. 15	2560	632	99	638
Woods, John M., and J. R. Crumpler, Cordele, Ga. Folding ironing-table.	695,851	Mar. 18	2820	641	98	2336
Woods, Lyates. (See Woods, Granville T. and L.)						
Woods, Phineas S., Smithville, Mo. Pump-motor.	702,521	June 17	2249	512	99	2609
Woodside, Edward F., Pelzer, S. C. Game-board.	693,478	Feb. 18	2396	524	98	1339
Woodson, Henry, Winlock, Wash. Music-teaching apparatus.	708,688	Sept. 9	1239	285	100	2243
Woodson, James F., and O. L. Lindsey, assignors of one-third to W. H. Snow, Alba, Tex. Cash-register.	715,724	Dec. 9	2027	453	101	2208
Woodward, Frederick, South Yarra, near Melbourne, Victoria, Australia. Means for securing straps to buckles.	708,878	July 1	929	202	100	186
Woodward, George. (See Seltzer, Cyrus J., assignor.)						
Woodward, Henry, London, England. Electrode for storage batteries.	707,666	Aug. 26	3207	719	100	1828
Woodward, James W., assignor of one-half to J. A. Bailey, Lewiston, Idaho. Flow.	694,235	Feb. 25	8390	840	98	1646
Woodward, Russel G., Waukegan, assignor to Union Special Sewing Machine Company, Chicago, Ill. Stripper-plate for sewing machines.	690,812	Jan. 7	858	189	98	181
Woodward, Russel G., Waukegan, assignor to Union Special Sewing Machine Company, Chicago, Ill. Ruffling and sewing machine.	706,484	Aug. 5	965	211	100	1311
Woodward, Willis J., Indianapolis, Ind. Gas and air mixing burner.	697,768	Apr. 15	2580	573	99	578
Woodworth, Albert L., assignor to T. W. Godwin & Co., Norfolk, Va. Time-ball apparatus.	715,280	Dec. 2	1108	237	101	2064
Woody, Edward G., New York, N. Y. Stamp-pad.	698,877	Mar. 18	2869	651	98	2347
Woody, John C., Mount Vernon, Ind., W. R. Danley, Denver, and W. H. Young, Rockyford, Colo. Driving-gear.	696,782	Apr. 1	737	167	99	157
Woodyatt, Anthony A., Taralgon, Victoria, Australia. Clothes-line.	699,736	May 13	1171	272	99	1428
Wool, Theodore J., et al. (See Love, Samuel, assignor.)						
Woodridge, William H., assignor of one-half to R. G. Bostwick, Memphis, Tenn. Combined rein-holder and storm-eyron supporter.	696,618	Apr. 1	409	95	99	90
Woolley, Charles F. (See Canode and Woolley.)						
Woolley, Thomas A., and H. Fox, Hamilton, Canada. Machine for shocking grain.	694,512	Mar. 4	319	72, 73	98	1780
Woolfe, Henry, Seacombe, England. Game apparatus.	700,879	May 27	3460	794	99	1938
Woolley, Leonidas G., Kenton, Ohio. Telephone and fire-alarm signal.	695,260	Mar. 11	1761	390	98	2100
Woolley, Leonidas G., Kenton, Ohio. Magnetic medicine-holder.	712,447	Oct. 28	3934	861	101	863
Woolley, Leonidas G., Kenton, Ohio, assignor to Magneto Electric Company, Incorporated, New York, N. Y. Fire-alarm-telegraph repeater.	695,777	Mar. 18	2682	609	98	2307
Woolman, Robert E., St. Joseph, Mo. Water-wheel.	710,029	Sept. 30	3945	890	100	2853
Woolman, Robert E., St. Joseph, Mo. Shoe-tip clamp.	716,608	Dec. 23	3835	882	101	2084
Woolsey, Mark H. (See Smith and Woolsey.)						
Wooster, Anson S. (See McLery, Wilbur, and Wooster.)						
Wooten, Lewis W., Moore, Okla. Ter. Cotton-chopper.	701,446	June 3	287	64	99	2167
Word, David C., assignor of one-fourth to B. Huff, St. Louis, Mo. Pump-valve.	708,508	Sept. 2	919	208	100	2168
Worden, Frank A., Ypsilanti, Mich. Toy wind-wheel.	717,489	Dec. 30	5600	1216	101	3081
Worden, Manley R., et al. (See Carroll and Roberts, assignors.)						
Worden, Percy P., et al. (See Carroll and Roberts, assignors.)						
Worf, Wilhelm, Gross St. Florian, Austria-Hungary. Transportable ice-case.	691,089	Jan. 14	1276	288	98	282
Working, Charles F., Ottumwa, Iowa. Fly-exit for screens.	699,737	May 13	1172	273	99	1428
Working, John C., Denver, Colo. assignor, by mesne assignments, to Furnidge Spring Wheel Company, Pierre, S. D. Hub.	691,735	Jan. 21	2575	577	98	571



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Workman, Frank H. (See Hoover and Workman.)						
Workman, Oscar P. (See Klein and Workman.)						
Worley, George W., Goldfield, Iowa. Spacker.	715,292	Dec. 2	1115	238	101	2065
Worley, Salome, and W. A. Sullenbarger, Belle Plaine, Iowa. Culinary appliance.	714,490	Nov. 25	3892	847	101	1736
Wormald, Abraham H., assignor to Wormald Patent Locks Company, Limited, Sheffield, England. Key.	711,889	Oct. 21	2873	636	101	180
Wormald Patent Locks Company. (See Wormald, Abraham H., assignor.)						
Wornwood, Alfred R. and H. G., Portland, Me. Measuring-case.	702,083	June 10	1456	327	99	2425
Wornwood, Hannah G. (See Wornwood, Alfred R. and H. G.)						
Worrest, Alfred H., Lancaster, Pa., assignor to Metal Stamping Company, New York.	705,185	July 22	3507	761	100	761
Worrest, Alfred H., Lancaster, Pa., assignor to Metal Stamping Company, New York.	708,689	Sept. 9	1243	285	100	2244
Worron, Lewis C., and A. Vanderbeek, Hartford, Conn., assignors to said Vanderbeek.	715,725	Dec. 9	2030	454	101	2269
Multi-pl-cylinder engine.				455		
Worsnop, Charles H., Halifax, England. Suspending device for pictures.	716,609	Dec. 23	3836	893	101	2684
Worth, Charles, Newark, N. J. Tile.	704,727	July 15	3525	545	100	545
Worth, Charles, Newark, N. J. Tile.	712,168	Oct. 28	3432	751	101	757
Worth, J. S., et al. (See Worth and Fairweather, assignors.)						
Worth, John S., and C. B. Fairweather, assignors to J. S. and W. P. Worth, Coatesville, Pa. Boiler-brace.	699,999	May 13	1687	387	99	1535
Worth, W. P., et al. (See Worth and Fairweather, assignors.)						
Worth, William O., et al. (See Rice, John V., Jr., assignor.)						
Worth, William O., Chicago, Ill. Valve and valve mechanism for gas-engines.	710,728	Oct. 7	632	131	101	129
Worth, William O., Chicago, Ill., assignor of two-thirds to W. R. Donaldson, Louisville, Ky., and H. W. Kellogg, Battlecreek, Mich. Hydraulic motor or pump and reversing valve therefor.	690,813	Jan. 7	859	189	98	181
Worth, William O., Chicago, Ill., assignor of two-thirds to W. R. Donaldson, Louisville, Ky., and H. W. Kellogg, Battlecreek, Mich. Motor-vehicle.	716,610	Dec. 23	3837	833	101	2685
Worth, William O., and W. R. Donaldson, Chicago, Ill., assignors of one-third to H. W. Kellogg, Battlecreek, Mich. Cooling or condensing coil.	692,962	Feb. 11	1378	299	98	1109
Worthing, Eugene, et al. (See Worthing, Charles V., assignor.)						
Worthington, Chas., et al., Pittsburgh, Pa. Swing-bridge.	707,044	Aug. 12	1986	446	100	1539
Worthington, Charles C., Irvington, N. Y. Steam pumping-engine.	690,545	Jan. 7	399	69	98	73
Worthington, Charles C., Irvington, N. Y. Cylinder-charging valve for pumps.	693,479	Feb. 18	2396	524	98	1389
Worthington, Charles C., Irvington, N. Y. Pumping apparatus.	694,513	Mar. 4	328	73	98	1732
Worthington, Charles C., Irvington, N. Y. Valve-movement for steam-engines.	695,021	Mar. 11	1313	291	98	2007
Worthington, Charles C., Dunnfield, N. J. Duplex steam-pump or other duplex steam-engine.	695,989	Mar. 25	3074	697	98	2402
Worthington, Charles C., Dunnfield, N. J. Hydraulic or similar power apparatus.	698,093	Apr. 22	3185	697	99	726
Worthington, Charles C., Dunnfield, N. J. Steam-engine.	703,032	June 24	3218	741	99	2826
Worthington, Charles C., Dunnfield, N. J. Pump.	710,030	Sept. 30	3946	890	100	2853
Worthington, Charles C., Dunnfield, N. J., and L. R. Alberger, New York, N. Y. Condenser system.	692,810	Feb. 4	1054	237	98	1011
Worthington, George C., Elyria, Ohio. Combined knife and fork support and knife-sharpener.	712,228	Oct. 28	3534	773	101	778
Worthington, George G. (See McDonald and Worthington.)						
Worthington, Henry A., assignor of one-half to E. L. Stowe, Los Angeles, Cal. Grappling-tool.	714,989	Dec. 2	686	143	101	1973
Worthington, Henry R. (See Thomas, Philip, assignor.)						
Worthington, Marcus M., New London, Conn. Attachment for phonographs.	706,627	Aug. 12	1215	269	100	1378
Wotherspoon, William W., New York, N. Y. Monoline-machine.	711,143	Oct. 14	1421	308	101	311
Wotton Electric & Manufacturing Company. (See Wotton, James A., assignor.)						
Wotton, James A., Atlanta, Ga., assignor to Wotton Electric & Manufacturing Company.	692,579	Feb. 4	634	149	98	928
Electric gong.						
Wotton, James A., Atlanta, Ga., assignor to Wotton Electric & Manufacturing Company.	692,580	Feb. 4	637	149	98	928
Annunciator.						
Wotton, James A., Atlanta, Ga., assignor to Wotton Electric & Manufacturing Company.	699,275	May 6	268	62	99	1229
Automatic annunciator.						
Wovries, Otto C., assignor of one-half to E. Borderwisch, Dayton, Ohio. Speed-regulator for explosive-engines.	695,261	Mar. 11	1764	891	98	2101
Wratzke, Alfred, Rüttenscheid, assignor to F. Krupp, Essen, Germany. Cartridge for ordnance.	703,879	July 1	929	203	100	186
Wray, Walter W., Detroit, Mich. Steam-separator.	700,880	May 27	3462	794	99	1938
Wrenn, Henry B. P., New York, N. Y. Regulator.	708,289	Sept. 2	540	122	100	2091
Wride, John F., assignor of one-half to O. R. Bonner, Brooklyn, N. Y. Socket-cover and globe-holder.	703,580	July 1	930	203	100	187
Wright, Allen C., Berkeley, Cal. Measuring and filling apparatus.	711,144	Oct. 14	1429	310	101	312
Wright, Arthur, assignor to Mutual Electric Trust, Limited, Brighton, England. Electricity-meter.	702,844	June 17	2855	659	99	2735
Wright, Arthur, assignor to Mutual Electric Trust, Limited, Brighton, England. Direct or continuous current electricity-meter.	702,845	June 17	2859	659	99	2735
Wright, Arthur, assignor to Mutual Electric Trust, Limited, Brighton, England. Electric maximum-demand indicator.	702,846	June 17	2860	660	99	2736
Wright, Arthur, assignor to Mutual Electric Trust, Limited, Brighton, England. Metering of electricity.	702,847	June 17	2863	661	99	2736
Wright, Arthur, assignor to Mutual Electric Trust, Limited, Brighton, England. Electricity-meter.	702,848	June 17	2864	661	99	2737
Wright, Arthur, assignor to Mutual Electric Trust, Limited, Brighton, England. Maximum and minimum recording electric meter.	702,849	June 17	2866	662	99	2737
Wright, Arthur, assignor to Mutual Electric Trust, Limited, Brighton, England. Electricity-meter of the electrolytic type.	702,850	June 17	2868	662	99	2737
Wright, Charles, Everson, Pa. Draw-gear for cars.	701,660	June 3	691	153	99	2353
Wright, Charles, Everson, Pa. Triple-spring draw-gear.	701,661	June 3	694	153	99	2353
Wright, Charles, assignor of one-half to J. J. O'Shea, Everson, Pa. Hose-rack.	714,628	Nov. 25	4192	927	101	1809
Wright, Charles M., Anderson, Ind. Voting-machine.	692,581	Feb. 4	639	150	98	929
Wright, Clarence A., Keene, N. H. Quoit.	692,963	Feb. 11	1379	299	98	1109
Wright and Corbin, Wino, et al. (See Wright, George F. and G. M., assignors.)						
Wright, Daniel M., Scranton, Pa. Tank-valve.	715,726	Dec. 9	2036	455	101	2271
Wright, Darwin E., Washington, D. C. Locking mechanism for card-index systems or the like.	709,843	Sept. 23	3557	802	100	2759
Wright, Darwin E., Washington, D. C. Locking device for filing-receptacles or the like.	709,844	Sept. 23	3560	803	100	2760

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Wright, Darwin E., Washington, D. C. Locking device for filing-receptacles or the like.	709,845	Sept. 23	3562	803	100	2760
Wright, David. (See Thoms, Charles F., assignor.)						
Wright, Earl E., assignor of one-half to P. Lee, Rochester, Pa. Driving-gear for motor-vehicles.	703,881	July 1	931	203	100	187
Wright, Edgar A., assignor to Aultman Company, Canton, Ohio. Apparatus for elevating or conveying and transferring ice, &c.	707,487	Aug. 19	2816	637	100	1731
Wright, Edgar A., assignor to Aultman Company, Canton, Ohio. Apparatus for elevating or conveying and transferring ice, &c.	707,488	Aug. 19	2819	637	100	1731
Wright, Edgar A., assignor to Aultman Company, Canton, Ohio. Apparatus for elevating or conveying and transferring ice, &c.	707,489	Aug. 19	2822	638	100	1732
Wright, Edgar A., assignor to Aultman Company, Canton, Ohio. Motor-vehicle.	708,949	Sept. 9	1759	405	100	2353
Wright, Elmer H., Chicago, Ill. Electric time-switch.	703,093	June 24	3226	746	99	2826
Wright, Flint W., Worcester, Mass. Cash-register.	693,205	Feb. 11	1882	407	98	1210
Wright, Francis C., Cavespring, Ga. Window-screen attachment.	692,403	Feb. 4	321	78	98	866
Wright, Frank H. (See Leland, Edwin A., assignor.)						
Wright, Frederick K., Syracuse, N. Y. Signal-lamp.	705,808	July 29	4806	1043	100	1032
Wright, George C., Cleveland, Ohio. Show-case bracket.	711,610	Oct. 21	2334	510	101	515
Wright, George F. and G. M., assignors of one-half to Wright and Colton Wire Cloth Company, Worcester, Mass. Machine for covering coils of wire.	700,713	May 20	3123	709	99	1853
Wright, George H., Spokane, Wash. Fence-wire fastener.	711,450	Oct. 14	2016	436	101	434
Wright, George M. (See Wright, George F. and G. M.)						
Wright, Harry H. (See Baldwin, Richard D., assignor.)						
Wright, Harry L., assignor of one-half to G. H. Cropsey, Chicago, Ill. Gearing.	709,287	Sept. 16	2465	556	100	2519
Wright, Harry L., assignor of two-thirds to J. A. Jacobsen and A. Pedersen, Chicago, Ill. Coat-hanger.	711,145	Oct. 14	1431	310	101	313
Wright, Hebdon. (See Wright, James and H.)						
Wright, Henry T., Philadelphia, Pa. Window-screen.	696,788	Apr. 1	738	167	99	158
Wright, Irvin W. (See Wideman and Wright.)						
Wright, Jacob P., Akron, Ohio, assignor to Diamond Match Company, New York, N. Y. Dipping-roll for match-machines.	709,190	Sept. 16	2274	517	100	2478
Wright, James and H., Ingrow, England. Filer for spinning-machines.	712,880	Nov. 4	794	184	101	1060
Wright, James E., Omaha, Nebr. Postmarking and stamp-canceling machine.	699,276	May 6	270	62, 63	99	1229
Wright, James E., and L. J. Edwards, Omaha, Nebr. Rural-delivery mail-box.	693,770	Feb. 18	2940	1646	98	1450
Wright, James M., Bloomington, assignor to H. Blakely, Indianapolis, and J. M. Wright, Bloomington, Ind. Chemical roofing material.	691,882	Jan. 28	2872		98	650
Wright, Jefferson M., et al. (See Wright, James M., assignor.)						
Wright, John A., Irwin, and W. F. O'Neill, Williamsburg, Pa. Knife-switch.	695,188	Mar. 11	1626	361	98	2073
Wright, John C., Brockton, Mass. Shoe.	697,590	Apr. 15	2345	500	99	509
Wright, John S. (See Green, George A., assignor.)						
Wright, John W., Elk City, Kans. Box-lid holder and label-displayer.	706,628	Aug. 12	1216	270	100	1378
Wright, Lewis T., Keswick, Cal. Roasting-furnace.	697,062	Apr. 8	1290	287	99	293
Wright, Marie R., New York, N. Y. Game apparatus.	704,164	July 8	1500	321	100	315
Wright, Mary E. (See Wright, William, assignor.)						
Wright, Reuben G. (See Jackson, Charles J., assignor.)						
Wright, Richard H. (See Landfear, William R., assignor.)						
Wright, Roger, Newcastle-upon-Tyne, assignor to W. G. Armstrong, Whitworth and Company, Limited, Elswick Works, Newcastle-upon-Tyne, England. Apparatus for controlling pumping-engines.	715,924	Dec. 16	2469	543	101	2383
Wright, Rosalie, et al. (See Bennett, Charles R., assignor.)				544		
Wright, Samuel H., Bear Grove Township, Ill. Wire-stretcher.	692,753	Feb. 4	939	214	98	990
Wright, Selden R., Morton, N. Y. Telegraphic safety device.	704,105	July 8	1501	122	100	315
Wright, Thomas, Springfield, Ohio. Steam road-roller.	702,851	June 17	2869	663	99	2738
Wright, Thomas, Springfield, Ohio. Steam road-roller.	703,882	July 1	932	203	100	187
Wright, Thomas W., Anderson, Ind. D-handle.	710,389	Sept. 30	4614	1041	100	2994
Wright, Wayne C., Amarillo, Tex. Stock-tank.	707,530	Aug. 19	2904	657	100	1748
Wright, Wayne C., Amarillo, Tex. Telephone system.	716,902	Dec. 23	4186	917	101	2756
Wright, William, New York, N. Y. Stamp-affixing device.	693,480	Feb. 18	2338	524	98	1359
Wright, William, New York, N. Y. Carbureter.	712,169	Oct. 28	3433	751	101	757
Wright, William, assignor, by mesne assignments, to M. E. Wright, Brooklyn, N. Y. Valve for steam-engines.	708,750	Sept. 9	1360	310	100	2271
Wright, William, Allegheny, assignor to McConway & Torley Company, Pittsburg, Pa. Draft and buffing mechanism for cars.	710,929	Oct. 7	997	219	101	203
Wright, William, assignor to McConway & Torley Company, Pittsburg, Pa. Coupling for tenders, &c.	715,728	Dec. 9	2039	456	101	2271
Wright, William C., Hopedale, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Molding apparatus.	703,034	June 24	3231	743	99	2837
Wright, William H. (See Robertson and Wright.)						
Wright, William H., Buffalo, N. Y. Third-rail system or magneto-electric railway.	703,361	June 24	3845	885	99	2954
Wright, William H., Cadiz, Ohio. Gate.	707,068	Aug. 26	3209	720	100	1838
Wright, William J. (See Sterba and Wright.)						
Wright, William J., assignor to J. S. Scully, Pittsburg, Pa. Woven-wire bag.	692,404	Feb. 4	322	78	98	866
Wright, William J., assignor to J. S. Scully, Pittsburg, Pa. Woven-wire bag.	692,405	Feb. 4	323	78	98	867
Wright, William J., assignor to J. S. Scully, Pittsburg, Pa. Woven-wire bag.	692,406	Feb. 4	324	79	98	867
Wright, William J., assignor to J. S. Scully, Pittsburg, Pa. Weaving wire.	692,407	Feb. 4	325	79	98	867
Wright, William J., assignor to J. S. Scully, Pittsburg, Pa. Apparatus for weaving wire.	692,408	Feb. 4	327	79	98	867
Wright, William J., assignor to J. S. Scully, Pittsburg, Pa. Wire-weaving machine.	711,809	Oct. 21	2725	603	101	598
Wright, William J., assignor to J. S. Scully, Pittsburg, Pa. Wire-weaving machine.	711,810	Oct. 21	2727	604	101	598
Wright, William J., assignor to J. S. Scully, Pittsburg, Pa. Wire-weaving machine.	713,369	Nov. 11	1766	397	101	1276
Wright, William J., assignor to J. S. Scully, Pittsburg, Pa. Wire-weaving machine.	714,088	Nov. 18	3151	698	101	1581
Wright, William J., assignor of three-sixteenths to J. W. Lee and F. J. Galloway, Pittsburg, Pa. Rod and tube elevating and pumping apparatus for oil-wells.	713,269	Nov. 11	1549	355	101	1229
Wright, William J., assignor of three-sixteenths to J. W. Lee and F. J. Galloway, Pittsburg, Pa. Reversible clutch mechanism.	715,727	Dec. 9	2037	456	101	2271
Wright, William J., assignor of thirteen thirty-seconds to J. F. McKibben, J. W. Lee, and F. J. Galloway, Pittsburg, Pa. Gas-engine.	711,454	Oct. 14	2030	440	101	437
Wright, William T. (See Warr and Wright.)						
Wrightson, Thomas, Westminster, and J. Morison, Cramlington Colliery, England. Direct-acting engine.	698,094	Apr. 22	3191	698	99	727



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Wrightson, William P., Highbury, England. Rotary color-printing machine .....	699,361	May 6	440	101	99	1264
Writt, John T., Pittsburg, Pa. Combination step-ladder and bench .....	708,290	Sept. 2	547	124	100	2062
Wrobel, Ignatz, Gross Duingen, Germany. Road-breaking machine .....	705,889	July 29	4950	1077	100	1061
Wroe, Hiram A., Austin, Tex. Snap .....	691,690	Jan. 21	2497	559	98	535
Wuerth, John C., St. Louis, Mo. Street-indicator for street-cars .....	697,308	Apr. 8	1724	385	96	387
Wuest, Adam, Jr., Cincinnati, Ohio. Mattress-filling machine .....	715,460	Dec. 9	1515	328	101	2164
Wuest, Frederick, Lawrenceburg, Ind. Window shade or curtain hanger .....	693,525	Mar. 18	2317	502	98	2213
Wuhrmann, Emil, Zurich, Switzerland. Wood-cutting machine .....	691,428	Jan. 21	2018	451	98	455
Wulff, Frank, Colusa, Cal. Screw-joint fastener for drill-rods, &c. ....	694,514	Mar. 4	334	74	98	1783
Wulkan, Heinrich, Slanie, Austria-Hungary. Obtaining starch and zein .....	696,156	Mar. 25	3439		98	2478
Wullen, Charles. (See Wullen, George F., assignor.) .....						
Wullen, George F., assignor to C. Wullen, Buffalo, N. Y. Upholstered furniture .....	696,293	Mar. 25	3687	825	98	2529
Wulze, Adolph, Charlottenburg, Germany. Packing powdery substances .....	704,728	July 15	2527	546	100	543
Wunder, Frank A., (See Crossley, Samuel G., assignor.) .....						
Wunner, Karl, Regensburg, Germany. Auxiliary hand-operated driving mechanism for bicycles .....	704,284	July 8	1717	374	100	361
Wurm, Alexius, West Hoboken, N. J. Adjustable holder for brushes or brooms. ....	714,089	Nov. 18	3154	699	101	1582
Wurschmidt, Jacob, Roseau, Minn. Folding rule or straight-edge .....	715,925	Dec. 16	2470	544	101	2384
Wurster, Casimir, London, England. Hopper for refining-engines .....	690,504	Jan. 7	270	54	98	59
Wurster, Casimir, London, England. Machine for tearing up paper, paper-pulp, and paper-stock .....	690,505	Jan. 7	270	54	98	59
Wurster, Casimir, London, England. Pulping-machine .....	690,506	Jan. 7	271	55	98	59
Wurster, Casimir, London, England. Sizing paper .....	695,778	Mar. 18	2685		98	2908
Wurts, Alexander J., assignor to G. Westinghouse, Pittsburg, Pa. Electric lamp .....	716,974	Dec. 30	4636	1005	101	2877
Wuthe, August, Berlin, Germany. Railway-coupling .....	697,124	Apr. 8	1395	310	99	316
Wyatt, Ulysses V., Marlow, Ind. Ter. Parachute-kite .....	700,281	May 20	2285	522	99	1673
Wyborne, Charles R., Petersburg, Va. Peanut-harvester .....	701,523	June 3	440	99	99	2199
Wyckoff, Clarence F., et al. (See Hobart, James F., assignor.) .....						
Wyckoff, Homer W., Chicago, Ill. Wire-connector .....	693,206	Feb. 11	1887	408	98	1210
Wyckoff, Seamans & Benedict. (See Barron, Walter J., assignor.) .....						
Wyckoff, Seamans & Benedict. (See Bennett, Emmet M., assignor.) .....						
Wyckoff, Seamans & Benedict. (See Bullard, Royal M., assignor.) .....						
Wyckoff, Seamans & Benedict. (See Cram, Edwin B., assignor.) .....						
Wyckoff, Seamans & Benedict. (See Shepard, Charles H., assignor.) .....						
Wyckoff, Seamans & Benedict. (See Webb, George B., assignor.) .....						
Wyckoff, Seamans & Benedict. (See Weir, Max W., assignor.) .....						
Wyckoff, Seamans & Benedict. (See Wilson, Howard B., assignor.) .....						
Wyczynski, Josef, Truskaviec, near Drohobycz, Austria-Hungary. Centering and guiding device for deep-boring apparatus with eccentric boring-tools .....	712,887	Nov. 4	795	184	101	1060
Wygant, Victor E., Creola, Iowa. Woodworking-tool .....	712,448	Oct. 28	3935	861	101	864
Wylie, Max, et al. (See Barry, John, assignor.) .....						
Wylie, James, Chattanooga, Tenn. Stovepipe .....	714,629	Nov. 25	4194	927	101	1809
Wylie, Marshal B., Paris, Ark. Mining-machine .....	700,466	May 20	2651	607	99	1752
Wylie, William N., (See Sweeney, James P. and T. W., assignors.) .....						
Wyman, Adolphus F., New Bedford, Mass. Coaster-brake for bicycles .....	691,691	Jan. 21	2498	559	98	555
Wyman, Albert O., Turners Falls, assignor of one-half to C. L. Glynn, Boston, Mass. Oiling device .....	708,448	Sept. 2	801	182	100	214
Wyman, Charles H., (See Mason, William J., assignor.) .....						
Wyman, George R., assignor to F. W. Bird & Son, East Walpole, Mass. Machine for uniting the end flaps of paper boxes .....	710,930	Oct. 7	999	221	101	203
Wyman, Horace, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop-motion for looms .....	694,083	Feb. 25	3571	789	98	1595
Wyman, Horace, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Mechanical warp stop-motion for looms .....	702,609	June 17	2424	553	99	2644
Wyman, Horace, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop-motion for looms .....	714,090	Nov. 18	3156	699	101	1582
Wyman, Horace, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Clutch mechanism .....	714,990	Dec. 2	687	143	101	1973
Wyman, Horace, and A. A. Gordon, Jr., assignors to Crompton & Knowles Loom Works, Worcester, Mass. Multiplier mechanism for looms .....	700,999	May 27	3674	848	99	1980
Wyman, Horace, and J. A. Clark, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Loom for weaving tufted fabrics .....	712,888	Nov. 4	797	185	101	1061
Wyman, Horace B., Leominster, Mass. Governor-valve for steam-engines .....	710,729	Oct. 7	634	132	101	129
Wyman, Horace B., Leominster, Mass., assignor to Oil Saving Manufacturing Company, Portland, Me. Oil-filter .....	691,835	Jan. 28	2796	628	98	634
Wyman, Horace W., (See Daniels and Wyman.) .....						
Wyman, Jasper. (See Foster, Albion W., assignor.) .....						
Wyman, William F., assignor to A. M. Weber, Oshkosh, Wis. Skirt-protector .....	698,238	Apr. 22	3479	765	99	786
Wynkoop, Jehiel F., Minneapolis, Minn. Chocolate-cutter .....	713,207	Nov. 11	1551	350	101	1230
Wynn, John P., Beechcreek, assignor of one-half to J. A. Bickford and T. M. Stevenson, Lockhaven, Pa. Device for emptying clay-pans .....	694,903	Mar. 4	1087	239	98	1942
Wynn, John R., (See Wynn, Prentice F., assignor.) .....						
Wynn, Prentice F., assignor of one-half to J. R. Wynn, Marietta, Ohio. Step-ladder .....	714,849	Dec. 2	417	88	101	1918
Wyse, Roddy W., et al. (See Siebenhaar, Otto W., assignor.) .....						
Wyssbrod, E. V., (See Logan, James M., assignor.) .....						
Yevers, Zachariah, Santa Cruz, Cal. Stock or poultry feeding device .....	701,121	May 27	3908	888	99	2082
Xpedite Machine Company. (See Beckwith and Pease, assignors.) .....						
Yager, Frederick W. R., Chicago, Ill. Machine for making metal binding-strips .....	696,784	Apr. 1	740	167	99	158
Yager, Newton T., Louisville, Ky. Dental instrument .....	692,582	Feb. 4	647	152	98	931
Yahn, Frederick, Paterson, N. J. Shade-bracket .....	706,287	Aug. 5	574	124	100	1232
Yale, Charles A., assignor to Yale Wonder Clock Company, Burlington, Vt. Vending mechanism for coin-controlled apparatus .....	692,964	Feb. 11	1379	299	98	1109
Yale, Charles A., assignor to Yale Wonder Clock Company, Burlington, Vt. Motor for coin-controlled apparatus .....	692,965	Feb. 11	1381	300	98	1109
Yale, Charles A., assignor to Yale Wonder Clock Company, Burlington, Vt. Contact-disk for coin-controlled apparatus .....	692,966	Feb. 11	1384	300	98	1110
Yale, Rodney H., Beatrice, Nebr. Apparatus for converting rotary into reciprocating motion .....	701,982	June 10	1253	285	99	2384
Yale, Rodney H., Beatrice, Nebr. Stroke-regulator .....	701,983	June 10	1255	285	99	2385
Yale, Rodney H., Beatrice, Nebr. Pump .....	709,288	Sept. 16	2468	556	100	2520

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Yale & Towne Manufacturing Company. (See Fletcher, James R., assignor.)						
Yale & Towne Manufacturing Company. (See Mix, Edward H., assignor.)						
Yale & Towne Manufacturing Company. (See Taylor, Warren H., assignor.)						
Yale Wonder Clock Company. (See Yale, Charles A., assignor.)						
Yancey, Arthur, assignor to Yancey Generator Co., New Orleans, La. Acetylene-gas generator	698,425	Apr. 22	3795	888	99	853
Yancey, Christopher C., assignor of two-thirds to P. Steffen and F. J. Hatz, Yankton, S. D. Coin-controlled muscle-tester	694,226	Feb. 23	3832	849	98	1646
Yancey Generator Co. (See Yancey, Arthur, assignor.)						
Yarini, Cirilo A., Havana, Cuba. Toothpick-holder	696,785	Apr. 1	742	169	99	159
Yarnall, Vernon H., New York, N. Y. Conduit	695,594	Mar. 18	2368	537	98	2244
Yarrington, Ella M., Ithaca, and T. Hall, Brooklyn, N. Y. Stocking-supporter	699,940	May 13	1588	363	99	1516
Yaryan Company. (See Ordway, Charles, assignor.)						
Yates, Charles A., et al. (See Hutchinson, John A., assignor.)						
Yates, Harry B., Slater, Mo. Adjustable thread-cutting tool	705,809	July 29	4891	1044	100	1083
Yates, Odaville, Portland, Oreg. Show-case	715,926	Dec. 16	2472	544	101	2384
Yates, Robert. (See Miller and Yates.)						
Yates, Thomas J., Salem, Mass. Pipe-vice	713,189	Nov. 11	1377	310	101	1196
Yates, William H. (See Campbell and Yates.)						
Yawman & Erbe Manufacturing Company. (See Scarritt, Charles W., assignor.)						
Yawman & Erbe Manufacturing Company. (See Yawman, Philip H., assignor.)						
Yawman, Philip H., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Roller copying-press	701,447	June 3	288	64	99	2167
Yawman, Philip H., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Bill-file	701,448	June 3	291	65	99	2168
Yawman, Philip H., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Filing-cabinet	701,449	June 3	292	65	99	2168
Yawman, Philip H., assignor to Yawman & Erbe Mfg. Co., Rochester, N. Y. Clip	702,523	June 17	2252	513	99	2610
Yawman, Philip H., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. File or drawer for card-indexes	717,490	Dec. 30	5601	1216	101	3081
Yaxley, Ernest E., Chicago, Ill. Magneto-bell ringer	697,698	Apr. 15	2459	548	99	551
Yaxley, Ernest E., assignor to American Electric Telephone Company, Chicago, Ill. Combined lightning-arrester and binding-post	701,122	May 27	3910	899	99	2073
Yaxley, Ernest E., assignor to American Electric Telephone Company, Chicago, Ill. Telephone	713,829	Nov. 18	2634	587	101	1431
Ycre, Baptiste, New York, N. Y. Mold for making French rolls	714,550	Nov. 25	4042	894	101	1779
Yeager, Herbert W. (See Brown and Yeager.)						
Yeakel, George P., Norristown, Pa. Spike-setting machine	703,883	July 1	934	204	100	187
Yeakle, James B., Baltimore, Md. Watchman's time-recorder and signal	696,619	Apr. 1	410	95	99	90
Yeakley, Melvin A., Cleveland, Ohio, assignor to Williams, White & Co., Moline, Ill. Pneumatic hammer	693,939	Feb. 25	3280	722	98	1536
Yearell, George. (See Boyd and Yearnell.)						
Yeards, Isaac, Crawford, Nebr. Stirrup	700,881	May 27	3463	795	99	1959
Yearout, James A., assignor of one-half to F. D. Miles, Lyndon, Kans. Insect-destroyer	712,889	Nov. 4	801	186	101	1061
Yearsley, Henry, Eccles, near Manchester, England. Artificial limb	701,450	June 3	295	66	99	2169
Yearwood, Bird O., assignor of one-half to E. Schaefer, Toccoa, Ga. Car-coupling	708,690	Sept. 9	1244	285	100	2244
Yege, Pierre E. (See Lamure and Yege.)						
Yeiser, Henry C., et al. (See Roach, William G. and A. C., assignors.)						
Yenner, Mary A., Chicago, Ill. Pillow-sham holder	701,984	June 10	1257	286	99	2385
Yeomans, Lucien I., Walworth, N. Y., assignor to Goodell Company, Antrim, N. H. Feeding apparatus for fruit-parers	710,390	Sept. 30	4616	1041	100	2964
Yerby, Ross B., Brooklyn, N. Y. Closure device for bottles or similar vessels	711,146	Oct. 14	1433	310	101	318
Yerby, Ross B., Brooklyn, N. Y. Closure device for bottles or similar vessels	717,491	Dec. 30	5603	1216	101	3082
Yetman, Charles E., Oakpark, Ill. Telegraphic transmitter	692,967	Feb. 11	1285	302	98	1110
Yochum, Raymond A., Pittsburg, Pa. Cuspidor	703,884	July 1	935	204	100	188
Yocom, John R. (See Whitley and Yocom.)						
Yoder, Levi D., Dublin, Pa. Weeder	701,451	June 3	296	66	99	2169
Yoe, Philip, Dayton, Ohio, assignor, by mesne assignments, to National Cash Register Company, Jersey City, N. J. Cash-register	708,449	Sept. 2	802	182	100	2143
Yoerger, George, Brooklyn, N. Y. Punching-bag apparatus	716,163	Dec. 16	2927	644	101	2478
Yoho, John F., Seattle, Wash. Water-heater	717,492	Dec. 30	5605	1216	101	3083
Yon, Philip, and L. Laprise, North Adams, Mass. Alarm for refrigerator-pans	705,990	July 29	5128	1118	100	1098
Yonge, Chandler L., assignor of two-thirds to J. C. Griswell and T. Lesley, Tampa, Fla. Bench-vice	693,811	Feb. 18	3910	666	98	1465
Yost, Charles W. (See York, Sylvester S., assignor.)	709,729	Sept. 23	3327	749	100	2712
York, Charles W. (See York, Sylvester S., assignor.)						
York, James E., Brooklyn, N. Y. Railway-tie	714,270	Nov. 25	3538	778	101	1680
York, Sylvester S., Portland, Me., assignor of one-half to C. W. York, East Boston, Mass. Boat	713,830	Nov. 18	2637	588	101	1472
York, Thomas, Portsmouth, Ohio. Boiler-furnace	705,508	July 22	4188	911	100	895
Yost, Charles H., Jr. (See Binder, Gottlieb, assignor.)						
Yost, Frank, Lorain, Ohio. Saw-spacing device	708,450	Sept. 2	809	185	100	2145
Yost-Miller Company. (See Dixon, Laurens F., assignor.)						
Yost-Miller Company. (See Kenney, Owen E., assignor.)						
Yost Typewriter Company. (See Challenger, Joseph, assignor.)						
Youtlen, William, Westminster, England. Sighting device for firearms	694,904	Mar. 4	1068	240	98	1942
Youmans, John H., East Troy, Pa. Garment-stretcher	700,595	May 20	2882	662	99	1800
Young, Alfred C. (See Young, James H., assignor.)						
Young, Caroline. (See Johnson, Abraham N., assignor.)						
Young, Charles, Chicago, Ill. Detachable handle for caskets, boxes, &c	707,669	Aug. 26	3210	720	100	1828
Young, Charles, York, Me. Saw-setting machine	712,229	Oct. 28	3534	774	101	778
Young, Charles A., Enon, Ohio. Magazine-firearm	709,385	Sept. 16	2668	599	100	2563
Young, Charles W. (See Olora, Morris, assignor.)						
Young, Elmer C., assignor of one-half to H. Pike, Libertyville, Ill. Lid-holder for cigar-boxes	710,549	Oct. 7	301	66	101	60
Young, Francis L., London, England, assignor to Aeolian Company, New York, N. Y. Controller for mechanical musical instruments	692,968	Feb. 11	1391	302	98	1111
Young, Francis L., London, England, assignor to Aeolian Company, New York, N. Y. Device for marking perforated music-sheets with a line indicating an effect to be produced	692,969	Feb. 11	1392	302	98	1111
Young, Frank S., Norristown, and W. W. Ueberroth, South Bethlehem, assignors of one-fourth to H. De Huff, Philadelphia, Pa. Filter	706,370	Aug. 5	729	158	100	1273



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Young, Frank W., <i>et al.</i> (See Weaner, Cornelius, assignor.)						
Young, Franklin K., <i>et al.</i> , trustees. (See Weitz, George G., assignor.)						
Young, Franklin K., Boston, Mass. Firearm	691,040	Jan. 14	1277	289 290	98	282
Young, Freeman N. (See Thompson and Young.)						
Young, George R., Ridgewood, N. J., and C. Shaw, New York, N. Y., assignors to Bacon Air Lift Company. Apparatus for raising water	704,608	July 15	2321	504	100	500
Young, George W. (See Schlesinger and Young.)						
Young, James A., assignor to C. Doersch, trustee, Nyack, N. Y. Ammonia-generator	709,846	Sept. 23	3563	803	100	2761
Young, James H., trustee. (See Moskowitz, Morris, assignor.)						
Young, James H., Pensauken, N. J., assignor to A. C. Young, Philadelphia, Pa. Meridian attachment for solar transits	709,289	Sept. 16	2470	557	100	2520
Young, James L., Memphis, Tenn. Wrench	714,768	Dec. 2	290	46	101	1884
Young, Jesse H., Fort Wayne, Ind. Compound for cleaning and soldering metals	712,230	Oct. 28	3539		101	755
Young, John A., <i>et al.</i> (See Packard, Alonzo C., assignor.)						
Young, John F. (See Wells and Young.)						
Young, John H. V., and R. W. Barr, Akron, Ohio. Tramway-switch	698,239	Apr. 22	3490	765	99	787
Young, John N., Alameda, Cal. Heating apparatus	701,241	May 27	4115	947	99	3074
Young, Joseph P., Monmouth, Ill. Fastener for jar-covers	700,882	May 27	3464	795	99	1939
Young, Josiah L., New York, N. Y. Door	712,449	Oct. 28	3938	861	101	864
Young, L. F., <i>et al.</i> (See Turner and Mitchell, assignors.)						
Young, McClintock, assignor to Young and Robinson, Frederick, Md. Hackling-machine	696,127	Mar. 25	3364	759	98	2464
Young, McClintock, Frederick, Md., assignor to Palmetto Fibre Company. Work-holding device for boring-machines	700,000	May 13	1688	388	99	1535
Young, McClintock, Frederick, Md., assignor to Palmetto Fibre Company. Broom, &c	706,144	Aug. 5	280	58	100	1174
Young, McClintock, Frederick, Md., assignor to Palmetto Fibre Company. Broom or analogous instrument	713,549	Nov. 11	2113	473	101	1347
Young, Philip K., Omaha, Nebr. Horse-hitcher	705,810	July 29	4810	1044	100	1093
Young, Richard L., assignor of one-half to T. J. Price, Milwaukee, Wis. Sparking igniter for explosive-engines	699,433	May 6	536	133	99	1296
Young, Robert, Tacoma, Wash. Hot-blast stove	715,188	Dec. 2	1028	222	101	2046
Young, Robert J., Philadelphia, Pa. Machine for shredding and grinding leather	697,228	Apr. 8	1581	353	99	855
Young and Robinson. (See Young, McClintock, assignor.)						
Young, Stephen, Glasgow, Scotland. Drawing-off tap for aerated liquids	701,452	June 3	237	66	99	2169
Young, Terry D., Memphis, Tenn. Automatic street-sprinkling device	706,280	Aug. 5	576	125	100	1322
Young, Thomas H., Lincoln, Ill. Storm-hood attachment for locks	696,620	Apr. 1	412	95, 96	99	90
Young, Thomas S., Fossil, Oreg. Singletree-hook	697,329	Apr. 15	2863	632	99	1111
Young, Walter D., Baltimore, Md. Rail chair and insulator	697,930	Apr. 15	2869	638	99	640
Young, Walter D., Baltimore, Md., assignor to National Safety Third Rail Company, New York, N. Y. Rail chair and insulator	715,329	Dec. 9	1299	278	101	2122
Young, William H. (See Woody, Danley, and Young.)						
Young, William H., Athens, Ga. Type-writer	703,689	July 1	586	1120 1131	100	116
Young, William H., Athens, Ga. Commode-stool	703,690	July 1	591	131	100	117
Young, William P., Woonsocket, R. I., assignor to American Knitting Machine Company, Philadelphia, Pa. Yarn-changing mechanism for circular-knitting machines	694,515	Mar. 4	335	74, 75	98	1788
Young, William P., Woonsocket, R. I., assignor to American Knitting Machine Company, Philadelphia, Pa. Stripping attachment for circular-knitting machines	713,370	Nov. 11	1769	398	101	1276
Young, William R., Brooklyn, N. Y. Rock-crusher	693,580	Feb. 18	2555	574	98	1378
Young, William R., Milwaukee, Wis. Toy bank	697,309	Apr. 8	1726	385	99	387
Young, William S., Chicago, Ill. Garbage-can	712,170	Oct. 28	3435	752	101	758
Young, Willis G., Dayton, Ohio. Securing device for boxes, &c	709,386	Sept. 16	2672	600	100	2554
Youngblood, Amos, North Augusta, S. C. Operating railway-switches	697,591	Apr. 15	2246	501	99	509
Youngblood, David F., San Antonio, Tex. Hammock-support	714,348	Nov. 25	3678	810	101	1707
Youngblood, David F., San Antonio, Tex. Lining for cells, vaults, or the like	714,349	Nov. 25	3679	811	101	1707
Youngblood, David F., San Antonio, Tex. Interlocking-bar grating for jails	714,350	Nov. 25	3681	811	101	1707
Youngblood, James A., Troy, Ala. Portable jail or cage	715,927	Dec. 16	2473	545	101	2394
Younghusband, Samuel S., Darlington, England. Slide-valve gear for engines	692,069	Jan. 28	3275	740	98	729
Younghusband, Samuel S., Darlington, England. Slide-valve gear	702,885	July 1	936	205	100	111
Younglove, Thomas J., Richmond, Va. Column-step	697,310	Apr. 8	1727	385	99	387
Youngwitz, Gabriel, New York, N. Y. Imitation leather	715,928	Dec. 16	2475		101	2395
Youse, Christian J., Jr., J. E., and L. A., Baltimore, Md. Portable toy fence	706,288	Aug. 5	575	124	100	1332
Youse, John E. (See Youse, Christian J., Jr., J. E., and L. A.)						
Youse, Louis A. (See Youse, Christian J., Jr., J. E., and L. A.)						
Youtes, Mont D., <i>et al.</i> (See McPherson, Frank G., assignor.)						
Yuille, William, Mobile, Ala. Non-refillable bottle	712,990	Nov. 4	984	230	101	1096
Yuknis, Joseph. (See Stankewicz, Yuknis, and Mauriacs.)						
Yundt, Samuel G., and W. J. Nolen, Milwaukee, Wis. Stereotype-plate holder	694,905	Mar. 4	1091	241	98	1948
Yurgae, Otto P., and R. H., assignors, by mesne assignments, to Signalphone Company, Milwaukee, Wis. Combined electric signal and telephone system. (Reissue.)	12,056	Nov. 18	3215	710	101	1596
Yurgae, Robert H. (See Yurgae, Otto P. and R. H.) (Reissue.)						
Zabel, Bruno. (See Zabel, Charles, B., and W.)						
Zabel, Charles, B., and W., Edgewood Park, Pa. Carbon-holder for dynamo-electric machines	714,769	Dec. 2	231	46	101	1884
Zabel, William. (See Zabel, Charles, B., and W.)						
Zaehring, William, New Orleans, La. Billiard-cue	692,970	Feb. 11	1393	308	98	1112
Zaepfel, George, assignor of one-half to G. W. Henderson, Croghan, N. Y. Time-switch mechanism	705,991	July 29	5129	1118	100	1008
Zahn, Edward, and J. A. Just, Syracuse, N. Y. Purifying gas	716,803	Dec. 23	4189	918	101	2757
Zaiser, Adam F. (See Smithline and Zaiser.)						
Zaiser, Lenoir F. F., Indianapolis, Ind. Baker's stencil	701,662	June 3	696	153	99	2254
Zamborsky, Edward, West Leisering, Pa. Rail-joint	698,615	Apr. 29	4173	917	99	945
Zander, Hermann. (See Stocker and Zander.)						
Zander, John, Mortonpark, Ill. Gas-governor	691,429	Jan. 21	2019	451	98	455
Zander, William A. H., Hopkins, Minn., assignor of one-half to J. A. Ehrhardt and M. B. Myers, Stanton, Nebr. Gambrel	708,608	Sept. 9	1092	245	100	2213
Zander, William A. H., Hopkins, Minn., assignor of one-half to J. A. Ehrhardt and M. B. Myers, Stanton, Nebr. Combined grab and scraper	708,609	Sept. 9	1093	246	100	2213
Zange, Max C., New Haven, Conn. Drawing instrument	699,798	May 18	1173	273	99	1428
Zangel, Joseph, assignor of one-half to W. A. Jacobs and G. L. Sloan, Battlecreek, Mich. Non-refillable bottle	699,609	May 6	1100	212	99	1363
Zangenberg, Anton E., assignor to M. S. Newcorn, New York, N. Y. Fish-trap	690,507	Jan. 7	273	55	98	59
Zanner, Adolf, Brussels, Belgium. Apparatus for concentrating sulfuric acid	693,635	Feb. 18	2704	597	98	1402

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Zapf, George W., <i>et al.</i> (See Anderson, Frank C., assignor.)						
Zaring, Edward K., assignor of one-half to W. C. Zaring, Indianapolis, Ind. Indicator for contents of boxes	711,240	Oct. 14	1684	351	101	354
Zaring, William C. (See Zaring, Edward K., assignor.)						
Zarling, Frank, Youngstown, Ohio. Burial-tomb	712,030	Oct. 28	3171	693	101	708
Zastrow, August, Lyons, Kans. Hoisting-derrick and hoisting mechanism	693,940	Feb. 25	3284	928	98	1536
Zatzke, Daniel, Chicago, Ill. Window-frame	712,629	Nov. 4	318	74	101	964
Zaun, Emil. (See Schmitz, Joseph, assignor.)						
Zeal, Giles H., London, England. Maximum thermometer	695,262	Mar. 11	1767	391	98	2101
Zedlitz, Edward, Paige, Tex. Poison-distributor for growing plants	715,929	Dec. 16	2477	545	101	2385
Zeek, Earl M., Marion, Ind. Penholder	709,130	Sept. 16	2152	494	100	2454
Zeek, Earl M., Marion, Ind. Umbrella	709,624	Sept. 23	2471	701	100	2674
Zehringer, John W., Boston, Mass. Trap	703,631	July 1	461	105	100	91
Zeiger, Albert, Brooklyn, N. Y. Wort-cooler	717,493	Dec. 30	5666	1217	101	3083
Zeinwoldt, John A., Bodafors, Sweden. Platform rocking-chair	695,708	Mar. 18	2557	578	98	2280
Zeiser, Charles A., assignor of one-half to H. Borsch, Chicago, Ill. Lens-mount	710,550	Oct. 7	302	66	101	61
Zeisler, Sigmund. (See Novák, András, assignor.)						
Zeiss, Firm Carl. (See Abbe, Ernst, assignor.)						
Zeiss, Firm Carl. (See König, Albert, assignor.)						
Zeiss, Firm Carl. (See Näther, Oswald, assignor.)						
Zeiss, Firm Carl. (See Orth, Georg, assignor.)						
Zeiss, Firm Carl. (See Schüttanf, Richard, assignor.)						
Zeiss, Firm of Carl. (See Berger, Max, assignor.)						
Zeiss, Firm of Carl. (See Dönitz, Emil, assignor.)						
Zeiss, Firm of Carl. (See Schüttanf, Richard, assignor.)						
Zelch, Walter A., Pittsburg, Pa. Toy target and gun apparatus	714,770	Dec. 2	236	46, 47	101	1885
Zeleny, Anthony, assignor of one-half to C. E. Thayer, Minneapolis, Minn. Galvanometer	705,186	July 22	3509	761	100	761
Zeleny, Anthony, assignor of one-half to C. E. Thayer, Minneapolis, Minn. Multiplex electric thermometer	705,187	July 22	3511	762	100	762
Zelff, George W., Eyota, Minn. Mechanism for converting motion	696,786	Apr. 1	743	169	99	159
Zell, Thomas B. (See Lawrence, James P. S., assignor.)						
Zeller, Melancthon E., Leipsic, Ohio. Harness-loop	712,890	Nov. 4	304	186	101	1062
Zellers, Mahlon M., assignor to National Carbon Company, Cleveland, Ohio. Carbon-sorting machine	701,453	June 3	298	66, 67	99	2169
Zellstoffabrik Düren Hermann Maria Schoeller & Co. (See Bender, Wilhelm, assignor.)						
Zelly, John, Eaton, Ohio. Interchangeable watch movement and pendant	695,852	Mar. 18	2821	642	98	2336
Zelly, John, Eaton, Ohio. Fastening device for pins	708,610	Sept. 9	1094	246	100	2214
Zenke, Henry C., New York, N. Y. Burner	701,123	May 27	3912	899	99	2033
Zent, Benjamin F., Laud, Ind., assignor of one-half to M. W. Swineheart. Farm-fence	694,084	Feb. 25	3573	789	98	1595
Zepp, Francis E. (See Dalbert, Louis, assignor.)						
Zerbe, Aaron, Philadelphia, Pa. Device for retarding the speed of vessels	704,729	July 15	2527	546	100	544
Zerkowitz, Oskar, Bradford, England. Jacquard-card-punching machine	698,347	Apr. 22	3649	807	99	821
Zetterlund, August T., assignor of one-third to M. L. Thackaberry, Chicago, Ill. Harvesting-machine	699,277	May 6	274	63, 64	99	1230
Zevy, Henry, Cincinnati, Ohio. File and display book	697,592	Apr. 15	2948	501	99	510
Zibulski, Christine, Munich, Germany. Adjustable arm-rest	711,550	Oct. 21	2325	488	101	492
Ziegenfelder, William O. (See Van Horn, William, assignor.)	716,164	Dec. 16	2929	444	101	2478
Ziegenfuss, Elmer E., Halstead, Kans. Packing-auger	707,290	Aug. 19	2469	554	100	1658
Ziegler, Alfred M., Boston, Mass. Woven elastic fabric and making same	698,777	Apr. 29	3457	996	99	1020
Ziegler, Alfred M., Boston, Mass. Suspenders	700,883	May 27	3466	795	99	1939
Ziegler, Charles E., Parrusass, Pa. Coffee-pot	702,122	June 10	1517	342	99	2438
Ziegler, Frank P., Milwaukee, Wis. System for heating liquid or semiliquid confections	715,189	Dec. 2	1030	323	101	2046
Ziegler, George H., Philadelphia, Pa., assignor to American Type Founders' Company, Newark, N. J. Matrix-carrier for type-casting machines	691,226	Jan. 14	1594	964	98	347
Ziegler, Josef, Vienna, Austria-Hungary. Apparatus for simultaneously transmitting a number of telegraphic messages over a single wire	714,630	Nov. 25	4195	927	101	1309
Ziegler, Oscar J., assignor to Stover Manufacturing Company, Freeport, Ill. Wind-wheel	693,481	Feb. 18	2399	525	98	1340
Ziehl, Emil, assignor to Berliner Maschinenbau-Actien-Gesellschaft, vorm. L. Schwartzkopff, Berlin, Germany. Transformer for polyphase alternating currents	715,930	Dec. 16	2479	546	101	2385
Zieleyn, Antoni, Grand Rapids, Mich. Hitching-weight	704,730	July 15	2528	546	100	544
Zika, Joseph T., Cleveland, Ohio. Mitering-machine	702,043	June 10	1366	311	99	2405
Zika, Joseph T., Cleveland, Ohio. Coping-machine	702,044	June 10	1370	311	99	2406
Zilkie, John, Chicago, Ill. Toy whistle	711,090	Oct. 14	1332	288	101	289
Zilles, Hans, Mannheim, assignor to Hoffnungsthaler Papierfabrik A. & R. Geldmacher, Hoffnungsthal, Germany. Manufacture of wool-paper	693,441	Feb. 25	2287	921	98	1537
Zimmer, Frederick W., London, England. Anticoagulating device for boats	705,188	July 22	3514	762	100	762
Zimmerman, Eli, Watertown, assignor to Prentiss Vise Co., New York, N. Y. Vise	713,098	Nov. 4	1069	219	101	1114
Zimmer, Anthony, <i>et al.</i> (See Humphrey, Edwin H., assignor.)						
Zimmer, Benjamin, Milwaukee, Wis. Display-stand	711,690	Oct. 21	2493	547	101	550
Zimmer, Carl L. V., Hamburg, Germany. Manufacture of insulating or protective compounds	713,190	Nov. 11	1378	279	101	1196
Zimmer, Peter, Chicago, Ill. Fire-escape	715,330	Dec. 9	1300	279	101	2122
Zimmer, Frederick T., assignor of one-half to H. Knieriem, Cumberland, Md. Glass-fishing machine	707,045	Aug. 12	1988	446	100	1539
Zimmerman, Casper, Chicago, Ill. Street-car fender	704,166	July 8	1504	322	100	316
Zimmerman, Charles, <i>et al.</i> (See Taylor, William S., Jr., assignor.)						
Zimmerman, Ernst W., assignor of one-half to I. Campbell, York, Pa. Tobacco-pipe	712,750	Nov. 4	522	122	101	1005
Zimmerman, Gustaves. (See Faschian, Herman, assignor.)						
Zimmerman, Harry H., Barvel, Ill. Lamp-burner	704,422	July 8	1961	426	100	413
Zimmerman, John W., Chicago, Ill. Measuring-receptacle for liquids, &c	710,932	Oct. 7	1002	222	101	204
Zimmerman, Lou, <i>et al.</i> (See Taylor, William S., Jr., assignor.)						
Zimmerman, Norman B., North Tonawanda, N. Y. Cushioned bicycle-frame	703,632	July 1	463	100	100	91
Zimmermann, Albert G., and J. P. Doerr, Chicago, Ill. Building-wall	710,330	Oct. 7	893	180	101	170
Zimmermann, Alexander W., Amazonia, Mo. Hay-rake	701,663	June 3	696	154	99	2254
Zimmermann, Carl, Heidelberg, Germany. Apparatus for preventing enuresis	714,850	Dec. 2	418	88	101	1918
Zimmermann, Charles E., Syracuse, N. Y. High or low water alarm	712,630	Nov. 4	318	75	101	965
Zimmermann, Franz E., New York, N. Y. Woodworking-machine	692,583	Feb. 4	649	152	98	931
Zimmermann, Isidore and J. Brooklyn, N. Y. Spraying device	700,282	May 20	2286	522	99	1679



## Alphabetical list of patentees—Continued.

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			Spec.	Dr. G.	Vol.	Page.
Zimmermann, John E., Willowgrove, Pa., assignor to American Pulley Company. Sheet-metal jack-spool .....	715,729	Dec. 9	2040	456 457	101	2271
Zimmermann, Joseph. (See Zimmermann, Isidore and J.)						
Zimmermann, Morris L. (See Bennett and Zimmermann.)						
Zimmermann, Roberto D., Buenos Ayres, Argentina. Seeding and planting machine .....	698,778	Apr. 20	4509	996 997	99	1021
Zingg, Ella K., administratrix. (See Zingg, Herman.)						
Zingg, Herman, deceased; E. K. Zingg, Great Valley, administratrix, assignor of one-half to M. C. Fitts, Salamanca, N. Y. Paint-oil .....	694,085	Feb. 25	3575	.....	98	1595
Zinn, Albert M., Spokane, Wash. Theater appliance .....	715,730	Dec. 9	2042	457	101	2272
Zinn, George F., Cincinnati, Ohio. Dough-cutter .....	709,290	Sept. 16	2471	557	100	2321
Zirkle, Charles M., Richmond, Va. Sash-fastener .....	692,100	Jan. 28	3277	741	98	729
Zoerbler, Morris, et al. (See Shriver, Augustus F., assignor.)						
Zoder, George W., Boyce, La. Press-box .....	695,900	Mar. 25	3076	697	98	2402
Zoder, George W., and W. P. Hayne, Boyce, La. Press for oleaginous substances .....	691,430	Jan. 21	2021	452	98	456
Zoeller, Frederick. (See Zoeller, Oswald and F.)						
Zoeller, Oswald and F., Oakland, Iowa. Four-horse equalizer .....	701,454	June 3	303	67	99	2171
Zoeller, Oswald and F., Oakland, Iowa. Four-horse equalizer .....	705,189	July 22	3515	762	100	762
Zoeller, Theodore J., Nashville, Tenn. Electric signaling and circuit-controlling apparatus .....	693,901	Mar. 25	3076	697	98	2402
Zoelly, Heinrich, Zurich, Switzerland. Steam or gas turbine .....	705,890	July 29	4951	1077	100	1062
Zoerb, Elizabeth. (See Zoerb and Hesse, assignors.)						
Zoerb, William, and J. J. Hesse, assignors, by mesne assignments, to E. Zoerb, Boston, Mass. Eyeglass-case .....	702,524	June 17	2253	513	99	2610
Zorsch, Charles R., Brighton, N. Y. Slicing-machine .....	702,852	June 17	2871	663	99	3738
Zottman, William, Burlington, Vt. Extension-ladder .....	713,550	Nov. 11	2114	474	101	1847
Zsigmondy, Richard, Jena, Germany. Composition for ruby glass .....	709,512	July 1	249	.....	100	50
Zucker & Levett & Loeb Company. (See Haas, Harry L., assignor.)						
Zucker, Otto, Loschwitz, near Dresden, Germany. Cutting-machine .....	691,883	Jan. 28	2873	647	98	650
Zuckerschwerdt, Sylvester, Stassfurt, Germany. Treatment of refractory bricks .....	707,670	Aug. 26	3211	.....	100	1829
Zuckerschwerdt, Sylvester, Leopoldshall, Germany. Producing cyanate of potassium .....	709,570	Sept. 23	3060	.....	100	2657
Zühl, Ernst, Berlin, Germany. Pyroxylin compound .....	700,884	May 27	3468	.....	99	1699
Zuidewind, Klaas, and A. Van Putten, Holland, Mich. Device for topping beets .....	700,885	May 27	3468	.....	99	1699
Zulauf, Jacob C. (See Allen, James G., assignor.)	701,664	June 3	698	154	99	2254
Zumpe, William A. (See Crabb, James N., assignor.)						
Zura, Josef, Berlin, Germany. Rotary engine .....	710,730	Oct. 7	636	132	101	130
Zura, Josef B., Berlin, Germany. Mechanism for admitting or shutting off steam for rotary motors .....	691,041	Jan. 14	1280	290	98	282
Zwart, Albert J., Chicago, Ill. Metallic packing .....	706,290	Aug. 5	579	125 126	100	1233
Zweck, John L., Chicago, Ill. Photographic flash-light lamp .....	690,508	Jan. 7	274	55	98	60
Zweigbergk, Thorsten von, Preston, England. Controlling system .....	691,692	Jan. 21	2409	550 560	98	555
Zweigbergk, Thorsten von, Preston, England. Spark-interrupter .....	691,693	Jan. 21	2504	560 561	98	557
Zweigbergk, Thorsten von, Preston, England. Controller .....	701,455	June 3	305	68	99	2172
Zweigbergk, Thorsten von, Preston, England. Controller .....	701,456	June 3	310	69	99	2173
Zwermann, Carl H., Baltimore, Md. Enamel-sifting apparatus .....	707,490	Aug. 19	2825	639	100	1732
Zwerner, John M., Marysville, Ohio. Lifting and carrying device .....	698,616	Apr. 29	4174	918	99	945
Zwickel, Conrad, and L. P. Grunbaum, Boise, Idaho; said Zwickel assignor to said Grunbaum. Non-removable bung .....	691,227	Jan. 14	1595	364	98	348
Zwicker, August, Rusk, Tex. Knife .....	694,814	Mar. 4	912	204	98	1905
Zwicker, August, Rusk, Tex. Combination rake and fork .....	705,098	July 15	3133	677	100	668
Zwicker, August, Rusk, Tex. Vehicle-jack .....	709,730	Sept. 23	3327	749	100	2712
Zweibel, Josef, Neu-Ulm, Germany. Bathing-tub for dipolar galvanic baths .....	710,933	Oct. 7	1065	222	101	205
Zwing, Elmer M., Philadelphia, Pa. Trolley-catcher .....	715,190	Dec. 2	1064	223	101	2048
Zwoyer, Rolland A., Portsmouth, R. I. Conveyor .....	699,278	May 6	277	64	99	1230

# ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

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Abramson, Herbert J. Rockford, Ill. Sewing-machine table	36,003	Aug. 12	100	1554
Adler, Emanuel B., assignor to H. Adler, Pittsburg, Pa. Gas-stove front	36,077	Sept. 16	100	2597
Adler, Henry. (See Adler, Emanuel B., assignor.)				
Adler, William J., Atlantic City, N. J. Watch-fob	36,136	Nov. 11	101	1360
Ahrenfeldt, Charles J., New York, N. Y. Plate or similar article	35,781	Mar. 4	98	1956
Ahrenfeldt, Charles J., New York, N. Y. Plate or similar article	35,799	Mar. 11	98	2160
Aizenman, Raphael, assignor to R. Aizenman, New York, N. Y. Stand for photograph-albums	36,028	Aug. 26	100	1966
Aizenman, Rosa. (See Aizenman, Raphael, assignor.)				
Alexander, Jesse H., Williamstown, Mo. Rein-guide for harness	35,896	May 6	99	1377
Alexander Smith & Sons Carpet Company. (See Vredenburg, John S., assignor.)				
Altman, Henry J., New York, N. Y. Playing-card box	35,750	Feb. 18	98	1473
American Silver Company. (See Large, Samuel J., assignor.)				
American Type Founders' Company. (See Barth, Henry, assignor.)				
American Type Founders' Company. (See Hilenburg, Herman, assignor.)				
American Type Founders' Company. (See Phinney, Joseph W., assignor.)				
Anderson, William C., Chicago, Ill., assignor to Libbey Glass Company, Toledo, Ohio. Glass dish	35,830	Apr. 1	99	215
Andrus, Newton H., Nebraska City, Nebr. Handle for spoons or similar articles	36,095	Oct. 7	101	207
Angelus Prayer Clock Concern. (See Tietgens, Paul, assignor.)				
Apple, Vincent G., Dayton, Ohio. Case for dynamo-electric machines	35,619	Jan. 28	98	778
Aronson, Louis V., Newark, N. J. Clock-case	35,796	Mar. 11	98	2160
Aronson, Louis V., Newark, N. J. Clock-case	35,797	Mar. 11	98	2160
Aronson, Louis V., Newark, N. J. Clock-case	35,798	Mar. 11	98	2160
Aronson, Louis V., Newark, N. J. Clock-case	35,817	Mar. 18	98	2354
Aronson, Louis V., Newark, N. J. Statuette	36,135	Nov. 11	101	1360
Aronson, Louis V., assignor to Art Metal Works, Newark, N. J. Clock-case	36,084	Sept. 30	100	3002
Art Metal Works. (See Aronson, Louis V., assignor.)				
Art Stove Company. (See Robinson, William V., assignor.)				
Atherton, Abel T., Bayside, E. I. Grid-bar for cotton openers and lappers	35,719	Feb. 11	98	1272
Auer, George, Toledo, Ohio. Side-wall register	35,789	Mar. 4	98	1958
Auer, George, Toledo, Ohio. Side-wall register	35,790	Mar. 4	98	1958
Ayvad, Hachig A., Hoboken, N. J. Life preserver body	35,550	Jan. 7	98	215
Babbitt, Seth W., Meriden, Conn. Metal ornament for silver or plated ware	35,998	Aug. 12	100	1553
Bailey, Charles A., assignor to J. and E. Stevens Co., Cromwell, Conn. Toy stove	36,081	Sept. 23	100	2765
Bailey, Charles J., Newton, Mass. Massage-roller	35,655	Feb. 4	98	1014
Bailey, Joseph T., Philadelphia, Pa. Badge	36,042	Sept. 9	100	2371
Baker, James H., Allegheny, Pa. Brake-rod end	35,622	Jan. 28	98	779
Baker, Stephen D., assignor to Peck Bros. & Co., New Haven, Conn. Siphon-jet slop-sink	35,801	Mar. 11	98	2161
Baker, Stephen D., assignor to Peck Bros. & Co., New Haven, Conn. Siphon-jet slop-sink	35,802	Mar. 11	98	2161
Baker, Stephen D., assignor to Peck Bros. & Co., New Haven, Conn. Siphon-jet slop-sink	35,803	Mar. 11	98	2161
Ball, Bert, St. Louis, Mo. Handle for spoons or similar articles	35,882	Apr. 29	99	1161
Barbour, Samuel L. (See Goetze, Emil, assignor.)				
Barcalo, Edward J., Buffalo, N. Y. Frame for bed ends	35,727	Feb. 11	98	1273
Barnes, Gustave A. (See Nadall and Barnes.)				
Baron, Albert L., Brooklyn, assignor to Central Lighting Company, New York, N. Y. Lamp-body	36,085	Sept. 30	100	3002
Baron, Albert L., Brooklyn, assignor to Central Lighting Company, New York, N. Y. Lamp-body	36,109	Oct. 14	101	440
Baron, Albert L., Brooklyn, assignor to Central Lighting Company, New York, N. Y. Lamp-body	36,110	Oct. 14	101	440
Baron, Albert L., Brooklyn, assignor to Central Lighting Company, New York, N. Y. Lamp-body	36,125	Oct. 28	101	877
Barth, Henry, Cincinnati, Ohio, assignor to American Type Founders' Company, New York, N. Y. Font of border-type	35,966	June 24	99	2957
Barth, Henry, Cincinnati, Ohio, assignor to American Type Founders' Company, New York, N. Y. Font of border-type	35,967	June 24	99	2957
Bartholomew, Lillian A., New York, N. Y. Post-stal-pincushion	35,981	July 22	100	925
Beck, George, Eldred, assignor to Enterprise Gas Stove Manufacturing Company, New York, N. Y. Radiator-top	35,628	Jan. 28	98	780
Becker, Andreas, Vailsburg, assignor to Bracher, Becker & Barnett, Newark, N. J. Ring	36,009	Aug. 19	100	1752
Belko, Frederick W., Model City, N. Y. Frame for fruit-parers	35,559	Jan. 7	98	217
Bender, Theodore, assignor to Roger Williams Silver Company, Incorporated, Providence, R. I. Handle for spoons, forks, or similar articles	35,982	July 29	99	1108
Benedict, Michael, New York, N. Y. Case for coin-controlled mechanism	36,067	Sept. 30	100	3002
Bennett, Charles A., Taunton, Mass. Handle for spoons, forks, or similar articles	35,555	Jan. 7	98	216
Bennett, Charles A., assignor to Reed and Barton Corporation, Taunton, Mass. Handle for spoons, forks, or similar articles	36,169	Dec. 16	101	2558
Bennett, Ernest H., East Orange, N. J., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	35,681	Jan. 28	98	781
Bennett, Ernest H., East Orange, N. J., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	35,682	Jan. 28	98	781
Bennett, Ernest H., East Orange, N. J., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	35,915	May 13	99	1080
Bennett, Ernest H., East Orange, N. J., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	35,934	June 3	99	2311
Bentley, Charles E., New York, N. Y. Pillow-top	35,593	Jan. 21	98	574
Bentley, Charles E., New York, N. Y. Pillow-top	35,594	Jan. 21	98	574
Bentley, Charles E., New York, N. Y. Pillow-top	35,595	Jan. 21	98	574
Bentley, Charles E., New York, N. Y. Pillow-top	35,596	Jan. 21	98	574
Bentley, Charles E., New York, N. Y. Pillow-top	35,597	Jan. 21	98	574
Bentley, Charles E., New York, N. Y. Pillow-top	35,598	Jan. 21	98	574
Bentley, Charles E., New York, N. Y. Pillow-top	35,599	Jan. 21	98	575
Bentley, Charles E., New York, N. Y. Pillow-top	35,600	Jan. 21	98	575
Bentley, Charles E., New York, N. Y. Pillow-top	35,601	Jan. 21	98	575
Bentley, Charles E., New York, N. Y. Pillow-top	35,602	Jan. 21	98	575
Bentley, Charles E., New York, N. Y. Pillow-top	35,603	Jan. 21	98	575
Bentley, Charles E., New York, N. Y. Pillow-top	35,604	Jan. 21	98	575



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Bentley, Charles E., New York, N. Y. Pillow-top	35,605	Jan. 21	98	576
Bentley, Charles E., New York, N. Y. Pillow-facing	35,606	Jan. 21	98	576
Bertram, William L. (See Cope and Bertram.)				
Bessière, Louis, Paris, France, assignor to P. Durand, New York, N. Y. Drinking vessel	36,123	Oct. 28	101	876
Bessière, Louis, Paris, France, assignor to P. Durand, New York, N. Y. Drinking vessel	36,124	Oct. 28	101	877
Black, Starr & Frost. (See Graff, Charles, assignor.)				
Blackinton & Company, R. (See Hathaway, Albert E., assignor.)				
Blackinton & Company, R. (See Keller, Sidney A., assignor.)				
Blair, George W., Pittsburg, Pa. Lamp-chimney	35,895	May 6	99	1377
Boekel, Julius. (See Boekel, William and J.)				
Boekel, William and J., Philadelphia, Pa. Nebulizer-support	36,000	Aug. 12	100	1554
Bogert, Charles J., Brooklyn, N. Y., assignor to J. L. Mott Iron Works, New York, N. Y. Floor or wall covering	36,140	Nov. 11	101	1361
Bomenblit, Frank M., and D. Pink, Newark, N. J. Sideboard ornament	35,586	Jan. 14	98	410
Bonnert, Charles C., Baltimore, Md. Bottle	36,144	Nov. 18	101	1597
Booth, Kraft, Philadelphia, Pa., assignor to Gillinder & Sons. Glass-maker's stock	36,098	Oct. 7	101	207
Bowie & Terhune. (See Frey, Frank J., assignor.)				
Bowlen, William C., Providence, R. I., assignor to The Wightman and Hough Company. Brooch or similar article	36,152	Dec. 9	101	2273
Bracher, Becker & Barnett. (See Becker, Andreas, assignor.)				
Bracken, Julia M., Chicago, Ill., assignor to Oneida Community, Ltd., Kenwood, N. Y. Handle for spoons or similar articles	35,607	Jan. 28	98	776
Brewer, Charles S., assignor to Standard Furniture Company, Herkimer, N. Y. Card plate or holder	35,917	May 20	99	1857
Brewing, Henry S., Baltimore, Md. Securing-bar for trousers-clasps	35,547	Jan. 7	98	215
Briscoe Manufacturing Company. (See Puffeloot, Charles, assignor.)				
Bromham, William W., assignor to M. T. Goldsmith, New York, N. Y. Brush or mirror back	35,608	Jan. 28	98	777
Bromley, Joseph H. (See Burgess, Arthur, assignor.)				
Bromley & Sons, John. (See Bennett, Ernest H., assignor.)				
Bromley & Sons, John. (See Petzold, Adolph, assignor.)				
Brown, Carl E., Columbus, Ohio. Father-body	36,015	Aug. 19	100	1753
Brown, Garrett, Denver, Colo. Pincushion	35,578	Jan. 14	98	408
Brown, Louis H., assignor to M. J. Whittall, Worcester, Mass. Carpet	36,128	Oct. 28	101	877
Brown, Louis H., Worcester, assignor to John H. Pray & Sons Co., Boston, Mass. Carpet	36,179	Dec. 23	101	2812
Bryant, Ellsworth S. (See Murdock, William C., assignor.)				
Buck, John A., and G. Hassler, New York, N. Y. Horseshoe-pad	35,621	Jan. 28	98	779
Buffum, Evelyn, Chicago, Ill. Hat-pin holder	35,905	May 13	99	1607
Burch, Julian E., and L. E. Lee, Chicago, Ill. Garbage-can	35,729	Feb. 11	98	1273
Burdick, Henry H., Syracuse, N. Y. Handle for spoons or similar articles	35,850	Apr. 8	99	436
Burgess, Arthur, assignor to J. H. Bromley, Philadelphia, Pa. Lace curtain	35,921	May 20	99	1858
Burgess, Arthur, assignor to J. H. Bromley, Philadelphia, Pa. Lace curtain	36,020	Aug. 19	100	1754
Burgess, Arthur, assignor to J. H. Bromley, Philadelphia, Pa. Lace curtain	36,021	Aug. 19	100	1754
Burke, James. (See Dredge and Burke.)				
Buskirk, George W., New York, N. Y. Paper	35,928	June 3	99	2310
Busky, John S., New York, N. Y. Shoe-sole	35,569	Jan. 7	98	219
Busky, John S., Brooklyn, N. Y. Shoe-sole	35,630	Jan. 28	98	781
Busky, John S., Brooklyn, N. Y. Shoe-shank	35,709	Feb. 11	98	1270
Butler, George P., New York, N. Y. Cigarette-box	35,865	Apr. 15	99	652
C. F. Monroe Company. (See Helmschmied, Carl V., assignor.)				
Call, Homer D., Syracuse, N. Y. Die or similar article	35,962	June 17	99	2760
Calleson, Christian A., New York, and M. Calleson, Brooklyn, N. Y. Supporting-frame for ice-cutters and ice-cream freezers	35,645	Jan. 28	98	783
Calleson, Martin. (See Calleson, Christian A. and M.)				
Campbell, John, New York, N. Y. Roof-pad	35,693	Feb. 4	98	1021
Campbell, Thomas, Irwin, Pa. Belt-holder	35,751	Feb. 18	98	1473
Canedy, Albert E., assignor to Canedy Otto Manufacturing Company, Chicago Heights, Ill. Blower and gear casing	35,671	Feb. 4	98	1017
Canedy Otto Manufacturing Company. (See Canedy, Albert E., assignor.)				
Capital Iron Works. (See Harrison, John N., assignor.)				
Carlson, William E., assignor to William B. Durgin Company, Concord, N. H. Ornamental dish	35,771	Feb. 25	98	1697
Carlson, William E., assignor to William B. Durgin Company, Concord, N. H. Handle for spoons, forks, or similar articles	35,877	Apr. 22	99	853
Case, Frank E., Canton, Ohio. Dental-instrument cabinet	35,776	Feb. 25	98	1698
Central Lighting Company. (See Baron, Albert L., assignor.)				
Century Manufacturing Company. (See Droegge, George H., assignor.)				
Century Stove & Mfg. Company. (See Warren, Edric C., assignor.)				
Chance Brothers and Co. (See Woodward, Thomas J., assignor.)				
Chandler, Richard D., Hydepark, Mass. Lamp-shade	36,185	Dec. 30	101	3094
Chapman, James E., Akron, Ohio. Decorative molding	36,176	Dec. 23	101	2812
Chicago Portrait Company. (See Kitch, David A., assignor.)				
Church, Lee O., V. Verne, Ind. Dressing-gown	35,674	Feb. 4	98	1017
Clark, Allison N., Plainville, Conn. Manicure-blade	35,746	Feb. 18	98	1472
Clark, Charles W., Ardmore, Pa. Chair	35,779	Feb. 25	98	1698
Clark, William S., assignor to Missouri Glass Company, St. Louis, Mo. Glass dish	35,892	May 6	99	1376
Clark, William S., assignor to Missouri Glass Company, St. Louis, Mo. Glass dish	35,893	May 6	99	1376
Clarke, Clara J., Fremont, Ohio. Dresser	35,978	July 15	100	673
Clarke, Richard T., Columbus, Ohio. Button-engaging attachment for shirt-waists	35,705	Feb. 11	98	1269
Cleveland Twist Co. (See Smith, Harry G., assignor.)				
Cliff, George H., Philadelphia, Pa., assignor to De Long Hook and Eye Company. Eye for garment-fasteners	35,639	Jan. 28	98	782
Climer, Laura A., Chicago, Ill. Fruit-jar clamp	35,614	Jan. 28	98	777
Clulee, John, Wallingford, assignor to International Silver Co., Meriden, Conn. Handle for spoons, forks, or similar articles	36,034	Sept. 2	100	2169
Cochrane Manufacturing Company. (See Mason, Alphonse, assignor.)				
Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles	35,556	Jan. 7	98	216
Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles	35,780	Mar. 4	98	1956
Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles	35,859	Apr. 15	99	651
Cohen, Ovid, New York, N. Y. Badge	35,825	Mar. 23	98	2570
Cohen, Stanley A., New York, N. Y. Hook and pin	36,151	Dec. 9	101	2273
Collins, James W., New Martinsville, W. Va. Pitcher or similar article	36,170	Dec. 16	101	2559
Colwell, Frank W., Matteawan, N. Y. Spoon	36,147	Nov. 29	101	1821
Comstock, Henry W., Boston, Mass. Tobacco-pipe	35,637	Jan. 28	98	782
Conner, A. Reed, Cynthiana, Ky. Flag	35,985	Aug. 5	100	1320

*Alphabetical list of patentees of designs—Continued.*

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Cooper, Jason W., St. Paul, Minn. Wrapping-paper	35,673	Feb. 4	98	1017
Co-operative Foundry Company. (See Kennedy and King, assignors.)				
Cope, George W., and W. L. Bertram, assignors to Economy Stove & Manufacturing Company, Detroit, Mich. Stove	36,112	Oct. 14	101	440
Court, Charles S. (See Trees and Court.)				
Court, Charles S., Providence, R. I., assignor to Watson and Newell Company. Handle for spoons or similar articles	36,096	Oct. 7	101	297
Cortet Manufacturing Company. (See Grigg, Joseph, assignor.)				
Coven, Abraham W., New York, N. Y. Necktie	35,662	Feb. 4	98	1015
Coyle, Elizabeth, assignor to Coyle & Sargent, St. Louis, Mo. Pillow or cushion top	36,178	Dec. 23	101	2812
Coyle & Sargent. (See Coyle, Elizabeth, assignor.)				
Crary, Charles A., Huntington, W. Va., assignor to Enterprise Soap Works, Nashville, Tenn. Soap	36,078	Sept. 16	100	2597
Crees, Eustace, and C. S. Court, Providence, R. I., assignors to Watson and Newell Company, Attleboro, Mass. Handle for spoons, forks, or similar articles	35,963	June 24	99	2956
Crees, Eustace, and C. S. Court, Providence, R. I., assignors to Watson and Newell Company. Handle for spoons or similar articles	35,994	Aug. 12	100	1552
Crees, Eustace, and C. S. Court, Providence, R. I., assignors to Watson and Newell Company. Handle for spoons or similar articles	35,995	Aug. 12	100	1553
Crees, Eustace, and C. S. Court, Providence, R. I., assignors to Watson and Newell Company. Handle for spoons or similar articles	35,996	Aug. 12	100	1553
Crippen, Henry D. (See Maxwell, George S., assignor.)				
Curtis, Henry H. (See Marshall, William F., assignor.)				
D'Arcy, Frank P., Kalamazoo, Mich. Spoon	35,829	Apr. 1	99	214
Davenport, Frank W., Providence, R. I. Record-sheet	35,717	Feb. 11	98	1271
David, Harry. (See David, Mesrope, Z. H., and P.)				
David, Mesrope, Z. H., and P., Brockton, Mass. Chisel, nail-puller, and hammer	35,652	Feb. 4	98	1013
David, Mesrope, Z. H., and P., Brockton, Mass. Limb-cutter or branch-trimmer and hatchet	35,720	Feb. 11	98	1272
David, Paul. (See David, Mesrope, Z. H., and P.)				
David, Zakar. (See David, Mesrope, Z. H., and P.)				
De Long, Frank E., Philadelphia, Pa., assignor to De Long Hook and Eye Company. Eye for garment-fasteners	35,640	Jan. 28	98	782
De Long Hook and Eye Company. (See Cliff, George H., assignor.)				
De Long Hook and Eye Company. (See De Long, Frank E., assignor.)				
De Long Hook and Eye Company. (See Richardson, Thomas D., assignor.)				
De Moss, Peter O., Moro, Oreg. Member for sack-supports	35,680	Feb. 4	98	1018
Deacon, Eugene L., Denver, Colo. Souvenir-spoon	36,115	Oct. 21	101	650
Debacher, Robert R., New York, N. Y. Handle for toilet articles	36,022	Aug. 26	100	1965
Degoumois, Henri V., Chaux-de-Fonds, Switzerland. Watchcase	35,851	Apr. 8	99	436
Depollier, Charles L., assignor to Dubois Watch-Case Company, Brooklyn, N. Y. Watchcase	35,740	Feb. 18	98	1471
Desormour, Charles, Cleveland, Ohio. Urinal	35,617	Jan. 28	98	778
Detroit Motor Works. (See Hardy, Roy E., assignor.)				
Dietz, Francis G., New York, N. Y. Garment-supporter	35,548	Jan. 7	98	215
Dietz, Francis G., New York, N. Y. Garment-supporter	35,612	Jan. 28	98	777
Dietz, Francis G., New York, N. Y. Garment-supporter	35,613	Jan. 28	98	777
Donnell, John T., St. Louis, Mo. Souvenir hat-pin	35,601	Feb. 4	98	1015
Donnell, John T., St. Louis, Mo. Souvenir spoon, fork, or similar article	35,923	May 27	99	2050
Donohue, Michael A., Jr., Chicago, Ill. School-desk casting	36,005	Aug. 12	100	1555
Doran, Robert L., assignor of three-fourths to J. S. Knight, J. H. T. Martin, Chicago, Ill., and M. C. McGannon, Nashville, Tenn. Gas-lamp	35,787	Mar. 4	98	1987
Doran, Robert L., assignor of three-fourths to J. S. Knight, J. H. T. Martin, Chicago, Ill., and M. C. McGannon, Nashville, Tenn. Gas-lamp	35,788	Mar. 4	98	1958
Doyle, Henry, New York, N. Y. Calendar	35,943	June 10	99	2538
Drain, William J., Jr., Philadelphia, Pa. Jewelry-display stand	35,748	Feb. 18	98	1472
Drake, Chester T., Chicago, Ill. Mixer-blade	35,064	Feb. 4	98	1015
Dredge, Joseph F., and J. Burke, Racine, Wis. Rub-iron or fender for vehicles	35,567	Jan. 7	98	218
Dresser, Solomon R., Bradford, Pa. Clamping-ring for pipe-couplings	35,618	Jan. 28	98	778
Droege, George H., assignor to Century Manufacturing Company, New York, N. Y. Stove-leg	36,177	Dec. 23	101	2812
Drueiding, Charles C., Philadelphia, Pa. Watch-bag	35,591	Jan. 21	98	573
Dubé, Arthur, Fall River, Mass. Loom-fork	35,651	Feb. 4	98	1013
Dubois Watch-Case Company. (See Depollier, Charles L., assignor.)				
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Andiron	36,046	Sept. 9	100	2371
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Andiron	36,047	Sept. 9	100	2371
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Andiron	36,048	Sept. 9	100	2372
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Andiron	36,049	Sept. 9	100	2372
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Portable basket-grate	36,050	Sept. 9	100	2372
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Basket-grate	36,051	Sept. 9	100	2372
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Basket-grate	36,052	Sept. 9	100	2372
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Basket-grate	36,053	Sept. 9	100	2372
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Basket-grate	36,054	Sept. 9	100	2373
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Fireplace-lining	36,055	Sept. 9	100	2373
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Fireplace-lining	36,056	Sept. 9	100	2373
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Fireplace-lining	36,057	Sept. 9	100	2373
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Fireplace-front	36,058	Sept. 9	100	2373
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Fireplace-front	36,059	Sept. 9	100	2373
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Fireplace-front	36,060	Sept. 9	100	2374
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Fireplace-front	36,061	Sept. 9	100	2374
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Fireplace-front	36,062	Sept. 9	100	2374
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Fireplace-front	36,063	Sept. 9	100	2374



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Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Fireplace-front	36,064	Sept. 9	100	2374
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Fireplace-front	36,065	Sept. 9	100	2374
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Fireplace-front	36,066	Sept. 9	100	2375
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Fireplace-front	36,067	Sept. 9	100	2375
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Fireplace-front	36,068	Sept. 9	100	2375
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Fireplace-front	36,069	Sept. 9	100	2375
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Fireplace-front	36,070	Sept. 9	100	2375
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Fireplace-front	36,071	Sept. 9	100	2375
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Fireplace-front	36,072	Sept. 9	100	2376
Dudgeon, Thomas M., Crafton, assignor to Pittsburgh Stove and Range Company, Pittsburg, Pa. Fireplace-front	36,073	Sept. 9	100	2376
Durand, Paul. (See Bessière, Louis, assignor.)				
Dyett, James H., Buffalo, N. Y. Connecting-piece for bedsteads.	35,869	Apr. 15	99	633
E. & T. Fairbanks & Co. (See Sargent, Willis H., assignor.)				
Eastwood and Park. (See Turton, Walter, assignor.)				
Elsen, Henry L., Hoboken, assignor to James Reilly Repair and Supply Company, Jersey City, N. J. Interior frame for filters	35,722	Feb. 11	98	1272
Economy Stove & Manufacturing Company. (See Cope and Bertram, assignors.)				
Eiseman, Max, et al. (See Krause, Hugo C., assignor.)				
Eiseman, Moses H., assignor of one-half to Worms & Loeb, Chicago, Ill. Belt	36,163	Dec. 9	101	2276
Eiseman, Moses H., assignor of one-half to Worms & Loeb, Chicago, Ill. Belt	36,164	Dec. 9	101	2276
Eiseman, Nathan, et al. (See Krause, Hugo C., assignor.)				
Elliott, Elias L., New York, N. Y. Reflector for artificial lights	36,126	Oct. 28	101	877
Enterprise Gas Stove Manufacturing Company. (See Beck, George, assignor.)				
Enterprise Soap Works. (See Crary, Charles A., assignor.)				
Eshleman, John W., Mount Joy, Pa. Toy bank	35,864	Apr. 15	99	652
Estes, John W., St. Louis, Mo. Table	35,728	Feb. 11	98	1273
Eustis, John P., Newtonville, Mass. Drain for dishes	35,670	Feb. 4	98	1016
Eustis, John P., Newtonville, Mass. Receptacle	35,676	Feb. 4	98	1018
Everard, Edward, Bristol, England. Font of printing-type	35,945	June 10	99	2538
Ewin, James L., assignor to L. B. Wilson, trustee, Washington, D. C. Badge or similar article	35,979	July 22	100	925
Farrell, James P., Jr., et al. (See Flindt, Carl J. H., assignor.)				
Field, Elizabeth, Scotchplains, N. J. Sofa-pillow	35,972	July 1	100	223
Fitch, Frank E., Rochester, assignor of two-thirds to H. V. Hoag, Jr., Smithville Flats, and J. H. Fitch, Rochester, N. Y. Vending-machine case	35,702	Feb. 4	98	1022
Fitch, Joseph H., et al. (See Fitch, Frank E., assignor.)				
Fleming, Cannon H., Richmond, Va. Stove	36,118	Nov. 25	101	1821
Flindt, Carl J. H., assignor of two-thirds to J. P. Farrell, Jr., and E. McMurray, Brooklyn, N. Y. Vessel's hull	35,590	Jan. 14	98	410
Forest, Henry, East St. Louis, Ill., assignor to Obeare-Nester Glass Company. Prescription-bottle	36,001	Aug. 12	100	1554
Forzach, George, Glenlyon, Pa. Drinking vessel	35,557	Jan. 7	98	216
Forster, John C., Pittsburg, Pa. Gas-stove	36,173	Dec. 16	101	2359
Foster, Theodore W., Providence, R. I. Handle for button-hooks, paper-cutters, or similar articles	36,010	Aug. 19	100	1752
Foster, Theodore W., Providence, R. I. Back for toilet boxes, mirrors, or similar articles	36,011	Aug. 19	100	1752
Fox, Ivan, Lansdowne, Pa. Nosepiece for spectacles or eyeglasses	35,551	Jan. 7	98	216
Fox, Ivan, Lansdowne, Pa. Nosepiece for spectacles or eyeglasses	35,552	Jan. 7	98	216
Fox, Ivan, Lansdowne, Pa. Nosepiece for spectacles or eyeglasses	35,553	Jan. 7	98	216
Franke, Herman E., Milwaukee, Wis. Gas-arc light	35,835	Apr. 1	99	216
Free, William C., assignor to Illinois Sewing Machine Company, Chicago, Ill. Sewing-machine cabinet	36,150	Dec. 2	101	2466
Freeman, Frank A., Philadelphia, Pa. Hose-supporter	35,752	Feb. 18	98	1473
Frenot, Louis D., assignor to Reeves and Browne, Newark, N. J. Ornamental head for brooches, scarf-pins, or similar articles	35,922	May 27	99	990
Freund, Zdenko, Newark, N. J. Back for hand-mirrors, brushes, or similar articles	36,122	Oct. 28	101	876
Frey, Frank J., Quincy, Ill., assignor to Bowie & Terhune, Rome, Ga. Cooking stove or range	35,955	June 17	99	2759
Friedman, Aron, Chicago, Ill. Dial	35,641	Jan. 28	98	782
Gaisman, Henry J., New York, N. Y. Waist-belt	35,707	Feb. 11	98	1270
Gale, John D. (See Gibson, William, Jr., assignor.)				
Gamer, Charles L., Chicago, Ill. Folding-bed case	36,019	Aug. 19	100	1754
Gates, Gideon W., David City, Neb. Vending-machine casing	36,031	Aug. 26	100	1876
Gault, John H., assignor to Hero Fruit Jar Company, Philadelphia, Pa. Ornamental border	35,889	Apr. 29	99	1162
Gauss, Theodore C. (See Hornberger, Louis, assignor.)				
Geiges, Alexander, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Back for brushes, mirrors, or similar articles	35,770	Feb. 25	98	1697
Gibson, William, Jr., Wolseley, assignor of one-half to J. D. Gale, Whitewood, Canada. Plow-share-lay	35,566	Jan. 7	98	218
Gillinder & Sons. (See Booth, Kraft, assignor.)				
Goffrey, Robert, Cambridge, Mass. Wall-tie	35,505	Jan. 7	98	218
Gottze, Emil, Newark, N. J. Picture-frame	35,831	Apr. 1	99	215
Gottze, Frank, Manchester, Conn. Box or carton	36,016	Aug. 19	100	1753
Gottze, Emil, Wallingford, assignor to S. L. Barbour, Hartford, Conn. Candlestick	35,786	Mar. 4	98	1957
Gottze, Emil, Wallingford, assignor to International Silver Co., Meriden, Conn. Receptacle	35,993	June 17	99	2759
Goldsmith, Marcus T. (See Bronham, William W., assignor.)				
Goldsmith, Marcus T. (See Keller, Sidney A., assignor.)				
Goldsmith, Marcus T., New York, N. Y. Alphabet	35,642	Jan. 28	98	782
Goldsmith, Marcus T., New York, N. Y. Alphabet	35,643	Jan. 28	98	783
Goldsmith, Marcus T., New York, N. Y. Alphabet	35,644	Jan. 28	98	783
Gordon, Peter J., assignor to H. A. Cary Company, New York, N. Y. Dish	35,879	Apr. 22	99	854
Gorham Manufacturing Company. (See Gorham, William C., assignor.)				
Gorham Manufacturing Company. (See Osburn, Frank N., assignor.)				
Gorton, Fred L., North Attleboro, Mass. Watch-fob	36,168	Dec. 16	101	2558
Gould, Isador M., Philadelphia, Pa. Picture-frame	35,926	May 27	99	2090
Gould, Isador M., Philadelphia, Pa. Picture frame	35,992	Aug. 12	100	1552
Graft, Charles, New York, N. Y., assignor to Black, Starr & Frost. Cup	35,785	Mar. 4	98	1957

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Graves, John J., assignor to Jewett & Company, Buffalo, N. Y. Cooking stove or range	35,867	Apr. 15	99	652
Gray, William, Amesbury, Mass. Lamp-body	36,116	Oct. 21	101	650
Grigg, Joseph, Colonie, assignor to Covert Manufacturing Company, Watervliet, N. Y. Keeper for hooks	35,656	Feb. 4	98	1014
Grimes, Cephus O. (See Hammack, Martin V., assignor.)				
Guidez, Hermine, New York, N. Y. Pattern for dress-skirts	35,843	Apr. 1	99	217
Guidez, Hermine, New York, N. Y. Pattern for dress-skirts	35,844	Apr. 1	99	218
Guidez, Hermine, New York, N. Y. Pattern for dress-skirts	35,845	Apr. 1	99	218
Guidez, Hermine, New York, N. Y. Pattern for dress-skirts	35,846	Apr. 1	99	218
Guidez, Hermine, New York, N. Y. Pattern for dress-skirts	35,847	Apr. 1	99	218
Guidez, Hermine, New York, N. Y. Pattern for dress-skirts	35,848	Apr. 1	99	218
H. A. Cary Company. (See Gordon, Peter J., assignor.)				
Haas, Cyrus A., St. Louis, Mo. Lamp-body	36,029	Aug. 26	100	1966
Haas, Frank A., assignor to M. J. Whittall, Worcester, Mass. Carpet	36,129	Oct. 28	101	878
Hahn, Charles H., New Haven, Conn. Melon and pie knife	35,636	Jan. 28	98	782
Hamilton, William D., Allegheny, Pa. Name-plate	35,939	June 10	99	2537
Hammack, Martin V., Thalia, assignor of one-half to C. O. Grimes, Portsmouth, Va. Bedstead	35,933	June 3	99	2311
Hammack, Martin V., Thalia, assignor of one-half to C. O. Grimes, Portsmouth, Va. Picture-frame	35,935	June 10	99	2536
Hammack, Martin V., Thalia, assignor of one-half to C. O. Grimes, Portsmouth, Va. Sideboard or similar article	35,946	June 10	99	2538
Hammack, Martin V., Thalia, assignor of one-half to C. O. Grimes, Portsmouth, Va. Bureau or similar article of furniture	35,947	June 10	99	2539
Hammack, Martin V., Thalia, assignor of one-half to C. O. Grimes, Portsmouth, Va. Bureau or similar article	35,948	June 10	99	2539
Handel, Philip J., Meriden, Conn. Lamp bracket or standard	36,183	Nov. 4	101	1119
Hardwick Stove Co. (See Mersfelder, William L., assignor.)				
Hardy, Roy E., assignor to Detroit Motor Works, Detroit, Mich. Engine frame or casing	35,623	Jan. 28	98	779
Harkrader, Ellison T., St. Louis, Mo. Button	35,890	May 6	99	1375
Harrington, James B. (See Moore, George M., assignor.)				
Harrison, John N., Ottawa, assignor to Capital Iron Works, Topeka, Kans. Metallic curb	35,760	Feb. 18	98	1474
Hart, Gerald W., West Hartford, assignor to Hart Manufacturing Company, Hartford, Conn. Switch contact member	35,620	Jan. 28	98	779
Hart, Howard S., New Britain, Conn. Top plate for registers, ventilators, or similar articles	35,583	Jan. 14	98	409
Hart Manufacturing Company. (See Hart, Gerald W., assignor.)				
Hassler, George. (See Buck and Hassler.)				
Hathaway, Albert E., assignor to R. Blackinton & Company, North Attleboro, Mass. Handle for spoons, forks, or similar articles	35,964	June 24	99	3056
Hathaway, Wick, Madison, Ohio. Butter-knife	35,554	Jan. 7	98	216
Hathaway, Wick, Madison, Ohio. Box-opener	35,561	Jan. 7	98	217
Haviland, Charles E., Limoges, France. Plate or similar article	35,782	Mar. 4	98	1956
Haviland, Charles E., Limoges, France. Covered dish or similar article	35,783	Mar. 4	98	1956
Haviland, Charles E., Limoges, France. Teapot or similar article	35,784	Mar. 4	98	1957
Hawks, William, Chicago, Ill. Lamp-fixture	35,581	Jan. 14	98	408
Heath, Thomas, assignor to J. B. & S. M. Knowles Company, Providence, R. I. Handle for spoons, forks, or similar articles	36,132	Nov. 4	101	1118
Helmschmied, Carl V., assignor to C. F. Monroe Company, Meriden, Conn. Cut-glass receptacle	35,907	May 13	99	1607
Henderson, James C., Philadelphia, Pa. Cart-body	35,868	Apr. 15	99	653
Hensel Colladay Company. (See Hensel, George S., assignor.)				
Hensel, George S., Philadelphia, Pa., assignor to Hensel Colladay Company, Dress-trimming	35,913	May 13	99	1609
Herbert, Henry J., assignor to United States Chemico Wood Company, Detroit, Mich. Mirror-frame	35,575	Jan. 14	98	407
Herbert, Henry J., assignor to United States Chemico Wood Company, Detroit, Mich. Brush back and handle	35,576	Jan. 14	98	408
Hero Fruit Jar Company. (See Gault, John H., assignor.)				
Herz, Hugo, Chicago, Ill. Gas-lamp body	36,111	Oct. 14	101	440
Herzog, Joseph L., New York, N. Y. Ring-tray	35,852	Apr. 8	99	436
Hill, Matilda A., South Fallsburg, N. Y. Handle for buttons	36,074	Sept. 16	100	2397
Hillbom, Henrik, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Handle for spoons, forks, or similar articles	35,974	July 8	100	443
Hillbom, Henrik, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Handle for spoons, forks, or similar articles	35,975	July 8	100	443
Hiller, Hattie W., New York, N. Y. Shoe-lacing	35,875	Apr. 15	99	655
Hiller, Louis C., Wallingford, assignor to International Silver Co., Meriden, Conn. Candlestick	36,035	Sept. 2	100	2169
Hiller, Louis C., Wallingford, assignor to International Silver Co., Meriden, Conn. Candlestick	36,036	Sept. 2	100	2170
Hiller, Louis C., Wallingford, assignor to International Silver Co., Meriden, Conn. Candlestick	36,037	Sept. 2	100	2170
Hoag, Herman V., Jr., et al. (See Fitch, Frank E., assignor.)				
Hogland, Frank G., assignor to Illinois Sewing Machine Company, Chicago, Ill. Sewing-machine table	36,004	Aug. 12	100	1555
Hogland, Frank G., assignor to Illinois Sewing Machine Company, Chicago, Ill. Sewing-machine table	36,032	Aug. 26	100	1967
Hogland, Frank G., assignor to Illinois Sewing Machine Company, Chicago, Ill. Sewing-machine cabinet	36,100	Oct. 7	101	207
Hogland, Frank G., assignor to Illinois Sewing Machine Company, Chicago, Ill. Sewing-machine cabinet	36,101	Oct. 7	101	207
Hollister, Frank E., Mount Morris, N. Y. Game-board	35,791	Mar. 4	98	1958
Holmes, Albert A., Marshall, Mich. Cabinet for holding coats, umbrellas, &c	35,920	May 20	99	1858
Homan Silver Plate Company. (See Leavenworth, Seth H., assignor.)				
Hornberger, Louis, Bridgeport, Conn., assignor of one-half to T. C. Gauss, Kingston, N. Y. Clock-case	36,181	Dec. 30	101	3029
Houle, Altheod J., Manchester, N. H. Belt-buckle member	36,165	Dec. 9	101	2376
Howe, Charles E., New York, N. Y., assignor to Sweet, Orr & Company, New York, N. Y. Fabric	36,141	Nov. 11	101	1361
Hudnut, Richard, New York, N. Y. Bottle	35,894	May 6	99	1376
Hudnut, Richard, New York, N. Y. Bottle-stopper	36,186	Dec. 30	101	3094
Hull, Scott H., Oskaloosa, Iowa. Halter-loop	35,694	Feb. 4	98	1021
Hunt, Charles W., West New Brighton, N. Y. Gear-casing	35,836	Apr. 1	99	216
Hunter, Andrew, San Francisco, Cal. Hose-supporter	35,549	Jan. 7	98	215
Hlenburg, Herman, Philadelphia, Pa., assignor to American Type Founders' Company, Newark, N. J. Font of printing-type	35,777	Feb. 25	98	1698
Hlenburg, Herman, Philadelphia, Pa., assignor to American Type Founders' Company, Newark, N. J. Font of printing-type	35,888	Apr. 1	99	217



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Illinois Sewing Machine Company. (See Free, William C., assignor.)				
Illinois Sewing Machine Company. (See Hozland, Frank G., assignor.)				
International Silver Co. (See Chulee, John, assignor.)				
International Silver Co. (See Goetze, Emil, assignor.)				
International Silver Co. (See Hiller, Louis C., assignor.)				
Ithaca Wall Paper Mills. (See McManus, Nicholas A., assignor.)				
J. and E. Stevens Co. (See Bailey, Charles A., assignor.)				
J. B. & S. M. Knowles Company. (See Heath, Thomas, assignor.)				
J. E. Caldwell & Company. (See Van Roden, George C., assignor.)				
J. L. Mott Iron Works. (See Bogert, Charles J., assignor.)				
Jackson, Austin F., assignor to Reed and Barton Corporation, Taunton, Mass. Border or mount for silverware	36,153	Dec. 9	101	2273
Jackson, Austin F., assignor to Reed and Barton Corporation, Taunton, Mass. Platter or similar article	36,154	Dec. 9	101	2274
Jackson, Austin F., assignor to Reed and Barton Corporation, Taunton, Mass. Coffee-pot or similar article	36,155	Dec. 9	101	2274
Jacobs, Henry, St. Louis, Mo. Clock-case	35,832	Apr. 1	99	215
Jacobson, Nels, Riblake, Wis. Penholder	35,577	Jan. 14	98	408
James E. Blake Company. (See Marshall, William F., assignor.)				
James E. Blake Company. (See Porter, Louis C., assignor.)				
James Reilly Repair and Supply Company. (See Ebsen, Henry L., assignor.)				
Jamison, Robert D., Detroit, Mich. Lamp-chimney	35,723	Feb. 11	98	1272
Jamison, Thomas M., Memphis, Tenn. Lamp-fixture	35,834	Apr. 1	99	215
Jamison, Thomas M., Memphis, Tenn. Lamp-fixture	35,908	May 13	99	1608
Jacques, Charles E., Oakpark, Ill. Advertising puzzle-sheet	35,568	Jan. 7	98	218
Jeavons, William R., Cleveland, Ohio. Bowl for hydrocarbon-burners	35,562	Jan. 7	98	217
Jeavons, William R., Cleveland, Ohio. Connecting member for hydrocarbon-stoves	35,679	Feb. 4	98	1018
Jeavons, William R., Cleveland, Ohio. Bowl-support for hydrocarbon-burners	35,692	Feb. 4	98	1021
Jeavons, William R., Cleveland, Ohio. Oil-stove	35,866	Apr. 15	99	652
Jewett & Company. (See Graves, John J., assignor.)				
John Dewar & Sons. (See Noke, Charles J., assignor.)				
John H. Pray & Sons Co. (See Brown, Louis H., assignor.)				
Johnson, Frederick I., assignor to M. E. Johnson, Fitchburg, Mass. Cylinder-cover for firearms	35,646	Jan. 28	98	783
Johnson, Mary E. (See Johnson, Frederick I., assignor.)				
Johnson, Robert L., Hanley, England. Vegetable-dish	35,863	Apr. 15	99	652
Johnson, Robert L., Hanley, England. Oil-stove	36,114	Oct. 21	101	650
Joseph Seymour Manufacturing Company. (See Wilson, Frederick G., assignor.)				
Kaiser, Joseph W., et al. (See Krause, Hugo C., assignor.)				
Kane, Michael J., Buffalo, N. Y. Badge	35,986	Aug. 5	100	1320
Karpen & Bros., S. (See Olsson, Axel E., assignor.)				
Keiner, Henry A., Brooklyn, assignor to E. C. Seaman, New York, N. Y. Handle	35,650	Feb. 4	98	1013
Keller, Sidney A., New York, N. Y. Back for brushes or similar articles	36,023	Aug. 26	100	1965
Keller, Sidney A., New York, N. Y. Handle for button-hooks or similar articles	36,024	Aug. 26	100	1966
Keller, Sidney A., New York, N. Y. Lid for puff-boxes or similar articles	36,025	Aug. 26	100	1966
Keller, Sidney A., New York, N. Y. Back for brushes or similar articles	36,026	Aug. 26	100	1966
Keller, Sidney A., New York, N. Y. Corner for blotting-pads or similar articles	36,027	Aug. 26	100	1966
Keller, Sidney A., New York, N. Y. Handle for button-hooks or similar articles	36,043	Sept. 9	100	2371
Keller, Sidney A., New York, N. Y. Shield	36,044	Sept. 9	100	2371
Keller, Sidney A., New York, N. Y. Shield	36,045	Sept. 9	100	2371
Keller, Sidney A., assignor to M. T. Goldsmith, New York, N. Y. Paracomb or similar article	35,747	Feb. 18	98	1472
Keller, Sidney A., assignor to M. T. Goldsmith, New York, N. Y. Ornamental shield	35,884	Apr. 29	99	1161
Keller, Sidney A., assignor to M. T. Goldsmith, New York, N. Y. Ornamental shield	35,885	Apr. 29	99	1161
Keller, Sidney A., assignor to M. T. Goldsmith, New York, N. Y. Bag-frame	36,098	Sept. 2	100	2120
Keller, Sidney A., New York, N. Y., assignor to Long & Koch, Newark, N. J. Back for brushes, mirrors, or similar articles	35,891	May 6	99	1376
Keller, Sidney A., New York, N. Y., assignor to R. Blackinton & Company, North Attleboro, Mass. Handle for spoons, forks, or similar articles	35,905	June 24	99	2957
Kennedy, Nelson E., assignor to Maubetsch & Whittemore, Newark, N. J. Violin-case	35,833	Apr. 1	99	215
Kennedy, Thomas R., and E. J. King, assignors to Co-Operative Foundry Company, Rochester, N. Y. Stove or range	35,932	June 3	99	2311
Kennedy, Thomas R., and E. J. King, assignors to Co-Operative Foundry Company, Rochester, N. Y. Heating-stove	36,099	Oct. 7	101	207
Kennedy, Thomas R., and E. J. King, assignors to Co-Operative Foundry Company, Rochester, N. Y. Heating-stove	36,157	Dec. 9	101	2275
Kernan, Joseph F. (See Richards and Kernan.)				
Kessler, Charles M., Louisville, Ky. Dresser	35,912	May 13	99	1608
Kiefer, Karl, Cincinnati, Ohio. Bottle	35,558	Jan. 7	98	217
Kiefer, Karl, Cincinnati, Ohio. Bottle	35,667	Feb. 4	98	1016
King, Edward J. (See Kennedy and King.)				
Kirslein, Henry E., Rochester, N. Y. Eyeglass or pince-nez spring	35,653	Feb. 4	98	1013
Kitch, David A., assignor to Chicago Portrait Company, Chicago, Ill. Picture-frame	35,923	May 27	99	2090
Knight, James S., et al. (See Doran, Robert L., assignor.)				
Koch, Edward J., Chicago, Ill. Glass dish	35,918	May 20	99	1857
Koenig, Joseph, Two Rivers, Wis. Comb	36,175	Dec. 23	101	2812
Kohlhepp, Robert A., Wallingford, assignor to Landers, Frary and Clark, New Britain, Conn. Ferrule	35,818	Mar. 18	98	2354
Kohlhepp, Robert A., Wallingford, assignor to Landers, Frary and Clark, New Britain, Conn. Ferrule	35,819	Mar. 18	98	2354
Kohlhepp, Robert A., Wallingford, assignor to Landers, Frary and Clark, New Britain, Conn. Ferrule	35,820	Mar. 18	98	2354
Krause, Hugo C., assignor of three-fourths to M. and N. Eiseman and J. W. Kaiser, Chicago, Ill. Belt	35,767	Feb. 18	98	1476
Kruttchnitt, Gustav A., Newark, N. J. Pocket-piece or similar article	35,916	May 20	99	1857
Kundtz, Theodor, Lakewood, Ohio. Drawer for cabinets	35,624	Jan. 28	98	770
Kundtz, Theodor, Lakewood, Ohio. Sewing-machine cabinet	35,625	Jan. 28	98	780
Kundtz, Theodor, Lakewood, Ohio. Sewing-machine cabinet	35,626	Jan. 28	98	780
Kundtz, Theodor, Lakewood, Ohio. Drawer for cabinets	35,731	Feb. 11	98	1274
Kundtz, Theodor, Lakewood, Ohio. Sewing-machine cabinet	35,732	Feb. 11	98	1274
Kundtz, Theodor, Lakewood, Ohio. Top for sewing-machine cabinets	35,733	Feb. 11	98	1274
Kundtz, Theodor, Lakewood, Ohio. Drawer for sewing-machine cabinets	35,801	Mar. 11	98	2193
Kundtz, Theodor, Lakewood, Ohio. Drawer for sewing-machine cabinets	35,802	Mar. 11	98	2193
Kundtz, Theodor, Cleveland, Ohio. Sewing-machine cabinet	35,900	May 6	99	1377
Kursheedt Manufacturing Company. (See Taylor, George H., assignor.)				
Landenberger, John W., Philadelphia, Pa. Woven fabric	35,960	June 17	99	2760
Landenberger, John W., Philadelphia, Pa. Woven fabric	35,961	June 17	99	2760

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Landers, Frary and Clark. (See Kohlhepp, Robert A., assignor.)				
Landers, Frary & Clark. (See Smith, Charles F., assignor.)				
Large, Samuel J., assignor to American Silver Company, Bristol, Conn. Spoon	35,929	June 3	99	2310
Larrabee, Charles E., Oakland, Cal. Wall-cabinet	35,887	Apr. 1	99	216
Leavenworth, Seth H., assignor to Homan Silver Plate Company, Cincinnati, Ohio. Coffee-pot or similar vessel	35,800	Mar. 11	98	2161
Lee, Lester E. (See Burch and Lee.)				
Lehman, Otto A., Hoboken, N. J. Apparel-belt	35,792	Mar. 4	98	1958
Lehman, Otto A., Hoboken, N. J. Apparel-belt	35,793	Mar. 4	98	1959
Lehman, Otto A., Hoboken, N. J. Apparel-belt	35,794	Mar. 4	98	1959
Lehman, Otto A., Hoboken, N. J. Apparel-belt	35,823	Mar. 18	98	2355
Lehman, Otto A., Hoboken, N. J. Apparel-belt	35,824	Mar. 18	98	2355
Lehman, Otto A., Hoboken, N. J. Apparel-belt	35,840	Apr. 1	99	217
Lehman, Otto A., Hoboken, N. J. Apparel-belt	35,841	Apr. 1	99	217
Leib, Charles, Philadelphia, Pa. Hook for garments	35,611	Jan. 28	98	777
Leib, Charles, Philadelphia, Pa. Hook for garments	35,657	Feb. 4	98	1014
Leib, Charles, Philadelphia, Pa. Garment-eye	35,658	Feb. 4	98	1014
Levaux, Aaron, Philadelphia, Pa. Paper or draping weight	36,089	Sept. 2	100	2170
Leventhal, Isaac, assignor to Royal Metal Manufacturing Company, New York, N. Y. Belt	35,765	Feb. 18	98	1475
Leventhal, Isaac, assignor to Royal Metal Manufacturing Company, New York, N. Y. Belt-body or similar article	35,766	Feb. 18	98	1476
Libbey Glass Company. (See Anderson, William C., assignor.)				
Lind, Charles W., and C. N. Silver, Beloit, Wis. Flower-stand	35,627	Jan. 28	98	780
Linotype Company. (See Nadall, Berne, assignor.)				
Linotype Company. (See Nadall and Barnes, assignors.)				
Linz, Simon, Dallas, Tex. Cup	35,942	June 10	99	2538
Long, George, Meriden, Conn. Lamp bracket or standard	36,184	Nov. 4	101	1119
Long & Koch. (See Keller, Sidney A., assignor.)				
Luce, Franklin A., Chicago, Ill. Apparel-belt	35,706	Feb. 11	98	1270
Lyon, Augustus E., Salt Lake City, Utah. Badge	35,973	July 8	100	443
Macalman, John H., Somerville, Mass. Vehicle-body	35,909	May 13	99	1908
Macalman, John H., Somerville, Mass. Vehicle-body	35,910	May 13	99	1908
Macalman, John H., Somerville, Mass. Vehicle-body	35,911	May 13	99	1908
Madden, Patrick J., Chicago, Ill. Washbasin	36,127	Oct. 28	101	877
Magen, Morris, Philadelphia, Pa. Stove	36,082	Sept. 23	100	2766
Marshall, William F., assignor to H. H. Curtis, North Attleboro, Mass. Handle for spoons or similar articles	35,967	Aug. 12	100	1553
Marshall, William F., North Attleboro, Mass., assignor to James E. Blake Company. Back for brushes or similar articles	36,187	Nov. 11	101	1360
Martin, J. H. Talbot, et al. (See Doran, Robert L., assignor.)				
Lecon, Alphonse, Boston, assignor to Cochrane Manufacturing Company, East Dedham, Mass. Carpet	35,815	Mar. 11	98	2163
Mason, Alphonse, Boston, assignor to Cochrane Manufacturing Company, East Dedham, Mass. Carpet	35,816	Mar. 11	98	2163
Mathias, Theodore N., Milwaukee, Wis. Rein-support	35,761	Feb. 18	98	1475
Maulbetsch & Whitmore. (See Kennedy, Nelson E., assignor.)				
Maxwell, George S., Jersey City, N. J., assignor of one-half to H. D. Crippen, New York, N. Y. Support for punching-bags	35,678	Feb. 4	98	1018
Maxwell, John, Oneida, N. Y. Casket-body	35,903	May 6	99	1878
Mayer, Herman, New York, N. Y. Cloak	35,849	Apr. 1	99	2187
McComas, Joe M., Edgerton, Mo. Metallic rim for face-glasses of burial-caskets	36,146	Nov. 18	101	1598
McCormick, Willoughby M., Baltimore, Md. Bottle	35,976	July 8	100	443
McCray, Marcus A., Mediapolis, Iowa. Stamp or envelop moistener	35,906	May 13	99	1907
McGannon, Matthew C., et al. (See Doran, Robert L., assignor.)				
McManus, Nicholas A., New York, N. Y., assignor to Ithaca Wall Paper Mills. Wall-paper	35,735	Feb. 11	98	1275
McManus, Nicholas A., New York, N. Y., assignor to Ithaca Wall Paper Mills. Wall-paper	35,736	Feb. 11	98	1275
McManus, Nicholas A., New York, N. Y., assignor to Ithaca Wall Paper Mills. Wall-paper	35,737	Feb. 11	98	1275
McMurray, Edmund, et al. (See Flindt, Carl J. H., assignor.)				
Meinecke, Christian W., Jersey City, N. J., assignor to Meinecke & Co., New York, N. Y. Hot-water-bag closure	35,580	Jan. 14	98	408
Meinecke, Christian W., Jersey City, N. J., assignor to Meinecke & Co., New York, N. Y. Cushion	35,654	Feb. 4	98	1014
Meinecke & Co. (See Meinecke, Christian W., assignor.)				
Merritt, Mortimer G., Rome, N. Y. Bicycle-rack	36,091	Sept. 30	100	3003
Mersfelder, William L., Cincinnati, Ohio, assignor to Hardwick Stove Co., Cleveland, Tenn. Heating-stove	36,158	Dec. 9	101	2275
Mersfelder, William L., Cincinnati, Ohio, assignor to Hardwick Stove Co., Cleveland, Tenn. Cook-stove	36,166	Dec. 9	101	2276
Meyers, Ernest, assignor to Reed & Barton Corporation, Taunton, Mass. Handle for spoons, forks, or similar articles	35,860	Apr. 15	99	651
Meyers, Ernest, assignor to Reed & Barton Corporation, Taunton, Mass. Handle for spoons, forks, or similar articles	35,861	Apr. 15	99	651
Missouri Glass Company. (See Clark, William S., assignor.)				
Mittendorf, Max, assignor to Suto Brothers Braid Company, New York, N. Y. Braid	36,079	Sept. 16	100	2397
Moffitt, William H., Lexington, N. C. Butcher's tool	35,758	Feb. 18	98	1474
Morgan, George M., assignor to J. B. Harrington, Buffalo, N. Y. Barber's cabinet	35,845	Nov. 18	101	1597
Morrison, Edelmira D., Denver, Colo. Pillow-top	36,162	Dec. 9	101	2275
Mudra, Albert, Lincoln, Neb. Hip-strap drop for harness	35,930	June 3	99	2311
Müller, Josephine, New York, N. Y. Trimming	35,855	Apr. 8	99	436
Mundheim, Samuel, New York, N. Y. Hat	35,660	Feb. 4	98	1014
Murdoch, George F., Wellsville, Ohio. Shingle	35,592	Jan. 21	98	573
Murdoch, William C., assignor to E. S. Bryant, Detroit, Mich. Casing for vending-machines	35,872	Apr. 35	99	654
Myers, J. and F. E. (See Myers, Robert L., assignor.)				
Myers, Lewis A., Jr., Newark, N. J. Belt	35,842	Apr. 1	99	217
Myers, Phineas B., Morristown, N. J. Paper box	35,977	July 8	100	443
Myers, Robert L., Brooklyn, assignor to J. and P. B. Myers, New York, N. Y. Paper box	35,944	June 10	99	2538
Mygatt, Otis A., New York, N. Y. Reflector for artificial lights	35,616	Jan. 28	98	778
Mygatt, Otis A., New York, N. Y. Reflector for artificial lights	35,662	Feb. 4	98	1019
Mygatt, Otis A., New York, N. Y. Reflector for artificial lights	35,683	Feb. 4	98	1019
Mygatt, Otis A., New York, N. Y. Reflector for artificial lights	35,684	Feb. 4	98	1019
Mygatt, Otis A., New York, N. Y. Reflector for artificial lights	35,755	Feb. 18	98	1473
Mygatt, Otis A., New York, N. Y. Reflector for artificial lights	35,756	Feb. 18	98	1474
Mygatt, Otis A., New York, N. Y. Reflector for artificial lights	35,757	Feb. 18	98	1474
Nadall, Berne, Kingston-upon-Thames, assignor to Linotype Company, Limited, London, England. Font of type	35,711	Feb. 11	98	1270
Nadall, Berne, Kingston-upon-Thames, assignor to Linotype Company, Limited, London, England. Font of type ornaments	35,807	Mar. 11	98	2162



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Nadall, Berne, Kingston-upon-Thames, assignor to Linotype Company, Limited, London, England. Font of type ornaments.	35,808	Mar. 11	98	2162
Nadall, Berne, Kingston-upon-Thames, assignor to Linotype Company, Limited, London, England. Font of type ornaments.	35,809	Mar. 11	98	2162
Nadall, Berne, Kingston-upon-Thames, assignor to Linotype Company, Limited, London, England. Font of type ornaments.	35,810	Mar. 11	98	2163
Nadall, Berne, Kingston-upon-Thames, assignor to Linotype Company, Limited, London, England. Font of type ornaments.	35,811	Mar. 11	98	2163
Nadall, Berne, Kingston-upon-Thames, assignor to Linotype Company, Limited, London, England. Font of type ornaments.	35,812	Mar. 11	98	2163
Nadall, Berne, Kingston-upon-Thames, assignor to Linotype Company, Limited, London, England. Font of type ornaments.	35,886	Apr. 29	99	1161
Nadall, Berne, Kingston-upon-Thames, assignor to Linotype Company, Limited, London, England. Font of type ornaments.	35,887	Apr. 29	99	1161
Nadall, Berne, Chicago, Ill., assignor to Linotype Company, Limited, London, England. Font of upper-case printing-type.	36,018	Aug. 19	100	1754
Nadall, Berne, Chicago, Ill., and G. A. Barnes, assignors to Linotype Company, Limited, London, England. Font of lower-case printing-type.	36,017	Aug. 19	100	1754
New Century Hook and Eyelet Company. (See Poalk, James L., assignor.)				
Noke, Charles J., Stoke-upon-Trent, England, assignor to John Dewar & Sons, Limited, Perth, Scotland. Jug or similar article.	36,171	Dec. 16	101	2569
Nolin, Jean B., Montreal, Canada. Badge.	35,936	June 10	99	2536
Nutrizio, Henry, New York, N. Y. Coffee or tea pot.	36,014	Aug. 19	100	1753
O'Callahan, John, Philadelphia, Pa. Badge.	35,927	May 27	99	2091
Obeare-Nester Glass Company. (See Forest, Henry, assignor.)				
Olsen, Frederick W., Mount Pleasant, Wis. Jardinière-stand.	36,086	Sept. 30	100	3002
Olsson, Axel E., assignor to S. Karpen & Bros., Chicago, Ill. Leg for couches.	35,726	Feb. 11	98	1273
Ondrak, Caroline C., New York, N. Y. Ladies' skirt.	35,579	Jan. 14	98	408
Oneida Community. (See Bracken, Julia M., assignor.)				
Onerbacker, Joseph P., Louisville, Ky. Stove-door.	35,582	Jan. 14	98	409
Orcutt, Charles D., Dayton, Ohio. Stool-leg.	36,113	Oct. 14	101	440
Orenshaw, George, West Philadelphia, Pa. Newspaper-holder.	35,585	Jan. 14	98	409
Osborne, Charles, assignor to Whiting Manufacturing Company, New York, N. Y. Handle for spoons or similar articles.	36,143	Nov. 18	101	1597
Osborne, Frank N., New York, N. Y., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles.	35,649	Feb. 4	98	1013
Oswald, Julius A., Crawfordsville, Ind. Souvenir-spoon.	35,573	Jan. 14	98	407
Oxley Enos Company. (See Watkins, Howard E., assignor.)				
Ozias, Orange O., Dayton, Ohio. Scale-base.	35,941	June 10	99	2537
Palmer, Isaac E., Middletown, Conn. Hammock fabric.	35,753	Feb. 18	98	1473
Palmer, Isaac E., Middletown, Conn. Fabric for hammocks.	36,119	Oct. 21	101	651
Palmer, Isaac E., Middletown, Conn. Y. Fabric for hammocks.	36,120	Oct. 21	101	651
Pankratz, John, Kansas City, Mo. Threshing-machine-cylinder tool.	35,721	Feb. 11	98	1272
Park, Charles W., New York, N. Y. Medallion.	35,883	Apr. 29	99	1161
Parsche, Frank C., Chicago, Ill. Cut-glass vessel.	35,856	Apr. 8	99	437
Pause, Paul, Chicago, Ill. Lamp.	35,857	Apr. 8	99	437
Peck Bros. & Co. (See Baker, Stephen D., assignor.)				
Perky, Henry D., Niagara Falls, N. Y. Stove.	36,007	Aug. 12	100	1555
Perry, William A., assignor to M. Whittall, Worcester, Mass. Carpet.	36,130	Oct. 28	101	873
Person, William, assignor to East Rockford Mantel Company, Rockford, Ill. Sewing-machine cabinet.	35,870	Apr. 15	99	653
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug.	35,587	Jan. 14	98	410
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug.	35,588	Jan. 14	98	410
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug.	35,633	Jan. 28	98	781
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug.	35,634	Jan. 28	98	781
Petzold, Adolph, Philadelphia, Pa., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug.	35,773	Feb. 25	98	1608
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug.	36,033	Aug. 26	100	1967
Pfaendler, Adolf, Brooklyn, N. Y. Fabric.	36,080	Sept. 16	100	2597
Phinney, Joseph W., Medford, Mass., assignor to American Type Founders' Company, New York, N. Y. Font of type.	35,712	Feb. 11	98	1271
Phinney, Joseph W., Medford, Mass., assignor to American Type Founders' Company, New York, N. Y. Font of type.	35,839	Apr. 1	99	217
Phinney, Joseph W., Medford, Mass., assignor to American Type Founders' Company, New York, N. Y. Font of border-type.	35,971	July 1	100	223
Phipps, Edward H., New York, N. Y., assignor to Phipps Road Car Company, Jersey City, N. J. Vehicle-body.	36,138	Nov. 11	101	1361
Phipps Road Car Company. (See Phipps, Edward H., assignor.)				
Pick, Albert, Chicago, Ill. Stem-glass.	35,828	Mar. 25	98	2580
Pick, Albert, Chicago, Ill. Decanter.	35,828	Apr. 29	98	854
Piepenbring, Edward, Washington, D. C. Ornamental frame for teapots or similar articles.	35,924	May 27	99	2090
Pilling, Charles J., Lansdown, assignor to G. P. Pilling & Son, Philadelphia, Pa. Blank for specula.	35,714	Feb. 11	98	1271
Pilling, Charles J., Lansdown, assignor to G. P. Pilling & Son, Philadelphia, Pa. Blank for speculum-blades.	35,715	Feb. 11	98	1271
Pilling, Charles J., Lansdown, assignor to G. P. Pilling & Son, Philadelphia, Pa. Blank for speculum-blades.	35,716	Feb. 11	98	1271
Pilling & Son, George P. (See Pilling, Charles J., assignor.)				
Pink, David. (See Bomenblit and Pink.)				
Pittsburgh Stove and Range Company. (See Dudgeon, Thomas M., assignor.)				
Plant, Alfred, Keyport, N. J. Tile.	36,089	Sept. 30	100	3003
Poalk, James L., Merchantville, assignor to New Century Hook and Eyelet Company, Camden, N. J. Lac-taster.	35,690	Feb. 4	98	1020
Pollard, Collingwood, Bradford, England. Kindling-block.	35,685	Feb. 4	98	1019
Pollard, Collingwood, Bradford, England. Kindling-block.	35,686	Feb. 4	98	1020
Porter, Louis C., assignor to James E. Blake Company, Attleboro, Mass. Back for hand-mirrors, brushes, or similar articles.	36,012	Aug. 19	100	1752
Potter, Frederick C., New York, N. Y. Wall-bracket.	36,117	Oct. 21	101	651
Powers, Maurice L., New York, N. Y. Finger-ring.	36,083	Sept. 30	100	3002
Prabur, Louis B., Brooklyn, N. Y. Back for brushes or similar articles.	35,609	Jan. 28	98	777
Prabur, Louis B., Brooklyn, N. Y. Belt-buckle.	35,957	June 17	99	2760
Pretz, Frederick H., Brooklyn, assignor to G. W. Shiebler and Company, New York, N. Y. Handle for spoons or forks.	35,904	May 13	99	1607
Prior, Oscar A., Detroit, Mich. Toy.	35,880	Apr. 22	99	854
Prizer, Charles S., Reading, Pa. Heating-stove.	36,139	Nov. 11	101	1361
Troulx, Harmony W., Holyoke, Mass. Shoe-store seat.	35,725	Feb. 11	98	1273
Puddefoot, Charles, assignor to Briscoe Manufacturing Company, Detroit, Mich. Stove.	36,030	Sept. 30	100	3003

## Alphabetical list of patentees of designs—Continued.

Name, residence, and design	No.	Date.	Official Gazette.	
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Putnam, Charles F., Fitchburg, Mass. Vehicle-body	35,739	Feb. 11	98	1275
R. Wallace & Sons Mfg. Co. (See Geiges, Alexander, assignor.)				
R. Wallace & Sons Mfg. Co. (See Hillbom, Henrik, assignor.)				
R. Wallace & Sons Mfg. Co. (See Wallace, Henry L., assignor.)				
Raubitschek, Henry, assignor to Royal Metal Furniture Company, Brooklyn, N. Y. Frame for bedstead ends	35,881	Apr. 22	99	854
Reed and Barton Corporation. (See Bennett, Charles A., assignor.)				
Reed and Barton Corporation. (See Jackson, Austin F., assignor.)				
Reed & Barton Corporation. (See Meyers, Ernest, assignor.)				
Reeves and Browne. (See Frenot, Louis D., assignor.)				
Reid, Josephine A., Muscogee, Ind. Ter. Kitchen-cabinet	35,584	Jan. 14	98	409
Reiser, John C., St. Louis, Mo. Automobile-body	36,040	Sept. 2	100	2170
Richards, Charles W., Brooklyn, and J. F. Kernan, New York, N. Y. Register-face	35,931	June 3	99	2311
Richards, William P., Union City, Tenn. Surgical rubber pad	35,749	Feb. 18	98	1473
Richardson, Thomas D., Philadelphia, Pa., assignor to De Long Hook and Eye Company. Eye for garment-fasteners	35,638	Jan. 28	98	782
Ritz, August N., Milwaukee, Wis. Paste-jar	35,669	Feb. 4	98	1016
Robin, Joseph T., New York, N. Y. Show-case	35,675	Feb. 4	98	1017
Robinson, William V., assignor to Art Stove Company, Detroit, Mich. Stove	35,954	June 17	99	2759
Robin, John S., Detroit, Mich. Pail-cover	35,560	Jan. 7	98	217
Roger Williams Silver Company. (See Bender, Theodore, assignor.)				
Rogers, Frank J., Diagonal, Iowa. Harness-pad	35,695	Feb. 4	98	1021
Rogers, Winfield S., Keene, N. H. Vehicle-body	35,763	Feb. 18	98	1475
Rogers, Winfield S., Keene, N. H. Vehicle-body	35,951	June 10	99	2540
Romans, John G., W. (See Van Cuyling and Romans.)				
Rosenheimer, Julius T., New York, N. Y. Needle-case	35,704	Feb. 11	98	1269
Royal Metal Furniture Company. (See Raubitschek, Henry, assignor.)				
Royal Metal Manufacturing Company. (See Leventhal, Isaac, assignor.)				
Russell, Edgar A., Wallingford, Conn. Condiment-cup	35,832	Mar. 18	98	2355
Sanders, Louis, Brooklyn, N. Y. Belt	35,570	Jan. 7	98	219
Sargent and Company. (See Sargent, Edward R., assignor.)				
Sargent & Company. (See Stevens, William E., assignor.)				
Sargent, Edward R., assignor to Sargent and Company, New Haven, Conn. Casket-trimming	35,950	June 17	99	2760
Sargent, Edward R., assignor to Sargent and Company, New Haven, Conn. Metal badge	35,980	July 22	100	925
Sargent, Willis H., assignor to E. & T. Fairbanks & Co., St. Johnsbury, Vt. Scale-beam support	35,969	July 1	100	223
Sargent, Willis H., assignor to E. & T. Fairbanks & Co., St. Johnsbury, Vt. Scale-base and supporting-column	35,970	July 1	100	223
Scheer, Christian, Tiffin, Ohio. Clock-shelf and sewing-cabinet	35,734	Feb. 11	98	1274
Schenck, Ernest G. H., Orange, N. J. Cut stone	35,937	June 10	99	2537
Schenck, Ernest G. H., Orange, N. J. Cut stone	35,938	June 10	99	2537
Schenck, Ernest G. H., Orange, N. J. Cut stone	36,167	Dec. 16	101	2558
Schiffer, Walter A., New York, N. Y. Advertising-card or similar article	35,677	Feb. 4	98	1018
Schilling, Frank, assignor to T. A. Snider Preserve Company, Cincinnati, Ohio. Bottle	36,097	Oct. 7	101	207
Schimmel, Magnus, St. Louis, Mo. Ring	35,795	Mar. 11	98	2159
Schneider, William E., Washington, D. C. Autocarette-body	35,984	July 29	100	1103
Schossow, Charles, Detroit, Mich., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Flushing-tank	35,897	May 6	99	1377
Schossow, Charles, Detroit, Mich., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Flushing-tank	35,898	May 6	99	1377
Schossow, Charles, Detroit, Mich., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Flushing-tank	35,899	May 6	99	1377
Schrader-Wittstein Company. (See Wittstein, Alfred H., assignor.)				
Schrader-Wittstein Company. (See Wittstein, Charles T., assignor.)				
Schuck, Valentine, assignor to Sutro Brothers Braid Company, New York, N. Y. Braid	36,118	Oct. 21	101	651
Schumacher, Gustav, Chicago, Ill. Metal-framed rocking-chair	35,681	Feb. 4	98	1018
Schwarz, William J., Brooklyn, N. Y. Gas-stove	35,738	Feb. 11	98	1275
Seaman, Elizabeth C. (See Keiner, Henry A., assignor.)				
Sharps, Herbert E., Bridgeport, Conn. Piano-player case	35,871	Apr. 15	99	653
Shelton, John F., Fort Worth, Tex. Fire fence	35,919	May 20	99	1853
Shepard, Charles D., assignor to William H. Crane Company, Peekskill, N. Y. Andiron	36,149	Dec. 2	101	2066
Sherman, John J., Jr., Chicago, Ill. Game-board	35,718	Feb. 11	98	1271
Sniebler and Company, George W. (See Pretz, Frederick H., assignor.)				
Silver, Charles N. (See Lind and Silver.)				
Simons Brothers & Company. (See Weihman, Henry A., assignor.)				
Smith, Charles F., assignor to Landers, Frary & Clark, New Britain, Conn. Ferrule	35,663	Feb. 4	98	1015
Smith, Charles F., assignor to Landers, Frary & Clark, New Britain, Conn. Knife-handle	35,826	Mar. 25	98	2579
Smith, Charles F., assignor to Landers, Frary & Clark, New Britain, Conn. Knife-handle	35,827	Mar. 25	98	2580
Smith, Edna L., Heno, Ohio. Umbrella-cover	36,092	Sept. 30	100	3003
Smith, Eugene H. H., Bridgeport, Conn. Handle for spoons or similar articles	35,862	Apr. 15	99	652
Smith, Harley G., assignor to Cleveland Twist Drill Co., Cleveland, Ohio. Tool-stand	35,888	Apr. 29	99	1162
Smith, William T., Philadelphia, Pa. Fringe	35,813	Mar. 11	98	2163
Smith, William T., Philadelphia, Pa. Fringe	35,814	Mar. 11	98	2163
Smith, William T., Philadelphia, Pa. Fringe	35,814	May 13	99	1609
Smithers, Joseph G., Dekalb Junction, N. Y. Protector for beehives	35,700	Feb. 4	98	1022
Solomon, Estella, Philadelphia, Pa. Portrait cushion-cover	35,958	June 17	99	2760
Standard Furniture Company. (See Brewer, Charles S., assignor.)				
Standard Sanitary Manufacturing Company. (See Schossow, Charles, assignor.)				
Standard Sanitary Manufacturing Company. (See Torrance, Francis J., assignor.)				
Steecher, Frank A., assignor to Stecher Lithographic Company, Rochester, N. Y. Paper-box blank	35,615	Jan. 28	98	778
Stecher Lithographic Company. (See Stecher, Frank A., assignor.)				
Steele, Harvey R., Punxsutawney, Pa. Stick-pin blank	35,768	Feb. 25	98	1697
Stein, Benjamin, New York, N. Y. Suspender-yoke	35,687	Feb. 4	98	1020
Stetson, James B., San Francisco, and W. J. Thomas, Sausalito, Cal. Locomotive-body	35,806	Mar. 11	98	2162
Stevens, William E., assignor to Sargent & Company, New Haven, Conn. Casket-trimming	35,876	Apr. 15	99	655
Stickley, Gustave, Syracuse, N. Y. Screw	35,710	Feb. 11	98	1270
Sufel, William F., Wheeling, W. Va. Fabric	36,041	Sept. 2	100	2170
Stiles, Townsend, assignor to Welsch Light Company, Gloucester City, N. J. Bunsen-burner mixing-tube	35,754	Feb. 18	98	1473
Stockton, Robert S., Golden, Colo. Badge	35,689	Feb. 4	98	1020
Storrs, Aaron P., Owego, N. Y. Canopy for lamp-chimneys	36,076	Sept. 16	100	2597
Straker, Herbert J., North Attleboro, Mass. Purse-top or similar article	36,105	Oct. 14	101	439
Straker, Joseph E., Jr., Attleboro, Mass., assignor to Watson and Newell Company. Handle for spoons or similar articles	36,121	Oct. 28	101	876
Strasburger, Bertha, New York, N. Y. Lamp or candle shade	36,002	Aug. 12	100	1554
Streeter, Alfred L., Chicago, Ill. Fan-casing	35,583	Jan. 7	98	217
Streeter, Alfred L., Chicago, Ill. Fan-casing	35,584	Jan. 7	98	217



## Alphabetical list of patentees of designs—Continued.

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Such, Charles H., Providence, R. I., assignor to Wightman and Hough Co. Brooch or similar article	36,094	Oct. 7	101	206
Sutro Brothers Braid Company. (See Mittendorf, Max, assignor.)				
Sutro Brothers Braid Company. (See Schuck, Valentine, assignor.)				
Sweet, Orr & Company. (See Howe, Charles E., assignor.)				
Sylvester, Emma A., Boston, Mass. Furse.	36,180	Dec. 30	101	3092
T. A. Suider Preserve Company. (See Schilling, Frank, assignor.)				
Taussig, Rudolph J., San Francisco, Cal. Bottle.	35,668	Feb. 4	98	1016
Taylor, Clovis M., Columbus, Ohio. Automobile-body	36,008	Aug. 12	100	1555
Taylor, George H., assignor to Kursheed Manufacturing Company, New York, N. Y. Trimming.	35,952	June 10	99	2540
Taylor, George H., assignor to Kursheed Manufacturing Company, New York, N. Y. Trimming.	35,968	June 24	99	2957
Taylor, Jessie C., Toronto, Canada. Dressing-cabinet.	35,956	June 17	99	2760
Thielke, Ferdinand, Brooklyn, N. Y. Handle for button-hooks or similar articles	35,574	Jan. 14	98	407
Thomas, William J. (See Stetson and Thomas.)				
Tietgens, Paul, assignor to Angelus Prayer Clock Concern, Chicago, Ill. Clock-case	35,940	June 10	99	2537
Torrance, Francis J., assignor to Standard Sanitary Manufacturing Company, Allegheny, Pa. Lavatory	35,730	Feb. 11	98	1274
Trinchard, Louis F., New Orleans, La. Corn-holder	35,699	Feb. 4	98	1022
Turner, George T., Philadelphia, Pa. Automobile-frame	35,713	Feb. 11	98	1271
Turton, Walter, Arlington, assignor to Eastwood and Park, Newark, N. J. Back for mirrors, brushes, or similar articles	35,993	Aug. 12	100	1552
Underwood, William E., Gainesville, Tex. Spur-body	35,696	Feb. 4	98	1021
Underwood, William E., Gainesville, Tex. Spur-body	35,697	Feb. 4	98	1021
United States Chemico Wood Company. (See Herbert, Henry J., assignor.)				
Valiquet, Louis P., New York, N. Y. Horn-supporting arm for talking-machines	35,873	Apr. 15	99	654
Valiquet, Louis P., New York, N. Y. Case for talking-machines	35,874	Apr. 15	99	654
Van Guysing, George E., Boston, and J. G. W. Romans, Weymouth, Mass. Case for coin-operated weighing-machines	36,182	Dec. 30	101	3098
Van Orlen, John M., Newark, N. J. Corset	35,572	Jan. 7	98	219
Van Roden, George C., assignor to J. E. Caldwell & Company, Philadelphia, Pa. Pendent pin	35,991	Aug. 12	100	1552
Van't Woud, Victor C., Brooklyn, N. Y. Hot-water bag or similar article	36,172	Dec. 16	101	2559
Vernon, James B., Paola, Kans. Dental-instrument holder	35,610	Jan. 28	98	777
Vredenburg, John S., assignor to Alexander Smith & Sons Carpet Company, Yonkers, N. Y. Carpet	35,635	Jan. 28	98	781
Wade, Linda R., St. Louis, Mo. Bust-pad	35,666	Feb. 4	98	1015
Wagner, Bernard P., Sidney, Ohio. Vessel	35,759	Feb. 18	98	1474
Walker, James F. (See Walker, William H. and J. F.)				
Walker, Janet G., Liverpool, England. Tray or holder for soap	35,724	Feb. 11	98	1272
Walker, William H. and J. F., Gate City, Ala. Mantel	35,988	July 29	100	1108
Wallace, Henry L., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Handle for spoons, forks, or similar articles	35,647	Feb. 4	98	1012
Wallace, Henry L., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Handle for spoons, forks, or similar articles	35,648	Feb. 4	98	1013
Walter, Bernhard C., Norfolk, Nebr. Vehicle-body	35,698	Feb. 4	98	1022
Wanner, Albert, Jr., Hoboken, N. J. Chair-back	35,901	May 6	99	1878
Wanner, Albert, Jr., Hoboken, N. J. Chair-back	35,902	May 6	99	1878
Warren, Edric C., assignor to Century Stove & Manufacturing Company, Johnstown, Pa. Stove	36,159	Dec. 9	101	2275
Warren, Edric C., assignor to Century Stove & Manufacturing Company, Johnstown, Pa. Stove	36,160	Dec. 9	101	2275
Warren, Edric C., assignor to Century Stove & Manufacturing Company, Johnstown, Pa. Stove	36,161	Dec. 9	101	2275
Warren, John D., Chicago, Ill. Cabinet	35,701	Feb. 4	98	1022
Washington, Thomas C., Brookland, D. C. Puzzle-board	35,764	Feb. 18	98	1475
Watkins, Howard E., assignor to Oxley Enos Company, New York, N. Y. Bracket gas-fixture	36,183	Dec. 30	101	3094
Watkins, Howard E., assignor to Oxley Enos Company, New York, N. Y. Ornament for gas-fixture	36,184	Dec. 30	101	3094
Watson and Newell Company. (See Court, Charles S., assignor.)				
Watson and Newell Company. (See Crees and Court, assignors.)				
Watson and Newell Company. (See Straker, Joseph E., assignor.)				
Watts, David H., Jr., Philadelphia, Pa. Tile	35,691	Feb. 4	98	1020
Weary, Edwin D., Chicago, Ill. Mosaic floor-covering	35,949	June 10	99	2539
Weeks, Hubbard F., Freehold, N. J. Axle-center and fifth-wheel plate	35,580	Jan. 14	98	410
Weeks, Lewis D., Santa Margarita, Cal. Egg-case filler	35,672	Feb. 4	98	1017
Weihman, Henry A., assignor to Simons Brothers & Company, Philadelphia, Pa. Back for hand-mirrors or similar articles	36,106	Oct. 14	101	439
Weihman, Henry A., assignor to Simons Brothers & Company, Philadelphia, Pa. Back for hand-mirrors or similar articles	36,107	Oct. 14	101	439
Weihman, Henry A., assignor to Simons Brothers & Company, Philadelphia, Pa. Back for hand-mirrors or similar articles	36,108	Oct. 14	101	439
Welch, James E., Burdickville, Mich. Monument	35,688	Feb. 4	98	1020
Wells, Frank A., New York, N. Y. Bidet	35,853	Apr. 8	99	436
Wells, Frank A., New York, N. Y. Bidet	35,854	Apr. 8	99	436
Wells, George W., Southbridge, Mass. Cylinder-lens	35,769	Feb. 25	98	1697
Welsbach Light Company. (See Stites, Townsend, assignor.)				
Wensch, Muna, Brooklyn, N. Y. Bandage	35,708	Feb. 11	98	1270
Wetherheimer, Lacy, New York, N. Y. Skirt-holder plate	35,990	Aug. 12	100	1554
West, George R., Wilkesburg, Pa. Plate	36,030	Aug. 26	100	1967
Westerfield, Richard H., Kenton, Ohio. Range	35,987	Aug. 5	100	1321
Westerfield, Richard H., Kenton, Ohio. Range	35,988	Aug. 5	100	1321
Westerfield, Richard H., Kenton, Ohio. Range	35,989	Aug. 5	100	1321
Westerfield, Richard H., Kenton, Ohio. Range	35,990	Aug. 5	100	1321
Whiting Manufacturing Company. (See Osborne, Charles, assignor.)	36,006	Aug. 12	100	1555
Whittall, Matthew J. (See Brown, Louis H., assignor.)				
Whittall, Matthew J. (See Haas, Frank A., assignor.)				
Whittall, Matthew J. (See Perry, William A., assignor.)				
Wickham-von Kuppen, Madge, New York, N. Y. Pin	36,174	Dec. 23	101	2811
Wightman and Hough Co. (See Such, Charles H., assignor.)				
Wightman and Hough Company. (See Bowen, William C., assignor.)				
Wilburn, Minnie C., Denver, Colo. Medal	35,709	Feb. 11	98	1260
Wilentshik, Bernhard, New York, N. Y. Belt	35,571	Jan. 7	98	219
Wilkes, Samuel G., Taunton, Mass. Teapot or similar article	36,156	Dec. 9	101	2274
William B. Durgin Company. (See Carlson, William E., assignor.)				
William M. Crane Company. (See Shepard, Charles D., assignor.)				
Wilson, Frederick G., assignor to Joseph Seymour Manufacturing Company, Syracuse, N. Y. Handle for spoons or similar articles	35,821	Mar. 18	98	2355
Wilson, Luther B., trustee. (See Ewing, James L., assignor.)				
Witman, John A., Columbus, Ohio. Gas heating-stove	35,620	Jan. 28	98	730

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Wittstein, Alfred H., assignor to Schrader-Wittstein Company, Chicago, Ill. Solitaire-gem setting	35,741	Feb. 18	98	1471
Wittstein, Charles T., assignor to Schrader-Wittstein Company, Chicago, Ill. Solitaire-gem-setting finger-ring	35,742	Feb. 18	98	1472
Wittstein, Charles T., assignor to Schrader-Wittstein Company, Chicago, Ill. Solitaire-gem-setting finger-ring	35,743	Feb. 18	98	1472
Wittstein, Charles T., assignor to Schrader-Wittstein Company, Chicago, Ill. Solitaire-gem-setting finger-ring	35,744	Feb. 18	98	1472
Wittstein, Charles T., assignor to Schrader-Wittstein Company, Chicago, Ill. Solitaire-gem-setting finger-ring	35,745	Feb. 18	98	1472
Wohlman, Louisa, New York, N. Y. Souvenir-plate	36,013	Aug. 19	100	1753
Wolf, Louis, New York, N. Y. Side frame for chatelaine-bags	36,075	Sept. 16	100	2597
Wolff, Elzy M., Mansfield, Ohio. Monument	35,950	June 10	99	2539
Wood, St. John, New York, N. Y. Cut stone	36,103	Oct. 14	101	439
Wood, St. John, New York, N. Y. Cut stone	36,104	Oct. 14	101	439
Wood, St. John, New York, N. Y. Cut stone	36,131	Nov. 4	101	1118
Wood, St. John, New York, N. Y. Cut stone	36,142	Nov. 18	101	1597
Woodbury, George E., Charlotte, Mich. Trace-holder	35,665	Feb. 4	98	1015
Woodford, Romanta D., Cortland, N. Y. Brace for carriage running-gear	35,762	Feb. 18	98	1475
Woodward, Thomas J., Birmingham, assignor to Chance Brothers and Co., Limited, West Smethwick, England. Ornamental tile	35,772	Feb. 25	98	1697
Woodward, Thomas J., Birmingham, assignor to Chance Brothers and Co., Limited, West Smethwick, England. Ornamental tile	35,773	Feb. 25	98	1697
Woodward, Thomas J., Birmingham, assignor to Chance Brothers and Co., Limited, West Smethwick, England. Ornamental tile	35,774	Feb. 25	98	1698
Woodward, Thomas J., Birmingham, assignor to Chance Brothers and Co., Limited, West Smethwick, England. Ornamental tile	35,775	Feb. 25	98	1698
Woolsey, James A., Dewville, Tex. Wrench-handle	35,858	Apr. 15	99	651
Worms & Loeb. (See Eiseman, Moses H., assignor.)				
Wright, Joseph H., New York, N. Y. Shade-cloth	36,093	Sept. 30	100	3003
Wright, Joseph H., New York, N. Y. Shade-cloth	36,102	Oct. 7	101	208
Ziegler, Alfred M., Boston, Mass. Garment-grip	35,650	Feb. 4	98	1014





# ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Name, residence, and title.	No.	Date.	Volume.	Page.	Official Gazette.
A. Baldwin & Co., Ltd., New Orleans, La. Metal-polish	38,489	June 17	99	2765	
A. Geisel Manufacturing Company, St. Louis, Mo. Enameled ware	38,313	May 20	99	1862	
A. Spiegel Co., Milwaukee, Wis. Tonic for the bladder and kidneys	38,917	Sept. 23	100	2768	
A. C. Lawrence Leather Co., Boston, Mass. Leather	37,682	Jan. 23	98	785	
A. C. Lawrence Leather Co., Boston, Mass. Leather	37,683	Jan. 28	98	785	
A. J. Jordan Cutlery Co., St. Louis, Mo. Razor-strops	38,824	Aug. 19	100	1759	
A. M. Townsend, Inc., Boston, Mass. Medicines for certain named diseases	39,278	Nov. 18	101	1598	
Aachener Thermal-Wasser (Kaiserbrunnen) Actien-Gesellschaft, Aix-la-Chapelle, Germany. Mineral water	38,230	May 6	99	1379	
Aachener Thermal-Wasser (Kaiserbrunnen) Actien-Gesellschaft, Aix-la-Chapelle, Germany. Mineral water	38,230	May 6	99	1379	
Abilene Company, Abilene, Kans. Mineral water	38,230	May 6	99	1379	
Abt, Louis W., Chicago, Ill. Remedy for certain named diseases	38,117	Apr. 15	99	659	
Acker, Merrill & Condit, New York, N. Y. Certain named grocer's sundries	37,746	Feb. 4	98	1026	
Acme Mfg Co., Southington, Conn. Certain named hardware	38,336	May 27	99	2094	
Acme Milling Company, Indianapolis, Ind. Wheat-flour	38,607	July 15	100	675	
Actien-Gesellschaft für Anilin-Fabrikation, Berlin, Germany. Certain named chemical substances and preparations	39,082	Oct. 21	101	655	
Actien-Gesellschaft für Anilin-Fabrikation, Berlin, Germany. Certain named chemical substances and preparations	37,733	Feb. 4	98	1025	
Actien-Gesellschaft für Anilin-Fabrikation, Berlin, Germany. Photographic plates and films	37,734	Feb. 4	98	1025	
Actien-Gesellschaft für Anilin-Fabrikation, Berlin, Germany. Artificial food derived from albuminoids	37,916	Mar. 11	98	2164	
Actien-Gesellschaft für Anilin-Fabrikation, Berlin, Germany. Films, plates, and photographic papers	38,848	Aug. 26	100	1970	
Actien-Gesellschaft für Anilin-Fabrikation, Berlin, Germany. Coal-tar dyestuffs	38,950	Sept. 30	100	3005	
Actien-Gesellschaft für Anilin-Fabrikation, Berlin, Germany. Pharmaceutical products for certain named purposes	38,951	Sept. 30	100	3005	
Adam Roth Grocery Company, St. Louis, Mo. Canned fruits and vegetables	39,367	Nov. 25	101	1826	
Adam Scheidt Brewing Company, Norristown, Pa. Beer	39,602	Dec. 30	101	3101	
Adams, James E., Quincy, Ill. Overalls and shirts and jumpers to be worn in connection with overalls	39,283	Nov. 18	101	1599	
Adler & Co., New York, N. Y. Gloves	38,905	Sept. 23	100	2767	
Adler, Henry, Pittsburgh, Pa. Ranges	38,598	July 1	100	224	
Admiral Anchor Co., Chester, Pa. Anchors	38,495	June 17	99	2766	
Advance Packing & Supply Company, Chicago, Ill. Pumps and compressors	38,176	Apr. 22	99	858	
Aeolipyle Company, New York, N. Y. Ventilating-dampers, draft-regulators, and smoke-venting apparatus	39,266	Nov. 11	101	1366	
Ahrens, John E., New York, N. Y. Whisky	38,905	Sept. 9	100	2380	
Ajax Metal Company, Philadelphia, Pa. Babbitt metal	38,496	June 10	99	2542	
Ajax Metal Company, Philadelphia, Pa. Babbitt metal	39,544	Dec. 23	101	2816	
Akerley Mfg. Co., Reading, Mass. Brushes	39,545	Dec. 23	101	2817	
Akouphe Manufacturing Co., New York, N. Y. Apparatus for massaging inner parts of the ear	38,407	June 3	99	2315	
Alart and McGuire, New York, N. Y. Pickled olives	39,258	Nov. 11	101	1366	
Alaska Packers Association, San Francisco, Cal. Canned salmon	37,729	Feb. 4	98	1025	
Alaska Packers Association, San Francisco, Cal. Canned salmon	37,728	Feb. 4	98	1025	
Alaska Packers Association, San Francisco, Cal. Canned fish	38,954	Sept. 23	100	2770	
Alaska Packers Association, San Francisco, Cal. Canned fish	39,179	Nov. 4	101	1122	
Alaska Packers Association, San Francisco, Cal. Canned fish	39,180	Nov. 4	101	1122	
Alaska Packers Association, San Francisco, Cal. Canned fish	39,181	Nov. 4	101	1122	
Albany Perforated Wrapping Paper Co., Albany, N. Y. Wrapping, waxed, and toilet paper	38,666	July 29	100	1104	
Albee, Helen R., Pequaket, N. H. Carpets and rugs	39,062	Oct. 21	101	653	
Allegheny Steel & Iron Company, Harrison township, Allegheny county, Pa. Oxidized metal sheets	39,051	Oct. 14	101	444	
Allen & Hanburys, Limited, London, England. Certain named medicine	37,961	Mar. 18	98	2357	
Allgemeine Thermit-Gesellschaft M. B. H., Essen-on-the-Ruhr, Germany. Metal compounds for certain named purposes	39,543	Dec. 23	101	2816	
Allison, Reuben K., York, Pa. Flour	38,255	May 13	99	1615	
Alpers Chemical Company, New York, N. Y. External remedies	38,383	May 27	99	2096	
Alpers, William C., New York, N. Y. Certain named medicine	37,647	Jan. 14	98	411	
Altenheim Medical Dispensary, Cincinnati, Ohio. Remedies for treatment of the hair and scalp	38,728	Aug. 5	100	1325	
Altenheim Medical Dispensary, Cincinnati, Ohio. Remedies for treatment of the hair and scalp	38,758	Aug. 12	100	1557	
Altenheim Medical Dispensary, Cincinnati, Ohio. Remedy for the hair and scalp	38,759	Aug. 12	100	1558	
Ambach, Harry, Baltimore, Md. Certain named clothing	39,352	Nov. 25	101	1824	
American Bangor Slate Company, Easton, Pa. Roofing-slate	38,371	May 27	99	2068	
American Cereal Co., Akron, Ohio, and Chicago, Ill. Stock-food	38,724	Aug. 5	100	1324	
American Cereal Co., Akron, Ohio; Chicago, Ill., and Cedar Rapids, Iowa. Prepared cereal food	38,721	Aug. 5	100	1324	
American Cereal Co., Akron, Ohio; Chicago, Ill., and Cedar Rapids, Iowa. Prepared cereal food	38,993	Oct. 7	101	211	
American Circular Loom Co., Chelsea, Mass. Insulating-tubes or tubular coverings for electric wires	38,284	May 13	99	1618	
American Condensed Coffee Co., Oakland, Cal. Coffee and certain named coffee-improvers	39,284	Nov. 18	101	1599	
American Confection Company, Boston, Mass. Certain named confections	39,175	Nov. 4	101	121	
American Fire Engine Company, Seneca Falls, N. Y. Steam fire-engines	38,496	June 17	99	2766	
American Hard Rubber Co., New York, N. Y. Insulating material	38,633	July 15	100	678	
American Manufacturing Co., Greensboro, N. C. Overalls and coats	38,058	Apr. 8	99	438	
American Optical Co., Southbridge, Mass. Spectacles and eyeglasses	37,633	Jan. 14	98	411	
American Optical Co., Southbridge, Mass. Eyeglass and spectacle frames or mountings	37,755	Feb. 4	98	1027	
American Optical Co., Southbridge, Mass. Eyeglass and spectacle frames or mountings	37,756	Feb. 4	98	1027	
American Optical Co., Southbridge, Mass. Eyeglass and spectacle frames or mountings	37,757	Feb. 4	98	1027	
American Pottery Supply Company of Baltimore City, Baltimore, Md. Cleaning and polishing compound	38,735	Aug. 5	100	1325	
American School Furniture Company, New York, N. Y. Blackboard-crayons	38,868	Sept. 2	100	2172	



*Alphabetical list of registrants of trade-marks—Continued.*

Name, residence, and title.	No.	Date.	Official Gazette.	
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American Sheet Steel Company, New York, N. Y. Planished sheet-steel	39,552	Dec. 23	101	2818
American Standard Composition Co., Washington, D. C. Compositions for coating wood and metal.	38,867	Sept. 2	100	2172
American Stove Company, Jersey City, N. J. Cooking stoves and ranges	38,784	Aug. 12	100	1560
American Tank & Fixture Company, Chicago, Ill. Gas-fixtures	38,785	Aug. 5	100	1539
American Thread Company, Jersey City, N. J. Cotton thread, worsted, and yarn	39,234	Nov. 11	101	1362
American Tin Plate Co., New York, N. Y. Tin plates andterne plates	39,356	Nov. 25	101	1825
American Tin Plate Co., New York, N. Y. Tin plates andterne plates	39,357	Nov. 25	101	1825
American Tin Plate Co., New York, N. Y. Tin plates andterne plates	39,358	Nov. 25	101	1825
American Tin Plate Co., New York, N. Y. Tin plates andterne plates	39,359	Nov. 25	101	1825
American Type Foundry Company, New York, N. Y. Fonts of type	39,505	Dec. 16	101	2564
American Type Founders Company, New York, N. Y. Machines and tools for making paper boxes.	38,045	Apr. 1	99	223
American Varnish Company, Chicago, Ill. Varnishes	38,416	June 3	99	2316
American Varnish Company, Chicago, Ill. Varnishes	39,044	Oct. 14	101	444
American Varnish Company, Chicago, Ill. Varnishes	39,045	Oct. 14	101	444
American Washboard Co., Cleveland, Ohio. Washboards	38,445	June 10	99	3444
American Witch-Hazel Corporation, New York, N. Y. Witch-hazel.	39,467	Dec. 9	101	2382
American Witch-Hazel Corporation, New York, N. Y. Witch-hazel.	39,462	Dec. 9	101	2382
American Wringer Co., New York, N. Y. Certain named laundry appliances	39,503	Dec. 16	101	2563
American Wringer Co., New York, N. Y. Certain named laundry appliances	39,504	Dec. 16	101	2563
American Wringer Co., Providence, R. I. Certain named laundry-machines.	39,501	Dec. 16	101	2563
American Wringer Co., Providence and Woonsocket, R. I., New York and Auburn, N. Y., and Erie, Pa. Certain named laundry appliances	39,502	Dec. 16	101	2563
American Writing Paper Co., Springfield, Mass. Writing-paper and drawing-paper	39,445	Dec. 9	101	2380
Anidin, Frederick S., Hartford, Conn. Stomach bitters or tonics	39,003	Oct. 7	101	213
Amoskeag Manufacturing Company, Manchester, N. H. Tickings	38,716	Aug. 5	100	1323
Amulet Chemical Co., New York, N. Y. Neckbands andteething-bands	37,686	Jan. 28	98	786
Andersen & Darrow, Chicago, Ill. Meal and flour of corn, wheat, oats, and other cereals	38,477	June 17	99	2764
Anderson Cotton Mills, Anderson, S. C. Cotton sheetings	38,419	June 10	99	2341
Androscegin Mills, Lewiston, Me. Grain-bags	38,419	June 10	99	2341
Anglo-American Direct Tea Trading Co., Ltd., Glasgow, Scotland. Coffee	38,394	June 8	99	2314
Anglo-American Oil Company, Ltd., London, England. Illuminating-oils	39,095	Oct. 21	101	656
Anglo-American Oil Company, Ltd., London, England. Illuminating-oils	39,096	Oct. 21	101	656
Anglo-American Oil Company, Ltd., London, England. Illuminating-oils	39,192	Nov. 4	101	1123
Anglo-Saxon Shoe Co., Boston, Mass. Leather shoes	38,794	Aug. 19	100	1756
Anglo-Swiss Condensed Milk Co., New York, N. Y. Certain named dairy products	38,113	Apr. 15	99	658
Anti-Cholera Company, Shelby, Nebr. Remedy in liquid form for diseases of swine and poultry	39,256	Nov. 11	101	1366
Antiglia Chemical Company, Richmond, Va. Powders and tablets for treatment of headache and neuralgia	39,024	Oct. 14	101	442
Aplin & Barrett & Western Counties Creameries, Ltd., Yeovil, England. Certain named foods and relishes	38,074	Apr. 8	99	440
Aquarama Company, New York, N. Y. Hydraulic roundabouts	37,831	Feb. 18	98	1180
Aquarama Company, New York, N. Y. Hydraulic roundabouts	37,832	Feb. 18	98	1180
Arbuckle Bros., New York, N. Y., Pittsburg, Pa., and Chicago, Ill. Coffee	39,334	Nov. 25	101	1822
Arbuckles & Co., Pittsburg, Pa. Canned fruits and vegetables	39,333	Dec. 23	101	2815
Archer Starch Co., Chicago, Ill. Corn-starch, laundry-starch, and mill-starch	37,446	Jan. 14	98	412
Arment, Joseph A., Portland, Oreg. Cough-drops	38,542	July 1	100	225
Armour & Company, Chicago, Ill. Lard and lard compound	38,039	Apr. 1	99	223
Armstrong, Christopher G., Chelmsford, Mass., and Sussex, New Brunswick. Sweet non-alcoholic beverages	37,900	Mar. 4	98	1962
Arnold B. Clover Co., Chicago, Ill. Certain named jewelry	38,324	May 27	99	3702
Asbestolith Company, New York, N. Y. Cement for floorings, ceilings, and sidings	38,412	June 3	99	2316
Asbestos Manufacturing Co., Philadelphia, Pa. Certain named covering material	37,639	Jan. 14	98	411
Asch & Sons, J. T., New York, N. Y. Hats	38,875	Sept. 9	100	2377
Ashe, Noyes & Small Co., Auburn, Me. Leather boots and shoes	39,269	Nov. 18	101	1598
Ashland Brewing Co., Ashland, Wis. Beer	38,651	July 22	100	927
Ashton, Hoare & Co., Limited, Manchester, England. Unbleached cotton piece goods not figured or printed	38,981	Oct. 7	101	210
Ashton, Hoare & Co., Limited, Manchester, England. Unbleached cotton piece goods not figured or printed	38,982	Oct. 7	101	210
Ashworth, George B., St. Paul, Minn. Ointment for treating rectal and skin diseases	38,755	Aug. 12	100	1557
Ashworth, James T., Chicopee, Mass. Certain named veterinary bandages	38,465	June 17	99	2762
Aspegren & Co., New York, N. Y. Dried fruits	38,959	Sept. 30	100	3006
Aspegren & Co., New York, N. Y. Greases employed in soap-making	38,960	Oct. 7	101	211
Aspinwall, John, Barrytown, N. Y. Ties	38,890	Aug. 26	100	1369
Athens Knitting Co., Athens, N. Y. Undershirts	38,601	July 15	100	674
Atkinson, Frederick G., Minneapolis, Minn. Wheat-flour	38,303	May 20	99	1361
Atlas Oats Company, Kansas City, Mo. Certain named prepared cereals	39,079	Oct. 21	101	654
Aurora Acetylene Co., Chattanooga, Tenn. Certain named acetylene gas apparatus	39,159	Oct. 28	101	894
Ayres, Sallie F., Washington, D. C. Breakfast-food	37,850	Feb. 25	98	1700
Ayres & Sons, Walling, Philadelphia, Pa. Horse-blankets	38,010	Apr. 1	99	220
B. Muratti, Sons & Co., Limited, Manchester, England. Smoking-tobacco, cigars, cheroots, and cigarettes	37,718	Feb. 4	98	1024
B. A. Corbin & Son Co., Webster, Mass. Men's, boys', and youths' shoes	38,912	Sept. 23	100	2768
B. F. Goodrich Co., Akron, Ohio. Certain named rubber goods	39,238	Nov. 11	101	1363
Baer, Louis, New York, N. Y. Certain named fur neckwear	37,634	Jan. 14	98	411
Bailey, William J., executor. (See Fenning's, Alfred.)				
Baker, Daniel B., New York, N. Y. Cigars	38,380	June 3	99	2312
Baker, Edward N., Des Moines, Iowa. Nerve-tonic	38,677	July 29	100	1105
Baker, Jonathan, Buffalo, N. Y. Certain named veterinary remedies	39,460	Dec. 9	101	2381
Balsam Medicinal Co., Sylva, N. C. Blood, liver, and kidney remedies	37,863	Feb. 25	98	1701
Barnay, Flora S., Budapest, Austria-Hungary. Pills for preventing or reducing corpulency	39,455	Dec. 9	101	2381
Barnes, Albert C., Philadelphia, Pa. Silver vitellin used for medicinal purposes	39,326	Nov. 18	101	1694
Barthart Brothers & Spindler, Chicago, Ill. Steel for chases for printing-presses	38,774	Apr. 32	99	858
Barman and Company, Manchester, England. Certain named dry goods	38,148	Apr. 22	99	855
Barry & Co., T. D., Brockton and Boston, Mass. Shoes	38,529	July 1	100	224
Bartels Brewing Company, Syracuse, N. Y. Ales	38,678	Aug. 29	100	1105
Bartlett, Hugh G., Fall River, Mass. Hats	38,707	Aug. 5	100	1322
Bartley, William H., Buffalo, N. Y. Complexion tonic	39,248	Nov. 11	101	1365
Bastian Sho. Mfg. Co., Burlington, N. J. Women's, misses', and children's shoes	38,154	Apr. 22	99	856
Batcheller, George C., New York, N. Y. Corsets	38,148	Oct. 7	99	859
Bathrick, Ellsworth R., Akron, Ohio. Remedies for diseases of the stomach	39,529	Dec. 23	101	2814
Baton Rouge Liquor & Cigar Co., Ltd., Baton Rouge, La. Stomach-bitters	38,026	Apr. 1	99	222
Bausch Machine Tool Company, Springfield, Mass. Certain named machines	38,370	May 27	99	218

## Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Bawo & Dotter, New York, N. Y. Clock movements and cases and chime devices	37,694	Jan. 28	98	787
Beggs, Andrew J., Dallas, Tex. Blood specific	37,864	Feb. 25	98	1701
Baxter & Bro., H. C., Brunswick, Me. Canned vegetables and canned fruits	38,898	Sept. 16	100	2598
Beasley, William F., New York, N. Y. Rubber tires	39,550	Dec. 23	101	2817
Beaumont Soap Co., Mayfield, Ky. Soap	38,403	June 3	99	2315
Beckers, Wilhelm, New York, N. Y. Dyeing and tanning assistant	38,764	Aug. 12	100	1558
Becton, Dickinson & Co., New York, N. Y. Thermometers, surgical glassware and instruments	38,810	May 20	99	1861
Beggs, Frank L., Newark, Ohio. Leather	38,795	Aug. 19	100	1756
Belser, Rufus W., Brooklyn, N. Y. Toys and display-trays or carriers for toys	38,806	Aug. 19	100	1757
Belgian Plate & Window Glass Co., Ltd., New York, N. Y., and Brussels, Belgium. Certain named glass	37,804	Feb. 18	98	1477
Belgian Plate & Window Glass Co., Ltd., New York, N. Y., and Brussels, Belgium. Picture and window glass	39,866	Nov. 25	101	1826
Bell & Bogart Soap Co., New York, N. Y. Soap	39,413	Dec. 2	101	2072
Bell Manufacturing Co., St. Louis, Mo. Soap	37,648	Jan. 14	98	412
Belton Mills, Belton, S. C. Sheetings	39,040	Oct. 14	101	443
Belton Mills, Belton, S. C. Sheetings	38,504	June 24	99	2958
Belton Mills, Belton, S. C. Sheetings	38,505	June 24	99	2959
Belton Mills, Belton, S. C. Sheetings	38,505	July 8	100	444
Belton Mills, Belton, S. C. Sheetings	38,942	Sept. 30	100	2004
Bendiner & Schlesinger, New York, N. Y. Tonic and restorative medicines	37,858	Feb. 25	98	1701
Benson, Robert L., Chicago, Ill. Atomizing apparatus	39,260	Nov. 11	101	1365
Bentley & Olmsted Company, Des Moines, Iowa. Men's, women's, boys', and misses' shoes	37,887	Mar. 4	98	1960
Benzie-ated Soap Company, Camden, N. J. Cake-soap, soap-powder, and washing fluids	39,493	Dec. 16	101	2562
Berdan & Co., Toledo, Ohio. Certain named food products	39,330	Nov. 25	101	1822
Berdan & Co., Toledo, Ohio. Certain named food products	39,331	Nov. 25	101	1822
Berdan & Co., Toledo, Ohio. Maple-syrup, sugar syrups, and molasses	39,340	Nov. 25	101	1823
Berdan & Co., Toledo, Ohio. Certain named canned food products	39,341	Nov. 25	101	1823
Berdan & Co., Toledo, Ohio. Catsup, sauces, and salad-dressings	39,378	Dec. 2	101	2068
Berdan & Co., Toledo, Ohio. Canned sea-foods	39,432	Dec. 9	101	2378
Bernese Alps Milk Co., Stalden, Switzerland. Milk and milk products	39,563	Dec. 30	101	3096
Berry, Alfred H., Portland, Me. Ladies' boots and shoes	38,965	Sept. 30	100	3007
Berry Brothers, Limited, Detroit, Mich. Wood-alcohol	37,710	Feb. 4	98	1023
Bestor, Owen B., administrator. (See Draper, Oscar M.)	39,344	Nov. 11	101	1366
Bevan & Co., Malaga, Spain. Almonds	38,849	Aug. 26	100	1970
Bevin Bros. Mfg. Co., East Hampton, Conn. Team-bells	39,211	Nov. 4	101	1125
Big Four Oil Company, Beaumont, Tex. Fuel and illuminating oil	37,905	Mar. 4	98	1963
Bilbo, John C., Laurel, Tex. Remedies for the cure of rheumatism	37,925	Mar. 11	98	2165
Bill, Bell & Co., Ogdensburg, N. Y. Flour	37,644	Jan. 14	98	412
Binghamton Felt Co., Binghamton, N. Y. Felt and certain named felt goods	38,913	Sept. 23	100	2708
Binney & Smith, New York, N. Y. Crayons and pencils	38,375	Oct. 7	101	209
Biogene Manufacturing Co., Philadelphia, Pa. Tonic medicine	39,002	Oct. 7	101	213
Bird & Co., J. A. & W., Boston, Mass. Roofing-felt	37,782	Feb. 11	98	1277
Birdsey & Somers, New York, N. Y. Corsets	38,326	May 27	99	2092
Birk Bros. Brewing Co., Chicago, Ill. Beer and malt extract	38,968	Sept. 30	100	3007
Bishop, Frank E., Baltimore, Md. Proprietary compounds for certain named diseases	39,277	Nov. 18	101	1598
Bissell Carpet Sweeper Co., Grand Rapids, Mich. Carpet-sweepers	37,823	Feb. 18	98	1479
Bissell Carpet Sweeper Co., Grand Rapids, Mich. Carpet-sweepers	38,824	Feb. 18	98	1479
Bissell Carpet Sweeper Co., Grand Rapids, Mich. Carpet-sweepers	38,367	May 27	99	2097
Bissell Carpet Sweeper Co., Grand Rapids, Mich. Carpet-sweepers	39,262	Nov. 11	101	1366
Bissell Carpet Sweeper Co., Grand Rapids, Mich. Toy carpet-sweepers	39,416	Dec. 9	101	2377
Blackmore, Henry S., Mount Vernon, N. Y. Petroleum fluid for certain named purposes	39,429	Dec. 9	101	2378
Blake, Moffitt & Towne, San Francisco, Cal. Certain named paper	38,051	Apr. 8	98	438
Blanchard, Joseph, Minneapolis, Minn. External remedy for skin diseases	38,352	May 27	99	2095
Blackover, Marks, San Francisco, Cal. Cigars, cheroots, and cigarettes	38,776	Aug. 12	100	1559
Bleistfabrikvormals Johann Faber Actiengesellschaft, Nuremberg, Germany. Certain named articles of stationery	39,448	Dec. 9	101	2280
Bleyer, Samuel E., St. Louis, Mo. Baking-powder	38,429	June 10	99	2542
Bliss & Co., L. C., Boston and Whitman, Mass. Leather-dressing	38,204	Apr. 29	99	1166
Bliss & Co., L. C., Boston and Whitman, Mass. Appurtenances for the care of boots and shoes	38,406	June 3	99	2315
Boesch, Guillermo, Orizaba, Mexico. Coffee	39,177	Nov. 4	101	1121
Bolker & Co., Heinrich, Solingen, Germany. Pocket-knives, razors, and scissors	38,067	Apr. 8	98	441
Boomer Coal & Coke Co., Columbus, Ohio. Coal	37,769	Feb. 4	98	1028
Borne Scrymser Company, Elizabeth, N. J., and New York, N. Y. Lubricating-oil	37,763	Feb. 4	98	1027
Borne-Scrymser Company, Elizabeth, N. J., and New York, N. Y. Lubricating-oil	39,245	Nov. 11	101	1365
Borsch & Co., Chicago, Ill. Nose-guards for eyeglasses and spectacles	38,417	June 10	99	2541
Boss & Son, C. D., New London, Conn. Crackers and biscuit	38,479	June 17	99	2764
Bossard-Lemaire, Paris, France. Hygienic cream or paste for the skin	37,741	Feb. 4	98	1026
Boston Bottle & Labeling Co., Boston, Mass. Machines for applying or pasting labels	38,214	Apr. 29	99	1166
Bovey, Charles C., Minneapolis, Minn. Wheat-flour	39,318	Nov. 18	101	1603
Bowell & Bircham Manufacturing Company, Rolling Prairie, Ind. Veterinary remedies for cholera	38,763	Aug. 12	100	1558
Bowers Rubber Co., San Francisco, Cal. Rubber hose, belting, and packing	37,716	Feb. 4	98	1024
Bowers Rubber Co., San Francisco, Cal. Rubber hose, belting, and packing	37,717	Feb. 4	98	1024
Brower Insecticide Company, Boston, Mass. Fungicides and insecticides	38,513	June 24	99	2960
Brown Bros. Despatch, N. Y. Dried and evaporated fruits and vegetables	38,771	Aug. 12	100	1559
Brown Bros. Despatch, N. Y. Dried and evaporated fruits and vegetables	39,036	Oct. 14	101	443
Brown Bros. Despatch, N. Y. Dried and evaporated fruits and vegetables	39,074	Oct. 21	101	654
Boyajian Bros., New York, N. Y. Oriental rugs, carpets, hangings, and table-coverings	39,556	Dec. 30	101	3095
Boyce, Edward C., New York, N. Y. Certain named amusement apparatus	39,499	Dec. 16	101	2593
Boyd, Thomas L., Chicago, Ill. Lard	38,933	Sept. 23	100	2707
Brachvogel, Robert A., Chicago, Ill. Tablets or pellets for the breath	38,013	Apr. 1	99	220
Bradley, Winant V. P., Toledo, Ohio. Record for disk talking-machines	38,639	July 22	100	926
Bradley, Winant V. P., Toledo, Ohio. Disk talking-machines	38,668	July 29	100	1104
Brainard, Charles J., South Orange, N. J. Medicine for either internal or external use	39,090	Oct. 21	101	656
Brauss, Rudolf, New York, N. Y. Fire-crackers	39,364	Nov. 25	101	1826
Bray & Co., Geo., Leeds, England. Gas-burners	38,636	July 15	100	678
Bray & Co., Geo., Leeds, England. Gas-burners	38,636	Aug. 19	100	1760
Bray & Co., Geo., Leeds, England. Gas-burners	38,636	Aug. 19	100	1760
Brigonet, Père & Fils & Gaubert, St. Denis, France. Pharmaceutical preparations for certain named diseases	38,827	Aug. 19	100	1760
Brinker & Schwener, Cincinnati, Ohio. Cheese	39,347	Nov. 25	101	1824
Briscoco Manufacturing Co., Detroit, Mich. Sheet-metal stoves, pails, tubs, and cans	38,991	Oct. 7	101	211
Bristol Drug Company, Ansonia, Conn. Vermin-exterminator containing no sugar	39,320	Nov. 18	101	1603
Broderick & Nearey, New York, N. Y. Imitation leather	38,201	Apr. 29	99	1166
	37,715	Feb. 4	98	1024



*Alphabetical list of registrants of trade-marks—Continued.*

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Bromo Chemical Company, Salt Lake City, Utah. Remedies for la grippe, colds, and headache	37,788	Feb. 11	98	1277
Brophy Brothers' Shoe Company, Lynn, Mass. Shoes	38,382	June 3	99	2313
Brown, Annie L., New York, N. Y. Pickles	39,379	Dec. 2	101	2098
Brown Brothers & Co., New York, N. Y. Checks, drafts, and notes	38,215	May 6	99	1319
Brown Manufacturing Co., Greenville, Tenn. Balms for nasal and catarrhal affections	37,783	Feb. 11	98	1277
Brown-Winstanley Co., Los Angeles, Cal. Bottle-cleaning shot	38,611	July 15	100	675
Brownell, William E., New Bedford, Mass. Remedies for certain named diseases	39,312	Nov. 18	101	1602
Browning, Ira L., Rich. V. Va. Cancer and tumor cures	38,468	June 17	99	2763
Brunswick-Balke-Collender Company, Cincinnati, Ohio, and Chicago, Ill. Certain named cleaning and polishing compounds	39,133	Oct. 28	101	881
Bryan Bros. Candy Co., Wichita, Kan. Certain named medicines	38,887	Sept. 9	100	2370
Bryan Bros. Candy Co., Wichita, Kan. Certain named medicines	39,253	Nov. 11	101	1365
Bryan Marsh Company, New York, N. Y. Incandescent electric lamps	38,697	July 29	100	1107
Bryan Marsh Company, New York, N. Y. Incandescent electric lamps	38,698	July 29	100	1107
Buchanan, James, London, England. Whisky	37,852	Feb. 25	98	1700
Buchanan, James, London, England, and Glasgow, Leith, and Glenlivet, Scotland. Whisky	37,853	Feb. 25	98	1700
Buchanan, James, London, England, and Glasgow, Leith, and Glenlivet, Scotland. Whisky	38,774	Aug. 12	100	1559
Buckeye Electric Co., Cleveland, Ohio. Incandescent electric lamps	38,779	Aug. 12	100	1560
Buffalo Cereal Company, Buffalo, N. Y. Certain named food products	38,257	May 13	99	1615
Bull, Benjamin S., Minneapolis, Minn. Wheat-flour	37,952	Mar. 18	98	2356
Bull, Benjamin S., Minneapolis, Minn. Wheat-flour	39,147	Oct. 28	101	882
Bunce, Charles W., Fort Wayne, Ind. Medicine for certain named diseases	38,725	Aug. 5	100	1324
Buono, Francesco, Boston, Mass. Liquid medicinal compound for internal and external use	39,089	Oct. 21	101	655
Burdick, Hannah F., Scranton, Pa. Hair-tonics	39,195	Nov. 4	101	1124
Burrows & Saunders, Peoria, Ill. Remedies for certain named diseases	39,063	Apr. 22	99	857
Burtis, George H., Worcester, Mass. Artificial lures	37,821	Feb. 18	98	1479
Burton Bros. & Co., New York, N. Y. Linings	38,834	Aug. 26	100	1968
Burton Bros. & Co., New York, N. Y. Linings	38,835	Aug. 26	100	1968
Bushnell, Alvah, Philadelphia, Pa. Substitute for paper	37,984	Mar. 25	98	2582
Byron Weston Co., Dalton, Mass. Writing-paper	37,997	Apr. 1	99	219
C. Howard Hunt Pen Co., Camden, N. J. Pens	38,901	Sept. 23	100	2767
C. Howard Hunt Pen Co., Camden, N. J. Pens	39,063	Apr. 22	99	857
C. Shenkberg Co., Sioux City, Iowa. Certain named grocery supplies	38,337	May 27	99	2044
C. Shenkberg Co., Sioux City, Iowa. Machine-oil	38,521	June 24	99	2461
C. Shenkberg Co., Sioux City, Iowa. Certain named lubricating-oils	38,522	June 24	99	2461
C. Shenkberg Co., Sioux City, Iowa. Machine-oils	39,191	Nov. 4	101	1123
C. Shenkberg Co., Sioux City, Iowa. Canned fruit, berries, and vegetables	39,376	Dec. 2	101	2067
C. Shenkberg Co., Sioux City, Iowa. Canned fruit, berries, and vegetables	39,377	Dec. 2	101	2067
C. A. Edgerton Mfg. Company, Shirley, Mass. Suspenders	39,164	Oct. 7	101	1120
C. A. Edgerton Mfg. Company, Shirley, Mass. Suspenders	39,165	Nov. 4	101	1120
C & E Shoe Co., Columbus, Ohio. Leather shoes	39,560	Dec. 30	101	3005
C. J. Fletcher Candy Co., Kansas City, Mo. Candy	39,530	Dec. 23	101	2815
C. P. Ford & Co., Rochester, N. Y. Ladies', misses', and children's boots and shoes	38,109	Apr. 15	99	658
Calder, Albert L., deceased, C. A. and A. W. Calder and R. A. Robertson, Providence, R. I., ex- ecutors and trustees. Saponaceous dentine	39,131	Oct. 28	101	881
Calder, Augustus W., et al., executors and trustees. (See Calder, Albert L.)				
Calder, Charles A., et al., executors and trustees. (See Calder, Albert L.)				
Caldwell, Edward, New York, N. Y. Periodical publication or magazine	39,068	Oct. 21	101	653
Caldwell, George W., Middletown, N. Y. Remedies for certain named diseases	38,469	June 17	99	2763
Caldwell, John, New York, N. Y. Scotch whisky	37,854	Feb. 25	98	1700
Caldwell, John, New York, N. Y. Scotch whisky	37,855	Feb. 25	98	1700
Calhoun, Robbins & Company, New York, N. Y. Certain named yarns and thread	38,664	July 29	100	1104
Calman & Co., Emil, New York, N. Y. Varnishes and shellacs	39,154	Oct. 28	101	888
Calvert & Co., F. C., Bradford, Manchester, England. Carbolic acid and preparations contain- ing same	38,688	July 29	100	1106
Cameron, Julia E., New York, N. Y. Steam-pumps	37,701	Jan. 28	98	788
Canfield Rubber Co., Bridgeport, Conn., and New York, N. Y. Dress-shields	38,499	June 24	99	2455
Canfield Rubber Co., Bridgeport, Conn., and New York, N. Y. Dress-shields	38,500	June 24	99	2458
Canfield Rubber Co., Bridgeport, Conn., and New York, N. Y. Rubber dress-shields having a stockinet covering	38,599	Aug. 15	100	674
Carback, John T., Baltimore, Md. Liquid antiseptic veterinary compound for external use	38,706	July 5	100	1322
Carboid Mfg. Co., New York, N. Y. Digestive tablets	38,439	June 10	99	2543
Carey, Henry D., New York, N. Y. Type-writers	39,250	Nov. 11	101	1365
Carey, Henry D., New York, N. Y. Type-writers	37,798	Feb. 11	98	1278
Carey, Henry D., New York, N. Y. Fire, burglar, and water proof safes and vaults	38,560	July 1	100	228
Carleton & Hovey, Lowell, Mass. Remedy for certain named diseases	38,799	Apr. 29	99	1165
Carmel Wine Co., New York, N. Y. Wine	38,622	July 15	100	676
Carmel Wine Co., New York, N. Y. Wine	38,034	Apr. 1	99	222
Carney, George J., Lowell, Mass. Spring-water	38,118	Apr. 15	99	659
Carpathian Medicine Co., St. Louis, Mo. External remedy for cure of skin and blood diseases	39,020	Oct. 14	101	441
Carroll, John W., Lynchburg, Va. Boots and shoes	38,907	Sept. 23	100	2767
Carroll, John W., Lynchburg, Va. Boots and shoes	38,908	Sept. 23	100	2767
Carter's Ink Co., Boston, Mass., and New York, N. Y. Writing-inks	38,797	Aug. 19	100	1756
Casain Company of America, New York, N. Y. Condensed milk in powdered form	38,622	July 15	100	676
Castle Brook Carbon Black Co., Williamsport, Pa. Carbon-black	38,732	Aug. 5	100	1325
Cattaraugus Cutlery Co., Little Valley, N. Y. Flat tableware	37,882	Mar. 4	98	1960
Celeska, Robert F., Carthage, Mo. Certain named medicine	39,481	Dec. 16	101	2561
Celler Filter Werke, Gesellschaft mit Beschränkter Haftung, Celle, Germany. Portable and stationary filters	37,696	Feb. 18	98	1479
Central Foundry Co., New York, N. Y. Pipe lengths	38,267	Nov. 11	99	1366
Central Foundry Co., New York, N. Y. Plumber's fittings	39,294	Nov. 18	101	1600
Central Stock Food Co., Columbus, Nebr. Stock-food	38,515	June 24	99	2460
Century Camera Company, Rochester, N. Y. Certain named photographic goods	38,819	Aug. 19	100	1759
Chadler, Fred B., Darien, Conn. Shaving-soap and shaving-cream	38,018	Apr. 1	99	221
Chambersburg Shoe Mfg. Co., Chambersburg, Pa. Shoes and hose	38,110	Apr. 15	99	658
Chapin-Sacks Mfg. Co., Washington, D. C. Butter	37,935	Mar. 11	98	2166
Chapman, John M., New York, N. Y. Mineral-bearing sands and ores	38,492	June 17	99	2765
Chase, Roberts & Company, Dobbs Ferry and New York, N. Y. Certain named varnishes	38,309	May 20	99	1367
Chase, Rolla M., Bethel, Vt. Dandruff cure and a hair-tonic	37,616	Jan. 7	98	221
Chelf Chemical Co., Richmond, Va. Certain named medicinal preparation	38,467	June 17	99	2762
Chemical Paint Manufacturing Co., Mansfield, Ohio. Paint for metal surfaces	38,490	June 17	99	2765
Chemische Fabrik auf Actien, vorm. E. Schering, Berlin, Germany. Mercury preparations	37,736	Feb. 4	98	1025
Chemische Fabrik auf Actien, vorm. E. Schering, Berlin, Germany. Medical preparations for wounds and certain named diseases	37,744	Feb. 4	98	1026
Chemung Spring Water Company, Chemung, N. Y. Drinking-waters	37,979	Mar. 25	98	2581

## Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Cheney, Frank J., Toledo, Ohio. Disinfectants.	39,247	Nov. 11	101	1365
Chester Kent & Co., Boston, Mass. Laxatives	37,865	Feb. 25	98	1701
Chester Suspender Co., Boston, Mass. Suspenders.	38,001	Apr. 1	99	219
Chicago Fire Proof Covering Co., Chicago, Ill. Fireproof paint or coating	38,765	Aug. 12	100	1558
Chicago-Rockford Hosiery Co., Kenosha, Wis. Underwear, excepting therefrom corsets and				
rical use	37,705	Feb. 4	98	1023
Chick Brothers, Haverhill and Boston, Mass. Boots and shoes	38,448	June 17	99	2761
Chinn-Beretta Optical Co., San Francisco, Sacramento, Stockton, and Oakland, Cal. Lenses.	37,759	Feb. 4	98	1027
Chipman, William A., New York, N. Y. Bicycles	38,090	Apr. 8	99	441
Chipman, William A., New York, N. Y. Sewing-machines and attachments	38,141	Apr. 15	99	661
Chipman, William A., New York, N. Y. Sewing-machines and attachments	38,368	May 27	99	2097
Christman, John F., New York, N. Y. Medical compound for surgical, gynecological, and obstet-				
rical use	38,851	May 27	99	2095
Christy, Russ J., Fremont, Ohio. Razors	39,303	Nov. 18	101	1601
Church & Dwight Co., New York, N. Y. Baking-soda and baking-powder	38,623	July 15	100	677
Cincinnati Game Company, Norwood, Ohio. Game	38,321	May 27	99	2092
Cincinnati Pump Company, Cincinnati, Ohio. Pump curbs and conveyers	39,553	Dec. 23	101	2318
Circle Manufacturing Co., Harwich, Mass. Dressing and polish	38,405	June 3	99	2315
Civilian Shoe Co., Boston, Mass. Leather boots and shoes	39,424	Dec. 9	101	2277
Clarinda Poultry, Butter & Egg Co., Clarinda, Iowa. Poultry	38,575	July 8	100	445
Clark Cast Steel Cement Co., Huntington, Conn. Certain named cement	38,694	July 29	100	1107
Clark, Henry S., New York, N. Y. Antibleenorrhagic	37,924	Mar. 11	98	2165
Clark, Henry S., New York, N. Y. An antimalarial	38,512	June 24	99	2960
Clark-Hutchinson Co., Boston, Mass. Boots, shoes, and slippers and leather for same	39,170	Nov. 4	101	1190
Clements, Alfred, Philadelphia, Pa. Photographic card-mounts	37,888	Mar. 4	98	1961
Clerihew, A. M. and A. E., Minneapolis, Minn. Shirt-waists and wrappers for women	37,007	Jan. 7	98	220
Cleveland Faucet Co., Cleveland, Ohio. Hydraulic air-pumps	38,829	Aug. 19	100	1760
Cleveland Twist Drill Co., Cleveland, Ohio. Certain named tools	37,767	Feb. 4	98	1028
Cleveland Varnish Co., Cleveland, Ohio. Varnishes, japans, finishes, and first coatings	39,246	Nov. 11	101	1365
Cluett, Peabody & Co., Troy, N. Y. Shirts, collars, cuffs, shirt-waists, night-shirts, pajamas,				
and bath-robos	38,452	June 17	99	2761
Cluett, Peabody & Co., Troy, N. Y. Collars and cuffs	38,711	Aug. 5	100	1233
Cocles Clipper Mfg. Co., Worcester, Mass. Barbers clippers	39,363	Nov. 25	101	1826
Coe, Clarke E., Memphis, Tenn. Syrups, sugar, and molasses	37,617	Jan. 7	98	221
Cogswell, John H., Havana, Ill. Explosive gas-engines	39,321	Nov. 18	101	1603
Cohn & Co., H. C., Rochester, N. Y. Neckties	39,513	Dec. 23	101	2313
Cole & Co., J. W., Black River Falls, Wis. Leather-preservative	39,156	Oct. 28	101	833
Cole, Myron W., St. Paul, Minn. Certain named clocks	38,606	July 15	100	675
Colmont, Emile, Paris, France. Binoculars	38,463	June 17	99	2762
Colonial Works, Bonton, N. J. Certain named paints and painters' supplies	38,841	Aug. 26	100	1969
Columbia Chemical Company, Denver, Colo. Certain named antiseptic poultices	37,737	Feb. 4	98	1025
Columbia Incandescent Lamp Co., St. Louis, Mo. Incandescent electric lamps	38,780	Aug. 12	100	1560
Columbian Stock Food Co., Detroit, Mich. Animal-food	37,797	Feb. 11	98	1278
Columbus Forge & Iron Co., Columbus, Ohio. Certain named blacksmiths' tools	37,876	Feb. 25	98	1702
Compañia General de Tabacos de Filipinas, Barcelona, Spain. Woven, knit, dyed, or printed				
fabrics and yarns	37,608	Jan. 7	98	220
Compañia General de Tabacos de Filipinas, Barcelona, Spain. Woven, knit, dyed, or printed				
fabrics and yarns	37,609	Jan. 7	98	220
Compañia General de Tabacos de Filipinas, Barcelona, Spain. Cotton cloth	37,703	Feb. 4	98	1023
Connell, Morris J., Seattle, Wash. Certain named foodstuffs	38,530	July 1	99	1224
Conner & Co., James G., Philadelphia, Pa. Certain named paints	39,078	Oct. 21	101	654
Connolly, James B., New York, N. Y. Indexes, books, and bindings	38,553	July 1	100	227
Consolidated Hoof Pad Company, New York, N. Y. Horseshoe-pads	39,423	Dec. 9	101	2277
Consumers Park Brewing Company, Brooklyn, N. Y. Lager-beer	37,942	Mar. 11	98	2167
Consumer's Rubber Co., Cleveland, Ohio. Rubber belting, rubber hose, and rubber packing	38,652	July 22	100	927
Consumers Silk Mills and Coupons Exchange Co., Newark, N. J. Silks	38,745	Aug. 12	100	1556
Consumers Silk Mills and Coupons Exchange Co., Newark, N. J. Silks	38,862	Sept. 2	100	2171
Consumers Silk Mills and Coupons Exchange Co., Newark, N. J. Silks	38,906	Sept. 23	100	2767
Contos, Vasilios, Chicago, Ill. Coconut candy	39,569	Dec. 30	101	3097
Coronation Marmalade Company, Boston, Mass. Marmalade	38,681	July 29	100	1106
Corrizzo Extract Company, Albany, N. Y. Concentrated flavoring extract	38,621	July 15	100	676
Côté, Joseph O. A., Bulstrode Station, Canada. Liquid medical compound for certain named				
diseases	39,183	Oct. 28	101	881
Cough Checker Manufacturing Company, Newburgh, N. Y. Cough-medicine	37,894	Mar. 4	98	1961
Coulter, Frank M., Los Angeles, Cal. Soap	38,687	July 29	100	1106
Coulter, Frank M., Los Angeles, Cal. Cate toilet soap	38,746	Aug. 12	100	1556
Cousins, Henry R., Hanford, Cal. Suppositories for local treatment of internal organs	38,617	July 15	100	676
Covert Manufacturing Company, West Troy, N. Y. Hand lifting-jacks	39,009	Oct. 7	101	213
Coyle, Frederick J., Pawtucket, R. I. Wheat-flour	38,995	Oct. 7	101	211
Coyle, John H., Thomasville, Ga. Tooth-powder and tooth-paste	38,645	July 22	100	926
Cox, Alfred E., Toronto, Canada. Balm or lotion	38,494	June 10	99	2543
Cramer & Bro., Geo. B., New York, N. Y. Hosiery	38,168	Nov. 4	101	1190
Crane, Z. & W. M., Dalton, Mass. Writing-paper and envelopes	37,598	Feb. 25	98	1699
Crawford Shoe Makers, New York, N. Y. Boots and shoes	38,059	Apr. 8	99	438
Criterion Gas Stove Mfg. Co., New York, N. Y. Gas stoves and radiators	38,322	May 6	99	1380
Criterion Publication Co., New York, N. Y. Periodicals	37,983	Mar. 25	98	2582
Crooker, Harry W., Boston, Mass. Leather boots and shoes	30,270	Nov. 18	101	1598
Cross, Elias H., Gadsden, Ala. Syrups, flavorings, tonics, or extracts for non-intoxicating aerated				
beverages	38,534	July 1	100	225
Crossett, Lewis A., North Abington, Mass. Boots and shoes	38,156	Apr. 23	99	856
Crossett, Lewis A., North Abington, Mass. Leather boots and shoes	39,060	Oct. 21	101	652
Crowley, John A., Hydepark, Mass. Certain named beverages	37,954	Mar. 18	98	2357
Crowley, Thomas, Lambertville, N. J. Rubber boots and shoes	38,218	May 6	99	1379
Cudahy Packing Co., Chicago, Ill. and South Omaha, Nebr. Beef extracts, bouillon, and beef-tea	38,539	May 27	99	2094
Cudahy Packing Co., Chicago, Ill. and South Omaha, Nebr. Lard and lard compounds	39,338	Nov. 25	101	1823
Curler & Brother, J., New York, N. Y. Pocket-knives	38,373	Oct. 7	101	209
Curtis & Son Company, Portland, Me. Chewing-gum	37,620	Jan. 7	98	221
Cutorine Pharmaceutical Company, Chicago, Ill. Hair-tonics or lotions for the scalp	39,459	Dec. 9	101	2281
Cyphers Incubator Co., Buffalo, N. Y. Poultry-keepers' supplies	38,966	May 27	99	2097
Daggett & Ramsdell, New York, N. Y. Cold-cream	38,192	Apr. 29	99	1164
Dana & Co., Cincinnati, Ohio. Ice-cream freezers	38,783	Aug. 12	100	1560
Dana & Co., Cincinnati, Ohio. Ice-cream freezers	38,869	Sept. 2	100	2172
Daniels, Constantine A., Bay City, Mich. Fire-extinguishing compounds and fire-preventives in				
powder form	38,198	Apr. 15	99	661
Darmstadt German Food Co., Philadelphia, Pa. Certain named health-food compound	38,517	June 24	99	2961



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David B. Crockett Company, Bridgeport, Conn. Wood-fillers and primers	38,992	Sept. 9	100	2379
Davies Textile Co., New York, N. Y. Cotton and silk woven textile fabrics	38,715	Aug. 5	100	1323
Davis Bros., Gloucester, Mass. Cured or dried fish	39,073	Oct. 21	101	654
Davis Bros., Gloucester, Mass. Cured or dried fish	39,151	Oct. 28	101	883
Davis Gasoline Engine Works Co., Waterloo, Iowa. Gasolene-engines	37,631	Jan. 7	98	222
Davis, George E., Dubuque, Iowa. Shingle-machines	39,110	Oct. 21	101	658
Davis, George E., Dubuque, Iowa. Power-hammers	39,111	Oct. 21	101	658
Dayton Felt Roofing Co., Dayton, Ohio. Roof-paints or paints for metal and composition roofings	38,133	Apr. 15	99	660
De Laney, Charles W., Hammond, Ind. Certain named medical compounds	38,163	Apr. 22	99	857
Deerfoot, William, St. Louis, Mo. Blood and liver tonic	38,751	Aug. 12	100	1557
Dempsey Candy Works Co., Nevada, Mo. Candies	39,369	Dec. 2	101	2067
Dempsey Candy Works Co., Nevada, Mo. Candies	39,370	Dec. 2	101	2067
Dempsey & Co., F. D. Dixon, Ill. Syrup for soda-water fountains in the nature of an iron tonic	39,252	Nov. 11	101	1363
Dennerline, William A., Aurora, Ind. Combined pedal, book-rack, and music-cabinet	37,636	Jan. 28	98	787
Dennett Surpassing Coffee Co., New York, N. Y. Coffee	37,618	Jan. 7	98	221
Dennison, Elizabeth, New York, N. Y., and West Norwood, N. J. Mineral water	38,251	May 13	99	1614
Dernell, John C., Pottsville, Pa. Cigars	39,440	Dec. 9	101	2279
Desnoyers Shoe Company, St. Louis, Mo. Boots and shoes	37,610	Jan. 7	98	220
Detroit Ventilating Co., Ltd., Detroit, Mich. Ventilating devices	38,063	Apr. 8	99	442
Deutsche Nahrungsmittel-Werke, Berlin, Ges. mit Besch. Haftg., Berlin and Saegen, Germany. Dietetic preparations and admixtures thereof with food products and beverages	39,598	Dec. 30	101	3100
Dexter Portland Cement Co., Cazenareth, Pa. Portland cement	38,662	July 22	100	928
Dexter Yarn Co., Pawtucket, R. I. Mercerized cotton yarn	38,531	July 1	100	224
Diamond Crystal Salt Company, St. Clair, Mich. Salt	38,626	July 15	100	677
Diamond Crystal Salt Company, St. Clair, Mich. Salt	38,884	Sept. 9	100	2378
Diamond Crystal Salt Company, St. Clair, Mich. Salt	39,038	Oct. 14	101	443
Diamond Ink Company, Milwaukee, Wis. Inks and writing fluids	37,957	Mar. 18	98	2357
Dick and Brothers Quaker Oats Co., Quincy, Ill. Lager-beer	38,546	Aug. 26	100	1881
Dickinson & Co., Edward E., Essex, Conn. Certain distilled product of witch-hazel	38,546	July 1	100	226
Diemer, Frank W., Springfield, Mo. Remedy for la grippe, catarrh, colds, and headaches	38,955	Sept. 30	100	3005
Dieter & Co., A. A., Boston, Mass. Stiffeners for flexible goods	37,849	Feb. 25	98	1700
Dieter & Co., A. A., Boston, Mass. Dress-stays, garment-stiffeners, and collar foundations	38,188	Apr. 29	99	1164
Diggs, Claudia C., Baltimore, Md. Medicinal tablets	38,027	Apr. 1	99	222
Dill Medicine Company, Norristown, Pa. Liquid medicine for rheumatic and neuralgic pains	39,136	Oct. 28	101	891
Dill Medicine Company, Norristown, Pa. Liquid medicine for coughs and colds	39,137	Oct. 28	101	891
Dios Tejada, Juan de, Havana, Cuba. Acetylene-gas generators	37,879	Feb. 23	98	1702
Direct Supply Co., Martinsburg, W. Va., and New York, N. Y. Certain named garments	38,217	May 6	99	1379
Ditty & Ordner, Cleveland, Ohio. Flour	38,926	Sept. 23	100	2769
Dobson, Henry, Paterson, N. J. Shirts, collars, and cuffs	38,903	Sept. 23	100	2767
Dodson-Braun Mfg. Co., St. Louis, Mo. Certain named foods and relishes	38,395	June 8	99	2314
Dolan Mercantile Company, Atchison, Kans. Certain named groceries	37,996	Mar. 11	98	2167
Dominion Drug Company, Limited, Hamilton, Canada. Certain named medicinal preparation	37,615	Jan. 7	98	221
Dorothy Dodd Shoe Co., Montclair, N. J., and Boston, Mass. Certain named boots and shoes	38,838	Aug. 26	100	1969
Dorothy Dodd Shoe Co., Montclair, N. J., and Boston, Mass. Misses' and children's boots and shoes	38,910	Sept. 23	100	2767
Dorothy Dodd Shoe Co., Boston, Mass. Certain named boots and shoes	38,911	Sept. 23	100	2768
Doughlass, Isaac W., Michigantown, Ind. Tonics	37,857	Feb. 25	98	1700
Dow & Company, F. H., Boston, Mass. Chocolate candy	38,718	Aug. 5	100	1333
Dowd & Co., J. C., New York, N. Y. Articles made of enameled wood and composition	37,990	Mar. 25	98	2382
Downey, Harry C., Springfield, Ohio. Devices for parlor bowling games	39,582	Dec. 30	101	3098
Downs, William F., Jersey City, N. J. Lubricant	38,588	July 8	100	446
Doxey, William, New York, N. Y. Books	39,468	Dec. 16	101	2560
Dr. A. C. Daniels, (Incorporated), Boston, Mass. Disinfectants	39,398	Dec. 2	101	2070
Dr. A. C. Daniels, (Incorporated), Boston, Mass. Certain named medicines and disinfectants	39,597	Dec. 30	101	3100
Dr. Eugene Schaal, Feuerbach, near Stuttgart, Germany. Substitute for gum-copal and amber	39,153	Oct. 28	101	883
Dr. Foote Chemical Co., New Haven, Conn. Medicinal preparations for the cure of certain named diseases	38,471	June 17	99	2763
Dr. Koch Vegetable Tea Co., Winona, Minn. Stock-food	39,152	Oct. 28	101	888
Dr. Williams Medicine Co., Schenectady, N. Y. Laxative medicine	39,018	Oct. 14	101	441
Draper & Maynard Company, Plymouth, N. H. Certain named sporting goods	37,650	Jan. 14	98	412
Draper, Oscar M., deceased; O. B. Bestor, North Attleboro, Mass., administrator. Ornamental chains and parts thereof and attachments therefor	37,918	Mar. 11	98	2164
Dressler & Co., C. L., Chicago, Ill. Certain named books	37,803	Feb. 18	98	1477
Drew, Frank C., Elk, Cal. Lubricants	39,444	Dec. 9	101	2280
Dudley, Eben F., Owosso, Mich. Butter, cheese, and eggs	38,254	May 13	99	1615
Duerr, Eugene E., Buffalo, N. Y. Remedies in capsule, tablet, or salve form for the cure of certain named diseases	38,881	Sept. 9	100	2379
Dufour, Corinne, New York, N. Y. Undergarments	38,150	Apr. 22	99	855
Duluth Brewing & Malting Co., Duluth, Minn. Malt extract, beer, ale, and porter	37,977	Mar. 25	98	2381
Duluth Brewing & Malting Co., Duluth, Minn. Lager-beer, ale, porter, and malt extract	37,978	Mar. 25	98	2381
Dunbar Company, Boston, Mass. Preparation for effecting the combustion of fire-wood	37,906	Mar. 4	98	1963
Duncan & Stenz, New York, N. Y. Silk piece goods and silk ribbons	38,594	July 15	100	674
Dupaual, Young Optical Co., Southbridge, Mass. Certain named spectacle and eyeglass frames and mountings	38,821	Aug. 19	100	1759
Dupaual, Young Optical Co., Southbridge, Mass. Certain named spectacle and eyeglass frames and mountings	38,822	Aug. 19	100	1759
Durham, Richard T., Richmond, Va. Dials for coin-operated machines	38,140	Apr. 15	99	661
Dustin, Smith T., Chicago, Ill. Remedy for dandruff and a hair and scalp tonic	38,676	July 29	100	1105
E. Kirstein Sons Co., Rochester, N. Y. Eyeglasses and parts thereof	37,702	Jan. 28	98	788
E. C. Atkins & Company, Indianapolis, Ind.; New York, N. Y.; Memphis, Tenn.; Minneapolis, Minn.; Atlanta, Ga., and Portland, Ore. Cross-cut-saws	38,870	Sept. 2	100	2172
E. C. Atkins & Company, Indianapolis, Ind.; New York, N. Y.; Memphis, Tenn.; Minneapolis, Minn.; Atlanta, Ga., and Portland, Ore. Cross-cut-saws and hand-saws	38,871	Sept. 2	100	2172
E. C. Atkins & Company, Indianapolis, Ind.; New York, N. Y.; Memphis, Tenn.; Atlanta, Ga., Minneapolis, Minn., and Portland, Ore. Tools for fitting and sharpening saws	39,441	Dec. 9	101	2279
E. J. Brooks & Company, New York, N. Y., and Newark, N. J. Certain named seals	38,738	Aug. 5	100	1326
Eagle Paper Co., Richmond, Va. Paper bags and wrapping-paper	38,818	Aug. 19	100	1759
Eagle Penel Co., New York, N. Y. Pencil-sharpeners	38,902	Sept. 23	100	2767
Earle, Walter H., Los Angeles, Cal. Fruit juices	38,530	July 1	100	225
Eastern Shore of Virginia Produce Exchange, Onley, Va. Irish and sweet potatoes	37,974	Mar. 25	98	2381
Eberle & Cie., J. N., Augsburg, Germany. Saws and springs	37,833	Feb. 18	98	1480
Eddystone Manufacturing Company, Philadelphia, Pa. Textile fabrics	37,638	Jan. 14	98	411
Eddystone Mfg. Co., Philadelphia, Pa. Printed cotton dress goods	38,376	June 3	99	2312
Eddystone Mfg. Co., Philadelphia, Pa. Printed cotton dress goods	38,418	June 10	99	2541
Edgar & Son, W. H., Detroit, Mich. Sugar	39,487	Dec. 16	101	2562

## Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Edwards, Joseph S., Kansas City, Mo. Cigars	38,925	Sept. 23	100	2769
Edwards, William, Jr., London, England. Remedy for certain named diseases	38,390	June 3	99	2314
Egyptian Manufacturing Co., Grand Rapids, Mich. Medicinal tablets	38,028	Apr. 1	99	322
Elis, A. Jenks, Philadelphia, Pa. Brushes	37,321	Mar. 18	98	2165
Eldred, William H., Chicago, Ill. Medicinal herb compound	38,466	June 17	99	2762
Electra-Pura Water Co., New York, N. Y. Electrically-purified water	39,528	Dec. 23	101	2815
Electra-Pura Water Company, New York, N. Y. Apparatus for electrically purifying water	39,404	Dec. 2	101	2071
Electric Gas Lighting Company, Boston, Mass. Electric vibrating bells and push-buttons	39,541	Dec. 23	101	2816
Electrical Devices Co., Keokuk, Iowa. Electrical motor appliances	39,419	Dec. 9	101	2277
Electro Lamp Co., New York, N. Y. Calcium carbide	38,626	July 15	100	417
Electro Lamp Co., New York, N. Y. Lamps for burning acetylene gas	38,957	Sept. 23	100	2770
Electrose Mfg. Co., New York, N. Y. Composition of matter for certain named purposes	39,540	Dec. 23	101	2816
Elliott & Hatch Book Typewriter Company, New York, N. Y. Type-writer ribbons	39,204	Nov. 4	101	1125
Elmenhorst & Co., New York, N. Y. Cotton fabrics	38,328	May 27	99	2093
Elmenhorst & Co., New York, N. Y. Cotton fabrics	38,329	May 27	99	2093
Elmenhorst & Co., New York, N. Y. Cotton fabrics	38,330	May 27	99	2093
Elterich & Company, New York, N. Y. Rifled-bullet shells	38,310	May 20	99	1862
Emerald Manufacturing Co., West Superior, Wis. Certain named cereal food	39,145	Oct. 28	101	282
Empire Liniment Mfg Co., Bridgetown, Canada. Liniment	37,982	Mar. 25	98	2381
Enterprise Soap Works, Nashville, Tenn. Toilet soap	38,550	July 1	100	227
Epicure Baking Co., Detroit, Mich. Crackers, bread, cakes, and puddings and pies	38,768	Aug. 12	100	1558
Erie Exploration Company, New York, N. Y. Electric-current regulators and controllers	37,700	Jan. 28	98	787
Ernst Schliemann's Oelwerke, Gesellschaft mit Beschränkter Haftung, Hamburg, Germany. Certain named oil	38,083	Apr. 8	99	441
Eskeno Chemical Company, Boston, Mass. Oil for medicinal purposes	38,249	May 13	99	1614
Essex Foundry, Newark, N. J. Sanitary castings	37,885	Feb. 18	98	1480
Esterbrook Steel Pen Manufacturing Co., Camden, N. J., and New York, N. Y. Pens	38,497	June 24	99	2958
Esterbrook Steel Pen Manufacturing Co., Camden, N. J., and New York, N. Y. Pens	38,498	June 24	99	2958
Estes, Webster C., New York, N. Y. Small	37,908	Mar. 4	98	1963
Estes, Webster C., New York, N. Y. Small	37,909	Mar. 4	98	1963
Estes, Webster C., New York, N. Y. Small	38,260	May 13	99	1615
Estes, Webster C., New York, N. Y. Small	38,261	May 13	99	1615
Estes, Webster C., New York, N. Y. Small	38,262	May 13	99	1616
Estes, Webster C., New York, N. Y. Small	38,263	May 13	99	1616
Estes, Webster C., New York, N. Y. Small	38,264	May 13	99	1616
Estes, Webster C., New York, N. Y. Small	38,591	July 8	100	446
Estes, Webster C., New York, N. Y. Small	38,592	July 8	100	446
Euceryl, Limited, Hull, England. Soap	37,781	Feb. 4	98	1025
Euceryl, Limited, Hull, England. Disinfectants, anticrosives, antiseptics, and deodorizers	37,738	Feb. 4	98	1026
Euceryl, Limited, Hull, England. Certain named toilet preparations	37,739	Feb. 4	98	1026
Euceryl, Limited, Hull, England. Certain named medical compounds	37,745	Feb. 4	98	1026
Eureka Blotter Bath Co., Chicago, Ill. Copying-baths and copying-cloths	38,401	June 3	99	2315
Evans, Geo. T., Indianapolis, Ind. Flour	38,847	Aug. 26	100	1970
Excelsior Stove and Mfg. Co., Quincy, Ill. Stoves, ranges, heaters, and furnaces	38,178	Apr. 22	99	658
Excelsior Water Mill Co., Burlington, Kans. Wheat-flour	37,033	Mar. 18	98	2356
Excelsior Water Mill Co., Burlington, Kans. Wheat-flour	38,064	Apr. 8	99	489
Ezo Manufacturing Company, Akron, Ohio. Soap	38,185	June 17	99	2765
F. A. Cauchois and Company, New York, N. Y. Coffee	39,093	Oct. 14	101	443
F. S. Webster Co., Boston, Mass.; New York, N. Y.; Chicago, Ill., and London, England. Certain named stationery and type-writing supplies	37,761	Feb. 4	98	1028
Fabrique de Moteurs & de Machines. (ancienne maison Zürcher, Lüthi & Cie.) St. Aubin, Switzerland. Cycles, motor-vehicles, and their parts	38,973	Sept. 30	100	3068
Fair Haven Food Company, Inc., New Haven, Conn. Cereal food product	38,927	Sept. 23	100	2769
Fair Haven Food Company, Inc., New Haven, Conn. Cereal food product	38,928	Sept. 23	100	2769
Fairchild, Mosiah M., Oakley, Idaho. Diptheria remedies	38,200	Apr. 29	99	1165
Fallis & Co., H. D., Toledo, Ohio. Wheat-flour	38,038	Apr. 1	99	223
Fancy Fruit Co., San Francisco, Cal. Citrous and deciduous fruits	39,425	Dec. 9	101	2278
Fanger, Josephine, Elthresdale, Pa. Remedy for certain named diseases	38,388	June 3	99	2313
Farbenfabriken of Elberfeld Co., New York, N. Y. Photographic developers	37,752	Feb. 4	98	1027
Farbenfabriken of Elberfeld Co., New York, N. Y. Disinfectant and preservative	37,869	Feb. 25	98	1701
Farbenfabriken of Elberfeld Co., New York, N. Y. Local antirheumatic	39,017	Oct. 14	101	441
Farbenfabriken of Elberfeld Co., New York, N. Y. Diureticum	39,135	Oct. 28	101	881
Farbenfabriken of Elberfeld Co., New York, N. Y. Remedy against gout and similar diseases	39,251	Nov. 11	101	1365
Farbenfabriken of Elberfeld Co., New York, N. Y. Remedy splitting off iodine for subcutaneous or internal use	39,252	Nov. 11	101	1365
Farbenfabriken of Elberfeld Co., New York, N. Y. Urinary antiseptic	39,379	Nov. 18	101	1599
Farbenfabriken of Elberfeld Co., New York, N. Y. Certain named chemical product	39,427	Dec. 9	101	2278
Farbenfabriken of Elberfeld Co., New York, N. Y. Dyestuffs	39,428	Dec. 9	101	2278
Farbenfabriken of Elberfeld Co., New York, N. Y. Urinary antiseptic	39,580	Dec. 30	101	3099
Farbwerke, vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Certain named medical compounds	38,800	Aug. 10	100	1757
Farr, Frank M., Philadelphia, Pa. Boots and shoes	38,793	Aug. 19	100	1750
Farmers Feed Company of New Jersey, New York, N. Y. Dried brewers' grains	37,975	Mar. 25	98	2384
Farnsworth, Hoyt & Co., Boston, Mass. Fabrics for boot and shoe linings and trimmings	38,598	July 15	100	674
Faulhaber, John H., Allegheny, Pa. Certain named confectionery	38,719	Aug. 5	100	1323
Fechheimer-Fishel Co., New York, N. Y. Men's suits and overcoats	39,299	Nov. 18	101	1601
Federal Refining Company, Jersey City, N. J. Refined sugar	38,964	Sept. 30	100	3096
Federal Wireless Telephone & Telegraph Co., Philadelphia, Pa. Certain named devices used in wireless telephony and telegraphy	38,213	Apr. 29	99	1166
Fels, Theobald, Cincinnati, Ohio. Wheat-flour	39,372	Dec. 2	101	2067
Fennings, Alfred, deceased; W. J. Bailey, Cowes, England, executor. Medicine for certain named ailments	38,930	Sept. 23	100	2678
Ferguson & Co., Alex., Glasgow, Scotland. Whisky	37,856	Feb. 25	98	1700
Feuss & Prather, Baltimore, Md. Shoes	38,062	Apr. 8	99	439
Fiebert, Frank, Akron, Ohio. Soft-coal furnaces	38,447	June 10	99	2544
Fish Bros. Wagon Company, Racine, Wis. Certain named wagons	39,292	Nov. 18	101	1600
Fisher, H. Clarence, New York, N. Y. Publications, periodicals, magazines, and books	38,049	Apr. 1	99	224
Fisk Rubber Company, Chicopee Falls and Springfield, Mass. Pneumatic tires for bicycles, carriages, and automobiles	38,700	July 29	100	1107
Fiske Brothers Refining Co., New York, N. Y. Liquid disinfectants	38,358	May 27	99	2096
Fletcher, Harvey D., Beaumont, Tex. Petroleum	38,021	Apr. 1	99	221
Fiechtman, William H., Moberly, Mo. Acting heads for tripods	39,406	Dec. 2	101	2072
Flint & Walling Manufacturing Company, Kendallville, Ind. Windmills	39,161	Oct. 28	101	884
Flint Woolen Mills Co., Flint, Mich. Waterproof cloth	37,946	Mar. 18	98	2336
Florence Manufacturing Co., Northampton, Mass.; New York, N. Y., and Chicago, Ill. Brushes	37,989	Mar. 25	98	2382



*Alphabetical list of registrants of trade-marks—Continued.*

Name, residence, and title.	No.	Date.	Official Gazette.	
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Florence Manufacturing Company, Northampton, Mass.; New York, N. Y., and Chicago, Ill. Hair, nail, tooth, and flesh brushes	38,570	July 8	100	444
Florence Manufacturing Company, Northampton, Mass.; New York, N. Y., and Chicago, Ill. Hair, nail, tooth, and flesh brushes	38,571	July 8	100	444
Floridine Mfg Co., New York, N. Y. Scouring-soap	39,495	Dec. 16	101	2503
Flournoy Tobacco Co., Paducah, Ky. Certain named tobacco	39,599	Dec. 30	101	3100
Flournoy Tobacco Co., Paducah, Ky. Certain named tobacco	39,600	Dec. 30	101	3101
Flynn, Dennis, Lowell, Mass. Certain named medicinal preparations	39,197	Nov. 4	101	1124
Foot, Schulze & Company, St. Paul, Minn. Rubber footwear	38,382	May 27	99	2038
"Force" Food Company, Buffalo, N. Y. Cereal food products	39,313	Nov. 18	101	1602
Forrest, Alexander, Rochelle, Ill. Rolled oats	39,373	Dec. 2	101	2067
Forsyth, Charles B., Alexandria Bay, N. Y. Paste	38,341	May 27	99	2094
Foster & Bro., John B., Newark, N. J. Medicine for coughs, colds, and affections of respiratory organs	39,254	Nov. 11	101	1365
Foster-McClellan Co., Buffalo, N. Y. Specific for the cure of kidney and bladder complaints	38,031	Apr. 1	99	222
Fostoria Inc. Lamp Co., Cleveland, Ohio. Incandescent electric lamps	38,781	Aug. 12	100	1550
Fowler, William M., New York, N. Y. Bottle-filling machines	37,973	Mar. 18	98	2358
Francis H. Leggett & Company, New York, N. Y. Sardines	39,562	Dec. 30	101	3096
Frank & Duston, Marlboro, Mass. Boots and shoes	38,007	Apr. 1	99	220
Frank Jones Brewing Co., Limited, London, England, and Boston, Mass. Ale	37,916	Feb. 18	98	1478
Frank S. Dure Co., Philadelphia, Pa. Harness and hoppers	38,524	June 24	99	2362
Frank & Sons, H., Wheeling, W. Va. Gloves, gauntlets, and mittens	39,220	Nov. 11	101	1362
Frankenberg, Abraham, New York, N. Y. Sponges and washcloths	38,986	Oct. 7	101	210
Frankinson, Chas D., Meridian, Miss. Remedy for indigestion and headache	39,200	Nov. 4	101	1124
Fred Macey Co., Ltd., Grand Rapids, Mich. Office and library furniture	38,858	Aug. 26	100	1972
Frederick Stearns & Company, Detroit, Mich. Tonic	39,001	Oct. 7	101	212
Fredk. Walton & Co., Limited, Sunbury Common, England. Certain named wall hangings and coverings	38,569	July 8	100	444
Freeport Novelty Company, Freeport, Ill. Pepsin chewing-gum	38,578	July 8	100	445
Friedlaender & Oliven, New York, N. Y. Lamp-chimneys	38,408	June 3	99	2315
Friedman Bros. Shoe Co., St. Louis, Mo. Boots and shoes	37,915	Mar. 11	98	2164
Friedman Bros. Shoe Co., St. Louis, Mo. Leather shoes	39,353	Nov. 25	101	1894
Fuld, William, Baltimore, Md. Game-boards	37,805	Feb. 18	98	1477
Fuld, William, Baltimore, Md. Parlor-game	37,806	Feb. 18	98	1477
Fyfe & Co., E. H., Detroit, Mich. Certain named leather footwear	38,590	Sept. 9	100	2379
G. & T. Earle, Limited, Hull, England. Cement paint	38,589	Sept. 9	100	2379
Gage Brothers & Company, Chicago, Ill. Certain named millinery goods	37,653	Jan. 21	98	577
Gaggin, Joseph J., New York, N. Y. Boots and shoes	37,636	Jan. 14	98	411
Galena Oil Company, Franklin, Pa. Lubricating-oil	39,536	Dec. 23	101	2816
Galena-Signal Oil Co., Franklin, Pa. Lubricating-oil	39,537	Dec. 23	101	2816
Galena-Signal Oil Company, Franklin, Pa. Lubricating-oils	38,589	July 8	100	446
Galena-Signal Oil Company, Franklin, Pa. Lubricating-oils	38,590	July 8	100	446
Galena-Signal Oil Company, Franklin, Pa. Illuminating-oils	38,630	July 15	100	677
Galena-Signal Oil Company, Franklin, Pa. Lubricating-oils	38,631	July 15	100	677
Galena-Signal Oil Company, Franklin, Pa. Lubricating-oils	38,632	July 15	100	677
Gandolfi & Company, L., New York, N. Y. Bitters	38,196	Apr. 29	99	1105
Garton Toy Company, Sheboygan, Wis. Toy wagons and similar toy vehicles	38,409	June 3	99	2315
Gas Tip and Self Lighter Co., New York, N. Y. Aluminium gas-burner tips	38,212	Apr. 29	99	1106
Geber Drug Company of Baltimore City, Baltimore, Md. Liniment, salve, and ointment	37,663	Jan. 21	98	578
Gedney, James W., New York, N. Y. Certain named medicinal substances	38,958	Sept. 30	100	3006
Geier Silkweed Co., Carrollton, Ky. Blood-purifier	39,134	Oct. 28	101	881
General Manifold Company, Franklin, Pa. Carboned paper	38,586	July 8	100	446
Geo. D. Witt Shoe Co., Lynchburg, Va. Boots and shoes	38,060	Apr. 8	99	439
Geo. D. Witt Shoe Co., Lynchburg, Va. Boots and shoes	38,061	Apr. 8	99	439
Geo. W. Pitkin Company, Chicago, Ill. Paints for exterior and interior finishing	37,573	Feb. 25	98	1702
George H. West Shoe Co., Philadelphia, Pa. Shoes	37,547	Feb. 25	98	1700
Gerhart, Charles C., Clarksville, Tenn. Certain named washing compounds	38,945	July 29	100	1106
Gerstendorfer Bros., New York, N. Y. Certain named painters' supplies	37,945	Mar. 11	98	2168
Gerstendorfer Bros., New York, N. Y. Bronze and gold paints and powders	39,288	Nov. 18	101	1599
Ghabryel, Menhem A., New York, N. Y. Perfumery, soap, and face-powder	38,343	May 27	99	2094
Gibbs, John W., New York, N. Y. Leather boots, shoes, and slippers	39,515	Dec. 23	101	2813
Giesel, Henry, Chicago, Ill. Gas-generators	38,282	May 13	99	1618
Giesel, Henry, Chicago, Ill. Stoves and ranges	39,158	Oct. 28	101	884
Gill Brothers Company, Steubenville, Ohio. Glass lamp-chimneys, glass reflectors, and glass lantern-globes	37,875	Feb. 25	98	1702
Gill Brothers Company, Steubenville, Ohio. Glass lamp-chimneys, glass lantern-globes, and glass reflectors	38,573	July 8	100	445
Gill Brothers Company, Steubenville, Ohio. Glass lamp-chimneys, glass lantern-globes, and glass reflectors	38,574	July 8	100	445
Gilliam Mfg. Co., Canton, Ohio. Horse-boots	38,216	May 20	99	1882
Gilmaker Bros., San Francisco, Cal. Shoes	38,424	June 10	99	2542
Gilman, Edward M., Boston, Mass. Certain named paper	39,126	Oct. 28	101	880
Ginner, Marie A., Chicago, Ill. Lotions for cleaning and treating the scalp	39,596	Dec. 30	101	3100
Gironés & Henrich, Barcelona, Spain. Minerals, metals, and metalloids and chemicals produced therefrom	39,100	Oct. 21	101	656
Glass, Joseph D., Fulton, Mo. Medicated tablets for the cure of certain named diseases	38,297	May 20	99	1880
Glen-Armstrong Co., Chicago, Ill. Fruit-icing chocolate, candies and ice-cream, and egg color	38,769	Aug. 12	100	1559
Glendinning, Robert, Chicago, Ill. Asphalt roofing	38,265	May 13	99	1618
Glenn, William F., Nashville, Tenn. Medicine for certain named diseases	39,255	Nov. 11	101	1366
Glenn, William F., Nashville, Tenn. Syringes	39,327	Nov. 18	101	1604
Globe Asphalt Co., Pittsburg, Pa., and Los Angeles, Cal. Asphaltum	38,134	Apr. 15	99	661
Globe Disinfecting Co., San Francisco, Cal. Liquid disinfectants	39,202	Nov. 4	101	1124
Globe Ventilator Company, Troy, N. Y. Edging	38,042	Apr. 1	99	223
Glover, John I., Kansas City, Mo. Wheat, corn, oats, flour, cornmeal, mixed feed, bran, and rice-bran	39,317	Nov. 18	101	1608
Glyn & Co., London, England. Head-gear	38,000	Apr. 1	99	219
Goetz, Frank, Manchester, Conn. Ginger-snaps	38,577	July 8	100	445
Golben Mfg. Co., Canton, Ohio. Paint for galvanized iron	38,364	May 27	99	2097
Goldman Brothers, St. Louis, Mo. Certain named furniture and household goods	37,695	Jan. 28	98	787
Goldman, Mary T., St. Paul, Minn. Hair-restorer, application for the hair, and cosmetics	38,166	Apr. 22	99	897
Goldsmith, Joseph, Feiss Co., Cleveland, Ohio. Ready-made clothing for men and boys	38,108	Apr. 15	99	658
Goldsmith's Sons, P., Cincinnati, Ohio. Certain named sporting goods	38,587	July 8	100	446
Goodell-Pratt Company, Greenfield, Mass. Hacksaws and butcher-saws	37,668	Jan. 21	98	578
Goodhair Remedy Company, Newark, Ohio. Soap	38,915	Sept. 23	100	2768
Goodman Bros., New York, N. Y. Hosiery and gloves	37,776	Feb. 11	98	1276

## Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Goodyear, Charles P., Sr., Brunswick, Ga. Paint, paint-oil, and varnish	38,891	Sept. 9	100	2379
Goodyear Rubber Company, New York, N. Y. Central named rubber goods	39,368	Nov. 18	101	1598
Goodyear Tire and Rubber Company, Akron, Ohio. Rubber tires	38,572	July 8	100	444
Gordon & Ferguson, St. Paul, Minn. Certain named fur goods	38,287	May 20	99	1859
Goatham Mfg. Co., Providence, R. I. Electroplated metal ware	37,993	Mar. 11	98	2167
Gottlieb & Beck, New York, N. Y. Shirt-waists and skirts	38,904	Sept. 23	100	2767
Goyer & Co., C. W., Memphis, Tenn. Sugar, syrup, and molasses	39,531	Dec. 23	101	2815
Graffini & Co., J., New York, N. Y. Bitters	39,526	Dec. 23	101	2814
Graham, Charles E., Whateum, Wash. Nervous tonic tablets	39,249	Nov. 11	101	1365
Granitine Wall Plaster Co., Lebanon, Pa. Wall-plaster	38,086	Apr. 8	99	441
Grant & Co., W. T., Louisville, Ky. Leaf-tobacco	38,532	July 1	100	225
Grant & Co., W. T., Louisville, Ky. Leaf-tobacco	38,533	July 1	100	225
Grant, John G., Hampstead, England. Tobacco, cigars, and cigarettes	37,796	Feb. 11	98	1218
Greacen, Thomas E., New York, N. Y. Shoes for men, women, and children	37,659	Jan. 21	98	577
Great Century Medicine Co., Little Rock, Ark. Liquid preparations for treatment of the skin	38,481	June 17	100	2514
Great Western Oil Co., Cleveland, Ohio. Petroleum illuminating and lubricating oils	38,308	May 20	99	1801
Greene Shoe Co., Kansas City, Mo. Boots and shoes	37,846	Feb. 25	98	1699
Gregg, Cecil D., St. Louis, Mo. Tea and coffee	37,795	Feb. 11	98	12
Griswold & Co., George W., Plymouth, Mass. Game apparatus	39,316	Nov. 18	101	1602
Griswold, Oscar H., Winona, Minn. Roasted coffee	38,650	July 29	100	1106
Grobowski, Albert G., Plymouth, Pa. Liniment	38,384	May 27	99	2090
Grobowski, Albert G., Plymouth, Pa. Liniment	38,391	June 3	99	2090
Grocers' Specialty Mfg. Co., Limited, Battle Creek, Mich. Breakfast-foods, crackers, and biscuits	38,492	May 20	99	1861
Grocers' Specialty Mfg. Co., Ltd., Battle Creek, Mich. Gelatin preparation for table desserts	38,518	June 24	99	2961
Grocers' Specialty Mfg. Co., Ltd., Battle Creek, Mich. Flaked cereal foods	38,565	Dec. 30	101	3096
Grom, Otto C. B., New York, N. Y. Cough-syrups and remedies for certain named diseases	38,078	Apr. 8	99	440
Grom, Otto C. B., New York, N. Y. Cough-syrups and remedies for certain named diseases	39,479	Dec. 16	101	2561
Gross Bros., Winamac, Ind. Salve	38,357	May 27	99	2090
Gutliot, Charles, Paris, France. Corsets	38,501	June 24	99	2353
Guterman, Rosenfeld & Co., New York, N. Y. Certain named bicycle goods	39,407	Dec. 2	101	2071
Gump & Sons, G., Baltimore, Md. Whisky	39,027	Oct. 14	101	442
Guthmann Carpenter & Telling, Chicago, Ill. Leather boots and shoes	38,876	Sept. 9	100	2377
Gutmann, Emil, New York, N. Y. Garters and hose-supporters	38,152	Apr. 22	99	856
Gwaltney-Bunkley Peanut Co., Smithfield, Va. Peanuts	38,657	July 22	100	928
Gysinge Aktiebolag, Stockholm, Sweden. Steel	38,320	May 20	99	1662
H. Hirschberg Optical Company, St. Louis, Mo. Clinical thermometers	38,831	Aug. 26	101	1971
H. A. Thierman Company, Louisville, Ky. Whisky	39,028	Oct. 14	101	442
H. A. Thierman Company, Louisville, Ky. Whisky	39,029	Oct. 14	101	442
H. A. Thierman Company, Louisville, Ky. Whisky	39,030	Oct. 14	101	442
H. B. Ives Company, New Haven, Conn. Sash-fasteners, sash-locks, sash cord and weight fasteners, and stop-adjusters	39,106	Oct. 21	101	656
H. & C. Compound Ointment Co., Asbury Park, N. J. Ointment	39,016	Oct. 14	101	447
H. D. Ross and Co., Boston, Mass. Chocolate confections	38,250	May 13	99	1611
H. H. King & Co., Minneapolis, Minn. Flour made from wheat	38,962	Sept. 30	100	3004
H. J. Blodgett Co., Inc., Boston, Mass. Pudding-tablets and dessert preparations	38,139	Apr. 22	99	856
H. J. Blodgett Co., Inc., Boston, Mass. Pudding-tablets and dessert preparations	38,160	Apr. 22	99	857
H. K. Mulford Co., Philadelphia, Pa. Tonics	38,614	July 15	100	676
H. K. Mulford Co., Philadelphia, Pa. Diuretics	38,615	July 15	100	676
H. K. Mulford Co., Philadelphia, Pa. Intestinal astringents	38,616	July 15	100	676
H. N. Strait Mfg. Co., Kansas City, Kans. Weighing-scales	38,702	July 20	100	1108
H. O. (Hornby's Oatmeal) Company, Buffalo and New York, N. Y. Cereal food products	39,374	Dec. 2	101	2067
H. W. Johns-Manville Company, New York, N. Y. Fireproof cements for retorts	38,207	Apr. 29	99	1166
H. W. Johns-Manville Company, New York, N. Y. Fireproof cements for furnaces	38,208	Apr. 29	99	1166
Haan, Rudolph M., New York, N. Y. Cigars, tobacco, cigarettes, and cheroots	39,380	Dec. 2	101	2068
Hahn & Co., H. F., Chicago, Ill. Watches and watch-movements	38,974	Oct. 7	101	209
Hahne & Co., Newark, N. J. Corsets	39,558	Dec. 30	101	3099
Haley & Tener, Hillsboro, Ohio. Roof and barn paint	39,103	Oct. 21	101	657
Hall, James B., Cleveland, Ohio. Paint-oils	37,903	Mar. 4	98	1962
Hall, William A., Bellows Falls, Vt., and New York, N. Y. Paint-powder	37,993	Mar. 25	98	2582
Halleman, William, Newark, N. J. Stove-polish	39,043	Oct. 14	101	444
Halls Chronic Cough Cure Co., Cordele, Ga. Medicines for cure of pulmonary troubles and diseases of the blood	38,921	Sept. 23	100	2769
Hamburger & Co., New York, N. Y. Dolls	37,632	Jan. 14	98	411
Hamburger & Co., New York, N. Y. Dolls	38,095	Apr. 15	99	656
Hamilton & Co., John F., Maple Lake, Minn. Remedy for dandruff	38,547	July 1	100	226
Hamilton Disinfectant Chemical Works, Hamilton, Ohio. Disinfecting and deodorizing powders, cakes, and liquids	39,135	Nov. 18	101	1604
Hammar Brothers White Lead Company, East St. Louis, Ill. Paint and white lead	38,322	Apr. 15	99	660
Hammer Dry Plate Co., St. Louis, Mo. Dry-plates employed in photographic art	37,697	Jan. 28	98	787
Hance Bros. & White, Philadelphia, Pa. Soda-water and compounds and extracts for flavoring same	38,653	July 22	100	927
Hance Bros. & White, Philadelphia, Pa. Soda-water and compounds and extracts for flavoring same	38,654	July 22	100	927
Hance Bros. & White, Philadelphia, Pa. Soda-water and compounds and extracts for flavoring same	38,772	Aug. 12	100	1559
Hancock, Addison, Allegheny, Pa. Prepared mush	39,566	Dec. 30	101	3096
Hank & Co., Philadelphia, Pa. Certain named dried and evaporated fruits	38,996	Oct. 7	101	215
Hanks, Elizabeth T., Ridgewood, N. J. Certain named cleaning and polishing preparation	38,843	Aug. 26	100	1969
Hanna, Elmer E., Chicago, Ill. Pneumatic tools	38,859	Aug. 26	100	1972
Happell, Frank, Cincinnati, Ohio. Varnishes	38,130	Apr. 15	99	668
Harris, Minnie M., New York, N. Y. External remedies for skin, scalp, and face	39,475	Dec. 16	101	2561
Harrison, Dwight A., Kalamazoo, Mich. Remedy for tuberculosis	38,748	Aug. 12	100	1556
Hart Manufacturing Co., Hartford, Conn. Electric switches	38,939	May 27	99	2090
Hart Mfg. Co., Hartford, Conn. Electric switches	38,940	Aug. 7	100	1826
Hart, William S., Hawks Park, Fla. Fruits and honey	38,115	Apr. 15	99	659
Hartford Rubber Works Co., Hartford, Conn. Certain named goods and articles made from india-rubber and its compounds, with their accessories	39,171	Nov. 4	101	1121
Hartley Co., M., New York, N. Y., and Bridgeport, Conn. Golf-balls	38,670	July 29	100	1105
Hathaway, Soule and Harrington, Boston, Middleboro, and New Bedford, Mass., and New York, N. Y. Leather shoes	39,559	Dec. 30	101	3095
Hauk Brothers Produce Company, St. Louis, Mo. Sauer-kraut	39,076	Oct. 21	101	654
Haverhill Fire Appliance Co., Haverhill, Mass. Fire-extinguishers	39,010	Oct. 7	101	213
Hawthorn, Aldus F., Lancaster, Pa. Roof-paint in liquid form	38,555	July 1	100	227
Hearn & Son, James A., New York, N. Y. Certain named woven fabrics	39,310	Nov. 18	101	1602
Hearn & Son, James A., New York, N. Y. Certain named dry goods	39,338	Dec. 2	101	2068



## Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Hearn & Son, James A., New York, N. Y. Certain named fabrics	39,384	Dec. 2	101	2968
Heiges, William S., York, Pa. Toilet ointment	38,482	June 17	99	2764
Heine & Co., Leipsic, Germany. Product used in making perfumes	39,474	Dec. 16	101	2561
Heinz Co., H. J., Allegheny, Pa. Vinegar	38,813	Aug. 19	100	1758
Heitzmann Tool & Supply Co., Hoboken, N. J. Car-replacers	39,053	Oct. 14	101	441
Helio Match Company, Passaic, N. J. Matches	39,575	Dec. 30	101	3067
Helvetia Milk Condensing Co., Highland, Ill. Condensed milk	38,112	Apr. 15	99	688
Hemingway, Robert B., Montrose, Conn. Spring-water	37,980	Mar. 25	98	2581
Hendee, George M., Springfield, Mass. Bicycles and self-propelled road-vehicles	39,008	Oct. 7	101	213
Henderson Company, James D., Philadelphia, Pa. Medicinal compound in powder form put up in gelatinous capsules	38,679	Apr. 8	99	441
Henderson & Henderson, Buffalo, N. Y. Bust-forms	38,286	May 30	99	1839
Henderson, John J., Hurricane, Va. Fruit preservative	38,286	May 13	99	1615
Hentler, John J., Chicago, Ill. Portable acetylene-gas generators	38,938	Sept. 23	100	2770
Henis Fruit Press Co., New York, N. Y. Fruit-presses	37,651	Jan. 14	98	412
Henkes, Jan H., Rotterdam, Netherlands. Gin	38,775	Aug. 12	100	1559
Henry Milward & Sons, Limited, Redditch, England. Fish-hooks	37,911	Mar. 4	98	1963
Henry Milward & Sons, Limited, Redditch, England. Fish-hooks	37,912	Mar. 4	98	1964
Henry Milward & Sons, Limited, Redditch, England. Certain named fishing-tackle	38,321	Apr. 29	99	1166
Henry Milward & Sons, Limited, Redditch, England. Certain named fishing-tackle	38,321	May 37	99	2067
Hensel Colladay Company, Philadelphia, Pa. Skirt-protectors	39,193	Nov. 4	101	1120
Herl, Joseph, West Superior, Wis. Tonic and medicinal food	37,859	Feb. 25	98	1701
Herb, Joseph, West Superior, Wis. Remedy for abnormal sweating	39,401	Dec. 2	101	2971
Herbogen Medical Co., Montreal, Canada. Proprietary medicines	38,629	Apr. 1	99	222
Herington, Mary M., Grand Rapids, Mich. Remedy for liver and kidney diseases in tablet form	39,421	Oct. 14	101	441
Hesekiel, Adolf, Berlin, Germany. Preparation for treatment of photographic plates	39,073	Dec. 16	101	2561
Heusner Baking Company, Chicago, Ill. Baking-powder	38,629	July 1	99	825
Hilbert Brothers, San Francisco, Cal. Whiskies	37,794	Feb. 11	98	1278
Hileman-James Co., Pittsburg, Pa. Plastic metallic packings	38,948	Sept. 30	100	3004
Hileman-James Co., Pittsburg, Pa. Plastic metallic packings	38,949	Sept. 30	100	3005
Hilfer Co., Louis, St. Louis, Mo. Matches	37,688	Mar. 11	98	2167
Hill, Arthur J., Minerva, Ohio. Medical tonic	38,882	Sept. 9	100	2378
Hill, Thomson & Co., Edinburgh, Scotland. Scotch whisky	38,882	Dec. 9	101	2765
Hill's Son & Co., Edward, New York, N. Y. Pressed glassware for illuminating purposes	39,491	June 17	99	2762
Hinde & Dauch Paper Co., Sandusky, Ohio. Closed bolster-rolls	38,413	June 8	99	2316
Hinde & Dauch Paper Co., Sandusky, Ohio. Open bolster-rolls	38,414	June 8	99	2316
Hinnant, Rufin P., Sutton, S. C. Remedy for certain named diseases	38,199	Apr. 29	99	1165
Hinz, Richard C., Milwaukee, Wis. Medical tablets for rheumatism, gout, and allied diseases	38,125	Apr. 15	99	659
Hirsch & Bendheim, St. Louis, Mo. Corn-cob pipes	39,218	Dec. 23	101	2816
Hirsch & Beck, Buffalo, N. Y. Certain named clothing	39,309	Nov. 18	101	1692
Hoeftunayr, Karl, Kempten, Germany. Butter, cheese, and condensed milk	38,149	Oct. 28	101	885
Hoeftunayr, Karl, Kempten, Germany. Butter, cheese, and condensed milk	38,149	Dec. 2	101	2162
Hoff, Leopold, Hamburg, Germany. Malt preparations	38,635	Apr. 1	99	222
Hoffstadt, Oscar, New York, N. Y. Woolen cloth known as kersey	37,674	Jan. 28	98	784
Hofmeister, Julius, Vienna, Austria-Hungary. Certain named medicinal compound	38,544	July 1	100	226
Hohner, Firm of M., Trossingen, Germany, and New York, N. Y. Mouth-harmonicas	38,456	June 17	99	2762
Hohner, Firm of M., Trossingen, Germany, and New York, N. Y. Mouth-harmonicas	38,457	June 17	99	2762
Hohner, Firm of M., Trossingen, Germany, and New York, N. Y. Mouth-harmonicas	38,458	June 17	99	2762
Hohner, Firm of M., Trossingen, Germany, and New York, N. Y. Mouth-harmonicas	38,459	June 17	99	2762
Holbrook, A. & C. W., Providence, R. I. Certain named rawhide goods	38,744	Aug. 12	100	1556
Holland, Rose M., London, England. Certain named toilet articles and preparations	37,647	Jan. 14	98	412
Hollywood Paint Company, Buffalo, N. Y. Mixed paints	38,890	Sept. 9	100	2379
Holmes, William H., Aurora, Ill. Butter	37,780	Feb. 4	98	425
Holophane Glass Co., New York, N. Y. Pressed glassware for illuminating purposes	38,540	Dec. 9	101	2281
Home Circle Silk Co., New York, N. Y. Silk	39,514	Dec. 23	101	2813
Honey Comb Chocolate Chip Co., Ltd., Battlecreek, Mich. Chocolate chips	38,345	May 27	99	2095
Hoogerwerf, Govert, Vlaardingen, Netherlands. Herring	38,334	May 27	99	2093
Hooper & Co., Minot, New York, N. Y. Coarse unbleached cotton	38,054	Apr. 8	99	438
Hopkins, Adolphe H., Brooklyn, N. Y. Tonic	38,630	July 22	100	927
Hopkins Patent Company, Chicago, Ill. Moving-machines	38,318	May 20	99	1862
Hopkins, William B., Washington, D. C. Medical effervescent preparation	39,482	Dec. 16	101	2561
Hoshaw, William M., Bisbee, Ariz. Ter. Medicines for treatment of the blood	38,543	July 1	100	226
Houlette, Edward C., Kansas City, Mo. Fruit laxative tablets	39,524	Dec. 23	101	2814
Howard & Co., I. R., Richmond, Ind. Syrups, cereals, coffee, baking-powder, and canned vegetables	38,476	June 17	99	2763
Hoxley, Haviland & Dresser, New York, N. Y. Sheet-music	37,684	Jan. 28	98	786
Hoxley, Haviland & Dresser, New York, N. Y. Sheet-music	37,684	Feb. 7	98	220
Hoxworth, Edward, Waco, Tex. Salve	38,932	Apr. 1	99	222
Hub Gore Makers, Boston, Mass. Boots, shoes, and slippers	37,679	Jan. 28	98	785
Hub Gore Makers, Boston, Mass. Textile poring and webbing	38,187	Apr. 29	99	1164
Hubbert, Mirona B., Syracuse, N. Y. Certain named toilet preparations and soap	37,785	Feb. 11	98	1277
Hudnut, Richard, New York, N. Y. Perfumes	37,992	Mar. 11	98	2165
Hudnut, Richard, New York, N. Y. Perfumes	37,993	Mar. 18	98	2357
Huenefeld, Ernst H., Cincinnati, Ohio. Washing-machines	37,992	Feb. 18	98	1479
Huenefeld, Ernst H., Cincinnati, Ohio. Washing-machines	37,992	Mar. 25	98	2382
Hugh Smith, Newark, N. J. Patent and enameled leather	37,848	Feb. 25	98	1700
Hughes, George H., London, England. Certain named food for horses and cattle	39,382	Dec. 2	101	2968
Hupp, Robert C., 2d, Detroit, Mich. Face-cream	37,801	Mar. 4	98	1961
Hurlbut, Mortimer J. E., Chicago, Ill. Mechanical respiratory devices	37,870	Feb. 25	98	1702
Hutchison Acoustic Co., New York, N. Y. Instruments and apparatus for treating the ear	39,357	Nov. 11	101	1966
Hutchison Acoustic Co., New York, N. Y. Certain named telephonic apparatus	39,358	Feb. 18	101	2271
Hutchison Acoustic Company, New York, N. Y. Apparatus for massaging the ear	39,417	Dec. 9	101	2277
Hyde, Benjamin T. B., New York, N. Y. Certain named goods and wares of Indian manufacture	39,121	Oct. 28	101	880
Hyde, Benjamin T. B., New York, N. Y. Certain named goods and wares of Indian manufacture	39,122	Oct. 28	101	880
Hyman, E. Louis, New York, N. Y. Wines, brandies, and whiskies	39,142	Oct. 28	101	882
I-Am-A-Concumbent Co., Bloomington, Ill. Certain named condiment and table relish	39,037	Oct. 14	101	443
I. B. Kleierr Rubber Co., New York, N. Y. Dress-shields	37,606	Jan. 7	98	220
I. B. Kleierr Rubber Company, New York, N. Y. Dress-shields	38,604	July 15	100	675
I. B. Kleierr Rubber Company, New York, N. Y. Dress-shields	39,558	Dec. 30	101	3095
Igleheart Brothers, Evansville, Ind. Cereal food products	39,333	Nov. 25	101	1822
Illinois Sewing Machine Company, Chicago, Ill. Sewing-machines	38,890	Sept. 16	100	2598
Illinois Sewing Machine Company, Chicago, Ill. Sewing-machines	38,890	Sept. 16	100	2598
Illinois Watch Case Co., Elgin, Ill. Watchcases	39,586	Dec. 30	101	3099
Imperial Brewing Co., Kansas City, Mo. Beer	39,082	Oct. 14	101	443
Imperial Varnish & Color Co., Limited, Toronto, Canada. Varnishes	38,280	May 13	99	1617

## Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Imperial Writing Machine Co., (Limited.) Montreal, Canada. Writing-machines and type-writers	38,046	Apr. 1	99	224
Independent Brewing Association, Chicago, Ill. Tont	38,807	Aug. 19	100	1757
Independent Brewing Association, Chicago, Ill. Lager-beer	38,808	Aug. 19	100	1757
Independent Brewing Association, Chicago, Ill. Beer	38,809	Aug. 19	100	1758
Independent Master Horseshoers Association, New York, N. Y. Horseshoes	39,263	Nov. 11	101	1366
Inzalls, Allen G., Montreal, Canada. Stoves, furnaces, and attachments therefor	38,558	July 1	100	227
Inzham, Charles K., Suffern, N. Y. Cleaning and polishing solution	38,250	May 13	99	1615
Innes & Grieve, Limited, Edinburgh, Scotland. Scotch whisky	37,722	Feb. 4	98	1024
International Automobile and Vehicle Tire Company, New York, N. Y. Rubbertires for vehicles	39,212	Nov. 4	101	1125
International Drug & Agency Co., New York, N. Y. Medical compounds for certain named diseases	39,594	Dec. 30	101	3100
International Textbook Company, Scranton, Pa. Phonographic language-lesson records	37,985	Mar. 25	98	2582
International Water-Proofing Co., Chicago, Ill. Waterproof cloths, silks, and other textile fabrics	37,673	Jan. 28	98	784
Int'l Acheson Graphite Company, Niagara Falls, N. Y. Graphite and carbon and graphite and carbonaceous products	37,907	Mar. 4	98	1963
Ironsides Company, Columbus, Ohio. Certain named lubricants	39,046	Oct. 14	101	444
Ironsides Company, Columbus, Ohio. Certain named lubricants	39,047	Oct. 14	101	444
Ironsides Company, Columbus, Ohio. Lubricants and lubricating compounds	39,155	Oct. 28	101	883
Ironsides Company, Columbus, Ohio. Certain named lubricants	39,289	Nov. 18	101	1599
Ironsides Company, Columbus, Ohio. Certain named lubricants	39,290	Nov. 18	101	1600
Ironsides Company, Columbus, Ohio. Paint, varnishes, and paint-oils	39,365	Nov. 25	101	1826
Ironsides Company, Columbus, Ohio. Rope-fillers	39,610	Dec. 30	101	3102
Ironsides Company, Columbus, Ohio. Rope-fillers	39,611	Dec. 30	101	3102
Iroquois Knitting Mills, Philadelphia, Pa. Underwear	37,656	Jan. 21	98	577
Isaac Prouty & Co., Incorporated, Spencer and Boston, Mass. Boots and shoes	38,422	June 10	99	2541
J. B. & G. W. McFatrigh, Chicago, Ill. Eye remedy	39,477	Dec. 16	101	2561
J. B. & G. W. McFatrigh, Chicago, Ill. Eye remedy	39,478	Dec. 16	101	2561
J. B. & S. M. Knowles Co., Providence, R. I. Spoon	38,696	Apr. 15	99	656
J. B. Williams Company, Glastonbury, Conn. Shaving-soap	39,132	Oct. 28	101	881
J. D. McCann Company, Hornellsville, N. Y. Medical compounds used for skin diseases	38,756	Aug. 12	100	1557
J. & E. Atkinson, Limited, London, England. Perfumery	38,483	June 17	99	2764
J. & J. Cash, Ltd., Coventry, England, and New York, N. Y. Neckwear	37,019	Mar. 11	98	2164
J. & J. Colman, Limited, London, England. Mustard and mustard-sauce	39,237	Nov. 11	101	1364
J. J. Hookens Company, Newark, N. J. Certain named surface-finishing materials	37,751	Feb. 4	98	1027
J. K. J. M. Worrall, Limited, Salford, England. Cotton piece goods	38,641	July 22	100	926
J. K. Orr Shoe Co., Atlanta, Ga. Men's and boys' shoes	37,780	Feb. 11	98	1277
J. K. Orr Shoe Co., Atlanta, Ga. Ladies' and misses' shoes	37,914	Mar. 11	98	2164
J. K. Orr Shoe Co., Atlanta, Ga. Certain named shoes	38,153	Apr. 22	99	856
Jack Drug Co., New York, N. Y. Remedies for headache, nervous complaints, and general debility	38,647	July 22	100	927
Jacob Dold Packing Company, Buffalo, N. Y. Cured meats	39,490	Dec. 16	101	2562
Jacob Dold Packing Company, Buffalo, N. Y. Cured meats	39,491	Dec. 16	101	2562
Jaeger, George A., New York, N. Y. Certain named paper	38,831	Aug. 26	100	1968
James McCreery & Co., New York, N. Y. Gloves	38,742	Aug. 12	100	1556
James Pascall, Limited, London, England. Confectionery	39,304	Nov. 18	101	1601
Job, Maison, Pierre B., Perpignan, France. Cigarette-papers	37,640	Jan. 14	98	411
John Thomson Press Co., New York, N. Y. Printing and embossing presses and appliances connected therewith	38,092	Apr. 8	99	442
John A. Casey Company, New York, N. Y. Mixed turpentine	37,872	Feb. 25	98	1702
John B. Stetson Company, Philadelphia, Pa. Soft and stiff felt hats and caps	39,368	Nov. 25	101	1826
John P. Squire & Company, Jersey City, N. J., and Boston, Mass. Lard, sausages, bacon, and ribs	39,182	Nov. 4	101	1122
Johns, Samuel L., McSherrystown, Pa. Cigars	37,643	Jan. 14	98	412
Johnson, Charles W., Minneapolis, Minn. Medicine for the blood, kidneys, and liver	38,648	July 22	100	927
Johnson Harvester Co., Batavia, N. Y. Mowers, reapers, binders, and parts thereof	38,638	July 15	100	678
Jones Bros. & Co., Louisville, Ky. Vinegar	38,073	Apr. 8	99	440
Jones Brothers and Company, Louisville, Ky. Cider	38,116	Apr. 15	99	659
Jones and Jones, Atlanta, Ga. Remedy for certain named diseases	37,747	Feb. 4	98	1026
Jones, William A., West Kirby, England. Throat-pastils	38,747	Aug. 12	100	1556
Jönköpings Tändsticksfabriks Aktie Bolag, Jönköping, Sweden. Safety-matches	38,243	Apr. 29	99	1166
Joplin Brewing Co., Joplin, Mo. Beer	39,344	Nov. 25	101	1824
Joralemon, Edgar J., Newark, N. J. Certain named plumbing goods	38,004	Apr. 8	99	412
Jos. Schlitz Brewing Company, Milwaukee, Wis. Lager-beer	38,773	Aug. 12	100	1559
Jos. Speidel Grocery Co., Wheeling, W. Va. Certain named groceries	38,067	Apr. 8	99	439
Julia & Co., J. J., New York, N. Y. Shoes	38,425	June 10	99	2542
Julier Baking Company, Cleveland, Ohio. Bread, crackers, and cakes	39,144	Oct. 28	101	882
Justice & Co., Philip S., Philadelphia, Pa. Hydraulic jacks	39,265	Nov. 11	101	1366
Kauter, Hans, Chicago, Ill. Whisky and brandy tonic	39,439	Dec. 9	101	2379
Kahn, Henry, San Francisco, Cal. Certain named optical goods	37,758	Feb. 4	98	1027
Kaiser's Kaffeegeschäft, Gesellschaft mit Beschränkter Haftung, Viersen, Germany. Cocoa and chocolate and preparations thereof	39,484	Dec. 16	101	2561
Kakao-Compagnie Theodor Reichardt, Gesellschaft mit Beschränkter Haftung, Wandsbek, Germany. Cocoa and cocoa preparations	38,815	Aug. 19	100	1738
Kansas City Roofing & Corrugating Co., Kansas City, Mo. Fabric roofing	38,737	Aug. 5	99	1325
Kar & Sea Sic Co., Bellefont, Pa. Remedy for sea-sickness	38,151	Nov. 25	99	856
Kar & Sea Sic Co., Bellefont, Pa. Remedy for car-sickness	39,350	Nov. 25	101	1821
Karl Digestible Rusk Co., Boston, Mass. Rusk	39,332	Nov. 25	101	1822
Kastle, Joseph H., Lexington, Ky. Medical compound for treatment of nervous diseases and as a tissue builder and general tonic	39,005	Oct. 7	101	213
Kaufeld Glass Co., Matthews, Ind. Lamp-chimneys	39,421	Dec. 9	101	2377
Kaye & Ernst, New York, N. Y. Coats	37,980	Mar. 25	98	2582
Kearny, Hamilton R., Minneapolis, Minn. Wheat-flour	38,624	July 15	100	677
Kellogg, Frank J., Battlecreek, Mich. Remedy for obesity	38,164	Apr. 22	99	857
Kelsey, Frank E., Battlecreek, Mich. Cereal, fruit, and nut food products	39,375	Dec. 2	101	2067
Kempshall Manufacturing Co., Arlington, N. J. Golf-balls	39,130	Oct. 28	101	881
Kendall-Davis Company, Boston, Mass. Soap	39,039	Oct. 14	101	443
Kennedy Distilling Company, Brooklyn, N. Y. Whisky and beverages containing same	39,085	Oct. 21	101	655
Kennedy-Hamilton Co., Mount Washington, Md. Remedy for toothache, headache, and neuralgia	39,199	Nov. 4	101	1124
Kennedy & Kennedy, Johnstown, N. Y. Hair and scalp tonic	37,742	Feb. 4	98	1026
Kenyon, Thomas N., Minneapolis, Minn. Remedies for certain named diseases	38,348	May 27	99	2095



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Name, residence, and title.	No.	Date.	Official Gazette.	
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Ker & Co., London, England; Glasgow, Scotland, and Manila, P. I. Cotton piece goods and cotton yarn	39,116	Oct. 28	101	879
Ker & Co., London, England; Glasgow, Scotland, and Manila, P. I. Cotton piece goods and cotton yarn	39,117	Oct. 28	101	879
Ker & Co., London, England; Glasgow, Scotland, and Manila, P. I. Cotton piece goods and cotton yarn	39,118	Oct. 28	101	879
Kerfoot & Co., Thomas, Ashton-under-Lyne, England. Fruit bonbons	39,285	Nov. 18	101	1360
Kern & Sons, J. B. A., Milwaukee, Wis. Wheat-flour	39,034	Oct. 14	101	443
Keystone Seal & Press Company, New York, N. Y. Seal-presses and soft-metal seals	38,209	Apr. 29	99	1196
Keystone Seal & Press Company, New York, N. Y. Seal-wire and soft-metal seals	38,410	June 3	99	2315
Keystone Watch Case Company, Philadelphia, Pa. Watches, watchcases, and watch-movements	38,826	July 1	100	224
Kimball, Charles M., Winthrop, Mass. Polish for metals	38,767	Aug. 12	100	1538
King, George W., Swansboro, Va. Cleansing preparations in tablet form	38,466	Sept. 2	100	2171
Kingery Manufacturing Company, Cincinnati, Ohio. Gelatin	38,519	June 24	99	2361
Kinsey Mfg. Co., Dayton, Ohio. Gasolene-stoves	39,107	Oct. 21	101	657
Kirk Bros. & Company, Chicago, Ill. Soap	38,342	May 27	99	2094
Klaas, Max, New York, N. Y. Certain named cutlery and hardware and surgical instruments	37,820	Feb. 18	98	1490
Klaas, Max, New York, N. Y. Certain named cutlery and hardware and surgical instruments	37,830	Feb. 18	98	1490
Kline, Crias B., Reamstown, Pa. Remedy for certain named diseases	37,790	Feb. 11	98	1278
Knecht & Co., Hermann, Munich, Germany. Dust and moisture absorbing compound	39,097	Oct. 21	101	636
Knappe & Son, R. C., Brooklyn, N. Y. Medicine for cure of rheumatism, neuralgia, and headache	38,245	May 13	99	1613
Knothe, Adolph C., New York, N. Y. Suspenders	37,987	Mar. 25	98	2582
Knowles, Charles S., Boston, Mass. Electrical glassware	37,874	Feb. 25	98	1792
Knox, George A., Rochester, N. Y. Medicinal compounds for certain named diseases	38,080	Apr. 8	99	441
Koblenz, William M., Gibson City, Ill. Certain named shoes	39,023	Nov. 18	101	1603
Koch, Alfred J., New York, N. Y. Suspenders	38,023	Nov. 18	101	1536
Kops Bros., New York, N. Y. Corsets	37,841	Feb. 25	98	1608
Kops Bros., New York, N. Y. Corsets	38,002	Apr. 1	99	210
Kops Bros., New York, N. Y. Corsets	39,056	Oct. 21	101	632
Kops Bros., New York, N. Y. Corsets	39,057	Oct. 21	101	632
Kops Bros., New York, N. Y. Corsets	39,170	Dec. 16	101	2560
Kovacic, Rudolph F., Allegheny, Pa. Remedy for certain named diseases	37,789	Feb. 11	98	1278
Krag Metallic Construction Co., Chicago, Ill. Metallic desks and filing-cabinets	39,214	Nov. 4	101	1196
Krag Metallic Construction Co., Chicago, Ill. Metallic filing-cabinets and metallic desks	39,293	Nov. 18	101	1591
Kraus-haar, August, Hanau, Germany. Dust-bellows	39,301	Nov. 18	101	1601
Kraut, Edward H., Cincinnati, Ohio. Complexion-soap for the skin	39,581	Dec. 30	101	3008
Krems, Walter R., Chicago, Ill. Tonic medicinal compound	39,016	Sept. 23	100	2768
Kress & Owen Company, New York, N. Y. Certain named medicinal remedy	38,081	Apr. 8	99	441
Kridel Sons & Co., J., New York, N. Y. Ribbons, silks, satins, and velvets	38,714	Aug. 5	100	1323
Kruoger, Emma M., Roult Top, Tex. Veterinary remedy	38,073	July 29	100	1105
Kuner Pickle Company, Denver, Colo. Sauces	39,481	Dec. 9	101	2278
Kuner Pickle Company, Denver, Colo. Pickles	39,532	Dec. 23	101	2815
Kyles, John C., Coffee Springs, Ala. Remedy for certain named diseases	37,791	Feb. 11	98	1278
L. Martin Company, New York, N. Y. Dry lampblack	38,888	Sept. 9	100	2379
L. Richardson Drug Co., Greensboro, N. C. Certain named drugs	38,025	Apr. 1	99	222
L. E. Waterman Company, New York, N. Y. Fountain-pens	37,762	Feb. 4	98	1028
L. E. Waterman Company, New York, N. Y. Fountain-pens	39,128	Oct. 28	101	681
L. H. Beals & Son Co., Westfield, Mass. Whips	39,104	Oct. 21	101	657
Laffin & Rand Powder Company, New York, N. Y. Certain named explosives, fuses, and electric batteries	38,137	Apr. 15	99	661
Lagamarsino & Co., P. P., Philadelphia, Pa. Shoe-polishing preparations	39,535	Dec. 23	101	2816
Lambert Pharmacal Co., St. Louis, Mo. Toilet soap	38,511	June 24	99	2360
Lamkin & Foster, Boston, Mass. Men's boots and shoes	38,887	Aug. 26	100	1909
Lamond, Felix, New York, N. Y. Weekly periodical	37,992	Apr. 1	99	219
Lamson Brothers, Toledo, Ohio. Flannels	37,885	Mar. 4	98	1920
Land and Marine Supply Company, Hoboken, N. J. Preparations for prevention of incrustation in boilers	38,440	June 10	99	2543
Landers, Frary and Clark, New Britain, Conn. Cylindrical food-choppers	38,971	Sept. 30	100	3007
Larimore & Co., New York, N. Y. Tonic medicines	39,139	Oct. 28	101	882
Lattemann, John J., New York, N. Y. Ankle-supporting shoes	39,472	Dec. 16	101	2560
Laurel Cotton Mills, Laurel, Miss. Certain named dry goods	38,288	May 20	99	1350
Lautaro Nitrate Company, Limited, London, England. Refined nitrate for fertilizing purposes	37,871	Feb. 25	98	1702
Lavaline Manufacturing Company, Denver, Colo. Cleaning-powder	39,572	Dec. 30	101	3007
Law, Hartland and Herbert E. Law, San Francisco, Cal. Certain named proprietary medicines	39,276	Nov. 18	101	1598
Lawrence, Gustav T., New York, N. Y. Butter, cheese, and eggs	37,899	Mar. 4	98	1902
Laxakota Company, New York, N. Y. Ointment for the skin	38,646	July 22	100	926
Le Fevre, August A., Lancaster, Pa. Perfumes	38,015	Apr. 1	99	220
Lebachou, Louis, Paris, France. Paper, card, or wrappers, and envelopes	39,587	Dec. 30	101	3009
Ledwith, John J., Newark, N. J. Proprietary medicines	37,786	Feb. 11	98	1277
Ledwith, John J., Newark, N. J. Proprietary medicines	37,787	Feb. 11	98	1277
Leff, William H., Gloversville, N. Y. Gloves and mittens	39,221	Nov. 11	101	1362
Leggett & Brother, New York, N. Y. Dry-powder dusters	39,259	Nov. 11	101	1366
Leggett & Co., Wm. A., New York, N. Y. Canned fruits and vegetables	39,601	Dec. 30	101	3101
Leigh, Charles N., Minneapolis, Minn. Mouth, nose, and throat wash	39,518	Dec. 23	101	2814
Leigh, Charles N., New York, N. Y. Remedy for colds in tablet or pill form	37,930	Mar. 4	98	1901
Leopold Ascher Company, New York, N. Y. Certain named brushes	38,462	June 17	99	2762
Lepper, John J., Milwaukee, Wis. Medicine for curing corns, calluses, and warts	38,127	Apr. 15	99	660
Leroux, James, Toledo, Ohio. Liquid medicine for blood diseases	38,750	Aug. 12	100	1556
Leroux, James, Toledo, Ohio. Medicine in liquid form for blood diseases	39,108	Nov. 4	101	1124
Lesraide Bros., New York, N. Y. Butter	38,345	May 27	99	2094
Leudel, Irving D., Reading, Pa. Automobiles	39,264	Nov. 11	101	1366
Lever Brothers, Limited, Port Sunlight, England. Toilet soap, laundry soap, dry soap, soap-powder, and detergents	38,122	Apr. 15	99	659
Levi, Philip, New York, N. Y. Liquid furniture-polish	38,736	Aug. 5	100	1325
Levy, Louis D., New York, N. Y. Trousers	37,842	Feb. 18	98	1477
Libby, McNeill & Libby, Chicago, Ill. Certain named packing-house products	38,537	July 1	100	225
Liberty Silk Co., New York, N. Y. Dress-silks	37,840	Feb. 25	98	1692
Liberty Silk Co., New York, N. Y. Dress-silks	38,068	Apr. 15	99	1556
Liberty Silk Co., New York, N. Y. Dress-silks	38,787	Aug. 19	100	1735
Lichtenstein, Max, Jerome, Ariz. Ter. Remedy for certain named diseases	37,614	Jan. 7	98	221
Liebig Extract Company, New York, N. Y. Beef extracts	37,660	Jan. 21	98	578
Lincoln Waterproof Cloth Co., Boundbrook, N. J. Waterproof fabric for roofing and belting	37,781	Feb. 11	98	1277
Lindauer, Jules, Paris, France. Corsets, corselets, gorgets, belts, bust-holders, busks, whale-bones or steels, and hose-supporters	38,603	July 15	100	674

## Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Lindenmeyr & Sons, Henry, New York, N. Y. Transparent wrapping-paper	38,285	May 20	99	1859
Lindner-Shoe Co., Carlisle, Pa. Ladies' shoes	37,845	Feb. 25	98	1699
Link Belt Machinery Co., Chicago, Ill. Chain belts	37,877	Feb. 25	98	1702
Luntner, Emilie M., Allegheny, Pa. Medicinal preparation for certain named diseases	39,399	Dec. 2	101	2070
Lion & Wertheimer, New York, N. Y. Ribbons	38,324	May 13	99	1610
Lipscomb Glass Co., Cincinnati, Ohio, and Alexandria, Ind. Lamp-chimneys	39,420	Dec. 9	101	2277
Listman Mill Company, La Crosse, Wis. Wheat-flour	37,809	Feb. 18	98	1478
Listman Mill Company, La Crosse, Wis. Wheat-flour	37,810	Feb. 18	98	1478
Listman Mill Company, La Crosse, Wis. Bran, middlings, brown and white, mixed feed, and red dog	38,723	Aug. 5	100	1324
Listman Mill Company, La Crosse, Wis. Bread	38,994	Oct. 7	101	211
Little Giant Fire Extinguisher Co., New York, N. Y. Chemical fire-extinguishers	38,063	July 22	100	923
Litz, James G., Cincinnati, Ohio. Wigs	38,811	Aug. 19	100	1758
Lloyd, William S., Philadelphia, Pa. Underwear	39,590	Dec. 30	101	3099
Lochman, Louis, Jr., New York, N. Y. Laundry cream	38,886	Sept. 9	100	2379
Locomobile Company of America, New York, N. Y. Certain named motor-vehicles	39,506	Dec. 16	101	2564
Lodge & Co., B., Albany, N. Y. Washcloths made of knit fabric	39,113	Oct. 28	101	879
Loeser & Co., F., Brooklyn, N. Y. Ladies' boots and shoes	37,711	Feb. 4	98	1023
Loewitz & Rohlf, Altona-Ottensen, Germany. Driving belts or bands	38,546	Dec. 23	101	2357
Long, Margaret J., Lebanon, Pa. Gage-glasses	38,873	Sept. 9	100	2377
Longwell and Watters, Wellman, Iowa. Cigars	38,717	Aug. 5	100	1323
Longwell and Watters, Wellman, Iowa. Stock and poultry food and condition-powders for stock and poultry	39,190	Nov. 4	101	1123
Loray Mills, Gastonia, N. C. Sheetings and drillings	38,104	Apr. 15	99	657
Loray Mills, Gastonia, N. C. Sheetings and drillings	38,105	Apr. 15	99	657
Lowe, Robert E., Brooklyn, N. Y. Certain named wearing-apparel	39,054	Apr. 21	99	652
Lowenstein, Morris W., New York, N. Y. Neckwear and Barthele fabric therefor	39,391	Dec. 2	101	2069
Lozier Motor Co. of N. Y., Plattsburg, N. Y. Certain named gas-engines	39,585	Dec. 30	101	3099
Lundquist, Immanuel, New York, N. Y. Atomizers and orthopaedic apparatus	37,880	Mar. 4	98	1961
Lupton Portland Cement Co., East Orange, N. J. Cement	38,135	Apr. 15	99	661
Lyon, Minnie L., Detroit, Mich. Stick, plastic, and fluid belt-dressing preparations	38,171	Apr. 22	99	858
M. Hartley Company, Bridgeport, Conn. and New York, N. Y. Caddy-bags	38,671	July 29	100	1145
M. B. Nash Tobacco Co., Paducah, Ky. Big, roll, twist, and granulated tobacco	37,056	Mar. 13	98	1023
Macey Hook & Eye Co., Grand Rapids, Mich. Hooks and eyes	38,239	May 13	99	1612
Mack, Heinrich, Ulm, Germany. Perfumery and certain named toilet preparations	38,016	Apr. 1	99	221
Mack, Heinrich, Ulm, Germany. Perfumery and certain named toilet preparations	38,017	Apr. 1	99	221
Mack, Heinrich, Ulm and Ilertissen, Germany. Borax	39,534	Dec. 23	101	2815
Macomber & Co., W. L., Boston, Mass. Certain named starch, dextrine, and gums	39,233	Nov. 11	101	1363
Magness Sydicate, Ltd., Westminster, England. Certain named raw or partly-prepared mineral substances used in manufactures	38,441	June 10	99	2543
Magnus Metal Company, Buffalo, N. Y. Antifriction metal	39,661	July 22	100	928
Maibrunn & Knappe, Sharon Springs, N. Y. Certain named remedial agent	38,918	Sept. 23	100	2768
Mallory, William E., Danbury, Conn. Hats	39,162	Nov. 4	101	1120
Malt-Diastase Co., New York, N. Y. Malt extracts	39,437	Dec. 9	101	2379
Maltbie, Birt L., New York, N. Y. Pepsin compound	38,726	Aug. 5	100	1324
Maltecholia Company, Racine, Wis. Breakfast-food beverages	39,371	Dec. 2	101	2067
Malted Food Co., Limited, Batteburgh, Mich. Malted oats and malted wheat	38,104	Apr. 29	99	1165
Maltine Company, Brooklyn, N. Y. Medicinal preparations containing malt extract	37,793	Feb. 11	98	1278
Maltine Company, New York, N. Y. Blood-tonic	39,525	Dec. 23	101	2814
Manhattan Electrical Supply Company, New York, N. Y. Certain named batteries and electrical appliances	37,629	Jan. 7	98	222
Manning, John W., Albany, Tex. Foot-powder	38,729	Aug. 5	100	1325
Maple City Soap Works, Monmouth, Ill. Laundry soap	38,020	Apr. 1	99	221
Maple City Soap Works, Monmouth, Ill. Soap	38,084	Apr. 8	99	441
Maple City Soap Works, Monmouth, Ill. Laundry soap	38,168	Apr. 22	99	857
Marks & Fader, Memphis, Tenn. Hats and caps	39,355	Nov. 25	101	1825
Marks, Richard P., Jacksonville, Fla. Salves or ointments	38,392	June 3	99	2314
Marks, Rothenberg & Co., Meridian, Miss. Boots and shoes	38,294	May 20	99	1860
Marks' Son & Co., M. A., New York, N. Y. Outer-suit clothing for men and boys	37,167	Nov. 4	101	1120
Marososi, Peter S., Minneapolis, Minn. Chewing-candy	37,698	Jan. 28	98	786
Marschat, Karolina A., New York, N. Y. Remedies for rheumatism and other similar inflammatory diseases	38,753	Aug. 12	100	1557
Marshall, McEwen & Co., Glasgow, Scotland. Scotch whisky	39,343	Nov. 25	101	1823
Mason, Albert G., Chicago, Ill. Sewing-machines and attachments	37,910	Mar. 4	98	1963
Mason, Au & Magenheimer Confectionery Manufactg. Co., Brooklyn, N. Y. Confectionery	39,305	Nov. 18	101	1601
Nason & Haralson, Brunswick, Ga. Cigars	38,427	June 10	99	2542
Nason, John, New York, N. Y. Cigarettes	38,193	Apr. 29	99	1164
Nason, Kate, New York, N. Y. Salves and ointments	39,457	Dec. 9	101	2281
Nasson, Louis E., Montreal, Canada. Soothing-syrup	38,612	July 15	100	675
Mathews, Samuel F., Scranton, Pa. Medical compounds for the cure of certain named diseases	39,579	Dec. 30	101	3098
Mattes & Son, E., New York, N. Y. Cap-visors	38,945	Sept. 30	100	3004
May Pants Co., Mayfield, Ky. Men's and boys' trousers, overalls, jumpers, and shirts	37,949	Mar. 18	98	2356
Mayberry, Green B., Morganfield, Ky. La grippe and kidney cure	38,350	May 27	99	2095
Mayer & Loewenstein, New York, N. Y. Japan	37,944	Mar. 11	98	1163
Mayer & Loewenstein, New York, N. Y. Vanishes and japans	38,205	Apr. 29	99	1166
Mayer & Loewenstein, New York, N. Y. Vanishes and japans	38,206	Apr. 29	99	1166
Mayes, Hugh, Princeton, Ky. Remedy for a certain named disease	37,819	Feb. 18	98	1478
Mazawattee Tea Co., Ltd., London, England. Tea, coffee, cocoa, and chocolate	37,815	Feb. 18	98	1478
McBee, Augustine E., Louisville, Ky. Tonics, ointments, and kidney remedies	39,087	Oct. 21	101	655
McCormick Brewery Co., Charleston, W. Va., and Boston, Mass. Ale	38,393	June 3	99	2314
McCurran, Henry M., Hamor, Ind. Ointment for aches and pains	38,615	Feb. 11	99	2377
McEwen & Co., Irving R., Escanaba, Mich. Toilet creams, ointments, and soaps	38,298	May 20	99	1860
McFarland, Renssler, Columbus, Ohio. Medicine in capsule form for the cure of certain named diseases	38,126	Apr. 15	99	659
McGaw & Co., Geo. K., Baltimore, Md. Tea	37,933	Mar. 11	98	2166
McGaw & Co., Geo. K., Baltimore, Md. Tea	37,934	Mar. 11	98	2166
McGaw & Co., Geo. K., Baltimore, Md. Certain named groceries	38,111	Apr. 15	99	658
McIntyre, George F., Chicago, Ill. Certain named hospital and sick-room appliances	39,606	Dec. 30	101	3161
McKee & Company, Charles W., Chicago, Ill. Blood medicine	37,749	Feb. 4	98	1023
McKinley Tonic Medicine Company, Columbus, Ohio. Tonic medicine	38,752	Aug. 12	100	1557
McKinney Bread Co., St. Louis, Mo. Bread, cakes, pies, and crackers	37,690	Jan. 28	98	786
Meichel, Charles, St. Louis, Mo. Ointment	38,673	July 29	100	1105
Meigs & Co., Inc., Bridgeport, Conn. Leather boots and shoes	39,274	Nov. 18	101	1598
Meigs & Co., Inc., Bridgeport, Conn. Bread, biscuits, crackers, cakes, and pies	38,543	Dec. 30	101	3096
Meincke & Co., New York, N. Y. Certain named hospital and sick-room appliances	38,873	Sept. 9	100	2377
Meinches, Edward, Toledo, Ohio. Certain named shower and bathing apparatus	37,652	Jan. 14	98	412



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Mellini & Eakin, Albuquerque, N. Mex. Ter. Whiskies and cigars	38,252	May 13	99	1614
Mellier Drug Company, St. Louis, Mo. Perfume	38,123	Apr. 15	99	659
Mellin's Food Company of North America, Portland, Me., and Boston, Mass. Certain prepared foods	37,689	Jan. 28	93	786
Mellin's Food Company of North America, Portland, Me., and Boston, Mass. Food for infants and invalids	39,523	Dec. 23	101	2815
Meloni, Katharyne A., New York, N. Y. Corsets	39,332	Dec. 2	101	2069
Melvale Distilling Company, Baltimore, Md. Whisky	39,483	Dec. 16	101	2561
Merchants Coffee Co., Baltimore, Md. Coffee	39,339	Nov. 25	101	1833
Metallschlauchfabrik Pforzheim, (vorm. Hch. Witzemann,) G. M. B. H., Pforzheim, Germany. Flexible metal pipes	37,825	Feb. 18	98	1479
Metropolitan Art Company, Boston, Mass. Portraits, pictures, photographs, and photobutons	39,070	Oct. 21	101	652
Metz, Herman A., Brooklyn, N. Y. Preparation for finishing textile fabrics	39,068	Oct. 21	101	656
Mexican Coffee Trading & Planting Co. of New York, St. Louis, Mo. Coffee	39,570	Dec. 30	101	3097
Meyer, Arnold O., Hamburg, Germany. Certain named dry goods	38,280	May 20	99	1859
Meyer, Arnold O., Hamburg, Germany. Wool, cotton, half-wool, silk, and half-silk fabrics, except silk velvets, and cotton, wool, and silk threads and yarns	38,290	May 20	99	1859
Meyer, Arnold O., Hamburg, Germany. Certain named dry goods	38,292	May 20	99	1866
Meyer, Arnold O., Hamburg, Germany. China and earthenware	38,312	May 20	99	1862
Meyer, Arnold O., Hamburg, Germany. Yarns	38,331	May 27	99	2063
Meyer & Co., Chas. E., Freeport, Ill. Spirit-vinegared machines	39,067	Sept. 30	100	2007
Mica Insulator Co., New York, N. Y. Electrical insulators	39,410	Dec. 2	101	2071
Mica Insulator Co., New York, N. Y. Electrical insulators	39,411	Dec. 2	101	2071
Mica Insulator Co., New York, N. Y. Electrical insulators	39,449	Dec. 9	101	2280
Michau & Co., Th., Paris, France, and New York, N. Y. Silk-warp fabrics for dress goods and linings	37,801	Feb. 18	98	1477
Michigan Clothing Co., Ionia, Mich. Skirts	38,642	July 22	99	1366
Michigan Soap Works, Detroit, Mich. Laundry soap	38,406	May 20	99	1862
Mikkelsen, Edward, Chicago, Ill. Game-boards	38,374	June 3	99	2312
Miller, Bryant, Pierce Co., Aurora, Ill. Type-writer ribbons	38,820	Aug. 19	100	1759
Miller, Joseph B., Sedalia, Mo. Chemical fire-extinguishers	39,554	Dec. 23	101	2818
Miller Rubber Mfg. Co., Akron, Ohio. Certain named seamless rubber goods	39,061	Oct. 21	101	652
Miller Rubber Mfg. Co., Akron, Ohio. Certain named rubber goods	39,423	Dec. 9	101	2277
Milligan & Higgins Glue Co., New York, N. Y. Gelatin and preparations of gelatin	38,300	May 20	99	1860
Mill Novelty Machine Co., Chicago, Ill. Cori-operated machines	39,549	Dec. 23	101	2817
Miner, Benjamin F., Montague, Mass. Vegetable tonics and flavoring extracts	39,086	Oct. 21	101	655
Minerallac Company, Chicago, Ill. Insulating materials	39,362	Nov. 28	101	1825
Miró, Elias, (Sociedad en Comandita,) Havana, Cuba. Wheat-flour	38,478	June 17	99	2764
Mistrot, Felix E., Galveston, Tex. Shoes	37,658	Jan. 21	98	577
Mistrot, Felix E., Galveston, Tex. Shoes	37,712	Feb. 4	98	1023
Mistrot, Felix E., Galveston, Tex. Shoes	37,713	Feb. 4	98	1023
Mistrot, Felix E., Galveston, Tex. Hosiery	38,421	June 10	99	2541
Mistrot, Felix E., Galveston, Tex. Corsets	38,643	July 22	100	926
Mitchell, Charles M., Chattanooga, Tenn. Lacings	38,158	Apr. 22	99	856
Mittag & Volger, Parkridge, N. J. Carbon-paper	39,446	Dec. 9	101	2280
Mittag & Volger, Parkridge, N. J. Carbon-paper	39,447	Dec. 9	101	2280
Mittag & Volger, Parkridge, N. J. Carbon-paper	39,467	Dec. 16	101	2560
Mohawk Paint and Chemical Co., New York, N. Y. Mineral paints	38,538	July 8	100	446
Molinét, Juan, Havana, Cuba. Medicated bathing compounds	38,448	May 13	99	1614
Monger, John A., Superior, Wis. Remedies for certain named diseases	39,519	Dec. 23	101	2814
Montgomery, George L., New York, N. Y. Drillings and sheetings	38,453	June 17	99	2761
Montgomery, George L., New York, N. Y. Drillings and sheetings	38,506	June 24	99	2959
Montgomery, John F., et al., executors. (See Phillips, William H.)				
Moore, Charles S., Danvers, Mass. Medicine for inflammatory diseases	38,470	June 17	99	2763
Moore Chemical and Manufacturing Company, Kansas City, Mo. Liquid sheep-dip	38,131	Apr. 15	99	660
Morehouse Manufacturing Co., Savannah, Ga. Baking powder	37,691	Jan. 28	98	786
Morel Bros., Cobbett & Son, Ltd., London, England. Apricot-brandy	37,724	Feb. 4	98	1024
Morgan Crucible Co., Ltd., Battersea, London, England. Furnace materials	38,177	Apr. 22	99	858
Morgenthau, Mengo L., New York, N. Y. Certain named confectionery	38,346	May 27	99	2095
Morris, Alfred W., Philadelphia, Pa. Anti-incrustating compound for steam-boilers	38,281	May 13	99	1618
Morse, Lewis J., Brewer, Me. Torpedoes	38,210	Apr. 29	99	1166
Moulton & Co., Charles H., Boston, Mass. Boots and shoes	38,381	June 3	99	2213
Mound City Paint & Color Company, St. Louis, Mo. Paints ground in oil	38,609	Dec. 30	101	3102
Muir, Jessie, Thornton, Iowa. Internal remedies for horses and cattle	39,015	Oct. 14	101	441
Mundorff, Theo., New York, N. Y. Lenses	39,071	Oct. 21	101	653
Mundorff, Theodore, New York, N. Y. Optical lenses	38,874	Sept. 9	100	2377
Munsell & Company, Eugene, New York, N. Y. Reflectors, refractors, shades, canopies, and chimneys	39,414	Dec. 2	101	2072
Munson, Corydon W., Toledo, Ohio. Artificial teeth	38,616	Feb. 18	99	1479
Munyon's Homeopathic Home Remedy Co., Philadelphia, Pa. Stomach-bitters	37,990	Mar. 11	98	2166
Muralo Company, New Brighton, N. Y. Wall finishing and decorating material	38,989	Sept. 23	100	2770
Murna Medical Company, Winchester, Va. Remedies for nervous diseases and diseases of the stomach, liver, and bowels	38,583	July 8	100	446
Muschenheim, William C., New York, N. Y. Cigars and cigarettes	39,231	Nov. 11	101	1363
Myers, John F., San Francisco, Cal. Stove-polish	37,692	Jan. 28	98	786
Myers & Son, M., Birmingham, England. Steel pens	38,240	May 13	99	1613
Mygatt, Otis A., New York, N. Y. Vases, urns, dishes, lamps, and pressed ware generally	37,765	Feb. 4	98	1028
Mygatt, Otis A., New York, N. Y. Lamp shades and reflectors	37,766	Feb. 4	98	1028
N. Ward Company, Boston, Mass. Oleo oil	39,498	Dec. 16	101	2563
N. K. Fairbank Company, Chicago, Ill. Laundry and toilet soaps	38,484	June 17	99	2765
N. K. Fairbank Company, Chicago, Ill. Laundry soap	38,851	Aug. 26	100	1971
Naamloze Vennootschap Eau de Cologne Fabrik Voorheen J. C. Boldoot, Amsterdam, Netherlands. Eau-de-cologne, soaps, waters, and lotions for toilet purposes	37,923	Mar. 11	98	2165
Naamloze Vennootschap Nederlandsche Verfabrik "Eclatin," Amsterdam, Netherlands. Paints	38,691	July 29	100	1106
Nachtigall & Co., Simon, New York, N. Y. Cotton piece goods	37,706	Feb. 4	98	1023
Nash Regulating Valve Co., Detroit, Mich. Certain named heating apparatus and thermal appliances	38,494	June 17	99	2766
Nash Smith Tea & Coffee Co., Denver, Colo. Java and Mocha coffee	38,679	July 29	100	1105
Nashawannuck Manufacturing Company, Easthampton, Mass., and New York, N. Y. Suspenders	37,843	Feb. 25	98	1699
Nathan, Alfred, Montreal, Canada. Vermin-destroyers	38,360	May 27	99	2096
National Architectural Improvement and Supply Company, Wilmington, Del., and Baltimore, Md. Certain named cleaning compounds, wood-stain, ship-cement, and antifouling-bottom compound	35,842	Aug. 26	100	1969

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Name, residence, and title	No.	Date.	Official Gazette.	
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National Drug & Pharmacal Co., Baltimore, Md. Salve.....	38,514	June 24	99	2960
National Electric Lamp Co., Cleveland, Ohio. Incandescent electric lamps.....	38,825	Aug. 19	100	1760
National Haircome Co., Milwaukee, Wis. Medicinal compound for restoring hair.....	38,549	July 1	100	226
National Manufacturing & Supply Co., New York, N. Y. Certain named mixing devices.....	39,408	Dec. 2	101	2071
National Spring Bed Company, New Britain, Conn. Certain named bed-bottoms and bedsteads.....	38,315	May 20	99	1862
National Starch Company, New York, N. Y. Corn-oil, corn-oil cake, and meal, including germ-oil.....	37,812	Feb. 18	98	1478
National Starch Company, New York, N. Y. Gluten feed.....	37,813	Feb. 18	98	1478
National Starch Company, New York, N. Y. Meal, including gluten-meal.....	37,814	Feb. 18	98	1478
National Starch Company, New York, N. Y. Gluten-meal.....	37,937	Mar. 11	98	2167
National Starch Company, New York, N. Y. Corn-oil and corn-oil cake.....	38,307	May 20	99	1861
National Supply Co., New York, N. Y. Certain named washing compounds.....	38,627	July 15	100	677
Natural Food Co., Niagara Falls, N. Y. Bread.....	39,241	Nov. 16	101	1364
Natural Food Company, Niagara Falls, N. Y. Shredded wheat biscuit.....	37,726	Feb. 4	98	1025
Neal, James A., Boston, Mass. Wheat-flour, wheat food preparations, and wheat breakfast-foods.....	38,722	Aug. 5	100	1324
Nedo Company, Washington, D. C. Tooth brush and powder cabinets.....	37,991	Mar. 25	98	2582
Nelson, Abiel W., New London, Conn. Granulated, soluble compound of alumina, calcium, and sawdust.....	39,203	Nov. 4	101	1124
Neuss Gebrüder, Aix-la-Chapelle, Germany. Certain named needles and pins.....	39,557	Dec. 30	101	3085
New England Cotton Yarn Company, Jersey City, N. J., and New Bedford, Mass. Cotton threads.....	38,753	June 3	99	2312
New England Cotton Yarn Company, Jersey City, N. J., and New Bedford, Mass. Cotton thread.....	38,789	Aug. 19	100	1755
New England Cotton Yarn Company, Jersey City, N. J., and New Bedford, Mass. Cotton thread.....	38,790	Aug. 19	100	1755
New England Cotton Yarn Company, Jersey City, N. J., and New Bedford, Mass. Cotton threads.....	38,836	Aug. 26	100	1968
New England Cotton Yarn Company, Jersey City, N. J., and New Bedford, Mass. Cotton threads.....	38,944	Sept. 30	100	3004
New England Cotton Yarn Company, Jersey City, N. J., and New Bedford, Mass. Cotton threads.....	39,055	Oct. 21	101	652
New England Enameling Co., Middletown, Conn. Enameled metalware.....	39,547	Dec. 23	101	2817
New England Watch Co., Waterbury, Conn. Watches.....	39,464	Dec. 16	101	2560
New England Watch Co., Waterbury, Conn. Watches.....	39,465	Dec. 16	101	2560
New England Watch Co., Waterbury, Conn. Watches.....	39,466	Dec. 16	101	2560
New Era Lustre Company, New Haven, Conn. Metal lacquers.....	38,404	June 8	99	2315
New Orleans Coffee Co., Limited, New Orleans, La. Starch.....	38,304	May 20	99	1861
New Orleans Coffee Co., Limited, New Orleans, La. Starch.....	38,305	May 20	99	1861
New Orleans Coffee Co., Ltd., New Orleans, La. Coffee, molasses, teas, and spices.....	38,340	May 27	99	2094
New Prague Flouring Mill Company, New Prague, Minn. Wheat-flour.....	39,154	Nov. 4	101	1122
New Prague Flouring Mill Company, New Prague, Minn. Wheat-flour.....	39,185	Nov. 4	101	1122
New York Belting and Packing Co., Ltd., New York, N. Y. Rubber hose, belting, packing, and gaskets.....	37,627	Jan. 7	98	222
New York Belting & Packing Co., Ltd., New York, N. Y. Vehicle-tires.....	37,834	Feb. 18	98	1480
New York Belting & Packing Co., Ltd., New York, N. Y. Vehicle-tires.....	38,317	May 20	99	1862
New York Leather & Paint Co., New York, N. Y. Leather-like and waterproof fabrics and certain chemical preparations.....	38,219	May 6	99	1379
New York Vending Machine Co., New York, N. Y. Chewing-gum.....	38,344	May 27	99	2095
New York Vending Machine Company, New York, N. Y. Chewing-gum.....	38,120	Apr. 15	99	659
Newhall, Henry B., New York, N. Y. Expansion-bolts, screws, and expansion-shields.....	37,630	Jan. 7	98	222
Nicholas, John S., New York, N. Y. Castle-soap.....	38,990	Oct. 7	101	211
Norddeutsches Honig-und Wachs-Werk von H. Winkelmann, Visselhövede, Germany. Honey.....	39,174	Nov. 4	101	1121
Norden, Hermann, New York, N. Y. Sheetings.....	37,675	Jan. 28	98	784
Norden, Hermann, New York, N. Y. Sheetings.....	37,773	Feb. 11	98	1576
Norden, Hermann, New York, N. Y. Sheetings.....	37,920	Mar. 11	98	2164
Norden, Hermann, New York, N. Y. Sheetings and drills.....	37,948	Mar. 18	98	2356
Norden, Hermann, New York, N. Y. Sheetings.....	38,055	Apr. 8	99	438
Norden, Hermann, New York, N. Y. Sheetings and drills.....	38,103	Apr. 15	99	657
Norden, Hermann, New York, N. Y. Sheetings.....	38,147	Apr. 22	99	855
Norfolk Silk Co., Paterson, N. J., and Norfolk, Va. Dress-silks.....	37,612	Jan. 28	98	784
Norman & Evans, Lockport, N. Y. Wool wadding.....	38,012	Apr. 1	99	220
North Star Shoe Co., Minneapolis, Minn. Leather shoes and slippers.....	39,273	Nov. 18	101	1598
North Star Shoe Co., Minneapolis, Minn. Certain named rubber footwear.....	39,394	Dec. 2	101	2069
Norwood, Richard B., Plainfield, N. J. Insect-extermiators in liquid form.....	37,784	Feb. 11	98	1277
Nostrand, Theodore D., Chicago, Ill. Sticky fly-paper.....	38,085	Apr. 8	99	441
Novelty Stamping Co., Bellaire, Ohio. Enamel-coated metal articles.....	37,951	Mar. 18	98	2356
Nungesser Electric Battery Co., Cleveland, Ohio. Dry batteries.....	38,699	July 29	100	1107
Nuyens & Co., Bordeaux, France. Crème de menthe.....	39,000	Oct. 7	101	212
Nuyens & Co., Bordeaux, France. Crème de Cacao Chuao.....	39,176	Nov. 4	101	1121
Nuyens & Co., Bordeaux, France. Liqueurs.....	39,527	Dec. 23	101	2815
O. Porsch Chemical Company, New York, N. Y. Medical preparation made from herbs.....	38,386	June 3	99	2313
O. C. A. Manufacturing Company, New York, N. Y. Swings and baby-jumpers.....	39,548	Dec. 23	101	2817
O'Brien, Isabel M., Highland Park, Ill. Cleaning and polishing preparations for metal, glass, and similar materials.....	38,988	Oct. 7	101	211
O'Donohue's Sons, Joseph J., New York, N. Y. Sweetened and unsweetened cocoa and chocolate.....	38,864	Sept. 2	100	2171
O'Rourke and Hurley, Little Falls, N. Y. Remedies for diseases of the lungs and throat.....	38,128	Apr. 15	99	660
Oakdale Baking Company, Philadelphia, Pa. Pretzels, cakes, crackers, biscuits, and bread.....	39,488	Dec. 16	101	2562
Oakdale Mfg. Co., Providence, R. I. Butter, butterin, and oleomargarin.....	39,148	Oct. 28	101	882
Ocar Nestler Glass Company, St. Louis, Mo. Prescription-bottles.....	38,739	Aug. 5	100	1526
Obici, Amedeo, Wilkes-Barre, Pa. Peanuts.....	38,828	Sept. 9	100	2278
Ohio Varnish Company, Cleveland, Ohio. Varnishes.....	39,101	Oct. 21	101	657
Ohio Varnish Company, Cleveland, Ohio. Paint.....	39,102	Oct. 21	101	657
Ohliger, Otho J., Pittsburg, Pa. Skin preparations.....	39,476	Dec. 16	101	2561
Olds Motor Works, Detroit and Lansing, Mich. Automobile.....	39,405	Dec. 2	101	2071
Oleo-Naphthol Co., Niagara Falls, N. Y. Antiseptic compound.....	39,396	Dec. 2	101	2070
Open Door Asthma Cure Company, Chicago, Ill. Asthma cures.....	39,480	Dec. 2	101	2070
Oppelt, Charles A., Kane, Pa. Remedies for the cure of certain named diseases.....	38,454	Dec. 9	101	2281
Oppenheim, Oberndorf & Co., Baltimore, Md. Overshirts.....	37,655	Jan. 21	98	577
Oriental Tea & Coffee Co., Galveston, Tex. Coffee.....	37,725	Feb. 4	98	1024
Orr & Sons, P., Madras, India, and London, England. Cleaning preparation.....	38,170	Apr. 22	99	858
Orton, Ingomar F., Galveston, Tex. Insecticides.....	39,280	Nov. 18	101	1599
Ostby & Barton Company, Providence, R. I. Finger-rings.....	38,455	June 17	99	2761
Open Co., San Francisco, Cal. Remedies for certain named diseases.....	39,490	Dec. 2	101	2070
Ostrander, Frank, New York, N. Y. Certain named dry goods.....	38,101	Apr. 15	99	657
Ostens, Henry H., Philadelphia, Pa. Coatings for chocolate and confectionery.....	37,807	Feb. 18	98	1477
Ostens, Henry H., Philadelphia, Pa. Certain named confectionery and bakers' supplies.....	37,896	Mar. 4	98	1962
Ostens, Henry H., Philadelphia, Pa. Filling for certain confectionery and articles of food.....	37,897	Mar. 4	98	1962
Ostens, Henry H., Philadelphia, Pa. Icing-powder for cakes and confectionery.....	38,075	Apr. 8	99	440
Ox-Best Company of America, Montclair, N. J., and Chicago, Ill. Certain named food, relishes, and medicinal preparations.....	38,472	June 17	99	2763
Ozo Remedy Company, New Brighton, Pa. Remedy for diseases of the mouth and throat.....	37,818	Feb. 18	98	1478



## Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
			Vol.	Page.
Pacific Hardware & Steel Co., San Francisco, Cal. Sewing and type-writer machines.	38,444	June 10	99	2544
Packard & Field, Brockton, Mass. Certain named leather footwear and upper and sole leather.	39,275	Nov. 18	101	1598
Page, Ralph H., Detroit, Mich. Antiseptics.	37,867	Feb. 25	98	1701
Page, Ralph H., Detroit, Mich. Antiseptics.	37,868	Feb. 25	98	1701
Ählman, Bröderna, Stockholm, Sweden. Writing books.	39,302	Nov. 18	101	1601
Palmetto Fiber Co., Chicago, Ill., and Frederick, Md. Brushes.	38,977	Oct. 7	101	209
Paraco Rubber Co., Cleveland, Ohio. Elastic exercising devices.	39,361	Nov. 25	101	1825
Parc, Julien du, Sidney, N. Y. Cheese.	39,335	Nov. 25	101	1823
Parker, Frank, New York, N. Y. Preparations for the hair.	39,517	Dec. 23	101	2814
Parker, Holmes & Co., Boston, Mass. Certain named footwear.	37,680	Jan. 28	98	785
Parker, Holmes & Co., Boston, Mass. Leather boots, shoes, and slippers.	39,271	Nov. 18	101	1598
Parker, Holmes & Co., Boston, Mass. Hosiery.	39,262	Nov. 18	101	1600
Parker, Holmes & Company, New York, N. Y. Leather boots, shoes, and slippers.	39,272	Nov. 18	101	1598
Parker Novelty Company, New York, N. Y. Metallic fasteners.	37,667	Jan. 21	98	578
Parker Novelty Company, New York, N. Y. Garment-fasteners.	37,772	Feb. 11	98	1276
Parker Pen Company, Janesville, Wis. Fountain-pens.	37,670	Jan. 28	98	784
Parker, Silas O., Littleton, N. H. Horse remedies.	38,619	July 15	100	676
Paschall, Lewis M., Minneapolis, Minn. Certain named feed.	39,286	Nov. 18	101	1598
Pascoe Medicine Co., Louisville, Ky. Laxative.	39,345	Nov. 25	101	1824
Paske, Helen W., London, England. Depilatory.	28,124	Apr. 15	99	659
Passino, Franklin G., Memphis, Tenn. Medicines for certain named diseases.	39,438	Dec. 9	101	2282
Patterson, Arthur J., Kalamazoo, Mich. Games.	38,052	Apr. 8	99	438
Pattison, Charles H., New York, N. Y. Modified milk.	38,720	Aug. 5	100	1324
Paxton Company, R., Boston, Mass. Antiseptics for toilet and medicinal purposes.	39,545	July 1	100	226
Peabody & Co., Henry W., New York, N. Y. Wheat-flour.	39,314	Nov. 18	101	1602
Peacock Chemical Co., St. Louis, Mo. Certain named medicine.	39,263	Feb. 25	98	1701
Pearce, Louis H., Buffalo, N. Y. Toilet waters and perfumes.	39,193	Nov. 4	101	1124
Pearce, Myron A., Chicago, Ill. Hair-tonics and dandruff cures.	38,548	July 1	100	226
Pearson Drug Co., Chicago, Ill. Tablets for blood and nervous disorders.	38,804	Aug. 19	100	1757
Peerless Gas Light Co., Chicago, Ill. Incandescent mantles.	39,542	Dec. 23	101	2816
Peninsular Paper Co., Ypsilanti, Mich. Cover and laid writing-paper.	38,097	Apr. 15	99	656
Pere Marquette Coal Company, Saginaw, Mich. Bituminous coal.	38,173	Apr. 22	99	388
Pernes, Daniel, Solingen, Germany. Certain named cutlery.	37,911	Nov. 20	99	1882
Perfect Scrap Book Co., Albany, N. Y. Scrap-books.	38,667	July 29	100	1104
Perfumol Company, Battlereck, Mich. Breath-perfume.	37,960	Mar. 18	98	2357
Perkins, Alfred P., New York, N. Y. Swings and chairs.	37,072	Mar. 18	98	2358
Perkins, Hardy & Co., West Derry, N. H., and Boston, Mass. Boots and shoes.	38,566	July 8	100	444
Perkins, Martin D., Jamestown, N. Y. Blood-tonic.	38,905	Aug. 19	100	1757
Perkins, Robert A., Kountze, Tex. Hair-restoratives.	37,611	Jan. 7	98	320
Pernas, Francis, New York, N. Y. Jewelry.	37,996	Apr. 1	99	219
Perrin, Charles A., Helena, Mont. Liquid remedy for the cure of piles.	38,296	May 20	99	1860
Persoueni, Joseph, New York, N. Y. Tonics and stomach-bitters.	39,141	Oct. 28	101	882
Peter-Bauer Drug Co., Louisville, Ky. Remedy for affections of the nerves.	38,436	June 10	99	2543
Peter-Bauer Drug Co., Louisville, Ky. Remedy in pill and tablet form for certain named diseases.	39,094	Oct. 21	101	656
Peter Kern Company, Knoxville, Tenn. Certain named confectionery.	39,274	Nov. 11	101	1363
Peters Cartridge Co., Cincinnati, Ohio. Certain named ammunition.	38,561	July 1	100	228
Peters Cartridge Co., Cincinnati, Ohio. Certain named ammunition.	38,562	July 1	100	228
Peters Cartridge Co., Cincinnati, Ohio. Certain named ammunition.	38,801	Aug. 19	100	1757
Peters Shoe Company, St. Louis, Mo. Boots and shoes.	38,008	Apr. 1	99	220
Peterson, John H., Crookston, Minn. Natural mineral water and carbonated beverages.	38,474	June 17	99	2763
Petty, John W., Winston, N. C. Stock-food.	38,400	June 3	99	2314
Phalanx Silk Mill, Jersey City, N. J. Woven silk fabric.	38,057	Apr. 8	99	498
Pharus Verlag Gesellschaft mit Beschränkter Haftung, Berlin, Germany. Certain named publications.	39,069	Oct. 21	101	653
Phelps Publishing Company, Springfield, Mass. Periodicals.	38,817	Aug. 19	100	1759
Philadelphica Chemical Co., Philadelphia, Pa. Illuminating-oils.	38,952	Sept. 30	100	3005
Philadelphica Watch-Case Co., Riverside, N. J. Watches, watchcases, and watch-movements.	37,771	Feb. 11	98	1276
Philipp Schilling Brewing Company, Birmingham, Ala. Non-intoxicating beverages.	38,072	Apr. 8	99	440
Phillips, Fanny W., et al., executors. (See Phillips, William H.)				
Phillips, William H., deceased; F. W. Phillips and J. F. Montgomery, Taunton, Mass., executors. Stoves, ranges, heaters, and parts thereof.	39,216	Nov. 4	101	1126
Phoenix Chemical Co., New York, N. Y. Washing compounds.	38,121	Apr. 15	99	659
Phoenix Paint and Varnish Company, Philadelphia, Pa. Paints and enamels.	37,649	Jan. 14	98	412
Piedmont Manufacturing Company, Greenville, S. C. Cotton sheetings and drills.	38,984	Oct. 7	101	210
Pierce, Butler and Pierce Mfg. Co., Syracuse, N. Y. Certain named heating apparatus.	38,701	July 29	100	1108
Pilling & Madeley, Philadelphia, Pa. Hosiery.	37,035	Jan. 18	98	411
Pilling & Madeley, Philadelphia, Pa. Hosiery.	37,777	Feb. 11	98	1276
Pilling & Madeley, Philadelphia, Pa. Hosiery.	38,006	Apr. 1	99	220
Pilling & Madeley, Philadelphia, Pa. Hosiery.	38,402	July 15	100	674
Ping Pong Pool Company, New York, N. Y. Certain named game.	39,548	Dec. 30	101	3099
Pior, Alfred, Brussels, Belgium. Cigars, cigarettes, and smoking-tobacco.	38,428	June 10	99	2542
Piso Company, Warren, Pa. Medicinal tablets for certain named diseases.	39,316	Nov. 25	101	1824
Pitts, Charles C., Brockton, Mass. Match-safes.	38,461	June 17	99	2362
Pittsburgh Reduction Co., Pittsburg, Pa. Aluminium and aluminium alloys.	38,523	June 24	99	2662
Plamondon, Adelaire J., Lowell, Mass. Pills for blood tonic.	38,649	July 22	100	927
Platt, Reginald, Silver City, N. Mex. Ter. Dandruff cure.	38,757	Aug. 12	100	1557
Playano Manufacturing Co., Cambridge, Mass. Automatic playing attachments for musical instruments and parts thereof.	38,443	June 10	99	2543
Pleat, John B., Cleveland, Ohio. Internal remedies for certain named diseases.	38,684	July 8	100	446
Plymouth Rubber Co., Stoughton, Mass. Rubber heels for boots and shoes.	38,568	Mar. 11	99	444
Poke Root and Burdock Medicine Co., Columbus, Ohio. Blood remedy.	37,226	Mar. 11	98	2165
Poonjiajee & Sons, Merwanjee, Bombay, India. Chutney.	38,114	Apr. 15	99	658
Poor, James H., New York, N. Y. Certain named dry goods.	38,102	Apr. 15	99	657
Portable Electric Power & Light Company, Jersey City, N. J. Primary electric cells.	38,695	July 29	100	1107
Porter, Charles W., Lynn, Mass. Women's shoes.	39,049	Oct. 21	101	652
Potter, Alfred R., Philadelphia, Pa. Peanuts.	38,063	Nov. 4	99	439
Potter Drug & Chemical Corporation, Boston, Mass. Resolvent pills.	37,820	Feb. 18	99	1479
Powers Manufacturing Company, Philadelphia, Pa. Medicine for certain named diseases.	38,048	Apr. 1	99	224
Present, David, New York, N. Y. Trousers.	37,778	Feb. 11	98	1276
Presto Manufacturing Company, Ossining, N. Y. Mosquito and fly repellents and insect-extermi-				
nators.	38,359	May 27	99	2096
Price, Theodore H., New York, N. Y. Compound for extracting grease.	38,684	July 29	100	1106
Prize-Painter Stove & Heater Co., Reading, Pa. Fire-pots.	39,215	Nov. 4	101	1126
Prizopazzi Brothers, London, England. Fire-pots.	39,075	Oct. 21	101	654
Prunetta Pharmacal Co., New York, N. Y. Laxative medicines.	38,802	Aug. 19	100	1757

## Alphabetical list of registrants of trade-marks—Continued.

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Puroline Chemical Company, Boston, Mass. Antiseptic detergent disinfectant.	38,761	Aug. 12	100	1558
Quill Art Glass and Decorating Co., New York, N. Y. Certain named glassware	39,129	Oct. 28	101	881
Quinn, Edward J., Washington, D. C. Whisky.	37,817	Feb. 18	98	1478
R. Guastavino Company, Boston, Mass. Tiles and masonry	39,105	Oct. 21	101	657
R. G. Marcy Mfg. Co., Bluffton, Ind. Windmills, pumps, towers, tanks, and cylinders	37,800	Feb. 11	98	1278
Racine Malleable & Wrought Iron Co., Racine, Wis. Certain named hardware articles and metal manufactures.	37,941	Mar. 11	98	2167
Ralston Publishing Company, Washington, D. C. Certain named printed matter and publications.	39,510	Dec. 23	101	2813
Rambo & Regar, Norristown, Pa. Hosiery	39,307	Nov. 18	101	1601
Randall Synthetical Coal Co., Boston, Mass. Artificial fuel	37,822	Feb. 18	98	1479
Ransom & Meade, New York, N. Y. Parlor-tennis	39,512	Dec. 23	101	2813
Rathbun, Charles B., Nutley, N. J. Enameled leather	37,637	Jan. 14	98	411
Raudnitz and Pollitz, New York, N. Y., and Hoboken, N. J. Pocket-books, bags, belts, purses, and fancy leather novelties.	38,191	Apr. 29	99	1164
Raven Gloss Manufacturing Company, New York, N. Y. Shoe and leather dressing	38,885	Sept. 9	100	2378
Raymond & Co., New York, N. Y. Medicinal plasters	38,727	Aug. 5	100	1824
Rea, William D., Minneapolis, Minn. Liquid laxatives	37,929	Mar. 11	98	2166
Real Food Co., Ltd., Battlecreek, Mich. Food preparations from cereals, vegetables, and legumes	38,480	June 10	99	2542
Reddick, William A., Niles, Mich. Animal-traps	39,052	Oct. 14	101	444
Reed, Adam, St. Joseph, Mo. Certain shoes	38,423	June 10	99	2541
Reed & Carrick, Jersey City, N. J. Medicinal preparations having digestive and nutritive properties.	38,922	Sept. 23	100	2769
Reed & Co., C. A., Bath, Me. Toilet powders	39,041	Oct. 14	101	443
Reed, William B., Philadelphia, Pa. Cake-soap, washing-powder, and washing fluid	38,169	Apr. 22	99	858
Reform Club, New York, N. Y. Magazines	38,179	Apr. 29	99	1163
Regent Shirt Co., Chicago, Ill. Shirts, collars, cuffs, and drawers	37,886	Mar. 4	98	1369
Regina Music Co., Rahway, N. J.; New York, N. Y., and St. Louis, Mo. Music-boxes	38,243	May 13	99	1613
Regina Music Box Co., Rahway, N. J.; New York, N. Y., and St. Louis, Mo. Music-boxes	38,244	May 18	99	1613
Reid Brothers, St. Paul, Minn. Certain named clothing	38,832	Aug. 26	100	1968
Reid, Pettis A., Richmond, Ind. Wire fencing	38,044	Apr. 1	99	223
Reilly, Alice G., New York, N. Y. Lotions, cosmetics, and tonics for external application	39,194	Nov. 4	101	1124
Reiss & Brady, New York, N. Y. Figs	39,568	Dec. 30	101	3096
Rendle, Arthur E., New York, N. Y. Skylights	38,941	Sept. 23	100	2770
Reynolds, John, Belmont, N. Y. Certain named linen and cotton goods	37,938	Nov. 18	101	1840
Rezo Remedy Co., Iowa City, Iowa. Certain named toilet articles and preparations.	37,740	Feb. 4	98	1026
Rice, Harry L., Boston, Mass. Leather	38,383	May 27	99	2093
Rice & Hutchins, Inc., Boston, Mass. Certain named boots and shoes and leather.	39,225	Nov. 11	101	1362
Richard, Alfred L., Paris, France. Tonics for certain named diseases	39,025	Oct. 14	101	442
Richards, Edward T., Chicago, Ill. Certain named medical compounds	38,749	Aug. 12	100	1556
Richardson, Alexander M. A., New York, N. Y. Woven-cotton fabrics	38,069	Apr. 15	99	656
Richardson Shoe Company, Menominee, Mich. Shoes	37,988	Mar. 25	98	2582
Ridpath's History Publishing Co., New York, N. Y. Books	38,144	Apr. 23	99	855
Riley & Co., Wm. E., Philadelphia, Pa. Certain named lap-coverings	39,593	Dec. 30	101	3100
Riverside Chemical Company, Paterson, N. J. Hat-cleansing compounds	38,796	Aug. 19	100	1756
Riverside Metal Company, Riverside, N. J. Certain named metal	37,994	Mar. 25	98	2582
Robert Reis & Co., New York, N. Y. Knit underwear and hosiery	38,665	July 29	100	1104
Roberts, Fred H., Boston, Mass. Chocolate candy	38,620	June 17	100	676
Roberts, Johnson & Rand Shoe Co., St. Louis, Mo. Boots and shoes	38,449	June 17	99	2761
Roberts, Johnson & Rand Shoe Co., St. Louis, Mo. Boots and shoes	38,450	June 17	99	2761
Roberts, Johnson & Rand Shoe Co., St. Louis, Mo. Boots and shoes	38,451	June 17	99	2761
Roberts, Sharp S., Monticello, Fla. Chill and fever tonic	38,957	Sept. 30	100	3006
Robertson, Richard A., et al., executors and trustees. (See Calder, Albert L.)	37,964	Mar. 18	98	2357
Robin Hood Powder Company, Swanton, Vt. Certain named ammunition and explosives	37,981	Mar. 25	98	2581
Robins, A. H., Richmond, Va. Tablets for certain named diseases	38,919	Sept. 23	100	2768
Robinson, Bernard N., Coaticook, Canada. Remedies in tablet form for certain named diseases	38,919	Sept. 23	100	2768
Robinson, Frederick A., Hamilton, Bermuda. Certain named fruit and medicinal and food products of such fruit	38,077	Apr. 8	99	440
Roderwald, Otto, Chicago, Ill. Liquid-coolers	38,935	Sept. 23	100	2770
Roessler & Hasslach Chemical Co., New York, N. Y., and Perth Amboy, N. J. Oxid of tin	37,732	Feb. 4	98	1025
Rogers, Moses J., Kansas City, Mo. Babbitt metal	38,043	Apr. 1	99	223
Romero, Benigno, Las Vegas, N. Mex. Ter. Remedy for certain named diseases	37,613	Jan. 7	98	321
Rosenberg & Sons, B., New Orleans, La. Boots and shoes	37,681	Jan. 28	98	785
Rosencrantz, Isidor B., Chicago, Ill. Preparation to destroy moths	38,202	Apr. 29	99	1166
Rosenfeld & Co., E., Baltimore, Md. Bifurcated night-garments	38,186	Apr. 29	99	1164
Rosenthal and Goldberg, Trenton, N. J. Trousers	38,600	July 15	100	674
Rosenzweig & Baumann, Cassel, Germany. Certain named chemical compound	38,552	July 1	100	227
Both & Appel, New York, N. Y. Interior trimmings for ladies' and misses' hats	39,469	Dec. 16	101	2820
Rothberg Co., San Francisco, Cal. Whisky and whisky preparations	38,844	Aug. 26	100	1970
Rothendacher, George E. R., Brooklyn, N. Y. Certain named fuel preparations	39,539	Dec. 23	101	2816
Rothschild & Bro., S., New York, N. Y. Ladies' cloaks and suits	38,373	June 3	99	2312
Rottzell, Frank W., Kansas City, Mo. Umbrellas	39,210	Nov. 4	101	1125
Rousseau, Albert, Bordeaux, France. Certain named anesthetic products	39,397	Dec. 2	101	2070
Rowlinski, Robert A., Savannah, Ga. Liver stimulant and tonic	39,351	Nov. 25	101	1824
Royal Baking Powder Co., Jersey City, N. J. Cream of tartar	37,851	Feb. 25	98	1700
Royal Remedy & Extract Co., Dayton, Ohio. Chewing-gum	39,143	Oct. 28	101	882
Royal Worcester Corset Co., Worcester, Mass. Corsets	37,775	Feb. 11	98	1276
Royal Worcester Corset Co., Worcester, Mass. Corsets	38,502	June 24	99	2958
Royal Worcester Corset Co., Worcester, Mass. Corsets	38,503	June 24	99	2958
Royal Worcester Corset Co., Worcester, Mass. Corsets	39,297	Nov. 18	101	1600
Rudert, Otto, Rock Island, Ill. Chemical preparation for removing superfluous hair	38,613	July 15	100	675
Rusk Metal Co., Portland, Me. White or Babbitt metal	37,940	Mar. 11	98	2167
Russ, Suchard and Company, Neuchâtel, Switzerland. Candies, chocolate, and preparations of chocolate and cocoas.	38,770	Aug. 12	100	1559
Russeger, Bernhard, New York, N. Y. Sensitized photographic papers	37,837	Feb. 25	98	1699
Russeger, Bernhard, New York, N. Y. Sensitized photographic papers	37,917	Mar. 11	98	2164
Russeger, Bernhard, New York, N. Y. Sensitized photographic papers and photographic developers	38,146	Apr. 22	99	855
Russeger, Bernhard, New York, N. Y. Sensitized photographic papers	39,205	Nov. 4	101	1125
Russian-French India Rubber, Guttapercha and Telegraph Works, "Prowodnik, Riga," Riga, Russia. Rubber boots and shoes	38,987	Oct. 7	101	211
Ruy Lopez Ca., New York, N. Y. Cigars, cheroots, cigarros, and cigarettes	37,931	Mar. 11	98	2166
Ryan & McMahon, Boston, Mass. Men's overcoats and suits	39,166	Nov. 4	101	1120
S. Anargyros, New York, N. Y. Cigarettes	37,621	Jan. 7	98	221
S. Anargyros, New York, N. Y. Cigarettes	37,622	Jan. 7	98	221



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S. Anargyros, New York, N. Y. Cigarettes.	37,623	Jan. 7	98	221
S. Anargyros, New York, N. Y. Cigarettes.	37,624	Jan. 7	98	222
S. Anargyros, New York, N. Y. Cigarettes.	37,625	Jan. 7	98	223
S. A. White Co., Boston, Mass. Ink for finishing edges and heels of boots and shoes	37,626	Jan. 7	98	222
S. H. Winstead Medicine Co., Paducah, Ky. Medicinal preparations in liquid and tablet form for cure of certain named diseases	38,690	July 29	100	1106
S. M. Isbell & Co., Jackson, Mich. Certain named food products	38,469	Dec. 16	101	2562
S. P. Shutter Company, Savannah, Ga.; Chicago, Ill.; New York, N. Y., and New Orleans, La. Rosin-oil	38,793	Aug. 5	100	1325
S. S. Pierce Co., Boston, Mass. Floor	38,256	May 13	99	1615
"Saazer Genossenschaftsbrauerei, Reg. Genossenschaft mit Beschränkter Haftung, Saaz," Saaz, Austria-Hungary, Beer	39,436	Dec. 9	101	2279
Sachse, Ernest C., St. Louis, Mo. Composition fire-kinder	38,893	Sept. 9	100	2379
Safety Explosive Company, New York, N. Y. Explosives	37,943	Mar. 11	98	2167
Safety Explosive Company, New York, N. Y. Explosives	38,136	Apr. 15	99	661
Safety Horse Shoe Co., Ocean City, N. J., and Philadelphia, Pa. Horseshoes, horseshoe pads and blanks	39,551	Dec. 23	101	2817
Saginaw Medicine Co., Saginaw, Mich. Tonic and blood-vitalizer	38,197	Apr. 29	99	1165
Sablin Corset Co., Chicago, Ill. Waists	37,774	Feb. 11	98	1276
Salt's Textile Mfg. Co., New York, N. Y. Pile fabrics	39,119	Oct. 28	101	880
Salt's Textile Mfg. Co., New York, N. Y. Pile fabrics	39,120	Oct. 28	101	880
Samstag & Hilder Bros., New York, N. Y. Belts	38,587	Feb. 1	100	324
Samuels, Morton, Baltimore, Md. Boots and shoes	37,779	Feb. 11	98	1277
San Miguel Bros., Bayamon, Porto Rico. Cigars	38,656	July 22	100	928
Sandell Films & Plates, Ltd., London, England. Photographic films and plates	39,213	Nov. 11	101	1362
Sandeman Sons & Co., Geo. G., London, England. Port and sherry wines	38,924	Sept. 23	100	2769
Sandner & Rinn Sisters, Chicago, Ill. Remedial paste for burns, scalds, wounds, and running sores	38,760	Aug. 12	100	1558
Sanford, David C., Bridgeport, Conn. Babbitt, bronze, and brass metals	39,213	Nov. 4	101	1125
Sanford Mfg. Co., Boston, Mass. Heel and sole protectors for boots and shoes	38,157	Apr. 22	99	826
Sanger Bros., Dallas and Waco, Tex. Hats	38,644	July 22	100	926
Sanger Bros., Dallas and Waco, Tex. Hats	38,708	Aug. 5	100	1322
Sanger Bros., Dallas and Waco, Tex. Hats	38,709	Aug. 5	100	1322
Sanger Bros., Dallas and Waco, Tex. Felt hats	38,710	Aug. 5	100	1322
"Sanitas" Company, Limited, New York, N. Y. Golf-balls	39,909	Sept. 23	100	2767
Saranac Glove Co., Littleton, N. H. Gloves and mittens	38,322	May 27	99	1323
Satalia, Peter, Dayton, Ohio. Liniment	38,712	Aug. 5	100	1323
Sauer, Arthur, Zwingenberg, Germany. Condensed milk or milk-preserve	38,355	May 27	99	2096
Savage, Marion W., Minneapolis, Minn. Feed for stock	37,645	Jan. 14	98	412
Savin Ice Pad Company, Camden, N. J., and Philadelphia, Pa. Ice-pads	39,430	Dec. 9	101	2278
Savin Ice Pad Company, Camden, N. J., and Philadelphia, Pa. Ice-pads	39,063	Oct. 21	101	653
Savin Ice Pad Company, Camden, N. J., and Philadelphia, Pa. Ice-pads	39,064	Oct. 21	101	653
Savin Ice Pad Company, Camden, N. J., and Philadelphia, Pa. Ice-pads	39,065	Oct. 21	101	653
Schall & Co., New York, N. Y. Ice-cream and candies	39,098	Oct. 7	101	212
Scheidt Brewing Company, Adam, Norristown, Pa. Ale	38,195	Apr. 29	99	1165
Schieffelin, Wm. J., New York, N. Y. Certain named drugs	38,384	June 8	99	2318
Schirmer, Gustav, Chicago, Ill. Devices for applying medicaments to wounds or orifices	38,853	Aug. 26	100	1971
Schlichten, George W., San Francisco, Cal. Woven and knitted underwear and hosiery	38,978	Oct. 7	101	209
Schmidt, Bernhard L., Davenport, Iowa. Washing-machines	39,555	Dec. 23	101	2818
Schmidt & Co., Ben. J., San Francisco, Cal. Corsetry dress-bindings	38,107	Apr. 15	99	658
Schmidt & Co., E., Baltimore, Md. Ointment or salve	39,006	Oct. 7	101	213
Schmidt, Johann A. B., Bremen, Germany. Bandages	39,114	Oct. 28	101	879
Schmidt, Johann A. B., Bremen, Germany. Bandages	39,115	Oct. 28	101	879
Schmidt, Paul, New York, N. Y. Preparation for the cure of glanders	38,024	Apr. 1	99	221
Schoellkopf, Hartford & Hanna Co., Buffalo, N. Y. Certain named cleansing compositions	39,573	Dec. 30	101	3097
Scholl & Company, Julian, New York, N. Y. Road-scarifiers	39,597	Dec. 16	101	2564
Scholz, Oscar, Newark, N. J. Fumigating compounds	39,014	Oct. 14	101	641
Schott & Gen. Jena, Germany. Lamp-shades	39,207	Nov. 4	101	1125
Schott & Gen. Jena, Germany. Lamp-glasses	39,208	Nov. 4	101	1125
Schott & Gen. Jena, Germany. Glass tubes	35,209	Nov. 4	101	1125
Schumacher Cereal Co., Marseilles, Ill. Barley grits	38,963	Sept. 30	100	3006
Schupp & Son, C. F., Albany, N. Y. Bread	38,816	Aug. 19	100	1759
Schütz, Christian, Vienna, Austria-Hungary. Cigarette-paper and cigarette-tubes	38,599	June 24	99	2360
Schwartz, Schiffer & Company, New York, N. Y. Men's gloves	38,860	Sept. 2	100	2171
Schwarz, Jacob, Mount Pleasant, Pa. Medical composition for external application	37,866	Feb. 25	98	1701
Schwarzchild & Sulzberger Company, Kansas City, Kans.; Chicago, Ill., and New York, N. Y. Certain named packing-house products	38,929	Sept. 23	100	2769
Schwarzchild & Sulzberger Company, Kansas City, Kans.; Chicago, Ill., and New York, N. Y. Certain named packing-house products	38,930	Sept. 23	100	2770
Schwarzchild & Sulzberger Company, Kansas City, Kans.; Chicago, Ill., and New York, N. Y. Certain named packing-house products	38,931	Sept. 23	100	2770
Schwarzchild & Sulzberger Company, Kansas City, Kans.; Chicago, Ill., and New York, N. Y. Certain named packing-house products	38,932	Sept. 23	100	2770
Scott, William H., Reading, Pa. Fire-extinguisher in powder form	38,766	Aug. 12	100	1558
Scott, Winfield, Bellefontaine, Ohio. Remedy for kidney and bladder diseases in capsule form	39,324	Nov. 18	101	1604
Scutt, Augustus B., New Philadelphia, Ohio. Remedy for the blood	38,956	Sept. 30	100	3005
Seaboard Paint Co., New York, N. Y. Paints, varnishes, and cements	37,768	Feb. 4	98	1960
Seaboard Paint Company, New York, N. Y. Paint	37,902	Mar. 27	98	1961
Seacoast Packing Co., Chicago, Ill., and Eastport, Me. Preserved fish	37,808	Feb. 18	98	1477
Seana Mfg. Co., Brooklyn, N. Y. Medicated-cotton toothache cures	37,892	Mar. 4	98	1961
Seelye, Alfred B., Abilene, Kans. Blood, nerve, and kidney remedy	38,587	June 10	99	2543
Seidler, Alex., Newark, N. J. Certain named medicines and medicinal plasters	38,432	July 8	100	445
Semi-Ready Clothing Co., Limited, Montreal, Canada. Coats, vests, and trousers	39,311	Nov. 18	101	1602
Settle, Charles C., New York, N. Y. Internal remedy for certain named diseases	39,354	Nov. 25	101	1625
Shafto, Roland E., Hamilton, N. J. Liniments	38,923	Sept. 23	100	2770
Shaw, James, New York, N. Y. Sauces, ketchups, relishes, pickles, chow-chow, and condiments	37,898	Mar. 4	98	1962
Sheakley, Arthur M., Stockton, Cal. Plaster fiber	38,041	Apr. 1	99	223
Sheboygan Knitting Co., Sheboygan, Wis. Certain named knit goods	39,169	Nov. 4	101	1120
Shenckberg Co., C., Sioux City, Iowa. Canned fruit, berries, and vegetables	39,435	Dec. 9	101	2279
Sheppey, Marshall, Toledo, Ohio. Certain named groceries	38,068	Apr. 8	99	440
Sherman, Anna E., New York, N. Y. Internal remedy for certain named diseases	38,349	May 27	99	2095
Shults, John W., Wichita, Kans. Fattening-food in tablet form	38,431	June 10	99	2543
Shuttleworth & Harris, Detroit, Mich. Cream cheese	39,567	Dec. 30	101	3096
Sidenberg & Co., G., New York, N. Y. Cotton fabrics	38,983	Oct. 7	101	270
Siecke, Frank W., Freeport, Ill. Cider-vinegar	39,173	Nov. 4	101	1111

## Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Siegel-Cooper Co., New York, N. Y. Certain named food products	38,161	Apr. 22	99	887
Siegel-Cooper Co., New York, N. Y. Wines and brandies	38,812	Aug. 10	100	1258
Siegel-Cooper Co., New York, N. Y. Peptonized extract of malt	38,845	Aug. 26	100	1970
Siegenthaler, Harvey N., Springfield, Ohio. Talcum powder	38,739	Aug. 5	100	1325
Siemens & Co., Gebrüder, Charlottenburg, Germany. Certain named carbons	39,059	Oct. 14	101	444
Siemssen & Co., Hamburg, Germany. Cotton fabrics	39,385	Dec. 2	101	2068
Siemssen & Co., Hamburg, Germany. Cotton fabrics	39,386	Dec. 2	101	2068
Siemssen & Co., Hamburg, Germany. Cotton fabrics	39,387	Dec. 2	101	2069
Siemssen & Co., Hamburg, Germany. Cotton fabrics	39,388	Dec. 2	101	2069
Siemssen & Co., Hamburg, Germany. Cotton fabrics	39,389	Dec. 2	101	2069
Silberstein, Albert L., New York, N. Y. Razors, knives, scissors, and shears	38,423	Aug. 19	100	1759
Sills-Eddy Mica Co., New York, N. Y. Varnished electrical insulators	38,833	Dec. 9	101	2280
Silver, Charles A., Boscawen, N. H. Remedies for spavin, ringbones, splints, and curbs	38,762	Aug. 12	100	1558
Silver & Co., Brooklyn and New York, N. Y. Oil-heaters	39,157	Oct. 28	101	883
Silver Mfg. Co., Salem, Ohio. Feed and ensilage cutters	38,175	Apr. 22	99	858
Silver Salt Company, St. Paul, Minn. Manufactured powder for polishing, cleaning, and preserving certain named surfaces	38,953	Sept. 30	100	3005
Simar, Alexandre P., Montreal, Canada. Hair remedy	38,954	Sept. 30	100	3005
Simmons Hardware Company, St. Louis, Mo. Carpet-cleaning implements and appliances	38,139	Apr. 15	99	661
Simms, John R., Linden, Cal. Disinfectants	39,281	Nov. 18	101	1599
Simpson Crawford Co., New York, N. Y. Certain named dry goods	38,185	Apr. 29	99	1164
Singer Manufacturing Co., New York, N. Y. Sewing-machines and sewing-machine attachments and parts thereof	39,108	Oct. 21	101	657
Singer Manufacturing Co., New York, N. Y. Sewing-machines and sewing-machine attachments and parts thereof	39,109	Oct. 21	101	657
Skillman, George R., Baltimore, Md. Bread, pies, cakes, and biscuits	39,077	Oct. 21	101	654
Skinner, Arthur J., Springfield, Mass. Devices for holding shoes while cleaning or polishing the same	38,040	Apr. 1	99	222
Slanner, George N., Detroit, Mich. Salt	38,059	July 22	100	928
Slatington Textile Manufacturing Co., Slatington, Pa. and New York, N. Y. Silks	39,591	Dec. 30	101	3969
Sleight, Raymond D., Maple Rapids, Mich. Medical compound for treatment of obesity	38,285	June 8	99	2313
Sloat, O. W., Patterson, N. Y. Shoes	38,190	Apr. 29	99	1164
Sly, Jeannette, London, England. Corsets	39,223	Nov. 11	101	1362
Small, P. A. & S., York, Pa. Flour	39,083	Oct. 21	101	635
Smith & Co., F. L., Copenhagen, Denmark. Grinding machinery	39,418	Dec. 9	101	2277
Smith, Eugene D., Omaha, Neb. Certain named painters' supplies	39,442	Dec. 9	101	2278
Smith, Harry W., Worcester, Mass. Cloth, cloaking, and leno fabric	38,036	Apr. 8	99	438
Smith, Hugh, Newark, N. J. Patent and enameled leather	37,714	Feb. 4	98	1024
Smith, John F., New York, N. Y. Waterproof polish for boots and shoes	39,042	Oct. 14	101	443
Smith, Kline & French Co., Philadelphia, Pa. Medicine having tonic and laxative properties	39,091	Oct. 21	101	656
Smith, Kline & French Co., Philadelphia, Pa. Medicine for diseases of the nervous system	39,522	Dec. 23	101	2814
Smith & Revell, Windsor, Canada, and Chicago, Ill. Water-filters	38,091	Apr. 8	99	441
Smith, Robert H., Los Angeles, Cal. Complexion compounds in tablet, soap, and powder form	38,581	July 8	100	445
Smith, William J., New York, N. Y. Collar-buttons	38,703	Aug. 5	100	1322
Smith, Worthington & Co., New York, N. Y. Bits, stirrups, spurs, and buckles	38,446	June 10	99	2544
Smithers, John H., St. Louis, Mo. Cleaning fluids and compounds in concentrated form	37,962	Mar. 18	98	2357
Snyder & Co., G. P., Philadelphia, Pa., and Atlantic City, N. J. Leather boots and shoes	39,516	Dec. 23	101	2813
Société Anonyme des Produits Chimiques Spéciaux, Lyons, France. Antiseptics	38,299	May 20	99	1860
Solar Prism Co., Cleveland, Ohio. Glass tiles	38,242	May 13	99	1613
Solinger & Co., J., Providence, R. I. Gold-plated and cheap grades of jewelry	37,770	Feb. 11	98	1276
Somers & Co., J. C., Statesville, N. C. Whisky	39,571	Dec. 30	101	3007
Southern Cement Company, Birmingham, Ala. Hydraulic cement	39,048	Oct. 14	101	444
Southern Cement Company, Birmingham, Ala. Hydraulic cement	39,099	Oct. 21	101	656
Southern Coffee Company, Galveston, Tex. Coffees	38,966	Sept. 30	100	3007
Southern Coffee Company, Galveston, Tex. Coffees	39,084	Oct. 21	101	655
Southern Cotton Oil Co., Jersey City, N. J.; Savannah, Ga., and Gretna, La. Lard compound	38,065	Apr. 8	99	439
Southern Cotton Oil Co., Jersey City, N. J.; Savannah, Ga., and Gretna, La. Lard compound	38,066	Apr. 8	99	439
Southern Cotton Oil Co., Jersey City, N. J.; Savannah, Ga., and Gretna, La. Cotton-seed meal and cake	39,186	Nov. 4	101	1123
Southern Cotton Oil Co., Jersey City, N. J.; Savannah, Ga., and Gretna, La. Cotton-seed meal and cake	39,187	Nov. 4	101	1123
Southern Cotton Oil Co., Jersey City, N. J.; Savannah, Ga., and Gretna, La. Cotton-seed meal and cake	39,188	Nov. 4	101	1123
Southern Cotton Oil Co., Jersey City, N. J.; Savannah, Ga., and Gretna, La. Cotton-seed meal and cake	39,189	Nov. 4	101	1123
Southern Cotton Oil Co., Jersey City, N. J.; Savannah, Ga., and Gretna, La. Cotton-seed oils	39,433	Dec. 9	101	2278
Southern Cotton Oil Co., Jersey City, N. J.; Savannah, Ga., and Gretna, La. Cotton-seed oils	39,434	Dec. 9	101	2279
Southern Cotton Oil Co., Jersey City, N. J.; Savannah, Ga., and Gretna, La. Cotton-seed oils	39,496	Dec. 16	101	2563
Southern Cotton Oil Co., Jersey City, N. J.; Savannah, Ga., and Gretna, La. Cotton-seed oils	39,497	Dec. 16	101	2563
Sprague & Beale, New York, N. Y. Remedy felt	39,229	Nov. 11	101	1383
Sperry & Henry, Pittsburg, Pa. Remedy for certain named diseases	38,889	Sept. 9	100	2278
Sprague, Austin V. M., New York, N. Y. Certain named medical compounds	38,585	July 8	100	446
Sprague & Co., J. A., Columbus, Ohio. Tooth-filling	39,509	Dec. 23	101	2813
Sprague, Warner & Company, Chicago, Ill. Certain named groceries	38,069	Apr. 8	99	440
Sprague, Warner & Company, Chicago, Ill. Certain named groceries	38,070	Apr. 8	99	440
Sprague, Warner & Company, Chicago, Ill. Certain named groceries	38,071	Apr. 8	99	440
Sprague, Warner & Company, Chicago, Ill. Certain named groceries	38,539	July 1	100	228
Springlock Spring Bed Co., Newburgh, N. Y. Furniture spring-work	37,881	Feb. 25	98	1702
Springli, E., a Firm, Zurich, Switzerland. Cigars, cheroots, and cigarettes	38,253	May 13	99	1614
St. Charles Condensing Co., St. Charles, Ill. Certain named creamery products	39,451	Dec. 9	101	2280
St. Charles Condensing Company, St. Charles, Ill. Certain named creamery products	39,178	Nov. 4	101	1121
Stadlinger, Charles H., Buffalo, N. Y. Dentifrice	38,435	June 10	99	2543
Staedtler, J. S., Nuremberg, Germany. Certain named stationery	38,525	July 1	100	224
Staley, Augustus E., Baltimore, Md. Starch for food purposes	39,146	Oct. 28	101	825
Standard Bottling & Extract Co., Boston, Mass. Ginger-ale	38,810	Aug. 19	100	1758
Standard Chain Company, Pittsburg, Pa. Chains	39,160	Oct. 28	101	884
Standard Clothing Co., Boston, Mass. Coats, trousers, and waistcoats	37,654	Jan. 21	98	577
Standard Paint Company, New York, N. Y. Certain named covering and protective materials	38,947	Sept. 30	100	3004
Standard Pure Water Co., New York, N. Y. Certain named beverages	39,282	Nov. 18	101	1599
Standard Table Oil Cloth Company, Jersey City, N. J. Decorative wall-coverings	39,124	Oct. 28	101	889
Standard Table Oil Cloth Company, Jersey City, N. J., and New York, N. Y. Certain named oil-cloths	39,235	Nov. 18	101	1600
Standard Varnish Works, New York, N. Y. Varnishes, wood-fillers, wood-stains, and paints	38,172	Apr. 22	99	858
Standard Varnish Works, New York, N. Y. Paints and certain named painters' supplies	38,734	Aug. 5	100	1325
Standard Varnish Works, New York, N. Y. Certain named paints and painters' supplies	39,287	Nov. 18	101	1599



## Alphabetical list of registrants of trade-marks—Continued.

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Standard Varnish Works, New York, N. Y. Certain named paints and painters' supplies.	39,319	Nov. 18	101	1903
Stanley Rule & Level Co., New Britain, Conn. Carpenters' tools and appliances.	38,415	June 3	99	2316
Staples & Hanford Co., Newburgh, N. Y. Furniture springwork.	37,880	Feb. 25	98	1742
Star Lotion Remedy Co., St. Louis, Mo. Liquid topical remedies.	39,023	Oct. 14	101	442
Star Milk Cooler Company, Haddonfield, N. J. Certain named dairy goods.	38,516	June 24	99	2960
Star Slate Company, Easton, Pa. Roofing-slate.	38,372	May 27	99	2548
Star Stock Food Company, Essex, Iowa. Farinaceous compositions for feeding stock.	39,381	Dec. 2	101	2368
Stark Bro's Nurseries & Orchards Co., Louisiana, Mo. Apples, apple-trees, scions, cuttings, grafts, roots, and stocks.	38,556	July 1	100	227
Stark Bro's Nurseries & Orchards Co., Louisiana, Mo. Apples, apple-trees, scions, cuttings, grafts, roots, and stocks.	38,635	July 15	100	678
Static Carbonating Company, New York, N. Y. Certain named carbonated beverages.	38,969	Sept. 30	100	3407
Static Carbonating Company, New York, N. Y. Carbonating apparatus and appliances.	38,970	Sept. 30	100	3407
Steele, Everard, Mill Valley, Cal. Explosives.	38,563	July 1	100	228
Steiner, Edmund U., New York, N. Y. Dolls.	38,704	Aug. 5	100	1322
Steiner, Edmund U., New York, N. Y. Dolls.	38,705	Aug. 5	100	1322
Steinhardt & Bro., A., New York, N. Y. Hose-supporters.	37,844	Feb. 25	99	1794
Steinmetz, William F., Philadelphia, Pa. Insect-powder.	38,623	Apr. 1	99	231
Steinmetz, William F., Philadelphia, Pa. Insect-powders.	38,731	Aug. 5	100	1325
Steinwender-Stoffregen Coffee Company, St. Louis, Mo. Coffee, tea, and spices.	38,037	Apr. 1	99	223
Stern & Heller, Cleveland, Ohio. Certain named chemical compounds.	37,735	Feb. 4	98	1025
Stevens, Benjamin A., Toledo, Ohio. Billiard-cloth.	38,943	Sept. 30	100	3404
Stevens Bros., C. E., Baltimore, Md. Paper bags.	39,230	Nov. 11	101	1363
Stevens, Edward, Washington, D. C. Proprietary medicines for certain named diseases.	38,443	June 10	99	2543
Steward, Demetrius M., Chattanooga, Tenn., and New York, N. Y. Insulating material.	38,554	Dec. 16	101	2563
Steward, Demetrius M., Chattanooga, Tenn., and New York, N. Y. Gas-burners.	38,828	Aug. 19	100	1760
Still, Allen H., New York, N. Y. Tonic, antiperiodic, and antipyretic preparation.	37,860	Feb. 25	98	1701
Still, Allen H., New York, N. Y. Sedative compound.	37,927	Mar. 11	98	2165
Still, Allen H., New York, N. Y. Laxative and diuretic compound.	37,928	Mar. 11	98	2165
Still, Allen H., New York, N. Y. Alternative compound.	38,129	Apr. 15	99	690
Stillwell Light Company, Camden, N. J., and Philadelphia, Pa. Incandescent mantles for gas or vapor burners.	37,799	Feb. 11	98	1273
Stillwell Light Company, Camden, N. J., and Philadelphia, Pa. Incandescent mantles for gas or vapor burners.	37,913	Mar. 4	98	1111
Stinson & Co., E. E., Buffalo, N. Y. Shoe and stove polish.	38,486	June 17	99	2765
Stoddard, Volcott C., Denver, Colo. Remedy for piles and other rectal diseases.	38,754	Aug. 12	100	1537
Story & Co., Nelson, Bozeman, Mont. Flour.	38,960	Sept. 30	100	3406
Story & Co., Nelson, Bozeman, Mont. Soap.	38,961	Sept. 30	100	3406
Strasburger, Myer, Washington, D. C. Powders for the relief of the feet.	38,896	Sept. 16	100	2598
Strauss Bros. & Co., New York, N. Y. Harmonicas.	38,311	May 20	99	1826
Strauss-Cahn Knitting Co., Chicago, Ill. Hosiery, sweaters, jerseys, gloves, mittens, and caps.	38,379	June 3	99	2312
Strobel & Wilken Co., New York, N. Y. Dolls.	38,373	June 3	99	2312
Strong, Lee & Co., Detroit, Mich. Wrappers, waists, skirts, and muslin underwear.	39,222	Nov. 11	101	1362
Strouse, Adler & Co., New Haven, Conn. Corsets.	38,043	Apr. 1	99	219
Strouse, Adler & Co., New Haven, Conn. Corsets.	38,257	May 13	99	1812
Strube, Carl H., Sandusky, Ohio. Alcoholic bitters.	39,349	Nov. 25	101	1824
Suarez & Co., Garcia, Manzanillo, Cuba. Certain named leather goods, trimmings, and hardware.	38,877	Sept. 9	100	2377
Suffern, Edward L., New York, N. Y. Shirts, sheetings, and drills.	38,106	Apr. 15	99	657
Suffern, Edward L., New York, N. Y. Cotton textiles, including shirts and sheetings.	38,225	May 13	99	1610
Suffern, Edward L., New York, N. Y. Shirts, sheetings, and drills.	38,420	June 10	99	2541
Suffern, Edward L., New York, N. Y. Shirts, sheetings, and drills.	38,507	June 24	99	2659
Summit Thread Company, East Hampton, Conn. Cotton threads or yarns.	38,995	Oct. 7	101	210
Sumner & Goodwin Company, Boston, Mass. Certain named sanitary appliances.	37,827	Feb. 18	98	1479
Sun Vapor Street Light Co., Canton, Ohio. Hydrocarbon-vapor lamps.	38,857	Aug. 26	100	1971
Sunbeam Inc. Lamp Co., New York, N. Y. Incandescent electric lamps.	38,782	Aug. 12	100	1560
Superior Manufacturing Company, Chicago, Ill. School-desks, school-seats, and opera-chairs.	38,777	Aug. 12	100	1559
Sweetser, Arthur L., Boston, Mass. Antiseptic waterproof sheetings, diapers, and waterproof undergarments.	39,227	Nov. 11	101	1363
Swift and Company, Chicago, Ill. Certain named packing-house products.	38,396	June 3	99	2314
Swift and Company, Chicago, Ill. Certain named packing-house products.	38,397	June 3	99	2314
Swift and Company, Chicago, Ill. Certain named packing-house products.	38,398	June 3	99	2314
Swift and Company, Chicago, Ill. Certain named packing-house products.	38,399	June 3	99	2314
Swift and Company, Chicago, Ill. Certain named packing-house products.	38,480	June 17	99	2764
Swift and Company, Chicago, Ill. Certain named packing-house products.	38,538	July 1	100	225
Swift and Company, Chicago, Ill. Eggs.	39,379	July 8	101	455
Swift and Company, Chicago, Ill. Feathers and feather products.	39,123	Oct. 28	101	80
Swift Specific Co., Atlanta, Ga. Medicine for certain named diseases.	39,578	Dec. 30	101	3168
Syndicate Trading Co., New York, N. Y. Boots and shoes.	37,950	Mar. 18	98	2356
T. A. Chemical Co., Dayton, Ohio. Medicinal preparations for asthma, catarrh, and hay-fever.	38,080	Apr. 1	99	222
T. A. Snider Preserve Company Cincinnati, Ohio. Tomato-soup, catchup, and chilli-sauce.	39,045	Oct. 14	101	443
Tar-Ben Medicine Co., Newark, N. J. Cough medicines.	37,861	Feb. 25	98	1201
Tarr, Robert C., Philadelphia, R. I. Poison for the extermination of insects and animals.	38,854	Aug. 26	100	1984
Tassey, John C., Sherman, Tex. Preparation of oil for cooking purposes.	39,239	Nov. 11	101	1364
Tassey, John C., Sherman, Tex. Cotton-seed oil.	39,239	Nov. 11	101	1364
Tassey, John C., Sherman, Tex. Cooking fats.	39,192	Dec. 16	101	2562
Taylor, Walter M., Toronto, Canada. Incandescent mantles.	38,088	Apr. 8	99	411
Tea Tray Company of Newark, N. J., Newark, N. J. Chemical fire-extinguishers.	38,972	Sept. 30	100	3408
Temple Confection Company, Philadelphia, Pa. Stick-candy.	39,235	Nov. 11	101	1860
Tenny, Lewis C., Cleveland, Ohio. Paints and roofing-paints.	38,692	July 29	100	1107
Tetlow Manufacturing Company, Philadelphia, Pa. Face-powders.	39,595	Dec. 30	101	3100
Texas Portland Cement & Lime Co., Galveston, Tex. Portland cement.	38,634	July 15	100	679
Thatcher, Thomas, Deptford, England. Preservative, disinfectant, and tanning or tawing compounds.	38,487	June 17	99	2765
Thatcher, Thomas, Deptford, England. Preservative, disinfectant, and tanning or tawing compounds.	38,488	June 17	99	2765
Thies A. Kuehs Company, Chicago, Ill. Cosmetics, hair-oils, hair-tonics, and hair-dyes.	38,493	June 10	99	2542
Thies A. Kuehs Company, Chicago, Ill. Certain named toilet preparations.	38,493	June 10	99	2543
Thomas, Onésime, Paris, France. Needles for vaccinating animals.	38,464	June 17	99	2762
Thompson & Co., Richard, New York, N. Y. Steam-engine indicators.	38,223	May 6	99	1380
Thompson Iron Works, Philadelphia, Pa. Range-boilers and hot-water generators.	38,786	Aug. 12	100	1561
Thompson, William B., Butte, Mont. Remedies for coughs and colds.	37,642	Jan. 11	98	111
Tilt Laboratory, Inc., Carol Bernard Nachfolger, Leipzig, Germany. Mouth-wash.	39,453	Dec. 30	101	3281
Tissall, Joseph H., Philadelphia, Pa. Writing fluids and inks.	37,732	Feb. 4	98	1028
Tobey Furniture Co., Chicago, Ill. Furniture and interior woodwork.	39,412	Dec. 2	101	2571
Tobin & Hicks, West Winfield, N. Y. Shoes.	38,000	Apr. 1	99	220

*Alphabetical list of registrants of trade-marks—Continued.*

Name, residence, and title.	No.	Date.	Official Gazette.	
			Vol.	Page.
Toch Brothers, New York, N. Y. Waterproofing compound	39,243	Nov. 11	101	1864
Toledo Builders' Supply Co., Toledo, Ohio. Lime, plaster, and cement	38,365	May 27	99	2097
Tomblin, Bryan E., Cordova, Mexico. Green coffee	38,655	July 22	100	927
Toussaint, Andrew J., New York, N. Y. General tonic	39,026	Oct. 14	101	442
Toussaint, Andrew J., New York, N. Y. Wheat-flour	39,081	Oct. 21	101	654
Toussaint & Co., A., Quebec, Canada. Medicinal wine	39,402	Dec. 2	101	2070
Towle Syrup Company, St. Paul, Minn. Table syrup and molasses	37,683	July 29	100	1106
Towler, Thomas R., South Woodford, England. Bookbindings	38,454	June 17	99	2761
Townsend, David C., New York, N. Y. Diamonds	39,508	Dec. 23	101	2813
Townsend Grace Co. of Baltimore City, Baltimore, Md. Straw hats	39,308	Nov. 18	101	1801
Transparent Cellulose Products Company, Newark, N. J. Collapsible tubes, vials, boxes, vaccination-shields, and wrapping-sheets	38,510	June 24	99	2960
Travers Bros. Co., New York, N. Y. Cordage	39,125	Oct. 28	101	880
Treanor, James, New York, N. Y. Remedial inhalant	39,201	Nov. 4	101	1124
Trent, Simeon V., Salt Lake City, Utah. Ore-crushing mills	38,559	July 1	100	227
Triner, Joseph, Chicago, Ill. Tonic	37,750	Feb. 4	98	1027
Trostel & Sons, Albert, Milwaukee, Wis. Leather for shoes, harness, and gloves	39,228	Nov. 11	101	1363
Trowbridge Chocolate Cup Co., Middletown, Pa. Certain named confectionery	39,426	Dec. 9	101	2278
Trowbridge, William S., Meadville, Pa. Chocolate-covered molasses chips	38,579	July 8	100	1461
Troy Chemical Co., Troy, N. Y. Spavin cure	37,895	Mar. 4	98	1965
Trybita Food Company, Limited, Battlecreek, Mich. Cereal foods	39,080	Oct. 21	101	654
"Trybol" Actienges. f. Fabrik u. Vertrieb hyg.-med. Präparate Schaffhausen, Schaffhausen, Switzerland. Certain named toilet preparation	37,958	Mar. 18	98	2357
Tubular Rivet & Stud Co., Boston, Mass. Tubular and pronged rivets	38,557	July 1	100	627
Turn Bull, Florence E., New York, N. Y. Certain named medical compounds and preparations	38,610	July 15	100	1027
Tuttle Shoe Co., New York, N. Y. Shoes	39,013	Oct. 14	101	441
20th Century Mfg. Co., New York, N. Y. Portable electric and oil lamps and lanterns	38,696	July 29	100	1107
Tyer Rubber Co., Andover, Mass. Syringes	37,665	Jan. 21	98	578
Typewriter Cushion Key Co., Newark, N. J. Type-writer ribbons, carbon-papers, stamp-ribbons, and type-writer oil	37,671	Jan. 28	98	784
Typewriter Cushion Key Co., Newark, N. J. Certain named type-writing supplies	37,767	Feb. 4	98	1027
Uberta, Francisco E., New York, N. Y. Breads, cakes, and confections	38,076	Apr. 8	99	440
Ullman Co., Signum, New York, N. Y. Printing-inks	38,689	July 29	100	1106
Ullrich & Co., J., New York, N. Y. Stylographic and fountain pens	38,241	May 13	99	1613
Ullrich & Co., J., New York, N. Y. Stylographic and fountain pens	38,872	Sept. 9	100	2377
Union Collar Company, Troy, N. Y. Collars and cuffs	38,004	Apr. 1	99	219
Union Collar Company, Troy, N. Y. Collars and cuffs	38,005	Apr. 1	99	219
United Shirt Vest Co., Chicago, Ill. Shirt-vests	38,861	Sept. 3	100	2171
United States Brewing Company of Chicago, Chicago, Ill. Beer	37,619	Jan. 7	98	321
United States Gasoline Engine Co., Chicago, Ill. Gas-engines	38,637	July 15	100	678
United States Plantose Company, Limited, Saginaw, Mich. Vegetable albumens in dry or liquid form	38,551	July 1	100	227
United States Watch Co., Riverside, N. J., and Waltham, Mass. Watches, watchcases, and watch-movements	37,836	Feb. 25	98	1699
United Tailphage Company, New York, N. Y. Certain named tailphers	39,049	Oct. 14	101	444
United Workmen's Boot and Shoe Company, San Francisco, Cal. Boots and shoes	38,567	July 8	100	444
Universal Paint-Solvent Company, San Francisco, Cal. Certain named painters' supplies	38,386	Sept. 23	100	2770
Universal Talking Machine Co., New York, N. Y. Talking-machines	38,089	Apr. 8	99	441
Universal Tobacco Company, New York, N. Y. Cigarettes, cigars, and smoking and chewing tobacco	37,719	Feb. 4	98	1024
Universal Tobacco Company, New York, N. Y. Cigarettes, cigars, and smoking and chewing tobacco	37,720	Feb. 4	98	1024
Universal Tobacco Coy., New York, N. Y. Cigarettes, cigars, and smoking and chewing tobacco	37,721	Feb. 4	98	1024
Upmann, Carl, New York, N. Y. Little cigars and cigarettes	39,306	Nov. 18	101	1601
Upmann, Carl, New York, N. Y. Little cigars and cigarettes	38,674	July 29	100	1105
Upmann, Carl, New York, N. Y. Little cigars and cigarettes	38,675	July 29	100	1105
Upmann & Wilcox, Chicago, Ill. Cigars, smoking and chewing tobacco, and snuff	38,520	June 24	99	2961
Vescher, E., Hamburg, Germany. Conserving compound	38,689	July 29	100	1106
V. C. & C. V. King Co., New York, N. Y. Cement	39,576	Dec. 30	101	3098
V. C. & C. V. King Co., New York, N. Y. Certain named adhesive compounds	39,608	Dec. 30	101	3101
Vail Brothers, Philadelphia, Pa. Preparations for curing certain named affections of the body	39,456	Dec. 9	101	2281
Valentine & Bentley Silk Co., Newton, N. J. Silk piece goods, silk ribbons, and silk sashes	38,377	June 3	99	2312
Valentin & Schwarz, Leipsic-Plagwitz, Germany. Remedy for wounds, burns, and other injuries to the skin	37,612	Jan. 7	98	220
Valentin & Schwarz, Leipsic-Plagwitz, Germany. Remedy for pulmonary consumption and inflammation of the lungs	39,032	Oct. 14	101	442
Valier & Spies Milling Co., Marine, Ill. Wheat-flour	37,727	Feb. 4	98	1023
Valk & Bro., S. J., New York, N. Y. Certain named grocers' sundries	38,475	June 17	99	2763
Vallet-Rogez, François P., Roubaix, France. Combustible agglomerations for use as fuel	37,628	Jan. 7	98	222
Valley Chemical Co., Danbury, Conn. Tonic	39,196	Nov. 4	101	1124
Valley Oil Co., New York, N. Y., and Liverpool, England. Boiler fluids for prevention of scale	38,660	July 22	100	928
Valvoline Oil Company, Edgewater, N. J., and New York, N. Y. Lubricating-oils	37,754	Feb. 4	98	1027
Van Raalte, Frances E., London, England. Smoking-tobacco, chewing-tobacco, cigars, cheroots, cigarettes, and snuff	38,580	July 8	100	445
Vandenbroeck & Cie., Brussels, Belgium. Absorbent wadding	37,963	Mar. 18	98	2357
Vandergrift Mfg. Co., Jamestown, N. Y. Hand washing-machines	37,878	Feb. 25	98	1702
Varco, Limited, London, England. Medicinal preparation for cure of varicose veins	39,019	Oct. 14	101	441
Varco & Sons, Wilman, Stoke-upon-Trent, England. Certain named paper-stock	39,127	Oct. 28	101	880
Vary, Clarence G., Battlecreek, Mich. Cereal food	37,911	Feb. 18	98	1478
Vereinigte Chemische Werke Aktiengesellschaft, Charlottenburg, Germany. Arsenic compounds	38,879	Sept. 9	100	2373
Vereinigte Chinnfabriken Zimmer & Co., Ges. mit Beschränkter Haftung, Frankfurt-on-the-Main, Germany. Quinate of lithium	37,664	Jan. 21	98	578
Vereinigte Chinnfabriken Zimmer & Co., Ges. mit Beschränkter Haftung, Frankfurt-on-the-Main, Germany. Salicylates of some rare earths	38,167	Apr. 22	99	857
Vereinigte Chinnfabriken, Zimmer & Co., Ges. mit Beschränkter Haftung, Frankfurt-on-the-Main, Germany. Cotoin compound	39,523	Dec. 23	101	2814
Vereinigte Chinnfabriken Zimmer & Co., Ges. mit Beschränkter Haftung, Frankfurt-on-the-Main, Germany. Derivatives of vanillin and phenetidin	39,577	Dec. 30	101	3098
Victor O. Mills Co., Wilmington, Del., and Chicago, Ill. Hooks and eyes	38,189	Apr. 29	99	1164
Victor O. Mills Co., Wilmington, Del., and Chicago, Ill. Hooks and eyes	38,605	July 15	100	675
Victor V. May and Company, Chicago, Ill. Remedy for consumption	39,083	Oct. 15	101	835
Viedt, Louis, Buffalo, N. Y. Carriage-ropes	39,300	Nov. 18	101	1601
Virgilia Mfg. Co., New York, N. Y. Certain named toilet preparations	38,247	May 13	99	1613
Virol, Limited, London, England. Red bone, marrow, and malt extract	37,976	Mar. 25	98	2551



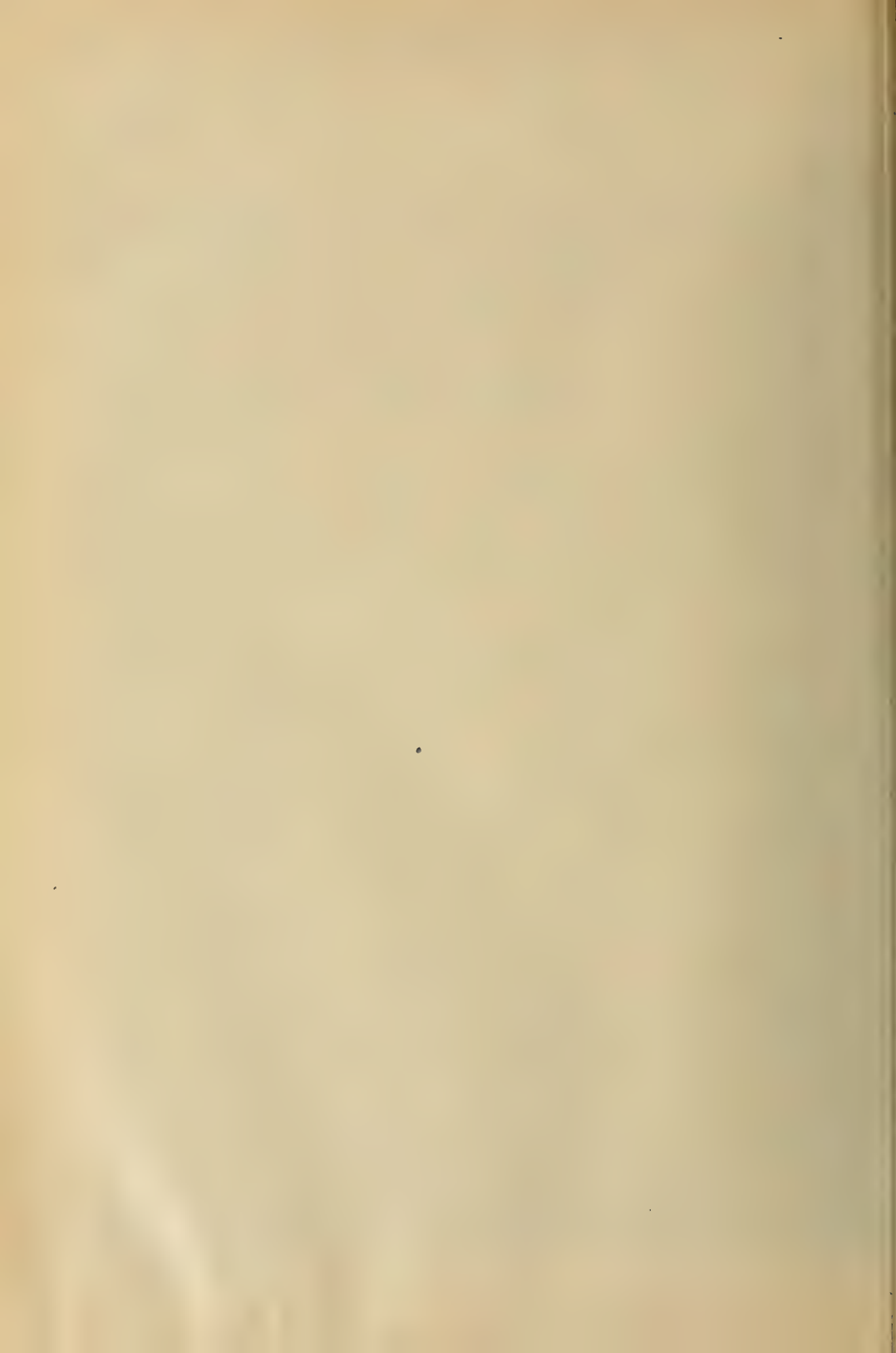
## Alphabetical list of registrants of trade-marks—Continued.

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Vischer & Co., A., New York, N. Y. Mouth-harmonicas.	38,640	July 22	100	926
Vlasto, Demetrius J., New York, N. Y. Cigarettes	38,119	Apr. 15	99	659
Voegel Bros. Drug Co., Minneapolis, Minn. Liquid antiseptic or antizymotic wash	39,452	Dec. 9	101	2380
Vogue Company, New York, N. Y. Paper patterns of apparel	39,218	Nov. 11	101	1302
Voss Brothers Manufacturing Company, Davenport, Iowa. Washing-machines	37,669	Jan. 21	98	378
W. D. King & Co., Minneapolis, Minn. Remedy for the cure of certain named diseases	39,453	Dec. 9	101	2381
W. H. Gannett, Publisher, Augusta, Me. Periodical	38,050	Apr. 8	99	438
W. J. Dyer & Bro., St. Paul, Minn. Pianos	39,261	Nov. 11	101	1366
Wagner, Günther, Hanover, Germany. Artists' materials and stationery	38,145	Apr. 22	99	855
Wagoner, Henry V., New York, N. Y. Writing-paper and envelopes	38,608	July 15	100	675
Wahl Food Co., St. Louis, Mo. Certain named prepared food	38,092	Oct. 7	101	211
Wainwright, August T., Algiers, La. Remedies for certain named diseases	38,339	June 3	99	2313
Wales Island Packing Co., New York, N. Y. Canned salmon	39,072	Oct. 21	101	653
Walker, Johnson L., Newburyport, Mass. Women's leather shoes	39,322	Nov. 18	101	1603
Walker & Whitman, Campello, Mass. Boots and shoes	38,295	May 20	99	1860
Walkley, Albert, Marblehead, Mass. Magazines	39,511	Dec. 23	101	2813
Wall, Frank J. A., Kansas City, Mo. Liquid rheumatic cure	38,803	Aug. 19	100	1757
Walsh, Arthur Q., New York, N. Y. Cigarettes	38,347	May 27	99	2025
Walter Baker & Co., Ltd., Boston, Mass. Chocolate, broma, and cocoa preparations	37,032	Mar. 11	98	2169
Walworth Manufacturing Company, Boston, Mass. Certain named steam, water, and gas fittings	38,894	Sept. 9	100	2380
Wampole & Co., Henry K., Philadelphia, Pa. Medicinal and chemical preparations for prevention and cure of diseases	39,521	Dec. 23	101	2814
Ward, Frank W., Memphis, Tenn. Cod-liver oil	37,792	Feb. 11	98	1278
Ward, Hanbury & Co., London, England. Cotton fabrics	38,011	Apr. 1	99	229
Ward, Hanbury & Co., London, England. Cotton fabrics	38,236	May 13	99	1610
Ward, Hanbury & Co., London, England. Cotton fabrics	38,227	May 13	99	1610
Ward, Hanbury & Co., London, England. Cotton fabrics	38,228	May 13	99	1610
Ward, Hanbury & Co., London, England. Cotton fabrics	38,229	May 13	99	1611
Ward, Hanbury & Co., London, England. Cotton fabrics	38,230	May 13	99	1611
Ward, Hanbury & Co., London, England. Cotton fabrics	38,231	May 13	99	1611
Ward, Hanbury & Co., London, England. Cotton fabrics	38,232	May 13	99	1611
Ward, Hanbury & Co., London, England. Cotton fabrics	38,233	May 13	99	1611
Ward, Hanbury & Co., London, England. Cotton fabrics	38,234	May 13	99	1611
Ward, Hanbury & Co., London, England. Cotton fabrics	38,235	May 13	99	1611
Ward-Mackey Co., Pittsburg, Pa. Prepared flours, bread, crackers, and biscuits	38,897	Sept. 16	100	2598
Ward, Samuel H., Nottingham, England. Remedy for feverish disorders	38,387	June 3	99	2313
Ward & Stickle, Fort Plain, N. Y. Candy	39,336	Nov. 25	101	1823
Warder, Bushnell & Glessner Company, Springfield, Ohio, and Chicago, Ill. Certain named agricultural implements	39,011	Oct. 7	101	214
Warder, Bushnell & Glessner Company, Springfield, Ohio, and Chicago, Ill. Certain named agricultural implements	39,012	Oct. 7	101	214
Ware Mfg. Co., Camden, N. J. Suspensory bandages	37,685	Jan. 28	98	786
Warfield Pratt Howell Co., Des Moines, Iowa. Canned fancy sugar-corn	38,625	July 15	100	677
Warfield-Pratt-Howell Co., Des Moines, Sioux City, and Cedar Rapids, Iowa. Cigars, cigarettes, chewing and smoking tobacco, and snuff	39,172	Nov. 4	101	1121
Warfield-Pratt-Howell Co., Des Moines, Sioux City, and Cedar Rapids, Iowa. Blank paper, toilet-paper, envelopes, and paper bags	39,217	Nov. 11	101	1362
Warfield-Pratt-Howell Co., Des Moines, Sioux City, and Cedar Rapids, Iowa. Canned fruits, vegetables, and soups	39,236	Nov. 11	101	1364
Warfield-Pratt-Howell Co., Des Moines, Sioux City, and Cedar Rapids, Iowa. Certain named food products	39,315	Nov. 18	101	1602
Waring, Vehten, New York, N. Y. Pictures	37,839	Feb. 25	98	1699
Warren, Andrew, Columbiaville, Mich. Remedy for diseases of the stomach and kidneys	39,004	Oct. 7	101	213
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	37,965	Mar. 18	98	2358
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	37,966	Mar. 18	98	2358
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	37,967	Mar. 18	98	2358
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	37,968	Mar. 18	98	2358
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	37,969	Mar. 18	98	2358
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	37,970	Mar. 18	98	2358
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	37,971	Mar. 18	98	2358
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	38,266	May 13	99	1616
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	38,267	May 13	99	1616
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	38,268	May 13	99	1616
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	38,269	May 13	99	1616
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	38,270	May 13	99	1616
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	38,271	May 13	99	1616
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	38,272	May 13	99	1617
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	38,273	May 13	99	1617
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	38,274	May 13	99	1617
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	38,275	May 13	99	1617
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	38,276	May 13	99	1617
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	38,277	May 13	99	1617
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	38,278	May 13	99	1617
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	38,279	May 13	99	1617
Warren Brothers Company, Boston, Mass. Domestic disinfectants	38,361	May 27	99	2096
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	38,362	May 27	99	2097
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	38,363	May 27	99	2097
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	38,411	June 3	99	2316
Warren Brothers Company, Boston, Mass. Bituminous composition or cement	38,093	July 29	100	1107
Warren, Edwin A., St. Paul, Minn. Soaps and oils for treating and softening leather, hides, and hair	38,019	Apr. 1	99	221
Warren Featherbone Co., Threosaks, Mich. Stiffening material	39,395	Dec. 2	101	2070
Warvel, Joseph C., Toledo, Ohio. Table-sauce	38,850	Aug. 26	100	1971
Washburn Crosby Company, Minneapolis, Minn. Wheat-flour	39,328	Nov. 25	101	1822
Washburn Crosby Company, Minneapolis, Minn. Wheat-flour	39,329	Nov. 25	101	1822
Wasmuth, Salta Versand von August, Hamburg, Germany. Checker-board games	38,669	July 29	100	1104
Waterson & Sons, George, Edinburgh, Scotland. Sealing-wax	39,607	Dec. 30	101	3101
Watson, Delia P., London, England. Certain named toilet articles	38,852	Aug. 30	100	1971
Watson Plummer Shoe Co., Chicago, Ill. Children's shoes	38,792	Aug. 19	100	1755
Weaser, William H., Pittsfield, Mass. Compound for certain named purposes	39,574	Dec. 30	101	3097
Weaver & Sterry, Limited, New York, N. Y. Olive-oil	39,150	Oct. 28	101	883
Weber, Aaron M., New York, N. Y. Garment-stiffeners	39,058	Oct. 21	101	652
Weber Gasolene Engine Company, Kansas City, Mo. Gas and gasoline engines and hoists	38,047	Apr. 1	99	224
Welemeyer, John H., St. Louis, Mo. Overalls, coats, and pants	38,839	Aug. 20	100	1971
Weiland, Charles, Phoenixville, Pa. Corsets	38,402	June 3	99	2316
Weinkarten Bros., New York, N. Y. Corsets	37,842	Feb. 25	98	1600
Weingarten Bros., New York, N. Y. Corsets	38,149	Apr. 22	99	855

## Alphabetical list of registrants of trade-marks—Continued.

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Weingarten Bros., New York, N. Y. Corsets.	38,325	May 27	99	202
Weingarten Bros., New York, N. Y. Corsets.	38,979	Oct. 7	101	209
Welch, Hannah, Philadelphia, Pa. Salves.	38,798	Aug. 19	100	1756
Wells Flour Milling Company, Wells, Minn. Wheat-flour.	39,604	Dec. 30	101	3101
Wells Flour Milling Company, Wells, Minn. Wheat-flour.	39,605	Dec. 30	101	3101
Wells-Whitehead Tobacco Co., Wilson, N. C. Cigarettes.	37,955	Mar. 18	98	2357
Wesson, Frank B., New York, N. Y. Safety swimming-sleeves.	38,916	Sept. 30	100	3004
West Indies Company, New York, N. Y. Asphalt and certain named products.	38,910	Sept. 23	100	2770
Westervelt, Herbert E., South Bend, Ind. Certain named receptacles.	38,493	June 17	99	2766
Westheimer, Samuel, St. Joseph, Mo. Whisky.	39,031	Oct. 14	101	443
Westhorns, Limited, London, England, and New York, N. Y. Manila and hemp rope and oakum.	39,206	Nov. 4	101	1125
Weston, Franklin F., New York, N. Y. Vehicle-brakes.	38,143	Apr. 15	99	662
Wheeler, Samuel B., North Plainfield, N. J. Remedy for certain named diseases.	37,148	Feb. 4	98	1426
Whitcher & Co., Frank W., Boston, Mass. Elastic or cushion heels and soles for boots and shoes.	38,791	Aug. 19	100	1755
White, George R., Boston, Mass. Syrups, tinctures, pills, plasters, ointments, soaps, and perfumes.	38,014	Apr. 1	99	220
White, George R., Boston, Mass. Certain named medical compounds.	38,799	Aug. 19	100	1756
White, George R., Boston, Mass. Medicinal preparation possessing tonic and laxative properties.	39,092	Oct. 21	101	656
White, George R., Boston, Mass. Medicinal preparation possessing tonic and laxative properties.	39,093	Oct. 21	101	656
White Star Mills, Staunton, Va. Wheat-flour.	39,240	Nov. 11	101	1364
Whitehurst Belting Co., Baltimore, Md. Cotton belting.	38,914	Sept. 23	100	2768
Whitford & Co., E. O., Washington, D. C. Butter.	38,865	Sept. 2	100	2171
Whitman & Barnes Manufacturing Co., Akron, Ohio. Knife-sections.	39,583	Dec. 30	101	3098
Whitman & Barnes Manufacturing Co., Akron, Ohio. Mowing-machine knife-sections.	39,584	Dec. 30	101	3099
Whitman & Co., Clarence, New York, N. Y. Cotton goods.	39,592	Dec. 30	101	3100
Whitman Grocery Company, Orange, Mass. Prepared tapioca.	39,183	Oct. 4	101	212
Whitman Grocery Company, Orange, Mass. Prepared gelatin.	39,485	Dec. 16	101	2562
Whitman Grocery Company, Orange, Mass. Cereal coffee.	39,486	Dec. 16	101	2562
Wilcke, Otto C. F., Dayton, Ohio. Metallic brazing compound.	39,242	Nov. 11	101	1364
Wilcox, Frank N., New Orleans, La. Coffee and tea.	38,036	Apr. 1	99	223
Wilder & Company, Chicago, Ill. Leather for making boots and shoes.	38,840	Aug. 26	100	1969
Wildermuth, Hilarion E., Columbus, Ohio. Chewing and smoking tobacco.	38,473	June 17	99	2768
Willis & Co., Wm. H., New York, N. Y. Shaded almonds.	38,992	Oct. 1	101	212
Willard Chemical Co., Malden, Mass. Medicated soap.	37,890	Mar. 4	98	1961
Willcox, Junius R., Norfolk, Va. Wheat-flour.	39,603	Dec. 30	101	3101
William S. Hills Co., Boston, Mass. Flour.	37,661	Jan. 21	98	578
Williams, Adam C., Ravenna, Ohio. Toy banks.	37,698	Jan. 28	98	787
Williams & Co., E. G., Bradford, England, and New York, N. Y. Mohair, alpaca, and luster-wool linings.	38,788	Aug. 19	100	1755
Williams & Co., H. L., Honolulu, Hawaii. Mineral water.	38,999	Oct. 7	101	212
Willis & Co., Grinnell, New York, N. Y. Certain named dry goods.	39,471	Dec. 16	101	2560
Willis, Grinnell, New York, N. Y. Bleached and unbleached cotton goods.	37,883	Mar. 4	98	1960
Willis, Grinnell, New York, N. Y. Certain named fabrics.	37,947	Mar. 18	98	2356
Willis, Grinnell, New York, N. Y. Certain named fabrics.	38,100	Apr. 15	99	656
Willis, Grinnell, New York, N. Y. Certain named fabrics.	38,180	Apr. 29	99	1163
Willis, Grinnell, New York, N. Y. Certain named fabrics.	38,181	Apr. 29	99	1163
Willis, Grinnell, New York, N. Y. Certain named fabrics.	38,182	Apr. 29	99	1163
Willis, Grinnell, New York, N. Y. Certain named fabrics.	38,183	Apr. 29	99	1163
Willis, Grinnell, New York, N. Y. Certain named fabrics.	38,184	Apr. 29	99	1164
Willis, Grinnell, New York, N. Y. Certain named fabrics.	38,233	May 13	99	1611
Willis, Grinnell, New York, N. Y. Certain named fabrics.	38,234	May 13	99	1612
Willis, Grinnell, New York, N. Y. Certain named fabrics.	38,235	May 13	99	1612
Willis, Grinnell, New York, N. Y. Certain named fabrics.	38,236	May 13	99	1612
Willis, Grinnell, New York, N. Y. Certain named fabrics.	38,237	May 13	99	2062
Wilson, Clinton, New York, N. Y. Whisky, wine, malted liquors, and non-alcoholic beverages.	38,162	Apr. 22	99	857
Wilson, Daniel T., Battlecreek, Mich. Food products made from vegetables and cereals.	38,658	July 22	100	928
Wilson, Frank E., Brooklyn, N. Y. General tonic.	39,140	Oct. 28	101	882
Winona Mineral Water Company, Indianapolis and Winona Lake, Ind. Mineral waters.	38,301	May 20	99	1861
Wisconsin Land & Lumber Co., Hermansville, Mich. Hard-wood flooring and hard-wood and basswood ceilings, and shingles.	38,830	Aug. 19	100	1760
Wisner & Co., Wm. H., New York, N. Y. Cotton-flannels.	37,657	Jan. 21	98	577
Wisner & Co., Wm. H., New York, N. Y. Sheetings.	37,676	Jan. 28	98	785
Wisner & Co., Wm. H., New York, N. Y. Sheetings.	37,677	Jan. 28	98	785
Wisner & Co., Wm. H., New York, N. Y. Sheetings.	37,678	Jan. 28	98	785
Wisner & Co., Wm. H., New York, N. Y. Sheetings.	37,884	Mar. 4	98	1960
Wisner & Co., Wm. H., New York, N. Y. Drills.	38,283	May 13	99	1618
Wisnorsky, Adolf N., Chicago, Ill. Remedy for rheumatism.	38,868	Sept. 2	100	2171
Wm. B. Griffe & Sons Co., Camden, N. J., and Pittsburgh, Pa. Machinery for purifying and softening water.	38,778	Aug. 12	100	1559
Wm. Fulton & Sons, Ltd., Paisley, Scotland. Cloths and stuffs of wool, worsted, or hair.	38,564	July 8	100	444
Wm. J. Lemp Brewing Co., St. Louis, Mo. Beer.	37,901	Mar. 4	98	1962
Wm. S. Cooper Brass Works, Philadelphia, Pa. Compression cocks, valves, and spigots.	37,995	Mar. 25	98	2582
Wood, Albert F., Detroit, Mich. Soap and certain named toilet preparations.	37,662	Jan. 21	98	578
Woodbury & Co., Edwin S., Boston, Mass. Leather boots and shoes.	38,298	May 13	99	1612
Woodbury, Melville, Beverly, Mass. Boots, shoes, and slippers.	38,155	Apr. 22	99	856
Woodhouse Excelsior Manufacturing Company, Philadelphia, Pa. Linseed-oil for painters' use.	37,904	Mar. 4	98	1963
Woolson Spice Company, Toledo, Ohio. Coffees and teas.	38,535	July 1	100	225
Woolson Spice Company, Toledo, Ohio. Coffee.	38,814	Aug. 19	100	1758
Worst, Elmore J., Ashland, Ohio. Mediators, inhalers, respirators, and similar surgical appliances.	37,666	Jan. 21	98	578
Wright & Co., E. H., Kansas City, Mo. Liquid smoke distilled from wood.	38,082	Apr. 1	99	231
Wright, Eliza, New York, N. Y. Detergent compounds used as auxiliaries to soap.	38,628	July 15	100	677
Wright, Firm of Alfred, Rochester, N. Y. Perfumes.	39,403	Dec. 2	101	2070
Yale Hat Company, Detroit, Mich. Hats and caps.	39,393	Dec. 2	101	2069
Yale & Towne Manufacturing Company, Stamford and Branford, Conn.; New York, N. Y.; Boston, Mass.; Philadelphia, Pa.; Chicago, Ill., and San Francisco, Cal. Knobs and knob-spindles.	37,698	Jan. 28	98	787
Yale & Towne Manufacturing Company, Stamford and Branford, Conn.; New York, N. Y.; Boston, Mass.; Philadelphia, Pa.; Chicago, Ill., and San Francisco, Cal. Chain-blocks.	37,699	Jan. 28	98	787
Yale & Towne Mfg. Co., Stamford and Branford, Conn.; New York, N. Y.; Boston, Mass.; Philadelphia, Pa.; Chicago, Ill., and San Francisco, Cal. Chain-blocks.	38,142	Apr. 15	99	662
Young, Albert J., Milwaukee, Wis. Medical tablets as a laxative or cathartic.	37,743	Feb. 4	98	1026
Young, Thomas D., Media, Pa. Remedy for certain named disease of cattle.	38,855	Aug. 26	100	1971
Youngstown Dry Goods Company, Youngstown, Ohio. Certain named underwear.	39,112	Oct. 28	101	879
Z & W. M. Crane, Dalton, Mass. Writing-paper and envelopes.	39,087	Oct. 21	101	653
Zaegel, Max R., Sheboygan, Wis. Medicinal oils.	38,082	Apr. 8	99	441





# ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Name, residence, and title.	No.	Date.	Official Gazette.	
			Volume.	Page.
A. Gutierrez Co., New York, N. Y. "El Dimeo." (For Cigars)	9,384	Aug. 19	100	1761
A. Spiegel Co., Milwaukee, Wis. "Meat-ol." (For a Liquid Food or Tonic)	9,289	July 8	100	447
A. M. Hughes Paint & Glass Co., Kansas City, Mo. "Hughes' Crescent Cottage Paints." (For Paints)	9,233	June 17	99	2767
Abercrombie, David T., Newark, N. J. "Touradif Canadian Boot Grease." (For Boot-Grease)	9,150	May 20	99	1863
Acetone Medical Co., Mystic, Conn. "Acetone." (For a Medicine)	8,915	Jan. 21	98	579
Acme Mineral Water Company, Camilla, Ga. "Acme Mineral Water." (For Mineral Water)	9,280	July 8	100	447
Adams, Irwin M., New York, N. Y. "Euca Lene." (For Medicine)	9,151	May 20	99	1863
Adler, Benj., New York, N. Y. "Best in the World." (For Meats, Provisions, Meat Products, Bolognas, and Sausages)	9,592	Dec. 9	101	2283
Adler, Benj., New York, N. Y. "Guaranteed Strictly Kosher for Orthodox." (For Meats, Provisions, Bolognas, Sausages, and Meat Products)	9,593	Dec. 9	101	2283
Adler, Benjamin, New York, N. Y. "Kosherien." (For Bolognas and Sausages)	9,551	Nov. 11	101	1367
Adler, Benjamin, New York, N. Y. "Luncheon Sausages." (For Sausages)	9,552	Nov. 11	101	1367
Adler, Benjamin, New York, N. Y. "Real German Bologna Sausage." (For Bologna Sausage)	9,553	Nov. 11	101	1367
Akin-Erskine Milling Co., Evansville, Ind. "Southern Belle." (For Flour)	9,628	Dec. 23	101	2819
Akin-Erskine Milling Co., Evansville, Ind. "Olive Branch." (For Flour)	9,629	Dec. 23	101	2819
Akins & Sons, William, Graysville, Ga. "Akins Dropsy Cure." (For Dropsy Cure)	8,969	Feb. 11	98	1279
Alford, A. E. B., Greensboro, N. C. "Grippe Knockers." (For a Medicine)	9,619	Dec. 16	101	2565
Allocco Manufacturing Co., Boston, Mass. "The Eagle Plaster." (For Plasters)	9,317	July 22	100	929
Alleshouse Pharmacal Co., Council Bluffs, Iowa. "Baume de Princesse." (For Facial Massage Preparation)	9,452	Sept. 30	100	3009
Altine Chemical Co., San Francisco, Cal. "Dr. Murri's Iron-Nerve Pills." (For Medicine)	9,389	Aug. 19	100	1761
American Lithographic Company, Limited, Battlecreek, Mich. "American Hulled Beans." (For a Food Preparation)	9,025	Mar. 18	98	2359
American Lithographic Company, New York, N. Y. "La Clara." (For Cigars)	9,000	Mar. 4	98	1965
American Lithographic Company, New York, N. Y. "King's Banner." (For Cigars)	9,001	Mar. 4	98	1965
American Lithographic Company, New York, N. Y. "La Rosica." (For Cigars)	9,036	Apr. 1	99	225
American Lithographic Company, New York, N. Y. "Royal Stock." (For Cigars)	9,162	May 13	99	1619
American Lithographic Company, New York, N. Y. "El Fumeros." (For Cigars)	9,167	May 27	99	2099
American Lithographic Company, New York, N. Y. "El Fumeros." (For Cigars)	9,168	May 27	99	2099
American Lithographic Company, New York, N. Y. "First Page." (For Cigars)	9,270	July 1	100	229
American Lithographic Company, New York, N. Y. "Belle Peep." (For Cigars)	9,287	July 8	100	447
American Lithographic Company, New York, N. Y. "Compliments of the Season." (For Cigars)	9,334	July 29	100	1109
American Lithographic Company, New York, N. Y. "La Rosencia." (For Cigars)	9,414	Sept. 2	100	2173
American Lithographic Company, New York, N. Y. "La Gradosa." (For Cigars)	9,415	Sept. 2	100	2173
American Lithographic Company, New York, N. Y. "La Rosa Puerta." (For Cigars)	9,416	Sept. 2	100	2173
American Lithographic Company, New York, N. Y. "La Rosa Puerta." (For Cigars)	9,417	Sept. 2	100	2173
American Lithographic Company, New York, N. Y. "Golden Leaf." (For Cigars)	9,418	Sept. 2	100	2173
American Lithographic Company, New York, N. Y. "Cheekawgo." (For Cigars)	9,465	Sept. 30	100	3009
American Lithographic Company, New York, N. Y. "Miss Butte." (For Cigars)	9,466	Sept. 30	100	3009
American Lithographic Company, New York, N. Y. "Inda Plante." (For Cigars)	9,467	Sept. 30	100	3009
American Lithographic Company, New York, N. Y. "Jean Bart." (For Cigars)	9,468	Sept. 30	100	3009
American Lithographic Company, New York, N. Y. "Select Combination." (For Cigars)	9,469	Sept. 30	100	3009
American Lithographic Company, New York, N. Y. "El Espada." (For Cigars)	9,487	Oct. 14	101	445
American Lithographic Company, New York, N. Y. "La Perlosa." (For Cigars)	9,488	Oct. 14	101	445
American Lithographic Company, New York, N. Y. "Dolly Varden." (For Cigars)	9,489	Oct. 14	101	445
American Lithographic Company, New York, N. Y. "On Time." (For Cigars)	9,490	Oct. 14	101	445
American Lithographic Company, New York, N. Y. "La Doctrina." (For Cigars)	9,504	Oct. 21	101	659
American Lithographic Company, New York, N. Y. "La Modernia." (For Cigars)	9,511	Oct. 28	101	885
American Lithographic Company, New York, N. Y. "Star Bunch." (For Cigars)	9,537	Nov. 11	101	1367
American Lithographic Company, New York, N. Y. "King's Rest." (For Cigars)	9,538	Nov. 11	101	1367
American Lithographic Company, New York, N. Y. "La Rosilla." (For Cigars)	9,605	Dec. 9	101	2283
American Lithographic Company, New York, N. Y. "Rosy Daisy." (For Cigars)	9,606	Dec. 9	101	2283
American Lithographic Company, New York, N. Y. "La Ternina." (For Cigars)	9,607	Dec. 9	101	2283
American Lithographic Company, New York, N. Y. "First Cable." (For Cigars)	9,608	Dec. 9	101	2283
American Lithographic Company, New York, N. Y. "Wonder Horn." (For Cigars)	9,609	Dec. 9	101	2283
American Lithographic Company, New York, N. Y. "Reina Beata." (For Cigars)	9,639	Dec. 30	101	3103
American Mfg. Co., Greensboro, N. C. "A. Mfg. Co." (For Overalls)	9,064	Apr. 8	99	443
American Ribbon & Carbon Co., Rochester, N. Y. "Onion Skin Finish Carbon Paper." (For Carbon-Paper)	9,502	Oct. 21	101	659
American School Furniture Company, New York, N. Y. "Star Dustless Crayon." (For Crayons)	9,230	June 17	99	2767
Amsberry, W. A., Bussey, Iowa. "Boro Quinine Hair Tonic." (For Hair-Tonic)	9,124	July 8	100	447
Arlen & Ingwersen, L., Savannah, Ga. "Blackbird." (For Lithia Water)	9,097	Apr. 22	99	859
Andrew Lohr Bottling Co., Cairo, Ill. "Aperient Elk Splits." (For Beverages)	8,977	Feb. 18	98	1481
Apotheker Bros., New York, N. Y. "Caplaux." (For Hair-Tonic)	9,294	July 8	100	447
Arbuckle Bros., New York, N. Y.; Pittsburg, Pa., and Chicago, Ill. "Mexoja Coffee." (For Coffee)	9,446	Sept. 23	100	2771
Aristypho Company, New York, N. Y. "Aristypho." (For Cigarettes)	9,348	Aug. 5	100	1327
Arkansas Lithia Springs Co., Hope, Ark. "Arkansas Lithia Water." (For Mineral Water)	9,541	Nov. 11	101	1367
Arlen & Ingwersen, L., Savannah, Ga. "Blackbird." (For Lithia Water)	9,097	Apr. 22	99	859
Armstrong & Co., Cincinnati, Ohio. "Buckeye Brand Meats." (For Meats)	9,213	June 10	99	2545
Armour Packing Company, Kansas City, Kans. "Etiqueta Blanca Manteca Pura." (For Lard)	9,533	Nov. 4	101	1127
Armour Packing Company, Kansas City, Kans. "Salchicha De Viena." (For Vienna Sausages)	9,561	Nov. 18	101	1605
Armour Packing Company, Kansas City, Kans. "White Label English Bacon." (For Bacon)	9,621	Dec. 16	101	2565
Armstrong & Co., Toledo, Ohio. "Kennel Club." (For Whisky)	8,998	Mar. 4	98	1965
Artesian Mfg. & Bottling Co., Waco, Tex. "Celery Champagne." (For a Beverage)	9,035	Mar. 25	98	2583
Artesian Mfg. & Bottling Co., Waco, Tex. "Celery Champagne." (For a Beverage)	9,036	Mar. 25	98	2583
B. & W. Co., Fort Wayne, Ind. "Mineral Dandruff Cure." (For Dandruff Cure)	9,041	Mar. 25	98	2583
B. & W. Co., Fort Wayne, Ind. "The Famous Pile Cure." (For a Pile Cure)	9,092	Apr. 22	99	859
Bachman, C. C. (See Messerschmitt & Bachman.)				
Bailey, George H., Brooklyn, N. Y. "Diagonal Checker Board." (For a Game)	9,535	Nov. 11	101	1367



## Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
			Vol.	Page.
Ballou, C. E., Blandinsville, Ill. "Ballou's Rosegay Cigars." (For Cigars) .....	9,148	May 20	99	1863
Ballowitz, William C., Chicago, Ill. "Belgian Hair Growth." (For Hair-Tonic) .....	9,015	Mar. 11	98	2169
Ballowitz, William C., Chicago, Ill. "Belgian Soap." (For Soap) .....	9,214	June 10	99	2545
Bangor Biscuit Company, Bangor, Me. "Hatch's Biscuit." (For Biscuits) .....	9,388	Aug. 19	100	1761
Banta, J. Clark, Pembine, Wis. "Big 4 Cough and Cold Cure." (For a Medicine) .....	9,089	Apr. 22	99	859
Banta, J. Clark, Pembine, Wis. "Big 4 External Anodyne Liniment." (For Medicine) .....	9,234	June 17	99	2767
Barlebenher, Phil, St. Louis, Mo. "Old Bachelor." (For Whisky) .....	9,134	May 18	99	1619
Barker & Wheeler Co., Peoria, Ill. "Primus." (For Bottled Beer) .....	9,335	July 29	100	1109
Barrett & Barrett, Chicago, Ill. "Malt Myrrh." (For Malt Tonic Liqueur) .....	9,021	Mar. 11	98	2169
Barrett Manufacturing Company, Cincinnati, Ohio. "Directions for Applying Barrett's Weatherproof Roofing." (For Roofing Material) .....	9,383	Aug. 12	100	1561
Bartmer, Adolph H., St. Louis, Mo. "Bartmer's Floral Cream." (For Complexion Preparation) .....	9,047	Apr. 1	99	225
Bass, Samuel, Baltimore, Md. "Bass Brook." (For Whisky) .....	9,402	Aug. 26	100	1973
Bauer, Frederick, Westfield, N. J. "Eclipse Hair Tonic." (For Hair-Tonic) .....	9,162	May 27	99	2069
Bauernfeind, Ed. de, and C. Blesse, Jacksonville, Ill. "Busy Bee." (For Cigars) .....	8,973	Feb. 18	98	1481
Bazemore & Son, W. J., Ringgold, Ga. "Dr. Bazemore's Syrup Castor Oil." (For Castor-Oil) .....	9,456	Sept. 30	100	3000
Becker Co., Louis, Baltimore, Md. "Directum." (For Whisky) .....	9,542	Nov. 11	101	1367
Bell & Son, G. W., Winterset, Iowa. "Bell's Barberry Liniment." (For Liniment) .....	9,343	Aug. 5	100	1327
Ben King Cigar Co., St. Joseph, Mich. "Ben King." (For Cigars) .....	9,430	Sept. 9	100	2381
Bendix, Albert J., and A. L. Eisenstaedt, New York, N. Y. "Tufted Silk." (For Neckwear) .....	9,277	July 8	100	447
Berchold, Otto C., Cleveland, Ohio. "Roman Face Cream Massage." (For Face-Cream Massage) .....	9,198	June 3	99	317
Berger, Isaac. (See Greenberg, Berger, and Waldmann.)				
Betts, Sylvester J., Bayonne, N. J. "Betts Headache and Neuralgia Cure." (For a Medicine) ..	9,115	Apr. 29	99	1167
Biever, Nicholas, Jr., Milwaukee, Wis. "Grain Belt." (For Lager-Beer) .....	9,495	Oct. 14	101	445
Blanchard, Jerome, and C. H. McIntyre, Denver, Colo. "Colorado Rocky Mountain Cough and Catarrh Root." (For a Medicine) .....	9,342	Aug. 5	100	1327
Blauw & Brickner Drug Co., Rochester, N. Y. "Tophene." (For Rheumatic Remedy) .....	9,581	Dec. 2	100	2973
Blazer Manufacturing Company, New York, N. Y. "X-Ray Stove Polish." (For Stove-Polish) ..	9,480	Oct. 7	101	215
Blesse, Charles. (See Bauernfeind and Blesse.)				
Blewett, Edward K., Galena, Ill. "Standard." (For Cigars) .....	9,419	Sept. 2	100	2173
Blickensderfer Man'g Co., Stamford, Conn. "Electric Typewriter Carbon Paper." (For Carbon-Paper) .....	9,022	Dec. 23	101	1811
Bloch, J. H., Scranton, Pa. "The Famous Ripper." (For Cigars) .....	9,345	Aug. 5	100	1327
Block & Co., J. E., Dallas, Tex. "Castro Portuondo." (For Cigars) .....	9,180	May 27	99	2069
Block, Isidor, Dallas, Tex. "Castro Portuondo." (For Cigars) .....	9,100	July 15	100	679
Blome & Son, C., Geo., Baltimore, Md. "The Dixie Candy Bin." (For Candy) .....	9,298	July 15	100	679
Blood, Katherine, Chicago, Ill. "Cold Cucumber Cream." (For a Cosmetic) .....	9,589	Dec. 9	101	2283
Bluff City Bottling Co., Memphis, Tenn. "The Memphis." (For Carbonated Water) .....	9,238	June 17	99	1770
Bohach, Henry C., Brooklyn, N. Y. "Paramount Pure Old Rye Whisky." (For Whisky) .....	9,285	July 8	100	447
Bohkey, Conrad, Paterson, N. J. "C. Bohkey's Cough Medicine." (For Cough Medicine) ..	9,453	Sept. 30	100	3070
Bokel, J. Anton, Baltimore, Md. "Capitol Maryland Rye." (For Whisky) .....	9,460	Sept. 30	100	3070
Boro-Salicine Co., Shamokin, Pa. "Boro Salicine." (For a Medicine) .....	9,307	July 15	100	679
Borton & Co., George O., New York, N. Y. "King High Ball." (For Whisky) .....	9,528	Nov. 4	101	1127
Bourke, Oliver W., Blue Island, Ill. "O. W. Bourke's Lot Syndicate Forms." (For Printed Forms) .....	9,029	Mar. 18	98	2359
Bowles, Thomas N., Brooklyn, N. Y. "Minervaline." (For Hair-Tonic) .....	9,140	May 18	98	1619
Brachvogel, Robert A., Chicago, Ill. "Nix-e Wont Tell." (For a Breath-Perfume) .....	9,038	Mar. 25	98	2543
Brainerd & Armstrong Co., New London, Conn. "High Grade Dress Silks and Tailors' Silk Fabrics." (For Dress-Silks and Tailors' Silk Fabrics) .....	9,174	June 3	99	2317
Brock & Co., L. M., Lynn, Mass. "Soule's Infallible Moth, Tan, Freckle and Pimple Eradicator." (For a Skin Preparation) .....	9,048	Apr. 1	99	225
Brock & Co., L. M., Lynn, Mass. "Mrs. Dinsmore's Great English Cough and Croup Balsam." (For a Medicine) .....	9,049	Apr. 1	99	225
Brennecke, Herman J., Chicago, Ill. "Eggine Baking Powder." (For Baking-Powder) .....	9,297	July 15	100	679
Briggs, Wm. H., and W. H. H. Hart, San Francisco, Cal. "Pineapchew." (For Chewing-Gum) ..	9,066	Apr. 8	99	443
Brown, James H., Battletree, Mich. "Energy." (For Medicated Food) .....	9,577	Nov. 25	101	1327
Brown, N. K., Burlington, Vt. "N. K. Brown's Dyspepsia and Indigestion Tablets." (For Tablets) ..	9,422	Sept. 2	100	2173
Buchanan, James, New York, N. Y. "Buchanan Blend." (For Scotch Whisky) .....	9,574	Nov. 25	101	1327
Buettner, R. H., Chicago, Ill. "Emeralds." (For Cigars) .....	9,295	July 8	100	447
Burden, John F., Cambridge, Mass. "Dr. Tickles' Cough Drops." (For Cough-Drops) .....	9,601	Dec. 9	101	2283
Burnham Soluble Iodine Co., Boston, Mass. "Burnham's Soluble Iodine (The Original)." (For Soluble Iodine) .....	9,087	Apr. 22	99	859
Butler & Co., Samuel, Columbus, Ohio. "Blue Bell." (For Cigars) .....	9,204	June 10	99	2545
Buttfield, Firm of W. J., New York, N. Y. "Knickerbocker Chop." (For Tea) .....	9,412	Sept. 2	100	2173
Calder, Albert L., deceased; C. A. and A. W. Calder and R. A. Robertson, Providence, R. I., executors and trustees. "Calder's Saponaceous Dentine." (For Dentifrice) .....	9,157	May 20	99	1863
Calder, Augustus W. (See Calder, Albert L.)				
California Mercantile Co., Oakland, Cal. "Cream Syrup." (For Syrup) .....	8,893	Jan. 14	98	413
Camden & Philadelphia Soap Company, Camden, N. J. "Camden Pure Wheat Starch Unchemicalized." (For Wheat Starch) .....	9,172	May 27	99	2069
Camden & Philadelphia Soap Company, Camden, N. J. "XXX Hygienic Soap." (For Soap) ..	9,173	May 27	99	2069
Cameo Chemical Co., Baltimore, Md. "Cameo Hair Food." (For Hair-Food) .....	9,448	Sept. 23	100	2771
Carroll, Frank M., Chicago, Ill. "Oatline." (For a Facial Preparation) .....	9,567	Nov. 25	101	1327
Carter's Ink Company, Boston, Mass. "Carter's National Bank Ink." (For Ink) .....	9,070	Feb. 18	98	1481
Caswell, Massey & Co., New York, N. Y. "Coronation Violet." (For Perfume) .....	8,801	Jan. 14	98	413
Central Cigar Manufacturing Co., New York, N. Y. "Na-Bockish." (For Cigars) .....	9,431	Sept. 9	100	2381
Chapman, E. B., Milwaukee, Wis. "The Black Salve." (For Salve) .....	9,632	Dec. 30	101	3103
Chas. L. Kiewert Co., Milwaukee, Wis. "Milwaukee Tonic Brew." (For Beverages) .....	9,595	Dec. 9	101	2283
Chase & Sanborn, Boston, Mass. "Chase & Sanborn Seal Brand Coffee." (For Coffee) .....	9,336	Aug. 5	100	1327
Chase & Sanborn, Boston, Mass. "Chase & Sanborn Seal Brand Coffee." (For Coffee) ..	9,385	Aug. 5	100	1327
Chemical Specialty Company, Newark, N. J. "Little Indian Pipe Ointment." (For Ointment) ..	9,130	May 6	99	1863
Childs Drug Co., Lexington, Ky. "Harifano Vegetable Shampoo Tonic and Dandruff Cure." (For Tonic and Dandruff Cure) .....	9,064	Feb. 11	98	1370
Cotti, Vincenti & Co., Baltimore, Md. "Special Reserve." (For Whisky) .....	9,147	May 20	99	1863
Citizens Wholesale Supply Co., Columbus, Ohio. "Sani-Tari Skin Soap." (For Toilet Soap) ..	9,625	Dec. 23	101	2319
Clark Cast Steel Cement Co., Huntington, Conn. "Cast Steel Cement." (For Cement) .....	9,321	July 29	100	1109
Clarke, Harry N., Cleveland, Ohio. "Glasbrice." (For a Cleaning Preparation) .....	9,216	June 10	99	2545
Clavel Wine & Cordial Co., J., New York, N. Y. "E. Poncelet Frères." (For Creme de Menthe) ..	9,444	Sept. 23	100	2771
Cole, George W. (See Cooling and Cole.)				
Cole & Williams, Marblehead, Mass. "Ursus Shoe." (For Shoes) .....	8,940	Feb. 4	98	1029
Coleman, A. J. & G. E., Boston, Mass. "Coca-Calisyay." (For a Medicinal Preparation) .....	9,155	May 20	99	1863
Coleman, G. E. (See Coleman, A. J. and G. E.)				
Collins, Wm. R., Marion, Ind. "The New 20th Century Remedy, Thymoil." (For a Medicine) ..	9,423	Sept. 2	100	2173

## Alphabetical list of registrants of labels—Continued.

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Commercial Travelers & Farmers National Food Co., Ltd., Battlecreek, Mich. "Grape Sugar Flakes." (For Cereal Food).....	8,988	Feb. 25	98	1708
Cook, Kahn & Gibbs Co. Ltd., Shrewsbury, La. "Ivory." (For Paint).....	9,882	Aug. 12	100	1561
Consolidated Oil Co., Memphis, Tenn. "Blue Ribbon." (For Oil).....	9,057	Apr. 1	99	225
Consumers Silk Mills and Coupons Exchange Co., Newark, N. J. "From Mill to Consumers." (For Taffeta Silk).....	9,362	Aug. 12	100	1561
Cook & Bernheimer Co., New York, N. Y. "Joke Whiskey." (For Whisky).....	8,999	Mar. 4	98	1905
Cook Brewing Co., F. W., Evansville, Ind. "Cook's Budweiser." (For Bottled Beer).....	9,350	Aug. 5	100	1327
Cook, E. J., Sterling, Ill. "The Prophet." (For Cigars).....	8,929	Jan. 28	98	789
Cooling, A. B., and G. W. Cole, Bushnell, Ill. "Chilian Eye Balm." (For Eye-Lotion).....	9,164	May 27	99	2099
Corkran & Co., Walter H., Philadelphia, Pa. "Perfection Comforts." (For Comforts).....	9,229	June 17	99	2767
Costakis, A., San Francisco, Cal. "King Seti." (For Cigarettes).....	9,149	May 20	99	1863
Cotzhausen, Alfred von, Milwaukee, Wis. "Bräu." (For Beer).....	9,263	July 1	100	229
Crown Chemical Co., Inc., Memphis, Tenn. "Liquid Acid Iron." (For a Medicine).....	9,647	Dec. 30	101	3103
Crozier, W., Chicago, Ill. "Crozier's Arabian Liniment for Man and Beast." (For a Liniment).....	9,626	Dec. 23	101	2819
Cudahy Packing Co., Chicago, Ill., and South Omaha, Nebr. "Rex Pork and Beans." (For Pork and Beans).....	9,333	July 29	100	1109
Cummings & Bro., N. C., Portland, Me. "Yankee Cream Corn." (For Canned Corn).....	9,259	July 1	100	229
Dallemard & Co., Chicago, Ill. "Old Joe Murphy." (For Whisky).....	9,527	Nov. 4	101	1127
Davenport Vinegar and Pickling Works, Davenport, Iowa. "Elk Brand." (For Pickles).....	9,508	Oct. 21	101	659
De Grath, A. B., Brooklyn, N. Y. "De Grath's Liniment." (For a Liniment).....	8,889	Jan. 7	98	223
Dean, Charles W., Chardon, Ohio. "De-Cal-Hydra." (For an Ointment).....	9,014	Mar. 11	98	2169
Denary, John H., Billings, Mont. "De Laney Bros. Egg and Fine Tar Liquid Shampoo." (For a Shampoo).....	9,568	Nov. 25	101	1827
Dennis, S. A., Los Angeles, Cal. "Pacific Oil Compound." (For an Oil Compound).....	8,911	Jan. 21	98	579
Detor Bros., Canastota, N. Y. "Canastota's Best 5c. Cigar." (For Cigars).....	9,442	Sept. 23	100	2771
Detroit Milling Co., Detroit, Mich. "Gloria." (For Flour).....	9,359	Aug. 5	100	1327
Detroit Milling Co., Detroit, Mich. "Blue Bell." (For Flour).....	9,360	Aug. 5	100	1327
Detroit Milling Co., Detroit, Mich. "Adrian." (For Flour).....	9,361	Aug. 5	100	1327
Detweiler Bros., Redlion, Pa. "La Rosella." (For Cigars).....	9,191	June 3	99	2317
Dietz, Conrad, Cincinnati, Ohio. "Boss." (For Washing-Machines).....	9,045	Mar. 25	98	2583
Dimond, Harry J., Buffalo, N. Y. "74th Regiment." (For Cigars).....	9,205	June 10	99	2545
Dinet & Delfosse, Chicago, Ill. "Heroids." (For a Medicine).....	9,050	Apr. 1	99	225
Dinet & Delfosse, Chicago, Ill. "Salalgin." (For Medicine).....	9,152	May 20	99	1863
Dinet & Delfosse, Chicago, Ill. "Hydrostoids." (For Medicine).....	9,153	May 20	99	1863
Dinet & Delfosse, Chicago, Ill. "Windsor Soothing Syrup." (For Soothing-Syrup).....	9,219	June 10	99	2545
Dinet & Delfosse, Chicago, Ill. "Glycote Comp. D & D." (For Medicine).....	9,291	July 8	100	447
Dixon, Bartlett Co., Baltimore, Md. "Overland Shoe." (For Shoes).....	9,009	Mar. 11	98	2169
Dow & Company, F. H., Boston, Mass. "Whist Club." (For Chocolates).....	9,210	June 10	99	2545
Dowler, F. K., Jamestown, N. Y. "Dowler's Microbe Ointment." (For Ointment).....	9,224	June 10	99	2545
Dr. A. C. Daniels, Inc., Boston, Mass. "Dr. Daniels' Veterinary Oster-Cocus Liniment." (For a Veterinary Liniment).....	9,078	Apr. 8	99	443
Dr. A. C. Daniels, Inc., Boston, Mass. "Dr. Daniels' Cough, Cold and Fever Drops." (For a Medicine).....	9,116	Apr. 29	99	1167
Dr. A. C. Daniels, Inc., Boston, Mass. "Dr. Daniels' Wonder Worker Liniment." (For Liniment).....	9,117	Apr. 29	99	1167
Dr. A. C. Daniels, Inc., Boston, Mass. "Dr. Daniels' Veterinary Carbo-Negus." (For a Disinfectant).....	9,159	May 20	99	1863
Dr. A. C. Daniels, Inc., Boston, Mass. "Dr. Daniels' Colic Cure." (For a Medicine).....	9,195	June 3	99	2317
Dr. A. C. Daniels, Inc., Boston, Mass. "Dr. Daniels' Liniment Powder." (For Liniment).....	9,223	June 10	99	2545
Dr. A. C. Daniels, Inc., Boston, Mass. "Dr. Daniels' Gall-Cura." (For a Medicine).....	9,649	Dec. 30	101	3103
Drury, Patrick J. (See Power and Drury).....				
Duluth Cigar Co., Duluth, Minn. "Duluth Fashion." (For Cigars).....	9,573	Nov. 25	101	1827
Dunton, Walter L., Boston, Mass. "Dunton's Dental Chewing Gum." (For Dental Chewing-Gum).....	9,365	Aug. 12	100	1561
Eberl & Dupuy, New York, N. Y. "Eberl's Corn Cure." (For a Corn-Cure).....	9,604	Dec. 9	101	2283
Edelstein, Walter, Boston, Mass. "Shoe Manufacturers' Syndicate." (For Shoes).....	9,085	Apr. 29	99	859
Edelstein, Walter, Boston, Mass. "Olympia Shoe Co." (For Shoes).....	9,392	Aug. 19	100	1761
Egg Nut Food Co., Limited, Battlecreek, Mich. "Egg Nut." (For Food Preparation).....	9,179	June 3	99	2317
Ehrman, Herman E., Chicago, Ill. "Sportman's Club." (For Whisky).....	9,240	June 17	99	2767
Ehrman, Herman E., Chicago, Ill. "Foxy Grandpa's Tonic." (For a Tonic).....	9,306	July 15	100	679
Eisenstaedt, Abraham L. (See Bendix and Eisenstaedt).....				
Electric Dyspeptic Pad Co., Battlecreek, Mich. "Electric Dyspeptic Pad." (For Therapeutic Apparatus).....	9,395	Aug. 19	100	1761
Electro-Sterilizing Co., Brooklyn, N. Y. "Electro-Pura and Electronaris Table Waters." (For Manufactured Water).....	9,512	Oct. 28	101	885
Elite Medicine Co., St. Joseph, Mo. "Pre-Vent-O." (For Medicine).....	9,363	Aug. 12	100	1561
Engel, Albert W., Chicago, Ill. "Engel's Silver Dust." (For a Cleaning-Powder).....	9,425	Sept. 2	100	2173
Engel, Albert W., Chicago, Ill. "Engel's Gem Cleaner." (For a Cleaner).....	9,579	Nov. 25	101	1827
Engler & Co., H., Keywest, Fla. "McKinley's Favorite." (For Cigars).....	9,002	Mar. 4	98	1905
Eppstein, Benjamin J., Danville, Ill. "Vermilion Club." (For Whisky).....	9,093	Apr. 29	99	859
Erb, Ludwig G. B., New York, N. Y. "Faulet." (For Insect-Extirminator).....	9,236	June 10	99	2545
Erb, Ludwig G. B., New York, N. Y. "Ferromulsion." (For a Medicine).....	9,543	Nov. 11	101	1367
Erdman & Co., Philadelphia, Pa. "Erdman's German Herb Cure." (For Medicine).....	9,569	Nov. 25	101	1827
Essary & Wilson, Herrin, Ill. "Elkos." (For a Medicine).....	9,544	Nov. 11	101	1367
Eureka Toilet Co., Brooklyn, N. Y. "Eureka Skin Cleanser." (For a Toilet Preparation).....	9,073	Apr. 8	99	443
Evans, Geo. T., Indianapolis, Ind. "E-Z-Bake." (For Flour).....	9,071	Apr. 8	99	443
F. Dohmen Company, Milwaukee, Wis. "Terra Glycoline." (For Poultices).....	9,155	May 20	99	1863
F. Dohmen Company, Milwaukee, Wis. "Resorcinol." (For an Ointment).....	9,166	May 27	99	2099
F. L. Daggett Co., Boston, Mass. "Society Package." (For Chocolates).....	9,615	Dec. 16	101	2545
Fabrikoid Company, Newburgh, N. Y. "Story's Foot Relief." (For a Foot-Powder).....	9,330	July 29	100	1109
Farnsworth Bros. & Co., Boston, Mass. "Prepared Co-Co." (For Cocoa).....	9,137	May 13	99	1619
Faxon, William H., Buffalo, N. Y. "Sodas." (For Crackers).....	9,562	Nov. 18	101	1605
Faxon, William H., Buffalo, N. Y. "Gems." (For Crackers).....	9,563	Nov. 18	101	1605
Faxon, William H., Buffalo, N. Y. "Saltines." (For Crackers).....	9,564	Nov. 18	101	1605
Feehie, William, Gracedale, Pa. "United Powder and High Explosive Workers of America." (For Explosives).....	9,409	Aug. 26	100	1703
Fernandez, Margaret, Brooklyn, N. Y. "Mi Todo." (For Cigars).....	9,443	Sept. 23	100	2771
Fisher, John M., New York, N. Y. "Listerets." (For a Lotion).....	9,271	July 1	100	229
Fleischmann Bros., Newark, N. J. "Tip Top Bug Killer." (For Insecticide).....	9,225	June 10	99	2545
Flo, Jacob, Omaha, Nebr. "Hy-Stip." (For Medicine).....	9,437	Sept. 9	100	2381
Floto, Theodore D., Brooklyn, N. Y. "Floto's Breakfast Drink." (For a Coffee Substitute).....	9,069	Apr. 8	99	443
Floto, Theodore D., Brooklyn, N. Y. "Floto's Breakfast Drink." (For Coffee Substitute).....	9,144	May 20	99	1863
Ford, Harry S., Camden, N. J. "Vitalite." (For Hair-Tonic).....	9,506	Oct. 21	101	659
Forquignon, Emil, New York, N. Y. "Nail Powder." (For Nail-Powder).....	9,312	July 15	100	679
Frazee Stogie Co., Charles F., Pittsburg, Pa. "Country Club Stogies." (For Stogies).....	9,441	Sept. 16	100	2599
Fries, John M., Reading, Pa. "Peach Brand." (For Confectionery).....	9,138	May 13	99	1619



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Fuller, Frank L., Los Angeles, Cal. "Osburn's Pomelo Phosphate." (For a Beverage).....	9,096	Apr. 22	99	859
Fuller, G. Edward, New York, N. Y. "Winette." (For a Beverage).....	9,281	July 8	100	447
Funk & Varner, Knoxville, Ill. "Crescent Stock Food Co., Knoxville, Ill." (For Stock-Food).....	9,243	June 17	99	2707
G. Heileman Brewing Company, La Crosse, Wis. "Old Style Lager." (For Lager-Beer).....	9,094	Apr. 22	99	859
G. Heileman Brewing Company, La Crosse, Wis. "One-Eighty." (For Lager-Beer).....	9,282	July 8	100	447
Gale, Walter H., Chicago, Ill. "Gare's Glycerole of Lecithine Glycerophosphate of Choline." (For a Medicine).....	9,545	Nov. 11	101	1367
Garlock Packing Co., Palmyra, N. Y. "Garlock Packing." (For Packing).....	9,199	June 3	99	2317
Garske, Susanna, St. Paul, Minn. "The S. & G. Hair Grower." (For Hair-Tonic).....	9,125	May 6	99	1981
G. Hartman, Chicago, Ill. "XX Pepsin Kola and Celery." (For Liquid Compounds).....	9,076	Apr. 8	99	443
Gerhart, Charles C., Clarksville, Tenn. "Gerhart's Cleano." (For Washing Composites).....	9,215	June 10	99	2545
Gettysburg Steam Soap Co., Gettysburg, Pa. "Eclipse Laundry Soap." (For Soap).....	9,046	Apr. 1	99	225
Gibboney, John F., Richmond, Va. "Antizig." (For Medicine).....	8,968	Feb. 11	98	1279
Gibson Canning Co., Gibson City, Ill. "Yendik Beans." (For Canned Beans).....	9,022	Mar. 18	98	2359
Gimbel Brothers, Philadelphia, Pa. "System Lenox." (For Garments).....	8,880	Feb. 25	98	1703
Givven, John S., New York, N. Y. "Antiseptic Health Fabric." (For Fabrics).....	9,079	Apr. 15	99	693
Glascoe, Travis, Washington, D. C. "Glascoe's Pepsin Zone." (For a Medicine).....	9,076	Apr. 8	99	443
Glens Falls Portland Cement Co., Glens Falls, N. Y. "Adirondack." (For Cement).....	9,005	Mar. 4	98	1905
Glens Falls Portland Cement Co., Glens Falls, N. Y. "Invicta." (For Cement).....	9,006	Mar. 4	98	1905
Glens Falls Portland Cement Co., Glens Falls, N. Y. "Iron Clad." (For Cement).....	9,007	Mar. 4	98	1905
Goings (Chemical Company), Union, S. C. "Dr. Goings's Creosote Compound." (For a Medicine).....	9,308	July 15	100	679
Goldschmidt, Jacob F., Cincinnati, Ohio. "Kola Celery and Pepsin." (For Tonic).....	9,127	May 6	99	1891
Gordon and Richardson, St. Mary's, Ohio. "Maize Loaf." (For Cereal Food).....	9,332	July 29	100	1169
Goyer & Co., Memphis, Tenn. "Chapline." (For Soap).....	9,042	Apr. 1	99	225
Goyer & Co., C. W., Memphis, Tenn. "Chameloan." (For Molasses).....	9,042	Dec. 30	101	3103
Grabe, Wm. H., St. Louis, Mo. "Dr. Frauz Heldenberg Purifier." (For Medicines).....	9,315	July 22	100	929
Grain-Fruit Cereal Co., Chicago, Ill. "Grain-Fruit. The Hygienic Breakfast Cereal." (For Breakfast-Food).....	9,407	Aug. 26	100	1973
Grand Rapids Brewing Company, Grand Rapids, Mich. "Alt Nurnberger Brau." (For Beer).....	9,351	Aug. 5	100	1327
Grass, John H., New Orleans, La. "Indian Head Powder." (For a Medicine).....	9,309	July 15	100	679
Great Western Oil Company, Cleveland, Ohio. "Lacellite Oil." (For a Medicine).....	9,103	Apr. 29	99	1167
Great Western Oil Company, Cleveland, Ohio. "Mineral Turpentine." (For Mineral Turpentine).....	9,580	Nov. 25	101	1827
Greenberg, Herman, I. Berger, and L. Waldmann, New York, N. Y. "The American Corset Waists." (For Corset-Waists).....	9,008	Mar. 11	98	2169
Greenwald & Co., Philadelphia, Pa. "Whiskey Without a Headache." (For Whisky).....	9,260	July 1	100	229
Griggs, Cooper & Co., St. Paul, Minn. "Home Brand." (For Canned Salmon).....	8,933	Feb. 11	98	1279
Griggs, Cooper & Co., St. Paul, Minn. "Home Brand." (For Canned Lobster).....	8,934	Feb. 11	98	1279
Griggs, Cooper & Co., St. Paul, Minn. "Home Brand." (For Baked Beans).....	8,989	Feb. 25	98	1703
Griggs, Cooper & Co., St. Paul, Minn. "Home Brand." (For Asparagus).....	8,990	Feb. 25	98	1703
Griggs, Cooper & Co., St. Paul, Minn. "Home Brand." (For Soda).....	8,991	Feb. 25	98	1703
Griggs, Cooper & Co., St. Paul, Minn. "Home Brand." (For Maple-Syrup).....	8,992	Feb. 25	98	1703
Griggs, Cooper & Co., St. Paul, Minn. "Home Brand." (For Olive-Oil).....	8,993	Feb. 25	98	1703
Grocers' Specialty Co., Ltd., Battle Creek, Mich. "Eatab-Biscuit." (For Cereal Food).....	9,387	Aug. 19	100	1761
Groetsch, Julius, New Orleans, La. "Club Cafe Family Nestor Rye Whiskey." (For Whisky).....	9,111	Apr. 29	99	1167
Grosme, Guy E., Santa Rosa, Cal. "Rincon Heights Virgin Olive Oil." (For Olive-Oil).....	8,926	Jan. 28	98	789
Grummond & Co., Hull, Binzhaunt, N. Y. "North-Western." (For Cigars).....	9,554	Nov. 18	101	1605
Guishin, A. J., New York, N. Y. "Arbellot & Cie. Cognac." (For Cognac).....	9,026	Mar. 18	98	2359
H. A. Meldrum Company, Buffalo, N. Y. "Victor Silk." (For Silk).....	8,920	Jan. 28	98	789
H. B. Claflin Company, New York, N. Y. "Blue Lion 36-Inch Percal." (For Percal).....	8,981	Feb. 25	98	1703
H. B. Claflin Company, New York, N. Y. "Red Lion 36-Inch Percal." (For Percal).....	8,982	Feb. 25	98	1703
H. O. (Hornby's Oat Meal) Company, New York, N. Y. "Presto." (For Cereal Food Products).....	9,570	Nov. 11	101	1367
Hamlin, Charles F., Medway, Mass. "Syrup of Prunes Family Laxative." (For a Laxative Medicine).....	9,546	Nov. 11	101	1367
Hamlin's Wizard Oil Co., Chicago, Ill. "Hamlin's Wizard Oil." (For a Medicine).....	9,075	Apr. 8	99	443
Handley, William L., Lowell, Ind. "Champion Stock Food." (For Stock-Food).....	8,937	Jan. 28	98	789
Harrower, L. E., Amsterdam, N. Y. "Men's Wool Fleece Shirts." (For Knit Underwear).....	9,176	June 3	99	2317
Harrower, L. E., Amsterdam, N. Y. "Hygienic Fleece Lined Shirts." (For Knit Underwear).....	9,177	June 3	99	2317
Hart, Wm. H. (See Briggs and Hart).....				
Hartmann & Son, F., Camden, N. J. "Our Congressman." (For Cigars).....	9,301	July 15	100	679
Hays, R. A., New York, N. Y. "Crescent Silk Velvet." (For Velvet).....	9,160	May 27	99	2049
Hearn & Jones, New Orleans, La. "Sugar Exchange Standard." (For Molasses).....	9,498	Oct. 14	101	445
Hearn & Jones, New Orleans, La. "Sugar Exchange Standard." (For Syrup).....	9,499	Oct. 14	101	445
Heaton Brothers, Victoria and Cuero, Tex. "Heaton's Viper Bite Cure." (For a Medical Preparation).....	9,583	Dec. 2	101	2973
Heil, Robert, Matzeawan, N. Y. "Heil's Incline Bread." (For Bread).....	9,635	Dec. 30	101	3103
Heineman, Herman, New York, N. Y. "White Cross." (For Vaccination-Shields).....	8,996	Jan. 28	98	789
Hellman & Co., A. M., St. Louis, Mo. "Kudros." (For a Beverage).....	8,959	Feb. 11	98	1279
Henschel & Co., A. C., Chicago, Ill. "El Pagado." (For Cigars).....	9,080	Apr. 15	99	603
Henschel & Co., A. C., Chicago, Ill. "Hubart Morrett." (For Cigars).....	9,131	May 13	99	1619
Henschel & Co., A. C., Chicago, Ill. "La Cintillo." (For Cigars).....	9,385	Aug. 19	100	1761
Henschel & Co., A. C., Chicago, Ill. "Joe Turner." (For Cigars).....	9,389	Aug. 26	100	1973
Henschel & Co., A. C., Chicago, Ill. "X-K." (For Cigars).....	9,492	Oct. 14	101	445
Henschel & Co., A. C., Chicago, Ill. "El Exito." (For Cigars).....	9,585	Nov. 18	101	1605
Herlihy, James A., Chillicothe, Ohio. "Fontaine de Jouvence. (Fountain of Youth)." (For a Toilet Preparation).....	8,944	Feb. 4	98	1029
Herrmann, Lorenz P., New York, N. Y. "Pat Rooney, Chip of the Old Block Cigars." (For Cigars).....	8,947	Feb. 4	98	1029
Hewitt Bakery Company, St. Louis, Mo. "World's Fair Bread." (For Bread).....	8,996	Jan. 14	98	413
Hickok, Franklin K., New Haven, Conn. "Pine Needle Toilet Powder." (For Toilet Powder).....	9,478	Oct. 7	101	215
Higgins, Charles D., Greensboro, N. C. "Tar Heel Tonic and Blood Purifier." (For Medicine).....	8,966	Feb. 11	98	1279
Higgins & Co., Wm. A., New York, N. Y. "Eureka." (For Evaporated Fruits).....	9,253	July 1	100	229
Higgins & Co., Wm. A., New York, N. Y. "Blue Bell." (For Evaporated Fruits).....	9,254	July 1	100	229
Higgins & Co., Wm. A., New York, N. Y. "Athenian." (For Evaporated Fruits).....	9,255	July 1	100	229
Higgins & Co., Wm. A., New York, N. Y. "Jolly." (For Evaporated Fruits).....	9,256	July 1	100	229
Higgins & Co., Wm. A., New York, N. Y. "Mistletoe." (For Evaporated Fruits).....	9,257	July 1	100	229
Higgins & Co., Wm. A., New York, N. Y. "Chariot." (For Evaporated Fruits).....	9,258	July 1	100	229
Hilfer, Louis, St. Louis, Mo. "Trunk Matches." (For Matches).....	9,010	Mar. 11	98	2169
Hille, David J., Castlerock, Wash. "Purity Baking Powder." (For Baking-Powder).....	9,378	Aug. 12	100	1561
Hillsdale Fire Brick and Clay Company, Hillsdale, Ind., and Chicago, Ill. "Dome Fire Clay." (For Fire-Clay).....	9,279	July 8	100	447
Hires Condensed Milk Company, Malvern and Philadelphia, Pa. "Essex Brand Condensed Milk." (For Condensed Milk).....	8,956	Feb. 11	98	1279
Hoffheimer Cigar Co., Chicago, Ill. "Don Carrito." (For Cigars).....	9,470	Sept. 30	100	3009
Hofmeister, Anthony, Albany, N. Y. "Even-Up." (For Cigars).....	9,557	Nov. 18	101	1605
Holden, George B., Haverhill, Mass. "Dermicure." (For a Medicine).....	8,917	Jan. 21	98	579

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Hollis, Milton G., Reading, Pa. "Hes Ra." (For Cigarettes).....	9,558	Nov. 18	101	1605
Hottenstein & Co., R. L., Philadelphia, Pa. "I Wash the Old Way: I Use the I V Washing Tab- lets." (For Washing Tablets).....	9,016	Mar. 11	98	2169
Hughens, W. C., Atlanta, Ga. "W. C. Hughes Electric Fluid." (For a Medicine).....	9,043	Mar. 25	98	2583
Hulbert, Arthur G., Chicago, Ill. "Kol-Saver." (For a Chemical Compound).....	8,924	Jan. 28	98	789
Hulley & Co., Charles R., Brooklyn, N. Y. "Golden Lustre Metal Polish." (For Metal-Polish).....	9,440	Sept. 9	100	2381
Hungerford & Son, A. B., Henderson, N. Y. "Cedarine Ointment." (For Ointment).....	9,165	May 27	99	2059
Hussey, John W., New York, N. Y. "Bleachner." (For Washing-Powder).....	8,551	Feb. 4	98	1029
Hussey & Gessler, Chicago, Ill. "La Molinda." (For Cigars).....	9,099	Apr. 22	99	850
Huston & Huston, Alliance, Ohio. "King Bee." (For Flour).....	9,610	Dec. 9	101	2283
Ideala Co., Canton, Ohio. "Ideala." (For Toilet Cream).....	9,272	July 1	100	229
Ijams, Harriet E., San Francisco, Cal. "The American Puzzle Game of Advertisments and Trade Marks." (For a Game).....	9,200	June 10	99	2545
Imperial Brewing Co., Kansas City, Mo. "Mayflower." (For Beer).....	9,428	Sept. 9	100	2381
Imperial Brewing Co., Kansas City, Mo. "Mayflower." (For Beer).....	9,429	Sept. 9	100	2381
International Acheson Graphite Co., Niagara Falls, N. Y. "Acheson Graphite." (For Graphite). International Textbook Co., Scranton, Pa. "Phonographic Language Lesson." (For Phono- graphic Records).....	9,004	Mar. 4	98	1965
Isaacs & Co., A. New York, N. Y. "Diver Brand Sponges." (For Sponges).....	8,887	Jan. 7	98	223
Isaacson, Joseph R., Chicago, Ill. "Zu-Zu." (For Cigars).....	9,450	Sept. 30	100	3009
Islip Mustard & Pickle Company, Islip, N. Y. "International Brand Celery Prepared in Mus- tard." (For Celery Prepared in Mustard).....	9,586	Dec. 2	101	2073
J. Capas & Sons, Ltd., Jacksonville, Ill. "100% Pure-Wool." (For Cloth).....	9,643	Dec. 30	101	3103
J. Clavel Wine & Cordial Co., New York, N. Y. "E. Poncelli e Cia." (For Vermouth).....	9,249	July 1	100	229
J. Grossman's Sons, New Orleans, La. "Harmony Club." (For Whisky).....	9,110	Apr. 29	99	1167
J. Grossman's Sons, New Orleans, La. "Luebin's Malt Extract." (For Malt-Extract).....	9,559	Nov. 18	101	1605
J. & J. Colman, Limited, London, England. "English Mustard Sauce." (For Mustard-Sauce).....	9,560	Nov. 18	101	1605
Jacobson Arnold, New York, N. Y. "Good Fellow Cigars." (For Cigars).....	9,050	Apr. 1	99	225
James McIntosh Company, Minneapolis, Minn. "Cupid's." (For Chocolates and Bonbons).....	9,400	Aug. 26	100	1973
Jewel Coffee Co., Cincinnati, Ohio. "Jewel Coffee." (For Coffee).....	8,946	Feb. 4	98	1029
John C. Heintz, New York, N. Y. "Heintz's Cigars." (For Malt).....	9,529	Nov. 4	101	1127
John Kissel & Son, Inc., Brooklyn, N. Y. "White Label" Hunter Whiskey." (For Whisky).....	9,584	Dec. 2	101	2073
Johnson, Charles W., New York, N. Y. "The Cardinal Kidney Cure and Tonic." (For a Medi- cine).....	9,070	Apr. 8	99	443
Jordan, Linwood F., Portland, Me. "Uncle Sam Did It! Can You?" (For a Puzzle).....	9,013	Mar. 11	98	2169
Jordan, Linwood F., Portland, Me. "Old Crow Cakes." (For a Confection).....	9,474	Oct. 7	101	215
Jordan, Linwood F., Portland, Me. "Worlds Fair Wafers." (For a Confection).....	9,497	Oct. 14	101	425
Kann Sons & Co., S. Washington, D. C. "Sanitary Safety Pin." (For Safety-Pins).....	9,530	Nov. 4	101	1127
Keefe, Cornelius, Jr., Boston, Mass. "Con Keefe Cognac." (For Brandy).....	9,611	Dec. 9	101	2283
Keller Bros., Newark, N. J. "Keller Bros. Blood Purifying Remedy." (For a Medicine).....	9,135	May 13	99	1619
Kelly, John E., Buffalo, N. Y. "Effervescent Kidney Salt Tablets." (For Medicine).....	9,090	Apr. 22	99	859
Kelly & Son, Thos., Baltimore, Md. "Ammonia Celery." (For Medicine).....	9,236	June 17	99	2767
Kempshall Manufacturing Company, Arlington, N. J. "Kempshall Flyer." (For Golf-Balls).....	9,327	July 29	100	1109
Kempshall Manufacturing Company, Arlington, N. J. "Kempshall League." (For Golf-Balls).....	9,323	July 29	100	1109
Kennedy, J. J., Collins, Ga. "Kennedy's Sweet Castor Oil." (For Castor-Oil).....	9,324	July 29	100	1109
Khasan, Naum, New York, N. Y. "Khasan's Roach-ney." (For an Insect-Powder).....	9,128	May 6	99	1381
Kirk Bros. & Company, Chicago, Ill. "Federal Family Soap." (For Soap).....	8,903	Jan. 14	98	413
Kleine, Henry, Chicago, Ill. "Eagle Brand." (For Shoe-Polish).....	9,123	May 6	99	1381
Klenke, Wm. H., Saginaw, Mich. "Red Star Cigars." (For Cigars).....	8,945	Feb. 4	98	1029
Klenke, Wm. H., Saginaw, Mich. "The Elk Cigar." (For Cigars).....	9,392	July 15	100	679
Knapp, Herbert G., Pittsburg, Pa. "Ramestee Cement." (For Cement).....	9,392	July 15	100	679
Knight, Alexander, Watertown, N. Y. "Knight's Consumption, Bronchitis, Asthma Cure." (For Medicine).....	9,515	Oct. 28	101	885
Koch Co., Edwin, Saginaw, Mich. "Heart Food." (For a Breakfast Product).....	8,971	Feb. 18	98	1481
Koehler & Hinrichs, St. Paul, Minn. "Bromint." (For Headache Cure).....	8,897	Jan. 14	98	413
Kopp, Robert, New York, N. Y. "Official Fire Insurance Record Watchman's Improved Time Detector." (For Dials and Time-Detectors).....	9,314	July 22	100	929
Korn-Krisp Co., Limited, Battlecreek, Mich. "Korn-Krisp." (For a Food Preparation).....	9,044	Mar. 25	98	2583
Kornitzer, Joseph, Socorro, N. Mex. Ter. "Metabolin." (For a Medicine).....	9,104	Apr. 29	99	1167
Kornitzer, Joseph, Socorro, N. Mex. Ter. "Prostatol." (For a Medicine).....	9,598	Dec. 9	101	2283
Kory & Sons, A., New Orleans, La. "Kory's Oak Pants." (For Trousers).....	9,599	Dec. 9	101	2283
Kraun Remedy Company, Emporia, Kans. "Kraun's New Red Blood." (For a Medicine).....	9,536	Nov. 11	101	1367
Kraus & Bro., S., New York, N. Y. "John Latour. Cognac 1858." (For Brandy).....	9,051	Apr. 1	99	225
Krauser & Bro., E., Milton, Pa. "Krausers New Material or Extract of Wood Ashes." (For Soap-Making Material).....	9,354	Aug. 5	100	1327
Krueger, J. C. M., Chicago, Ill. "Krueger's Antiseptic Dandruff Cure." (For Dandruff Cure).....	9,197	June 3	99	2317
L. Martin Co., Jersey City, N. J. "Germantown Lamp-Blacks Made by the L. Martin Co." (For Lampblack).....	9,620	Dec. 16	101	2565
Lackawanna Dairy Co., Scranton, Pa. "Faultless." (For Condensed Milk).....	9,122	May 6	99	1381
Lambert Good Food Co., Ltd., Marshall, Mich. "Malted Food." (For a Food Product).....	9,098	Apr. 22	99	859
Lambert Good Food Co., Ltd., Marshall, Mich. "Malt Wheat Biscuit." (For a Food Product).....	9,030	Mar. 25	98	2583
Lambert Good Food & Machinery Co., Ltd., Marshall, Mich. "Toasted Manna." (For Food Product).....	9,143	May 20	99	1863
Landfield Bros. & Co., New York, N. Y. "Luminoso." (For Cigars).....	8,907	Jan. 21	98	579
Larned, Samuel B., and L. J. Barker, Syracuse, N. Y. "Ambition Pills." (For Medicine).....	9,061	Apr. 1	99	225
Lash, S. F., Los Angeles, Cal. "World's Hair Restorer." (For Hair-Restorer).....	9,310	July 15	100	679
Leahman & Duster, Co., Davenport, Ia. "Lee Broom." (For Brooms).....	9,399	Aug. 26	100	1973
Lehman, Alfred B., Johnstown, N. Y. "Provider Brooms Brushes." (For Brooms and Brushes).....	8,938	Feb. 4	98	1029
Leibold, Adam H., and H., New York, N. Y. "Beltine." (For a Preservative and Filler for Belts).....	9,320	July 22	100	929
Leibold, Henry. (See Leibold, Adam and H.).....	9,509	Oct. 21	101	659
Lever Brothers, Limited, Port Sunlight, county of Chester, England. "Lifebuoy Soap." (For Soap).....	8,910	Jan. 21	98	579
Lever Brothers, Limited, Port Sunlight, England. "Sunlight Soap." (For Soap).....	8,944	Feb. 25	98	1033
Levyhansky, Victor, Tex. "Labor Saving." (For Soling Fluid).....	9,453	Sept. 30	100	3009
Lexington Toy Bird Co., Lexington, Ky. "Directions." (For Toy Birds).....	8,979	Feb. 25	98	1703
Lidwell Gum Co., Kansas City, Mo. "Malt Pepsin." (For Chewing-Gum).....	8,955	Feb. 11	98	1279
Lidwell Gum Co., Kansas City, Mo. "Magnolia." (For Chewing-Gum).....	9,464	Sept. 30	100	3009
Lieblenthal Bros. & Co., Cleveland, Ohio. "Napoleon French Limburger." (For Limburger Cheese).....	8,909	Jan. 21	98	579
Lifelife Chemical Company, Milwaukee, Wis. "Lifelife." (For Medicine).....	9,566	Nov. 25	101	1827
Lifelife Chemical Company, Milwaukee, Wis. "Elixir Lifelife Compound." (For an Elixir).....	9,570	Nov. 25	101	1827
Lilienthal, A. L., New York, N. Y. "La Flor De Lilienthal." (For Cigars).....	9,491	Oct. 14	101	445
Lima & Co., D. A., New York, N. Y. "Las Americas." (For Cotton Cloth).....	9,322	July 29	100	1109
Lincoln Chemical Co., Milwaukee, Wis. "Formo Dyspepsia Tablets." (For Dyspepsia-Tablets).....	8,901	Jan. 14	98	413
Lincoln, Seyms & Co., Hartford, Conn. "Puritan Bys." (For Cigars).....	9,301	July 15	100	679
Lincoln, Seyms & Co., Hartford, Conn. "Ottoman." (For Cigars).....	9,536	July 29	100	1109



## Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Lindqvist & Co., B., Chicago, Ill. "Caloric Punsch." (For Punch).....	8,978	Feb. 18	98	1481
Lindqvist & Co., B., Chicago, Ill. "Svenskt Malort Branvin." (For Medicine).....	9,245	June 24	99	2463
Lindsey, N. B., Marblehead, Mass. "The Lindsey." (For Crackers).....	9,358	Aug. 5	100	1327
Little Giant Fire-Extinguisher Co., New York, N. Y. "The Little Giant." (For Fire-Extinguishers).....	9,248	June 24	99	2563
Lloyd, Thomas, New York, N. Y. "Eruption of Mt. Pelee." (For Fireworks).....	9,251	July 1	100	229
Lockyer, Frank H., San Francisco, Cal. "Lockyer's Chili-Peka Seasoning." (For Seasoning).....	9,380	Aug. 12	100	1561
Logan, G. A., New York, N. Y. "Pure Old Mellow Treadmill Rye." (For Whisky).....	9,187	June 3	99	2317
Long, David D., Oswego, N. Y. "Ox Heart." (For Candy).....	8,892	Jan. 14	98	413
Lufkin, George E., Bangor, Me. "Pine Tree State Taffy." (For Taffy).....	9,404	Aug. 26	100	1973
Lundy & Co., W. R., Detroit, Mich. "Upper Ten Cocktails." (For Cocktails).....	9,461	Sept. 30	100	3069
Madison Medicine Co., Madison, Wis. "Rocky Mountain Tea." (For a Medicine).....	9,032	Apr. 1	99	225
Madison Medicine Co., Madison, Wis. "Rocky Mountain Tea." (For a Medicine).....	9,033	Apr. 1	99	225
Malt-Toe Flake Food Co., Ltd., Battlecreek, Mich. "Malt-Toe." (For a Food Preparation).....	8,974	Feb. 18	98	1481
Manhardt & Sons, Ch. G., Rochester, N. Y. "Home Trade Cigar." (For Cigars).....	9,514	Oct. 28	101	885
Man, James H., Lewistown, Pa. "Kishacoquillas Axe." (For Axes).....	9,063	Apr. 1	99	225
Mansbach & Co., Isaac, Philadelphia, Pa. "Millionaires Club." (For Whisky).....	9,170	May 27	99	2069
Manufacturers' and Inventors' Electric Co., New York, N. Y. "Cats-Eye Dry Battery." (For Dry Batteries or Their Containers).....	9,594	Dec. 9	101	2283
Markert, Albert, Brooklyn, N. Y. "Alpine." (For Whooping-Cough Compound).....	9,507	Oct. 21	101	659
Marshall, John, San Francisco, Cal. "Royal Welsh Sauce." (For Sauce).....	9,011	Mar. 11	98	2169
Marshall, T. P., Macon, Ga. "Baby Ease." (For Medicine).....	9,390	Aug. 19	100	1761
Marshall, Thomas P., Atlanta, Ga. "Marshall's Dandelion Tonic." (For a Medicine).....	9,088	Apr. 22	99	859
Martinez & Hedges Co., New York, N. Y. "La Flor de Luis Martinez." (For Cigars).....	9,081	Apr. 15	99	693
Martinez & Hedges Co., New York, N. Y. "Novara." (For Cigars).....	9,555	Nov. 18	101	1645
Martinez & Hedges Co., New York, N. Y. "La Paz Del Mundo Superiors." (For Cigars).....	9,556	Nov. 18	101	1645
Masurite Explosive Company, New York, N. Y. "Masurite Safe Explosive." (For an Explosive).....	9,232	July 1	100	229
Mayer, Ernest. (See Mayer, Joseph and E.).....				
Mayer, Joseph and E., Beaverfalls, Pa. "Gold Lustre." (For Gold Luster).....	8,941	Feb. 4	98	1029
McArt-Christy Co., Cleveland, Ohio. "Imperial Crest." (For Tea).....	9,585	Dec. 2	101	2073
McCoy, Volunite A., Dwight, Nebr. "Am-Bo-Line, The Worlds Eradicator." (For a Cleansing Compound).....	9,588	Dec. 9	101	2283
McCrislis & Son, A. B., Providence, R. I. "Best Patent Flour Guaranteed Highest Quality Made." (For Flour).....	9,614	Dec. 16	101	2565
McLaughlin & Co., W. F., Chicago, Ill. "Manor House." (For Coffee).....	9,435	Sept. 9	100	2381
Meat & Malt Co., Louisville, Ky. "Dr. Fowler's Meat and Malt." (For a Proprietary Compound).....	9,077	Apr. 8	99	443
Mellin's Food Company of North America, Portland, Me., and Boston, Mass. "Mellin's Food Chocolate." (For a Food Preparation).....	9,102	Apr. 22	99	859
Mellin's Food Company of North America, Portland, Me., and Boston, Mass. "Mellin's Lacto-Glyose." (For Milk Food).....	9,106	Apr. 29	99	1167
Mellin's Food Company of North America, Portland, Me., and Boston, Mass. "Mellin's Lacto-Glyose." (For Milk Food).....	9,107	Apr. 29	99	1167
Merriam & Co., John W., New York, N. Y. "Bull-Dog." (For Cigars).....	9,112	Apr. 29	99	1167
Messerschmitt & C. C. Bachman, Drs. F., Rochester, N. Y. "Superior Dental Finishing Strips." (For Dental Finishing Strips).....	9,364	Aug. 12	100	1561
Meyer, Alexander, Oakpark, Ill. "The-Crystal-Rock-Mineral-Spring-Water." (For Mineral Spring Water).....	9,631	Dec. 23	101	2819
Michigan Milling Co., Ann Arbor, Mich. "Hygeia Flour." (For Flour).....	8,906	Jan. 21	98	579
Michigan Milling Co., Ann Arbor, Mich. "Snow Queen." (For Flour).....	9,031	Mar. 25	98	2583
Michigan Milling Co., Ann Arbor, Mich. "Ann Arbor Patent." (For Flour).....	9,032	Mar. 25	98	2583
Miebis Tobacco Co., New York, N. Y. "Star of Egypt." (For Cigarettes).....	9,239	July 15	100	679
Miebis Tobacco Company, New York, N. Y. "Miebis." (For Cigarettes).....	9,264	July 1	100	229
Miller, M. Y., Brooklyn, N. Y. "Miller's Lung Syrup." (For a Medicine).....	9,648	Dec. 30	101	3103
Milliken, Tomlinson Co., Portland, Me. "Superbia." (For Blueberries).....	8,894	Jan. 14	98	413
Milliken, Tomlinson Co., Portland, Me. "Cartland's Orange Formosa." (For Tea).....	8,997	Mar. 4	98	1965
Milliken, Tomlinson Co., Portland, Me. "Khevide." (For Tea).....	9,184	June 3	99	2317
Milliken, Tomlinson Co., Portland, Me. "Golden Pheasant." (For Tea).....	9,472	Sept. 30	100	3069
Milliken, Tomlinson Co., Portland, Me. "Chase's Formosa Oolong Tea." (For Tea).....	9,576	Nov. 25	101	1827
Mills & Gibb, New York, N. Y. "Nottingham Curtains." (For Curtains).....	9,587	Dec. 9	101	2283
Milnes, Harrison L., Coldwater, Mich. "Cream of Oats." (For a Cereal Product).....	9,024	Mar. 18	98	2359
Milwaukee Incandescent Light Co., Milwaukee, Wis. "Rough Rider." (For Incandescent Gas and Gasolene Mantles).....	9,482	Oct. 14	101	445
Moise & Co., Walter, Omaha, Nebr. "Revivor Bitters." (For Bitters).....	8,900	Jan. 14	98	413
Moore & Sinnott, Philadelphia, Pa. "John Gibson's Son & Co's Rye Whiskey." (For Whisky).....	9,261	July 1	100	229
Morris Oatmeal Co., Morris, Ill. "Tiger Rolled White Oats." (For Rolled Oats).....	8,898	Jan. 14	98	413
Moss, Taylor & Co., New York, N. Y. "Satisfaction Cotton." (For Cotton Fabrics).....	9,175	Feb. 3	99	2317
Mothers Own Company, Altoona, Pa. "Mother's Own Ointment." (For Ointment).....	9,454	Sept. 30	100	3069
Mrazay, John, Philadelphia, Pa. "Karlshader Hair Regenerator." (For a Hair-Regenerator).....	8,965	Feb. 11	98	1279
Mueller & Co., C. F., Jersey City, N. J. "Animals." (For Macaroni).....	8,973	Feb. 18	98	1481
Mulherin & Sons, William, Philadelphia, Pa. "Winner Whiskey." (For Whisky).....	9,262	July 1	100	229
Murdock, Harry P., North Adams, Mass. "The Greylock Shoe." (For Shoes).....	9,638	Dec. 30	101	3103
Murphy, Chas., Knoxville, Tenn. "Eczemaline." (For a Remedy for Skin-Diseases).....	9,603	Dec. 9	101	2283
N. Thomas Brewing Co., Dayton, Ohio. "Hop Tea." (For a Non-Intoxicating Beverage).....	9,413	Sept. 2	100	2173
National Label Co., Cincinnati, Ohio. "Canby, Ach and Canby's Peerless One Spoon Baking Powder." (For a Baking-Powder).....	8,928	Jan. 28	98	789
National Label Co., Cincinnati, Ohio. "Alderney Baking Powder." (For Baking-Powder).....	9,331	July 29	100	1109
Nature's Breakfast Food Co., Minneapolis, Minn. "Nature's Breakfast Food." (For a Wheat Food).....	9,818	Jan. 21	98	579
Navarro & Co., J. Oakland, Cal. "Peerless Compound Tabasco Chili Sauce." (For Chili-Sauce).....	8,909	June 10	99	2345
Nelson & Co., J. C., Detroit, Mich. "Peerless Compound." (For a Medicine).....	8,942	Feb. 4	98	1029
Nelson, W. H., Richmond, Va. "Elixir Ovarian." (For a Medicine).....	9,344	Aug. 5	100	1327
New Bremen Broom Co., New Bremen, Ohio. "Regal." (For Brooms).....	9,062	Apr. 1	99	225
New Bremen Broom Co., New Bremen, Ohio. "None Such." (For Brooms).....	9,065	Apr. 8	99	443
New England Chemical Co., Torrington, Conn. "Tenderfoot." (For Foot-Powder).....	9,158	May 20	99	1863
New Jersey Division of the American Wire Weavers Protective Association, Belleville, N. J. "American Wire Weavers Protective Association." (For Fourdrinier Wire-Cloth).....	9,296	July 15	100	679
Newlin, Isaac, New York, N. Y. "400 Coffee." (For Coffee).....	9,034	Mar. 25	98	2583
Newman, F. C., Chicago, Ill. "Sure-Pop Baking Powder." (For Baking-Powder).....	9,406	Aug. 26	100	1973
Northern Condensed Milk Co., Philadelphia, Pa. "Banner Brand." (For Condensed Milk).....	9,405	Aug. 26	100	1973
Northwestern Lithographing Company, Milwaukee, Wis. "Ehrenpreis." (For Beer).....	9,640	Dec. 30	101	3103
Nouveau Manufacturing Company, Newark, N. J. "Nouveau Furniture Polish." (For Furniture-Polish).....	9,408	Aug. 26	100	1973
Ohio Rubber Co., Cleveland, Ohio. "Universal Waterproof Cement." (For Cement).....	9,623	Dec. 23	101	2819
Oklahoma Biscuit Co., Oklahoma, Okla. Ter. "Oklahoma Sodas." (For Crackers).....	9,549	Nov. 11	101	1367
Old Dominion Paper Co., Norfolk, Va. "Cow Hide." (For Paper Bags).....	9,250	July 1	100	229
Olive Oil Importing Co., Ltd., New Orleans, La. "Cefalu Sicilia." (For Olive-Oil).....	9,578	Nov. 25	101	1827

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Name, residence, and title.	No.	Date.	Official Gazette.	
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Omnia Chemical Co., New York, N. Y. "Kil-Lol Electric Bug-Killer." (For an Insecticide) .....	9,526	Nov. 4	101	1127
Oppenheim, Moses, New York, N. Y. "Good Luck Shoe." (For Shoes) .....	9,899	Feb. 4	98	1029
Owens, John C., Plainfield, Ill. "Owens' Fragrant Cream." (For a Toilet Preparation) .....	9,163	May 27	99	2099
Pacella, Michael A., Chicago, Ill. "Franklin Union Number Four Cigars." (For Cigars) .....	9,401	Aug. 26	100	1973
Pacetti, A. P., Augusta, Ga. "Padgett's Old H & H Rye Whiskey." (For Whisky) .....	9,188	June 3	99	2317
Palmer, Frank L., Hartford, Conn. "Alpha Oil." (For a Medicine) .....	9,114	Apr. 29	99	1167
Palmyra Springs Sanitarium Co., Palmyra, Wis. "Aurelian." (For Mineral-Spring Water) .....	9,108	Apr. 29	99	1167
Paroli, Erminio & Co., New York, N. Y. "Italy Brand." (For Olive-Oil) .....	9,477	Oct. 7	101	215
Pasadena Medical Company, Philadelphia, Pa. "St. Anthony's Oil." (For Medicinal Oil) .....	9,455	Sept. 30	100	3009
Pasco Headache Co., Lake Nebagamon, Wis. "Keep Your Eye on Pas-co Headache Capsules." (For Headache Medicine) .....	9,192	June 3	99	2317
Paton Bros., Catlettsburg, Ky. "Dr. Ling's Lemon Cough Remedy." (For a Medicine) .....	9,816	Jan. 21	98	579
Peabody & Co., Henry W., New York, N. Y., and San Francisco, Cal. "Red Admiral Brand." (For Apricots) .....	9,644	Dec. 30	101	3103
Peabody & Co., Henry W., New York, N. Y., and San Francisco, Cal. "Prize Winner." (For Plums) .....	9,645	Dec. 30	101	3103
Peabody & Co., Henry W., New York, N. Y., and San Francisco, Cal. "Perfect." (For Plums) .....	9,646	Dec. 30	101	3103
Pearce, Clara, Philadelphia, Pa. "Gem Washing Compound." (For Soap and Washing Compound) .....	9,612	Dec. 9	101	2283
Pepper Company, Peabody, Mass. "The Pepper Co. Pure Confectionery, Peabody, Mass." (For Confectionery) .....	9,468	Sept. 30	100	3009
Perfection Cereal Company, Cleveland, Ohio. "Perfection Cereal Coffee." (For Cereal Coffee) .....	9,185	June 3	99	2317
Perfumol Company, Battlecreek, Mich. "Perfumol." (For Breath-Perfume) .....	9,875	Feb. 18	98	1481
Pferberg, Edward, Jersey City, N. J. "Eagle Shoe." (For Shoes) .....	9,819	Jan. 28	98	99
Petersen, Marcus, Buffalo, N. Y. "Hamadala Cream." (For a Toilet Preparation) .....	9,074	Apr. 8	99	443
Peterson, Frank W., Minneapolis, Minn. "Sapphire Toilet Cream." (For Toilet Cream) .....	9,039	Mar. 25	98	2583
Pfaff, Henry, Pittsburg, Pa. "Luthea." (For Toothache Remedy) .....	9,485	Oct. 14	101	445
Pfaffman Egg Noodle Co., Cleveland, Ohio. "Royal Egg Noodles." (For Egg-Noodles) .....	9,119	May 6	99	1381
Pfeiffer, Chas., Omaha, Nebr. "Abdul's Sektizer." (For Medicine) .....	9,486	Oct. 14	101	445
Phillips, Augustus K., St. Louis, Mo. "Old Things Are Passed Away." (For Bluing) .....	9,684	Dec. 30	101	3103
Phillips Packing Co., Cambridge, Md. "Maryland Leader." (For Canned Tomatoes) .....	9,381	Aug. 12	100	1561
Phillips Packing Co., Cambridge, Md. "Maryland Leader." (For Canned Peaches) .....	9,447	Sept. 23	100	2771
Pierce, Byron, Coopers Plains, N. Y. "Unfermented Grape Juice." (For Grape-Juice) .....	9,136	May 13	99	1619
Piso Company, Warren, Pa. "Piso's Tablets for the Cure of Diseases of Women." (For Medicines) .....	9,316	July 22	100	929
Platt, E. B., Carthage, Mo. "Vegetable Catarrh Cure." (For a Medicine) .....	9,627	Dec. 23	101	2819
Popel & Giller, Warsaw, Ill. "Pink Rose Wine." (For Wine) .....	9,353	Aug. 5	100	1327
Poray-Kaczowski, Joseph, South Chicago, Ill. "Dr. Poray's Elixir of Life." (For Medicine) .....	9,508	Oct. 21	101	659
Porjes, Leo, Chicago, Ill. "Ferr-Malt Wine." (For Medicine) .....	9,246	June 24	99	2963
Power, Vincent W., and P. J. Drury, Washington, D. C. "Grid Iron Club Rye Whiskey." (For Rye Whisky) .....	9,861	Feb. 11	98	1279
Preston, George S., Knoxville, Tenn. "Cinco." (For a Beverage) .....	9,186	June 3	99	2317
Price, S. C., Joplin, Mo. "Dr. Prices Soda Quinine Laxative Powders." (For Medicine) .....	9,235	June 17	99	2767
Price, Theodore H., New York, N. Y. "Nalitra or Grease Extractor." (For a Cleaning Preparation) .....	9,101	Apr. 22	99	859
Pruemer's Malto-Meat Company, New York, N. Y. "Pruemer's Malto-Meat." (For a Vegetable Food) .....	9,637	Dec. 30	101	3103
Prussian Chemical Co., Newport, Ky. "U'dorf." (For a Medicine) .....	9,602	Dec. 9	101	2283
Queen Quality Starch Co., Fort Worth, Tex. "Queen Quality." (For Laundry Starch) .....	9,139	May 13	99	1619
Raiche, W. J., Marinette, Wis. "Fig-Fizic." (For a Laxative) .....	9,091	Apr. 22	99	859
Ralston-Purina Co., St. Louis, Mo. "Purina Checkerboard Corn Meal." (For Granular Corn Preparations) .....	9,636	Dec. 30	101	3103
Rano, Charles O., Buffalo, N. Y. "Brandine." (For Medicine) .....	9,237	June 17	99	2767
Ray, Price, Owensboro, Ky. "King Salve Liniment." (For Liniment) .....	9,222	June 10	99	2545
Real Food Co., Ltd., Battlecreek, Mich. "Perfo." (For a Food Preparation) .....	9,927	Jan. 28	98	789
Reebor, Eva B., New York, N. Y. "Schaefer's Blood Purifier." (For Medicine) .....	9,161	May 27	99	2099
Reid, George P. L., Marion, Ala. "Phospho." (For Medicinal Preparation) .....	9,194	June 3	99	2317
Renton, H. T., Oakland, Cal. "Renton's Fuge Rheum." (For a Medicinal Oil) .....	9,811	July 15	100	679
Richardson Co., William, Hornellsville, N. Y. "Miladi." (For Shoes) .....	9,228	June 17	99	2767
Richter & Co., F. Ad., Rudolstadt, Germany, and New York, N. Y. "Anchor Bridges No. 8. Supplement." (For Building-Boxes) .....	9,517	Nov. 4	101	1127
Richter & Co., F. Ad., Rudolstadt, Germany, and New York, N. Y. "Richter's Popular Comet Blocks." (For Building-Boxes) .....	9,518	Nov. 4	101	1127
Richter & Co., F. Ad., Rudolstadt, Germany, and New York, N. Y. "Imperator No. 6." (For Building-Boxes) .....	9,519	Nov. 4	101	1127
Richter & Co., F. Ad., Rudolstadt, Germany, and New York, N. Y. "Imperator No. 8." (For Building-Boxes) .....	9,520	Nov. 4	101	1127
Richter & Co., F. Ad., Rudolstadt, Germany, and New York, N. Y. "Imperator No. 4." (For Building-Boxes) .....	9,521	Nov. 4	101	1127
Richter & Co., F. Ad., Rudolstadt, Germany, and New York, N. Y. "Anchor Bridges No. 4. Supplement." (For Building-Boxes) .....	9,522	Nov. 4	101	1127
Richter & Co., F. Ad., Rudolstadt, Germany, and New York, N. Y. "Imperator No. 2." (For Building-Boxes) .....	9,523	Nov. 4	101	1127
Richter & Co., F. Ad., Rudolstadt, Germany, and New York, N. Y. "Anchor Bridges No. 6. Supplement." (For Building-Boxes) .....	9,524	Nov. 4	101	1127
Rief, Frederick J., Boston, Mass. "Champagne-Tablets." (For a Medicine) .....	9,424	Sept. 2	100	2173
Rio Grande Medicine Company, San Antonio, Tex. "Siempre Viva." (For a Medicinal Preparation) .....	9,067	Feb. 11	98	1279
Robins, Reel M., New York, N. Y. "Devonshire Relish." (For a Table-Sauce) .....	8,895	Jan. 14	98	413
Robertson, Richard A. (See Calder, Albert L.) .....				
Robinson Danforth Milling Co., St. Louis, Mo. "Kornkins." (For Cornmeal and Cereal Products) .....	9,613	Dec. 9	101	2283
Robinson, Frank W., McLeansboro, Ill. "Sprayine." (For Medicine) .....	9,328	July 29	100	1169
Robinson, Thomas A., North Baltimore, Ohio. "Cannon Ball." (For Cigars) .....	9,821	Jan. 28	98	789
Roevekamp Bros., Oshkosh, Wis. "Split Rock." (For Mineral-Spring Water) .....	9,938	Feb. 11	98	1279
Root, E. J., Reamstown, Pa. "Bunkie." (For Cigars) .....	9,067	Apr. 8	99	443
Rose Company, Waterbury, Conn. "Rose Balm." (For a Lotion) .....	9,483	Oct. 14	101	445
Rose Company, Waterbury, Conn. "Verus." (For Hair-Tonic) .....	9,484	Oct. 14	101	445
Rose, Ernest W., Chicago, Ill. "Rosaderma." (For Complexion Compound) .....	9,479	Oct. 7	101	215
Rosenbaum Brothers, Chicago, Ill. "Gold Eagle." (For Grain) .....	9,212	June 10	99	2545
Roxbury Liquor Dealers' Association, Boston, Mass. "Special Bottling Pure Rye Whiskey." (For Whisky) .....	9,209	June 10	99	2545
Roy, Lillian E., New York, N. Y. "P-A-Y-M-E Concentrated Extract of Vanilla." (For Extract of Vanilla) .....	9,462	Sept. 30	100	3009



## Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Rudolph & Huber, Poughkeepsie, N. Y. "Star Five-Cent Concentrated Horse Food." (For Horse-Food)	9,475	Oct. 7	101	215
Ruppe, B., Albuquerque, N. Mex. Ter. "Farrar's Hygienic Protective Powder" (For a Protective Powder)	8,902	Jan. 14	98	413
S. S. Pierce Co., Boston, Mass. "Rival Pale Ale." (For Ale)	9,596	Dec. 9	101	2263
S. S. Pierce Co., Boston, Mass. "Strenuous Stout." (For Stout)	9,597	Dec. 9	101	2263
S. S. Pierce Company, Boston, Mass. "Elfin Brand." (For Sugar-Corn)	9,473	Sept. 30	100	3449
S. S. Pierce & Co., Boston, Mass. "Camel Brand Figs." (For Figs)	9,616	Dec. 16	101	2365
S. & S. Salve Co., Reading, Pa. "Puritan Pile Capsules." (For Medicine)	9,650	Dec. 30	101	3103
S. & S. Salve Co., Reading, Pa. "Puritan Salve." (For Salve)	9,651	Dec. 30	101	3103
Sackett, Charles E., Danbury, Conn. "Frederic." (For Hats)	9,275	July 8	100	447
Sackett, Charles E., Danbury, Conn. "Luds." (For Hats)	9,276	July 8	100	447
Sackett, Charles E., Danbury, Conn. "Randolf Maker." (For Hats)	9,313	July 22	100	929
Sackett, Charles E., Danbury, Conn. "A Pocket Hat Luer." (For Hat-Luers)	9,393	Aug. 10	100	1761
Sackett, Charles E., Danbury, Conn. "A Pocket Hat Luer." (For Hat-Luers)	9,394	Aug. 19	100	1761
Sackett, Charles E., Danbury, Conn. "Nichol's Hat Co. Hat Makers." (For Hats)	9,396	Aug. 26	100	1973
Sackett, Charles E., Danbury, Conn. "Brooks Co. Makers." (For Hats)	9,397	Aug. 26	100	1973
Sackett, Charles E., Danbury, Conn. "A Pocket Hat Luer." (For Hat-Luers)	9,410	Sept. 2	100	2173
Salicrup, Joseph A. (See Salicrup, Robert J. and J. A.)				
Salicrup, Robert J. and J. A., New York, N. Y. "Gránulos Tónico-Laxantes Del Doctor Roberts." (For a Medicine)	9,054	Apr. 1	99	225
Sanchez & Haya Co., Tampa, Fla., and New York, N. Y. "Iroquois Club." (For Cigars)	9,189	June 3	99	2317
Sanchez & Haya Co., Tampa, Fla., and New York, N. Y. "La Flor de Salvrini." (For Cigars)	9,190	June 3	99	2317
Sanchez & Haya Co., Tampa, Fla., and New York, N. Y. "Shakespeare." (For Cigars)	9,206	June 10	99	2545
Sanchez & Haya Co., Tampa, Fla., and New York, N. Y. "Mirafior." (For Cigars)	9,207	June 10	99	2545
Sanchez & Haya Co., Tampa, Fla., and New York, N. Y. "Tacita." (For Cigars)	9,208	June 10	99	2545
Sanchez & Haya Co., Tampa, Fla., and New York, N. Y. "La Romana." (For Cigars)	9,209	July 1	100	220
Sanchez & Haya Co., Tampa, Fla., and New York, N. Y. "La Oriental." (For Cigars)	9,269	July 1	100	220
Sanchez, Rodriguez & Co., Seattle, Wash. "Juan de Fuca." (For Cigars)	8,969	Jan. 14	98	413
Sanitary Chemical Co., Allegheny, Pa. "Klenzine." (For a Carpet-Cleaner)	9,624	Dec. 23	101	2819
Sanitary My-Food Co., Limited, Battlecreek, Mich. "My Biscuit." (For Biscuit)	9,434	Sept. 9	100	2381
Santa Paula Commercial Co., Santa Paula, Cal. "Mission Brand." (For Apricots)	9,426	Sept. 9	100	2381
Santa Paula Commercial Co., Santa Paula, Cal. "Orchard Brand." (For Apricots)	9,427	Sept. 9	100	2381
Saqui, Samuel, New York, N. Y. "Jenny Lind." (For Cigarettes)	9,638	Dec. 30	101	3103
Saums, George W., Plainfield, N. J. "None Such Furniture & Floor Polish." (For Furniture and Floor Polish)	9,082	Apr. 15	99	663
Schenley Distillery, Limited, Schenley, Pa. "Schenley Pure Rye." (For Whisky)	9,513	Oct. 28	101	885
Schertz, Christian, New Orleans, La. "Tabasco Pepper." (For Extract of Tabasco Pepper)	8,888	Jan. 7	98	223
Schmidt, Bernard, Harrisburg, Pa. "Schmidt's Bread." (For Bread)	9,178	June 3	99	2317
Schmidt & Co., New York, N. Y. "Scare Crow." (For Cigars)	8,930	Jan. 28	98	789
Schmidt & Co., New York, N. Y. "Judge Wilson." (For Cigars)	8,931	Jan. 28	98	789
Schmidt & Co., New York, N. Y. "Puritan." (For Cigars)	8,932	Jan. 28	98	789
Schmidt & Co., New York, N. Y. "True Stock." (For Cigars)	8,933	Jan. 28	98	789
Schmidt & Co., New York, N. Y. "Adeva." (For Cigars)	8,934	Jan. 28	98	789
Schmidt & Co., New York, N. Y. "Proof Mark." (For Cigars)	8,962	Feb. 11	98	1279
Schmidt & Co., New York, N. Y. "Marca Vuelta." (For Cigars)	8,965	Feb. 25	98	1703
Schmidt & Co., New York, N. Y. "Johnie Bird." (For Cigars)	8,986	Feb. 25	98	1703
Schmidt & Co., New York, N. Y. "La Rosa de Juncos." (For Cigars)	9,019	Mar. 11	98	2103
Schmidt & Co., New York, N. Y. "Golden Dream." (For Cigars)	9,068	Apr. 8	99	443
Schmidt & Co., New York, N. Y. "Home Industry." (For Cigars)	9,100	Apr. 22	99	888
Schmidt & Co., New York, N. Y. "Crown." (For Cigars)	9,113	Apr. 29	99	1167
Schmidt & Co., New York, N. Y. "Tropical Cigar." (For Cigars)	9,241	June 17	99	2767
Schmidt & Co., New York, N. Y. "Morton's Sweet Smokers." (For Cigars)	9,244	June 24	99	2963
Schmidt & Co., New York, N. Y. "The Fast Cigar." (For Cigars)	9,395	July 1	100	229
Schmidt & Co., New York, N. Y. "The Fireside." (For Cigars)	9,396	July 1	100	229
Schmidt & Co., New York, N. Y. "Elkhorn." (For Cigars)	9,395	July 15	100	679
Schmidt & Co., New York, N. Y. "Western Jewel." (For Cigars)	9,398	Aug. 12	100	1561
Schmidt & Co., New York, N. Y. "La Preciada." (For Cigars)	9,399	Aug. 12	100	1561
Schmidt & Co., New York, N. Y. "Full Leaf." (For Cigars)	9,370	Aug. 12	100	1561
Schmidt & Co., New York, N. Y. "Rose of Kansas City." (For Cigars)	9,371	Aug. 12	100	1561
Schmidt & Co., New York, N. Y. "Western Monarch." (For Cigars)	9,372	Aug. 12	100	1561
Schmidt & Co., New York, N. Y. "U. S. Baby." (For Cigars)	9,373	Aug. 12	100	1561
Schmidt & Co., New York, N. Y. "Baby Ribbon." (For Cigars)	9,374	Aug. 12	100	1561
Schmidt & Co., New York, N. Y. "Arctic Maid." (For Cigars)	9,375	Aug. 12	100	1561
Schmidt & Co., New York, N. Y. "El Lupus." (For Cigars)	9,376	Aug. 12	100	1561
Schmidt & Co., New York, N. Y. "Flor de Utuado." (For Cigars)	9,420	Sept. 2	100	2173
Schmidt & Co., New York, N. Y. "Sunchita." (For Cigars)	9,421	Sept. 2	100	2173
Schmidt & Co., New York, N. Y. "Gold Bore." (For Cigars)	9,432	Sept. 9	100	2381
Schmidt & Co., New York, N. Y. "Ole New York." (For Cigars)	9,433	Sept. 9	100	2381
Schmidt & Co., New York, N. Y. "Nebraska Girl." (For Cigars)	9,539	Nov. 11	101	1367
Schmidt & Co., New York, N. Y. "Dollar Mark." (For Cigars)	9,540	Nov. 11	101	1367
Schmidt & Co., New York, N. Y. "Plantation." (For Cigars)	9,572	Nov. 25	101	1827
Schmidt & Sons, Fritz T., Davenport, Iowa. "Dr. A. L. Schmidt's 'U-G' Blood Purifier Rheumatism Cure." (For a Medicine)	9,449	Sept. 23	100	2771
Schock, Clarence, Mount Joy, Pa. "Rollman Food Chopper." (For Food-Choppers)	9,591	Dec. 9	101	2263
Schulte, Arthur C., New York, N. Y. "La Nud Brakla." (For Cigars)	9,575	Mar. 18	98	2234
Schulze Baking Co., Chicago, Ill. "Butter Nut Bread." (For Bread)	8,918	Jan. 21	98	579
Schulze Baking Co., Chicago, Ill. "Bread in a Bag." (For Bread)	9,548	Nov. 11	101	1367
Schwartz, Schiffer & Company, New York, N. Y. "Hercules Rip Proof Gloves." (For Gloves)	9,341	Aug. 5	100	1327
Schwencke, Kirk & Co., New York, N. Y. "Eagle India Ink." (For Ink)	8,912	Jan. 21	98	579
Shanafelt, Fred P., Canton, Ohio. "Shanafelt's Flavors." (For Flavors)	9,083	Mar. 25	98	2381
Sharp, Eugene, Kansas City, Mo. "Empress Imperial Toilet Powder." (For Toilet Powder)	9,489	Sept. 9	100	2381
Shefford Cheese Co., Buffalo, N. Y. "Shefford's Cream Cheese." (For Cream Cheese)	9,570	Nov. 25	101	1827
Sheldon, Ralph, Baldwinville, N. Y. "Sheldon's Criterion." (For Cigars)	8,992	Jan. 28	98	789
Shepard, Jos. C., Jr., Wilmington, N. C. "Shepard's Fly Guard & Veterinary Liniment." (For a Veterinary Liniment)	9,547	Nov. 11	101	1367
Sheppey, Marshall, Toledo, Ohio. "Indian Coffee." (For Coffee)	8,948	Feb. 4	98	1029
Sheppey, Marshall, Toledo, Ohio. "Rising Sun Coffee." (For Coffee)	8,949	Feb. 4	98	1029
Sheppey, Marshall, Toledo, Ohio. "Rising Sun." (For Baking-Powder)	8,950	Feb. 4	98	1029
Sheppey, Marshall, Toledo, Ohio. "Empire Rolled White Oats." (For Rolled Oats)	8,952	Feb. 4	98	1029
Showeralter, Edwin A., Milwaukee, Wis. "Turkish Nerve Builder." (For a Medicine)	9,290	July 8	100	447
Siegel-Cooper Co., New York, N. Y. "Malt Vigor." (For Extract of Malt)	9,239	June 17	99	2767
Siegel-Cooper Co., New York, N. Y. "Queen Quality." (For Burgundy Wine)	9,352	Aug. 5	100	1327
Silver & Co., Brooklyn, N. Y. "Marion Harland Coffee." (For Coffee)	9,496	Oct. 14	101	445
Simpson, Fred W., Chicago, Ill. "Advance Stock Food." (For Animal-Food)	9,105	Apr. 29	99	1167

## Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Slater, Frank W., Montreal, Canada. "Airlint." (For Footwear).....	9,451	Sept. 30	100	3009
Slayton Co., E. M., Manchester, N. H. "E. M. S." (For Butter).....	9,500	Oct. 14	101	445
Smith, John F., New York, N. Y. "Marvelous Waterproof Shoe Polish." (For Waterproof Oil Polish).....	9,457	Sept. 30	100	3009
Smith, Kline & French Co., Philadelphia, Pa. "Eskey's Nauro Phosphates." (For Medicine).....	9,219	June 10	99	2545
Smith, Kline & French Co., Philadelphia, Pa. "Eskey's Cascaroil." (For Medicine).....	9,220	June 10	99	2545
Smith, Louise D., New York, N. Y. "The Etenheim Sauce." (For a Sauce).....	9,925	Jan. 28	98	789
Smith, Louise D., New York, N. Y. "Roumanian Cream Skin-Food." (For a Toilet Cream).....	9,217	June 10	99	2545
Smith, Louise D., New York, N. Y. "The Roumanian Facial Guards and Roumanian Witch Hazel Tissue-Mask." (For Toilet Articles).....	9,618	Dec. 16	101	2563
Smith, Nora E., Battlecreek, Mich. "Vis Vitae." (For a Hair-Restorative).....	8,963	Feb. 11	98	1279
Smith, Thomas E., Mobile, Ala. "Sex-o-tine." (For a Medicine).....	9,080	Dec. 9	101	2283
Snyder, Margaret E., Brooklyn, N. Y. "Snyder's All Food Emulsion." (For a Medicine).....	9,083	Apr. 15	99	663
Sommer, H., Quakertown, Pa. "Keystone Maid." (For Cigars).....	8,904	Jan. 21	98	579
Sommer, H., Quakertown, Pa. "La Vitalia." (For Cigars).....	8,905	Jan. 21	98	579
Sopura Co., Boston, Mass. "Sopura Dentifrice." (For Tooth-Powder).....	8,913	Jan. 21	98	579
Southern California Chemical Co., Los Angeles, Cal. "Frutonic." (For a Tonic Beverage).....	9,349	Aug. 5	100	1327
Southern Coffee Company, Galveston, Tex. "Sea-Wall." (For Coffee).....	9,355	Aug. 5	100	1327
Southern Coffee Company, Galveston, Tex. "Battle." (For Coffee).....	9,476	Oct. 7	101	215
Spangler, Daniel, Red Lion, Pa. "Uncle John." (For Cigars).....	9,020	Mar. 11	98	2169
Spector Bros., Chicago, Ill. "Queen Caroline." (For Cigars).....	9,133	May 13	99	1619
Speedy Cure Remedy Company, Coatesville, Pa. "Speedy Cure." (For Medicine).....	9,154	May 20	99	1863
Spence, J. F., Lisbon, Ohio. "Laxacura." (For a Medicine).....	9,129	May 6	99	1381
Spinner Medicinal Tablet Co., Providence, R. I. "Dr. Spinner's Stomach Aid." (For a Medicine).....	9,274	July 1	100	220
Springer, C. F., Mineralpoint, Wis. "Red Trunk." (For Cigars).....	9,037	Mar. 25	98	3533
Stahlberg, J. W., St. Louis, Mo. "The Appetite Stomach Tablet." (For Stomach-Tablets).....	9,383	Feb. 25	98	1703
Standard Sanitary Mfg. Co., Pittsburg, Pa. "Standard Porcelain Enameled Sanitary Ware." (For Sanitary Ware).....	9,231	June 17	99	2767
Standard Sanitary Mfg. Co., Pittsburg, Pa. "Standard Porcelain Enameled Sanitary Ware." (For Sanitary Ware).....	9,232	June 17	99	2767
Standard Sanitary Mfg. Co., Pittsburg, Pa. "Standard Sanitary Manufacturing Co., Pittsburg, Pa. U. S. A." (For Sanitary Ware).....	9,247	June 24	99	2963
Stanley Rule & Level Co., New Britain, Conn. "Bailey." (For Planes).....	8,890	Jan. 7	98	223
Stark, A. L., Boston, Mass. "Boston Light Gelatine." (For Gelatin).....	9,411	Sept. 2	100	2173
Stastny, Wacław, Chicago, Ill. "Bowler's Club Rye Whiskey." (For Rye Whisky).....	9,058	Apr. 1	99	225
Static Carbonating Company, Boston, Mass. "Static." (For Packages Containing Carbonated Beverages).....	9,403	Aug. 26	100	1973
Stecher Litho Co., Rochester, N. Y. "El Pitirre." (For Cigarettes).....	9,118	May 6	99	1381
Stecher Lithographic Co., Rochester, N. Y. "El Timonel." (For Cigars).....	9,007	Mar. 4	98	1985
Stein Brothers, Chicago, Ill. "Red Lion Stomach Bitters." (For Stomach-Bitters).....	9,481	Oct. 7	101	215
Stern & Co., Louis, Chicago, Ill. "Elesco Baltimore Rye Whiskey." (For Whisky).....	9,500	Dec. 9	101	2233
Stevens, Lillian J., New York, N. Y. "Madame Stevens' Famous Parisian Hair Tonic." (For Hair-Tonic).....	9,505	Oct. 21	101	639
Stewart Manufacturing Co., Santa Rosa, Cal. "Stewart's Odorless and Tasteless Castor Oil." (For Castor-Oil).....	9,221	June 10	99	2545
Stewart Manufacturing Co., Santa Rosa, Cal. "Stewart's Odorless and Tasteless Castor Oil." (For Castor-Oil).....	9,293	July 8	100	447
Stitzel Distilling Co., Louisville, Ky. "Mondamin." (For Whisky).....	9,641	Dec. 30	101	3103
Stolze, John, Reading, Pa. "Oxyneara." (For a Medicine).....	9,055	Apr. 1	99	225
Strohauser, Jacob, Caro, Mich. "Stewart's Sure Cure for Horses and Cattle." (For Horse and Cattle Remedies).....	9,571	Nov. 25	101	1827
Stuart, Margaret R., Brooklyn, N. Y. "Rovercroft Liniment." (For Liniment).....	9,391	Aug. 19	100	1761
Stutz, Chas., a Firm, New York, N. Y. "El Intacto." (For Cigars).....	9,337	July 29	100	1109
Stutz, Chas., a Firm, New York, N. Y. "Josephine." (For Cigars).....	9,338	July 29	100	1109
Stutz, Chas., a Firm, New York, N. Y. "La Magnita." (For Cigars).....	9,339	July 29	100	1109
Stutz, Chas., a Firm, New York, N. Y. "Mi Elektra." (For Cigars).....	9,340	July 29	100	1109
Stutz, Chas., a Firm, New York, N. Y. "La Carolita." (For Cigars).....	9,346	Aug. 5	100	1327
Stutz, Chas., a Firm, New York, N. Y. "Tarquinius." (For Cigars).....	9,347	Aug. 5	100	1327
Stutz, Chas., a Firm, New York, N. Y. "Peradana." (For Cigars).....	9,367	Aug. 12	100	1561
Sullivan & Co., C. F., Boston, Mass. "Blue Label Pure Rye Whiskey." (For Whisky).....	9,145	May 20	99	1863
Sullivan & Co., C. F., Boston, Mass. "O. L. Taylor Pure Rye Whiskey." (For Whisky).....	9,146	May 20	99	1863
Sutro Bros. Braid Company, New York, N. Y. "Skirt Facing." (For Skirt-Facings).....	9,134	Nov. 4	101	1127
Sutton, Edwin D., Mauricetown, N. J. "Sutton's Roup and Gape Cure." (For Poultry-Powder).....	9,653	Dec. 30	101	3103
Swineford's Arsenic-Lithia Water Co., Richmond, Va. "Chesterfield Splits." (For Aperient Water).....	9,445	Sept. 23	100	2771
Sword Medicine Co., Pulaski, Tenn. "Swords Great Tonic and System Renovator." (For a Medicine).....	9,084	Apr. 15	99	663
T. A. Snider Preserve Company, Cincinnati, Ohio. "Snider's Oyster Cocktail Sauce." (For Oyster-Cocktail Sauce).....	9,012	Mar. 11	98	2169
Tabor, Hochner & Tabor, New York, N. Y. "Anchor Brand." (For Underwear).....	9,501	Oct. 21	101	659
Tanner Paint & Oil Co., Richmond, Va. "Black Elastic Roof Paint." (For Roof-Paint).....	9,227	June 10	99	2545
Tasse, Gustave, Montreal, Canada. "Vigorine." (For Pills).....	9,343	Feb. 4	98	1029
Taylor, George N., N. Y. "Cyclone." (For Dandruff Cure).....	9,329	July 22	100	1169
Terre Haute Brewing Co., Terre Haute, Ind. "Salvator." (For Beer).....	9,377	Aug. 12	100	1561
Terre Haute Brewing Co., Terre Haute, Ind. "Velvet Beer." (For Bottled Beer).....	9,493	Oct. 14	101	445
Terre Haute Brewing Co., Terre Haute, Ind. "Champagne Velvet Beer." (For Bottled Beer).....	9,494	Oct. 14	101	445
Terrill, William E., Montpelier, Vt. "The Queen's Cream of Roses." (For a Toilet Preparation).....	9,273	July 1	100	220
Tetlow Mfg. Co., Philadelphia, Pa. "Tetlows Violet Boquet Talcum Powder." (For Talcum Powder).....	9,278	July 8	100	447
Tissera, V. L., Chicago, Ill. "Tissera's Tea-Bu-Ets." (For Compressed Teas).....	9,057	Feb. 11	98	1270
Titzell, Frank C., Chicago, Ill. "Anti-Whoop." (For a Medicine).....	9,014	Jan. 21	98	579
Townsend, Henry A., Salem, Oreg. "Liberty Brand." (For Dried Prunes).....	9,293	Mar. 18	98	2359
Travis, Edgar, Fetterman, W. Va. "Council Brand." (For Cigars).....	9,366	Aug. 12	100	1561
Truissell Syrup Company, Freeport, Ill. "Aunt Kate's Pancake Syrup." (For Syrup).....	9,630	Dec. 23	101	2819
Turnock Medical Company, Chicago, Ill. "Dr. Turnock's Kidney Cure." (For Medicine).....	9,582	Dec. 2	101	2073
Ulrich & Co., J. E., Winneconne, Wis. "Liquid Glass." (For Cement).....	8,819	July 22	100	929
Upmann & Wilcox, Chicago, Ill. "Yankee Flyer." (For Cigars).....	8,923	Jan. 28	98	789
Vail Brothers, Philadelphia, Pa. "Fairmont." (For Almond-Meal).....	9,196	June 3	99	2317
Valaer, Christian, Charlotte, N. C. "Royal Crown Ginger Ale." (For Ginger-Ale).....	9,059	Apr. 1	99	225
Van Deusen, Henry M., Westfield, Mass. "The Great Four Cable Whalebone." (For Whips).....	9,201	June 10	99	2545
Van Deusen, Henry M., Westfield, Mass. "Ti-Ki Rawhide." (For Whips).....	9,202	June 10	99	2545
Van Deusen, Henry M., Westfield, Mass. "The Lincoln." (For Whips).....	9,203	June 10	99	2545
Van Vorhis, Sheridan E., Rochester, N. Y. "Poster Label." (For Pickles, Relishes, and Preserves).....	9,532	Nov. 4	101	1127



*Alphabetical list of registrants of labels—Continued.*

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Van Winkle & Co., Edward, Battlecreek, Mich. "Van Winkle's Medicated Soap." (For Medicated Soap).....	9,438	Sept. 9	100	2381
Van Winkle, J. W., Chicago, Ill. "Chlorothol." (For Anodyne).....	9,384	Feb. 25	98	1703
Victor Talking Machine Co., Camden, N. J. "Victor Record." (For Sound-Records).....	9,325	July 29	100	1109
Victor Talking Machine Co., Camden, N. J. "Monarch Record." (For Sound-Records).....	9,326	July 29	100	1109
Vlasto, Demetrius J., New York, N. Y. "Anglo-Egyptian." (For Cigarettes).....	9,386	Aug. 19	100	1761
Vonderheide, William J., Washington, D. C. "Bob White." (For Whisky).....	9,318	July 22	100	929
Voorhees, C. D., Sonestown, Pa. "Dys-Pip-Cide." (For a Medical Compound).....	8,972	Feb. 18	98	1481
Wabash Baking Powder Company, Wabash, Ind. "Fit for a King." (For Baking-Powder).....	9,288	July 8	100	447
Wahlmann, Louis, (See Greenberg, Berger, and Waldmann.).....				
Walker, Herbert, Chicago, Ill. "Derma Detergent." (For a Complexion Preparation).....	9,028	Mar. 18	98	2359
Wallman, Alice A., New York, N. Y. "Magasin De Modes." (For Pattern-Hats).....	8,905	Mar. 4	98	1659
Wanamaker, John, Philadelphia, Pa. "Dress Goods." (For Dress Goods).....	9,510	Oct. 28	101	885
Watts, Harry H., Kansas City, Mo. "Can't Shake 'Em Off." (For Eyeglasses).....	9,085	Apr. 22	99	839
Weber Varnish Company, Washington, D. C. "Weber's Varnish." (For Varnish).....	9,017	Mar. 11	98	2169
Weeks & Co., O. J., New York, N. Y. "Perfect Water Ice or Sherbet Powder." (For a Powder).....	9,379	Aug. 12	100	1501
Weisberg, Max, Buffalo, N. Y. "Steaplechase." (For Whisky).....	8,960	Feb. 11	98	1279
Weiss, John, Jr., Saginaw, Mich. "The Win." (For Cigars).....	9,433	Sept. 9	100	2381
Werner Bros., Boston, Mass. "Silver Label." (For Machine-Twist).....	8,996	Mar. 4	98	1965
West Baden Springs Water Co., Inc., West Baden, Ind. "West Baden Sprudel Mineral Water." (For Mineral Water).....	9,109	Apr. 29	99	1167
Western Pharmacal Company, Omaha, Nebr. "Dr. Westmal's Coldoids." (For a Medicine).....	8,935	Jan. 28	98	789
Whallen Bros., Louisville, Ky. "Spring Bank Lithia High Ball Splits." (For High-Ball Splits).....	9,283	July 8	100	447
Whallen Bros., Louisville, Ky. "Spring Bank High Ball Splits." (For High-Ball Splits).....	9,284	July 8	100	447
Whallen Bros., Louisville, Ky. "Spring Bank Lithia Cherry Phosphate." (For Cherry Phosphate).....	9,459	Sept. 30	100	3009
Whegn Food Company, York, Pa. "Whegn." (For Food Made from Wheat).....	8,987	Feb. 25	98	1703
White, Mary A., Washington, D. C. "Mrs. White's Hair Grower & Tonic." (For Hair Grower and Tonic).....	9,126	May 6	99	1381
Whitlam, J. C., Cleveland, Ohio. "Lustreine." (For a Cleaning and Polishing Preparation).....	9,072	Apr. 8	99	443
William A. Stickney Cigar Co., St. Louis, Mo. "Stickney's Perfection." (For Cigars).....	9,242	June 17	99	2767
Williams & Bros., J. Meyersdale, Pa. "J. Williams & Bros. Hand Made Original Meyersdale Seed Stogies for Cigars." (For Cigars).....	9,286	July 8	100	447
Williams, James, Lynn, Mass. "The Jay Williams Rheumatic Plaster." (For Plasters).....	9,042	Mar. 25	98	2383
Williams, James, Lynn, Mass. "The Unique Rheumatic Foot Plaster." (For Plasters).....	9,142	May 13	99	1619
Williams, Randall, Leroy, N. Y. "Dr. Randall Williams' Select Prescriptions." (For Medicinal Preparations).....	9,323	Nov. 4	101	1127
Williams, Samuel H., Oakland, Cal. "Children's Hour." (For Syrup).....	9,180	June 3	99	2317
Williams, Samuel H., Oakland, Cal. "Wedding Bells." (For Syrup).....	9,181	June 3	99	2317
Williams, Samuel H., Oakland, Cal. "Jeweled Crown." (For Syrup).....	9,182	June 3	99	2317
Williams, Samuel H., Oakland, Cal. "Masterpiece." (For Syrup).....	9,183	June 3	99	2317
Wineke-Bauernschmidt Co., Baltimore, Md. "Baxter Maryland Rye." (For Whisky).....	9,617	Dec. 16	101	2565
Wineke-Bauernschmidt Co., Baltimore, Md. "Cecil." (For Whisky).....	9,632	Dec. 23	101	2819
Winter, Michael, Orange, N. J. "Orange Brewery Beer." (For Beer).....	9,095	Apr. 22	99	859
Wolf & Sons, M., Chicago, Ill. "Filipin-O-Ketchup." (For Catsup).....	9,436	Sept. 9	100	2381
Wolfson, L., San Antonio, Tex. "White Owl Shoe." (For Shoes).....	9,516	Nov. 4	101	1127
Wood, Albert F., Detroit, Mich. "Satin-Skin Cream." (For a Cosmetic Cream).....	9,040	Mar. 25	98	2583
Wood, Lewis E., Bellingham, Mass. "Cure All Liniment." (For Liniment).....	9,141	May 13	99	1619
Woodman, Charles H., Malden, Mass. "The Two-Bite." (For Chewing-Gum).....	9,018	Mar. 11	98	2169
Woolson Spice Company, Toledo, Ohio. "Pure Spices." (For Spices).....	9,120	May 6	99	1381
Woolson Spice Company, Toledo, Ohio. "Pure Spices." (For Spices).....	9,121	May 6	99	1381
Worcester Salt Co., New York, N. Y. "Worcester Quick Freezing Ice Cream Salt." (For Salt).....	9,171	May 27	99	2909
Young, N. F., Redlion, Pa. "Farmer Boy." (For Cigars).....	9,269	July 1	100	229

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Abbott & Co., C. W., Baltimore, Md. "Abbott's The Original Angostura Bitters." (For Angostura Bitters).....	566	Oct. 21	101	659
Adriance, Platt & Co., Poughkeepsie, N. Y. "The Young Farmers." (For Farm Machinery).....	602	Dec. 30	101	3103
Alexander & Co., W. W., Akron, Ohio. "Alexander." (For a Medicine).....	488	Apr. 29	99	1167
American Cigar Co., Westfield, Mass. "Temptation." (For Cigars).....	534	July 15	100	679
American Lithographic Company, New York, N. Y. "Foot Lift Emerson Gang." (For Plows and Mowers).....	483	Apr. 1	99	225
American Lithographic Company, New York, N. Y. "Emerson Spring Lift Chainless Reaper." (For Reapers and Mowers).....	484	Apr. 1	99	225
American Lithographic Company, New York, N. Y. "Comet Brand." (For Syrup).....	570	Nov. 4	101	1127
American Lithographic Company, New York, N. Y. "Globe Brand." (For Syrup).....	571	Nov. 4	101	1127
American Lithographic Company, Buffalo, N. Y. "Original Foot Lift." (For Plows and Mowers).....	488	Apr. 8	99	443
American Lithographic Company, Buffalo, N. Y. "The First Wireless Telegram." (For a Food).....	503	May 13	99	1619
Armour & Co., Chicago, Ill. "Armour's Star." (For Cured Meats).....	465	Feb. 11	98	1279
Armour Packing Co., Kansas City, Kans. "Helmet Brand Mince Meat Makes Best Pies." (For Mince-Meat).....	599	Dec. 30	101	3103
Armour Packing Company, Kansas City, Kans. "Potted Ham and Tongue. Deviled Ham and Tongue." (For Potted and Deviled Ham and Tongue).....	518	June 17	99	2767
Armour Packing Company, Kansas City, Kans. "Boiled Ham." (For Boiled Ham).....	335	July 15	100	679
Armour Packing Company, Kansas City, Kans. "Vienna Sausage." (For Vienna Sausage).....	540	Aug. 5	100	1327
Atwood Suspender Co., Swanton, Vt. "Atwood Suspender." (For Suspenders).....	507	May 27	99	2099
Bailey, George H., Brooklyn, N. Y. "Domino Dot." (For a Game).....	525	June 24	99	2963
Barker, H. W., Elbow Lake, Minn. "H. W. Barker's Cough Catarrh Consumption Remedy." (For Medicine).....	547	Aug. 12	100	1561
Bernheim Bros., Louisville, Ky. "The Kind Your Grandfather Used." (For Whisky).....	569	Oct. 28	101	885
Binney & Smith, New York, N. Y. "Eclipse Paste." (For Paste).....	500	May 6	99	1381
Booklovers' Library, Philadelphia, Pa. "The Tabard Inn Library." (For Books).....	567	Oct. 21	101	639
Borden's Condensed Milk Co., New York, N. Y. "Has No Equal." (For Condensed Milk).....	474	Mar. 11	98	2169
Borden's Condensed Milk Co., New York, N. Y. "The Market Girl." (For Condensed Milk).....	504	May 13	99	1619
Both, W. C., Chicago, Ill. "Clothing." (For Clothing).....	479	Apr. 1	99	235
Both, W. C., Chicago, Ill. "Spring Clothing and Apparel." (For Clothing).....	489	Apr. 15	99	663
Both, W. C., Chicago, Ill. "Men's Apparel." (For Apparel).....	512	June 3	99	2317
Both, W. C., Chicago, Ill. "Men's and Boys' Apparel." (For Men's and Boys' Apparel).....	555	Sept. 9	100	2381
Both, W. C., Chicago, Ill. "Men's Apparel." (For Men's Apparel).....	562	Oct. 14	101	445
Both, W. C., Chicago, Ill. "Men's Apparel." (For Men's Apparel).....	579	Nov. 25	101	1827
Both, William C., Chicago, Ill. "Clothing." (For Clothing).....	468	Feb. 18	98	1481
Both, William C., Chicago, Ill. "Men's Apparel." (For Men's Apparel).....	524	June 17	99	2767
Both, Wm. C., Chicago, Ill. "Clothing." (For Clothing).....	473	Mar. 11	98	2169
Both, Wm. C., Chicago, Ill. "Men's Apparel." (For Men's Apparel).....	501	May 6	99	1381
Both, Wm. C., Chicago, Ill. "Men's Apparel." (For Men's Apparel).....	506	May 27	99	2099
Both, Wm. C., Chicago, Ill. "Men's Apparel." (For Men's Apparel).....	527	July 1	100	229
Both, Wm. C., Chicago, Ill. "Men's Apparel." (For Men's Apparel).....	532	July 15	100	679
Brown, Forman Co., Louisville, Ky. "Guarding a Good Thing in Arizona." (For Whisky).....	517	June 10	99	2345
Carrom-Archarena Co., Ludington, Mich. "Game Boards & Game Board Equipment." (For Game Boards and Equipments).....	598	Dec. 30	101	3103
Carrom Archarena Company, Ludington, Mich. "Celebrated Game Boards." (For Game Boards and Game-Board Equipments).....	587	Dec. 16	101	2565
Carter's Ink Co., Boston, Mass. "Know all Men by these Presents that Carter's Inks are the Old Reliable Make." (For Inks).....	486	Apr. 8	99	443
Cary, John W., New York, N. Y. "A Peace Offering." (For Silver-Plated Ware).....	564	Oct. 14	101	445
Cleveland & Sandusky Brewing Co., Cleveland and Sandusky, Ohio. "Pleasant Anticipation." (For Beer).....	589	Dec. 16	101	2565
Consolidated Manhattan Suspender Co., New York, N. Y. "Uncle Sam Suspenders." (For Suspenders).....	561	Oct. 7	101	215
Consumers Silk Mills and Coupons Exchange Co., Newark, N. J. "Relda Secret Process." (For Taffeta Silk).....	541	Aug. 12	100	1561
Cotzhausen, Alfred von, Milwaukee, Wis. "Queen of All." (For Beer).....	537	Dec. 23	101	2819
Courthouse, Buffalo, N. Y. "A Thanksgiving Dinner." (For Stock-Food).....	591	Dec. 16	101	2565
Courier Company, Buffalo, N. Y. "Security Stock Food." (For Stock-Food).....	592	Dec. 16	101	2565
Courier Company, Buffalo, N. Y. "Security Poultry Food." (For Poultry-Food).....	593	Dec. 16	101	2565
Courier Company, Buffalo, N. Y. "Security Lice Killer." (For an Insecticide).....	594	Dec. 16	101	2565
Courtney, William P., Oakland, Cal. "Priest's Napa Soda." (For Soda-Water).....	554	Sept. 2	100	2173
Crouse & Branderage, Utica, N. Y. "1902-Fall & Winter-1903." (For Clothing).....	519	June 17	99	2767
Darmstadt German Food Company, Philadelphia, Pa. "Darmstadt German Food." (For Food).....	510	May 27	99	2099
Davidyan, Nathaniel K., Philadelphia, Pa. "Oriental Rug Weaving." (For Rugs and Carpets).....	462	Feb. 11	98	1279
Dougherty & Co., H. L., Philadelphia, Pa. "Dougherty's Sterilized Hair Mattresses." (For Mattresses).....	457	Jan. 28	98	789
Dr. Miles Medical Co., Elkhart, Ind. "Katrina Knickerbocker." (For a Medicine).....	496	Apr. 29	99	1167
Dr. Miles Medical Co., Elkhart, Ind. "Dorothy Quincy." (For a Medicine).....	497	Apr. 29	99	1167
Draud, Alexander, Bay City, Mich. "American Garment Cleaning Company." (For Cleaned Garments).....	450	Jan. 14	98	413
Erdman & Co., Philadelphia, Pa. "Erdman's Absorption Food Satchet." (For an Absorption Food-Sachet).....	494	Apr. 15	99	663
Farquhar & Co., R. & J., Boston, Mass. "Farquhar's Evergreen Lawn Grass Seed." (For Lawn Grass-Seed).....	514	June 3	99	2317
Forbes Litch Mfg. Co., Boston, Mass. "It's Infalible." (For Smokeless Powder).....	601	Dec. 30	101	3103
Frictionless Metal Co., Richmond, Va. "A Cool Bearing." (For Frictionless Bearing Metal).....	551	Aug. 19	100	1761
Frictionless Metal Co., Richmond, Va. "Best on Earth." (For Frictionless Metal).....	552	Aug. 19	100	1761
Gayoso Oil Works, Memphis, Tenn. "Gayoso Brand." (For Cotton-Seed Oil and Cotton-Seed Meal).....	456	Jan. 28	98	789
Gem Distributing Co., Davenport, Iowa. "Dr. Dick's Pecan Oil." (For Medicine).....	459	Feb. 4	98	1020
Geo. A. Schmidt Co., Chicago, Ill. "A Happy Home." (For Soap).....	576	Nov. 18	101	1605



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Globe Chemical Works, Inc., Baltimore, Md. "Clark's Instant Foot Comfort." (For Foot Remedy).....	558	Sept. 30	100	3009
Goodspeed Mfg. Company, Ann Arbor, Mich. "Priscilla." (For Skirt-Fasteners).....	469	Feb. 18	98	1481
Graham Drug Co., New York, N. Y. "Yale Virolets for the Breath." (For a Breath-Perfume).....	511	May 27	99	2699
Grasso, Paride, New York, N. Y. "Paride's Miraculous." (For a Medical Compound).....	556	Sept. 16	100	2599
Gray Lithograph Co., New York, N. Y. "Table Tennis." (For Table Tennis).....	360	Oct. 7	101	215
Gray Lithograph Co., New York, N. Y. "Hanan Shoe." (For Shoes).....	584	Dec. 2	101	2173
Gray Lithograph Co., The New York, N. Y. "The Mirror High Grade Candies." (For Candy).....	573	Nov. 11	101	1367
Gray Lithograph Co., The New York, N. Y. "Palmolive." (For Soap).....	574	Nov. 11	101	1367
Green & Sons, Robt. M., Philadelphia, Pa. "Solid Steel." (For Steel Soda-Water Tanks).....	458	Jan. 28	98	789
H. W. Dudley & Co., Chicago, Ill. "Omar Coffee." (For Coffee).....	578	Nov. 25	101	1827
Hall & Ruckel, New York, N. Y. "Sozodont." (For Dentifrice).....	548	Aug. 12	100	1561
Heller & Benson, Chicago, Ill. "Trustworthy Tailoring." (For Tailor-Made Garments).....	472	Mar. 11	98	2169
Hoyt and Co., E. W., Lowell, Mass. "Hoyt's No. 1 Cologne." (For Cologne).....	463	Feb. 11	98	1279
Hoyt and Co., E. W., Lowell, Mass. "Hoyt's No. 10 Cologne." (For Cologne).....	464	Feb. 11	98	1279
International Harvester Company of America, Chicago, Ill. "McCormick." (For Harvesting-Machines).....	582	Dec. 2	101	2073
J. Ellwood Lee Company, Conshohocken, Pa. "Plasters." (For Plasters).....	482	Apr. 1	99	225
J. Steckler Seed Co., Ltd., New Orleans, La. "Steckler's Mammoth Pecans." (For Pecans).....	481	Apr. 1	99	225
J. C. Schnotter Co., New York, N. Y. "Hygienic Suspensory." (For Suspensory Bandages).....	528	July 1	100	220
J. & P. Baltz Brewing Co., Philadelphia, Pa. "Baltz Bock." (For Bock-Beer).....	487	Apr. 8	99	443
Jameson, M. C., St. Louis, Mo. "I do Love a Domestic." (For Sewing-Machines).....	451	Jan. 14	98	413
John Dewar & Sons, Limited, Perth and Edinburgh, Scotland; Bristol, Manchester, and London, England, and New York, N. Y. "Dewar's Scotch Whisky." (For Whisky).....	546	Aug. 12	100	1561
Kaufmann & Strauss Co., New York, N. Y. "The Modern Landreux." (For Soap).....	549	Aug. 12	100	1561
Ketterlinus Litho. Mfg Co., Philadelphia, Pa. "Hassn't Scratched Yet." (For a Cleaning Material).....	449	Jan. 14	98	413
Kuh, Nathan & Fischer Co., Chicago, Ill. "Drexel Box." (For Overcoats).....	490	Apr. 15	99	663
Kuh, Nathan & Fischer Co., Chicago, Ill. "The Mansfield." (For Overcoats).....	491	Apr. 15	99	663
Kuh, Nathan & Fischer Co., Chicago, Ill. "The Harvard Sack." (For Sack-Coats).....	492	Apr. 15	99	663
Kuh, Nathan & Fischer Co., Chicago, Ill. "The Kenmore Sack." (For Sack-Coats).....	493	Apr. 15	99	663
Kuh, Nathan & Fischer Company, Chicago, Ill. "The Special." (For Overcoats).....	542	Aug. 12	100	1561
Kuh, Nathan & Fischer Company, Chicago, Ill. "The Beaucaire." (For Overcoats).....	543	Aug. 12	100	1561
Kuh, Nathan & Fischer Company, Chicago, Ill. "The Prince Henry." (For Overcoats).....	544	Aug. 12	100	1561
Kuh, Nathan & Fischer Company, Chicago, Ill. "The Dip Sack." (For Sack Suits).....	545	Aug. 12	100	1561
Lanahan & Son, William, Baltimore, Md. "The First Over the Bars, Hunter Baltimore Rye." (For Whisky).....	559	Oct. 7	101	215
Lepper, John J., Milwaukee, Wis. "The Greatest Corn Cure on Earth." (For a Corn Cure).....	600	Dec. 30	101	3103
Lexington Toy Bird Co., Lexington, Ky. "The Boy and the Flying Bird." (For a Toy Flying-Bird).....	478	Mar. 25	98	2583
Libby, McNeill & Libby, Chicago, Ill. "California Peppers." (For Food Products).....	583	Dec. 2	101	3073
Liebig Extract Company, New York, N. Y. "Liebig's." (For Beef-Tea).....	466	Feb. 11	98	1273
Love, Henry M., Wilmington, Del. "See That Flare." (For Women's Underwear).....	520	June 17	99	2767
Love, Henry M., Wilmington, Del. "See That Flare." (For Women's Underwear).....	521	June 17	99	2767
Love, Henry M., Wilmington, Del. "See That Flare." (For Women's Underwear).....	522	June 17	99	2767
Love, Henry M., Wilmington, Del. "See That Flare." (For Women's Underwear).....	523	June 17	99	2767
Malt Too Flake Food Co., Ltd., Battlereck, Mich. "Malt-Too." (For Cereal Food).....	526	June 24	99	2963
Mann & Sons, J., Baltimore, Md. "High Grade Perfect Fitting." (For Clothing).....	477	Mar. 18	98	2359
Masurite Explosive Company, New York, N. Y. "We Sell Masurite Safe Explosive." (For an Explosive).....	539	Aug. 5	100	1327
Mathushek Piano Mfg. Co., Orange, Conn. "At the Top—Mathushek Pianos." (For Pianos).....	533	Sept. 2	100	2173
McCormick Harvesting Machine Company, Chicago, Ill. "McCormick." (For Harvesting-Machines).....	460	Feb. 4	98	1029
McCormick Harvesting Machine Company, Chicago, Ill. "McCormick." (For Harvesting-Machines).....	461	Feb. 4	98	1029
McLaughlin Brothers, New York, N. Y. "A Combination Game." (For Game Apparatus).....	536	July 29	100	1109
Meier & Schuknecht, Detroit, Mich. "Meier & Schuknecht." (For Trunks, Grips, and Valises).....	509	May 27	99	2099
Meyer-Both & Co., Chicago, Ill. "Ladies' Apparel." (For Ladies' Apparel).....	568	Oct. 14	101	445
Meyer, Both & Co., Chicago, Ill. "Ladies' Apparel." (For Ladies' Apparel).....	568	Oct. 28	101	885
Meyer, Both & Co., Chicago, Ill. "Ladies' Apparel." (For Ladies' Apparel).....	595	Dec. 23	101	2819
Meyers Brothers Drug Co., St. Louis, Mo. "St. Louis Souvenir Playing Cards." (For Playing-Cards).....	445	Jan. 7	98	223
Mitchell, Edward H., San Francisco, Cal. "Oregon Souvenir Playing Cards." (For Playing-Cards).....	485	Apr. 8	99	443
Naillita Company, New York, N. Y. "Naillita." (For a Cleaning Preparation).....	529	July 1	100	229
National Biscuit Co., New York, N. Y. "Nabisco." (For Biscuits).....	480	Apr. 1	99	225
National Starch Company, New York, N. Y. "Balanced Rations for Feeding Beet Pulp." (For Feeds and Feeding Stuffs).....	467	Feb. 11	98	1279
New York Consolidated Card Co., New York, N. Y. "Vestibule Limited." (For Playing-Cards).....	454	Jan. 21	98	579
Pabst Brewing Company, Milwaukee, Wis. "Brings the Roses to Your Cheeks." (For Malt Extract).....	590	Dec. 16	101	2565
Pratt Food Co., Philadelphia, Pa. "Pratts Official Chart Different Breeds of Horses." (For a Food).....	475	Mar. 11	98	2189
Pratt Food Company, Philadelphia, Pa. "Pratts Foods Independence Hall in 1776." (For Animal and Poultry Foods).....	565	Oct. 21	101	659
Pretzinger & Bro., E., Dayton, Ohio. "Pretzinger's Catarrh Balm." (For Catarrh Remedy).....	513	June 3	99	2317
Quinn & Co., K. J., Boston, Mass. "Zapha." (For Shoe-Polish).....	538	Aug. 5	100	1327
Ransom and Randolph Co., Toledo, Ohio. "The Ransom & Randolph Co." (For Artificial Teeth).....	495	Apr. 29	99	1167
Reynolds, R. D., Greenspring, Ohio. "Greenspring Water." (For Spring-Water).....	585	Dec. 9	101	2383
Rothschild Bros. Hat Co., St. Louis, Mo. "Our Brands." (For Hats).....	502	May 6	99	1381
Rowe, Daniel H., Toledo, Ohio. "20th Century Complexion Beautifier." (For a Toilet Preparation).....	505	May 13	99	1619
Runkel Bros., New York, N. Y. "Chocolat des Marquises." (For Chocolate).....	499	May 6	99	1381
Rutledge, George, New York, N. Y. "Wine that Maketh Glad the Heart of Man." (For Champagne).....	350	Aug. 19	100	1761
Saadi, John, Brooklyn, N. Y. "The 20th Century Egyptian Diamonds." (For Egyptian Diamonds).....	586	Dec. 9	101	2283
Schmidt Bros. Company, Chicago, Ill. "Schmidt Bros. Co. Chicago." (For Paints and Hard-wares).....	515	June 3	99	2317
Seiter & Kappes, New York, N. Y. "Wright's Health Underwear." (For Underwear).....	557	Sept. 30	100	3009
Shaw-Goding Shoe Co., Springvale, Me. "The Vicerine \$2.50 Shoe." (For Shoes).....	533	July 15	100	679
Sheppard & Meyers Company, Hanover, Pa. "The Hanover Shoe." (For Shoes).....	588	Dec. 16	101	2565
T. B. Dunn Co., Rochester, N. Y. "Sen Sen." (For Sen-Sen Products).....	471	Mar. 4	98	1965
Tait, David W., Philadelphia, Pa. "Climax." (For Nose-Guards).....	508	May 27	99	2099
Trowbridge Chocolate Chip Co., Meadville, Pa. "Trowbridge's Chocolate Chips." (For Chocolate Chips).....	531	July 8	100	447

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Uncle Sam Shoemakers, Boston, Mass. "The Uncle Sam Shoe." (For Shoes).....	530	July 8	100	447
Union File & Binder Company, Chicago, Ill. "This is Not Ours." "This is Ours." (For Loose-Leaf Binders).....	516	June 10	99	2545
United Cigar Manufacturers, New York, N. Y. "Owl Cigar Co." (For Cigars).....	577	Nov. 25	101	1827
United States Playing Card Co., Cincinnati, Ohio. "Napoleon Back, No. 606, Congress Playing Cards." (For Playing-Cards).....	446	Jan. 14	98	413
United States Playing Card Co., Cincinnati, Ohio. "Martha Washington Back, No. 606, Congress Playing Cards." (For Playing-Cards).....	447	Jan. 14	98	413
United States Playing Card Co., Cincinnati, Ohio. "Josephine Back, No. 606, Congress Playing Cards." (For Playing-Cards).....	448	Jan. 14	98	413
United States Playing Card Co., Cincinnati, Ohio. "The Minuet Back No. 606 Congress Playing Cards." (For Playing-Cards).....	452	Jan. 21	98	579
United States Playing Card Co., Cincinnati, Ohio. "The Hunt Back No. 606 Congress Playing Cards." (For Playing-Cards).....	453	Jan. 21	98	579
United States Playing Card Co., Cincinnati, Ohio. "The Hawaiian Souvenir Playing Cards." (For Playing-Cards).....	455	Jan. 21	98	579
United States Playing Card Company, Cincinnati, Ohio. "Automobile Bicycle Playing Cards." (For Playing-Cards).....	575	Nov. 18	101	1605
United States Playing Card Company, Cincinnati, Ohio. "Music Hath Charms Back No. 606 Congress Playing Cards." (For Playing-Cards).....	580	Dec. 2	101	2073
United States Playing Card Company, Cincinnati, Ohio. "Anticipation Back No. 606 Congress Playing Cards." (For Playing-Cards).....	581	Dec. 2	101	2073
Vogel & Son, Wm., New York, N. Y. "Our Concave Shoulder." (For Clothing).....	572	Nov. 11	101	1367
Vogt, Gustave, Limoges, France. "Fine and Choice French China Ware." (For Chinaware).....	476	Mar. 18	98	2359
White Top Champagne Co., Pultney, N. Y. "A Winning Pair." (For Wine).....	470	Feb. 25	98	1708
Wineke-Bauernschmidt Co., Baltimore, Md. "Cecil." (For Whisky).....	596	Dec. 23	101	2819
World's Dispensary Medical Association, Buffalo, N. Y. "Dr. Pierce's Favorite Prescription." (For Medicine and Soda).....	536	July 22	100	929

## DISCLAIMERS.

Name, residence, and invention.	No.	Filed.	Official Gazette.	
			Volume.	Page.
Avery, Henry W., Cleveland, Ohio; disclaimer filed by patentee and assignee. Seat for harvesters or the like.....	683,675	June 30, 1902	100	238
Baker, Malcolm H., New York, N. Y.; disclaimer filed by assignee. Method of regulating electric circuits.....	684,165	Feb. 14, 1902	98	1490
Baker, Malcolm H., New York, N. Y.; disclaimer filed by assignee. Regulating device for arc-lamp circuits.....	684,340	Feb. 14, 1902	98	1489
Baur, Albert, Gispersleben, near Erfurt, Germany; disclaimer filed by assignee. Artificial musk.....	451,847	Feb. 21, 1902	98	1712
Hall, Samuel, East Orange, N. J.; disclaimer filed by assignee. Imitation press-copied letters.....	423,558	Oct. 21, 1902	101	667
Harkness, Charles A., Providence, R. I.; disclaimer filed by assignees. Elevator.....	553,157	Jan. 2, 1902	98	1
Kull, Albert L., Camden, N. J.; disclaimer filed by patentee. Speed-regulator for explosive-engines.....	690,443	Mar. 15, 1902	98	2367
Pickett, Arthur B., Union City, Ohio; disclaimer filed by assignee. Bowling-ball.....	673,688	Jan. 3, 1902	98	231
Rogers, William, Leechburg, Pa.; disclaimer filed by executor and assignees. Manufacturing tin-plate.....	604,195	June 23, 1902	109	1
Tillinghast, Pardon W., Providence, R. I.; disclaimer filed by assignee. Pneumatic tire.....	497,971	Jan. 8, 1902	98	231
Westinghouse, George, Jr., and Frank Moore, Pittsburg, Pa.; disclaimer filed by assignee. Engineer's brake-valve.....	401,916	June 19, 1902	99	2775





# ALPHABETICAL LIST OF INVENTIONS.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.
				Specification.	Drawing.	
						Volume. Page.
Abdominal and back supporter.....	H. C. and L. C. Rash.....	708,402	Sept. 2	725	163	100 2128
Abdominal bandage.....	E. L. Abbott.....	698,426	Apr. 20	3799	839	99 869
Abdominal support.....	I. E. Palmer.....	697,164	Apr. 8	1468	329	99 331
Abdominal supporting-bandage.....	M. T. Barnett.....	706,715	Aug. 12	1371	306	100 1412
Abbrading mechanism.....	J. M. Nash.....	707,621	Aug. 26	3101	699	100 1806
Abbrading-tool.....	W. M. Rockstroh.....	699,242	May 6	187	47	99 1214
Absorbent preparations. Making mineral.....	A. G. Saunders.....	710,521	Oct. 7	249	.....	101 50
Absorptive wadding. Preparing.....	H. Linnekogel.....	712,818	Nov. 4	665	.....	101 1034
Accordion.....	J. Golob.....	709,671	Sept. 23	8329	720 721 722	100 2691
Account device. Manifolding.....	C. Ormsby.....	696,584	Apr. 1	340	81	99 75
Accounts. System of devices for keeping hotel.....	J. Willy.....	700,465	May 20	2648	607	99 1752
Accounts. System of keeping.....	E. R. Edwards.....	690,708	Jan. 7	659	144 145	98 139
Accounting appliance. Credit.....	P. A. McCaskey.....	717,247	Dec. 30	5177	1122	101 2995
Accumulator.....	G. de Roussy de Sales and F. Gueugnon.....	696,496	Apr. 1	180	44	99 43
Accumulator.....	J. B. Rein.....	711,122	Oct. 14	1381	300	101 300
Accumulator.....	F. N. Blanc.....	715,843	Dec. 9	1328	286	101 2127
Accumulators. Charging.....	R. E. Ball.....	697,192	Apr. 8	1520	340	99 343
Accumulators. Means for charging.....	R. E. Ball.....	697,193	Apr. 8	1523	340	99 343
Acet salicyl phenetidin and making same.....	S. L. Summers.....	706,355	Aug. 5	702	.....	100 1258
Acet salicyl phenetidin and making same.....	S. L. Summers.....	706,356	Aug. 5	703	.....	100 1258
Acetone. Making.....	J. L. Hawliczek.....	690,724	Jan. 7	708	156	98 149
Acetyl chlorid. Making.....	A. Wohl.....	710,648	Oct. 7	480	.....	101 97
Acetylene-generator safety-lock.....	W. C. Homan.....	716,419	Dec. 23	3447	752	101 2601
Acid and making same. Alkylloxymethyl ester of salicylic.....	J. Calsen.....	706,018	Aug. 5	24	.....	100 1121
Acid and making same. Indigo-diacetic.....	P. Seidel.....	699,581	May 6	861	.....	99 1352
Acid and making same. Metallic salts of methylene disalicylic.....	S. L. Summers.....	716,593	Dec. 23	3811	.....	101 2679
Acid and making same. Methylene citric.....	W. Sternberg.....	699,422	May 6	573	.....	99 1293
Acid and making same. Methylene di-aceto di-salicylic.....	S. L. Summers.....	707,178	Aug. 19	2257	.....	100 1613
Acid and making same. Methylene disalicylic.....	S. L. Summers.....	706,354	Aug. 5	701	.....	100 1258
Acid and making same. Paramethyl-amidophenylglyoxylic.....	F. Ach.....	708,511	Sept. 9	925	.....	100 2181
Acid and making same. Polyamidoanthraquinone sulfo.....	E. Hepp.....	711,310	Oct. 14	1767	.....	101 383
Acid and sulfur anhydrid. Making sulfuric.....	C. Krauss and R. M. von Berneck.....	700,512	May 20	2750	629	99 1773
Acid. Apparatus for concentrating sulfuric.....	A. Zanner.....	698,635	Feb. 18	2704	597	98 1402
Acid. Apparatus for making sulfuric.....	A. M. G. Sébillot.....	700,249	May 20	2221	508	99 1666
Acid. Apparatus for making sulfurous.....	W. Wenzel.....	704,412	July 8	1947	422	100 409
Acid. Apparatus for manufacturing sulfurous.....	J. Edmunds.....	711,485	Oct. 21	2092	453	101 464
Acid. Apparatus for the manufacture of concentrated sulfuric.....	W. R. Quinan.....	699,011	Apr. 29	4971	1100	99 1121
Acid by the contact process. Apparatus for making sulfuric.....	G. C. Stone.....	711,186	Oct. 14	1532	328	101 333
Acid ester of methylene diguaiacol and making same. Camphoric.....	S. L. Summers.....	707,278	Aug. 19	2449	.....	100 1654
Acid ester of paracresol and making same. Oxalic.....	L. Kahl.....	711,572	Oct. 21	2369	.....	101 500
Acid ether of cinchona alkaloids. Succinic.....	H. Thron.....	696,076	Apr. 1	390	.....	99 86
Acid ethers of the cinchona alkaloids. Anisic.....	H. Thron.....	695,591	Mar. 15	2361	.....	98 2243
Acid. Extracting ellagic.....	A. Heinemann.....	706,411	Aug. 5	826	.....	100 1281
Acid from galvanizing-works. Treatment of spent.....	C. H. Howard and G. Hadley.....	715,804	Dec. 16	2206	.....	101 2324
Acid from sulfur dioxide in aqueous solution by electrolysis. Manufacturing sulfuric.....	E. B. Jacobs.....	704,831	July 15	2733	591	100 585
Acid from water. Removing sulfuric.....	H. Reiser.....	713,800	Nov. 18	2584	.....	101 1462
Acid. Making acetic.....	P. Boessneck.....	713,748	Dec. 16	2089	468	101 2302
Acid. Making formylmethylantranilic.....	F. Von Bolzano.....	712,246	Oct. 28	3560	.....	101 784
Acid. Making hydrochloric.....	E. Hart.....	698,704	Apr. 29	4393	969	99 996
Acid. Manufacturing sulfuric.....	N. P. Pratt.....	715,142	Dec. 2	945	203	101 2029
Acids. Making alkyl ethers of cinchona-alkaloid carbonic.....	H. Thron.....	701,523	June 3	426	.....	99 2196
Acids. Making phthalic and benzoic.....	A. Bischler.....	708,171	June 10	1611	.....	99 2458
Acids. Making polyamidoanthraquinone-sulfo.....	E. Hepp.....	713,322	Nov. 11	1864	.....	101 1297
Acids of niter cake. Recovering free and combined.....	L. Cheeseman, Sr.....	714,145	Nov. 25	3261	.....	101 1623
Acids of the fatty-acid series. Making.....	H. von Hochstetter.....	714,494	Nov. 25	3916	866	101 1753
Acids or acid salts. Clearing fluids containing free.....	H. Kaserer.....	713,646	Nov. 18	2301	.....	101 1400
Acids. Separating sulfonic.....	L. O. Helmers.....	709,321	Sept. 16	2528	.....	100 2533
Acidyl derivative of unsymmetrical acetonealkamins and making same.....	C. Harries.....	692,656	Feb. 4	771	.....	98 957
Acidyl dialkylrhodamin and making same.....	C. Hoffmann.....	694,149	Feb. 25	3679	.....	98 1617
Adding and listing machine.....	W. P. Shattuck.....	717,126	Dec. 30	4916 1065 1066 1067	.....	101 2938
Adding and subtracting machine.....	W. A. Day.....	695,415	Apr. 1	44	10	99 13
Adding device.....	H. A. Smith.....	700,448	May 20	2616	598	99 1745



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Adding-machine	W. A. Lanckton	695,217	Mar. 11	1689	375	98	2085
Adding-machine	A. Hoch	696,173	Mar. 25	3468	777	98	2484
Adding-machine	C. H. Platt	696,481	Apr. 1	160	38, 39	99	39
Adding-machine	D. J. T. Hiatt	699,320	May 6	355	83 84 85 86	99	1246
Adding-machine	E. Fitch	702,052	June 10	1384	314 315	99	2409
Adding-machine	E. Wiswall	703,330	June 24	3766	867	99	2936
Adding-machine	A. C. Schuman	704,938	July 15	2988	640 641	100	641
Adding-machine	J. L. Levin	706,000	July 29	5143	1122	100	1101
Adding-machine	H. Ellis and N. W. Perkins, Jr.	707,309	Aug. 19	2499	561 562 563	100	1665
Adding-machine	E. Fitch	709,477	Sept. 23	2862	613 644	100	2614
Adding-machine	M. Garrison	711,392	Oct. 14	1912	416	101	413
Adding-machine	F. E. Coffeen	714,151	Nov. 25	3294	728	101	1631
Adding-machine duplicate printing mechanism	D. E. Felt	693,958	Feb. 25	3315	728	98	1548
Adding or subtracting rule	N. H. Kodama	711,252	Oct. 14	1652	356	101	358
Address holder. Changeable.	D. E. Werts	713,030	Nov. 4	1053	245	101	1112
Addressing and assorting newspapers, magazines, &c. Machine for	L. A. Agnew	713,272	Nov. 11	1566	355 356	101	1232
Addressing-machine	M. P. Kenna	696,054	Mar. 25	3205	724	98	2429
Addressing-machine	F. D. Belknap	699,742	May 13	1178	274 421	99	1429
Addressing-machine	S. Elliott	714,789	Dec. 2	276	58, 59	101	1893
Addressing-machine	S. Elliott	714,790	Dec. 2	278	59, 60	101	1894
Adhesive	W. A. Hall	695,926	Mar. 25	2964	—	98	2379
Adhesive	A. S. Hoyt	709,544	Sept. 23	3019	—	100	2648
Adhesive fastener	A. Haberstroh	698,514	Feb. 18	2456	538	98	1351
Adhesive material to paper. Machine for applying	C. W. Hobbs	694,749	Mar. 4	791	176	98	1879
Adjustable-back chair	J. F. Walton	705,171	July 22	3472	755	100	752
Adjustable brace	H. E. Wallis	711,916	Oct. 21	2941	647	101	643
Adjustable brace or support for movable structures.	J. G. Rossman	705,707	July 29	4631	1008	100	996
Adjustable bracket	P. H. Gardner and F. E. Van Doorn	693,127	Feb. 11	1694	370	98	1173
Adjustable chair	J. E. Archambeault	711,412	Oct. 14	1941	422 423	101	419
Adjustable chair. Automatic	T. M. McKee and S. B. Saffell	706,991	Aug. 12	1891	424	100	1519
Adjustable frame for holding articles.	M. Norden	710,797	Oct. 7	778	166	101	159
Adjustable furnace	R. Halley	707,104	Aug. 19	2115	472 473	100	1583
Adjustable hanger	C. L. Olmstead	703,709	July 1	615	137	100	122
Adjustable screen	W. N. Rumely	694,496	Mar. 4	289	66	98	1773
Adjustable seat	D. M. Haverly and E. G. Solomon	714,570	Nov. 25	3721	819	101	1716
Adjustable seat and desk	J. W. Johnston	703,792	July 1	774	169	100	135
Adjustable stand	G. A. Wadsworth	704,603	July 15	2315	502	100	499
Adjustable stand for mirrors, tables, &c	H. A. Seymoure	696,951	Mar. 25	3007	680	98	2388
Adjustable stand or support	G. L. Marsolais	694,401	Mar. 4	127	28	98	1739
Adjustable switch	E. W. Harden, W. H. Rabbe, and M. E. Dempsey.	712,062	Oct. 28	3243	710	101	721
Adjustable switch	W. H. Rabbe, E. W. Harden, and M. E. Dempsey.	712,092	Oct. 28	3293	722	101	730
Adjustable table or desk	E. Lindner	697,639	Apr. 15	2345	523	99	528
Adjustable wrench	F. W. Brown	699,072	Apr. 29	5071	1121	99	1142
Adjusting compound-wound generator	C. P. Steinmetz	713,523	Nov. 11	2068	463	101	1338
Adjusting compound-wound generator	C. P. Steinmetz	713,574	Nov. 11	2164	484	101	1356
Advertisement-displaying apparatus	691,840	Jan. 28	2806	630	98	635	
Advertisement-displaying apparatus	R. J. Wood	690,054	Apr. 29	5042	1115	99	1137
Advertising and selling machine	A. C. Guernsey	698,702	Apr. 29	4389	983	99	985
Advertising apparatus	J. Lynn	712,694	Nov. 4	422	99 100	101	985
Advertising, &c. Apparatus for.	J. A. Watson and W. H. Rose	714,889	Dec. 2	383	82	101	1912
Advertising apparatus. Illuminated	W. Schell, Jr	715,159	Dec. 2	975	211	101	2036
Advertising article	V. Kost	717,418	Dec. 30	5479	1188	101	3657
Advertising-bottle. Postal	W. D. Lytle	695,474	Apr. 18	2414	546	98	1923
Advertising bottle or flask	J. I. Vogler	716,738	Dec. 23	4167	914	101	2753
Advertising device	A. C. Huckstepp	691,703	Jan. 21	2518	563 564	98	560
Advertising device	R. W. Vining	692,950	Feb. 11	1355	294 295	98	1104
Advertising device	J. S. Druar and J. G. Kreger	697,240	Apr. 8	1595	358	99	358
Advertising device	J. E. Church and G. W. Reynolds	697,397	Apr. 8	1838	542	99	1625
Advertising device	C. F. Scheil	690,718	May 13	1132	265	99	1420
Advertising device	H. L. Beach	701,249	May 27	4129	950	99	2077
Advertising device	A. Washington and M. Standiford	703,102	June 24	3366	772 773	99	2853
Advertising device	C. E. Johnson	705,090	July 22	3305	719	100	718
Advertising device	W. D. Butt	706,525	Aug. 12	1088	228	100	1340
Advertising device	W. D. Butt	707,295	Aug. 19	2507	516	100	1625
Advertising device	W. D. Butt	709,406	Sept. 23	2841	638	100	2610
Advertising device	E. Steinhäuser	710,814	Oct. 7	807	174	101	165
Advertising device	C. E. Whitney	712,223	Oct. 28	3522	772	101	775
Advertising device	J. F. Smiley	715,886	Dec. 16	2385	528	101	2364
Advertising device. Wind-actuated	C. G. Cribbs and F. M. Allerton	704,002	July 8	1172	255	100	249
Advertising display device	D. Jones	710,135	Sept. 30	4298	963	100	2320
Advertising match-box and cigar-tip cutter. Combined	W. R. Moore	706,987	Aug. 12	1885	421	100	1518
Advertising novelty	J. L. Kellogg	695,059	Mar. 11	1389	305	98	2023
Advertising purposes. Moving model for	E. J. Bourke	692,604	Feb. 4	688	160	98	939
Advertising street and station indicator	J. H. Shepard	692,923	Feb. 11	1289	283	98	1092

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. E.	Vol.	Page.
Advertising-wagon.....	J. Leighton.....	696,907	Apr. 1	990	221	99	209
Aerated liquid dispensing apparatus.....	W. Hucks, Jr.....	695,314	Mar. 11	1865	415	98	2120
Aerated liquids. Apparatus for dispensing.....	W. Hucks, Jr.....	709,407	Sept. 10	2711	608	100	2571
Aerated liquids on draft. Apparatus for supplying.....	S. A. Jackson and L. Lang.....	692,292	Feb. 4	134	81	98	826
Aerated waters on draft. Apparatus for serving.....	J. P. Jackson.....	708,714	Sept. 9	1395	295	100	2255
Aerating-agitator.....	B. D. Hooper.....	708,229	Sept. 2	433	99	100	2070
Aerating-agitator.....	B. D. Hooper.....	716,840	Dec. 23	4367	947	101	2806
Aerating or agitating liquids. Apparatus for.....	H. E. Dolphin.....	699,294	May 6	311	71, 72	99	1238
Aerating wort and improving the quality of yeast. Apparatus for.....	M. Wallerstein and H. H. Freund.....	692,170	Jan. 28	3383	706	98	751
Aeration of liquids.....	F. G. Hampson.....	715,575	Dec. 9	1760	390 391 424	101	2212
Aeration of liquids.....	F. G. Hampson and H. Swales.....	715,658	Dec. 9	1899	435 436	101	2241
Aerator. Milk.....	L. E. Morgal.....	694,296	Feb. 25	3962	838	98	1674
Aerator. Milk.....	G. W. Look.....	695,570	Mar. 18	2331	527	98	2236
Aeroplane.....	S. J. Conyne.....	698,634	Apr. 29	4209	929	99	951
Aeroplane.....	T. Gibon.....	710,266	Sept. 30	4102	991 992	100	2950
Aeroplane-covering.....	I. Lancaster.....	706,832	Aug. 12	1614	352 363	100	1465
Aging apparatus.....	C. C. Hebdon.....	694,640	Mar. 4	581	128	98	1835
Aging or treating spirits.....	R. C. Scott.....	704,389	July 8	1910	414	100	403
Agitating and separating articles. Apparatus for.....	H. B. Arnold.....	716,979	Dec. 30	4647	1007	101	2880
Agitator.....	H. M. Martinson.....	708,058	Sept. 2	111	26	100	2004
Agricultural implement.....	E. G. Bowman.....	694,088	Feb. 25	3579	791	98	1596
Agricultural implement.....	D. Lubin.....	717,520	Dec. 30	5650	1226	101	3092
Agricultural machine. Power-operated.....	D. Lubin.....	717,232	Dec. 30	5150	1116 1117	101	2989
Agricultural-machine steering device.....	C. F. Grohmann.....	694,010	Feb. 25	3435	757	98	1567
Agricultural machinery.....	J. Clark.....	693,999	Feb. 25	3415	752	98	1563
Agricultural rake.....	A. R. Black.....	711,933	Oct. 28	2982	656	101	671
Agricultural tool.....	D. Lubin.....	715,099	Dec. 2	874	186	101	2015
Agricultural-tool handle.....	J. C. Smith.....	711,791	Oct. 21	2686	532	101	590
Agricultural utensil.....	E. M. Grummt.....	700,192	May 20	2103	481	99	1641
Air and explosive engine. Combined.....	R. Lundell.....	691,788	Jan. 28	2707	609	98	616
Air and gas mixer.....	J. Seymour.....	704,764	July 15	2595	562	100	557
Air and gas mixer.....	G. W. Hinman.....	715,800	Dec. 16	2195	491	101	2822
Air and gas mixing and supplying apparatus.....	C. H. Burrows.....	694,611	Mar. 4	533	116	98	1826
Air and hydrocarbon. Apparatus for supplying.....	W. N. Best.....	702,529	June 17	2260	515	99	2611
Air and vapor motor. Combination.....	A. McCahon.....	702,030	Sept. 16	1955	448	100	2410
Air-blast apparatus.....	J. M. Tyler.....	694,588	Mar. 4	480	104	98	1815
Air-brake.....	C. A. Seley.....	694,328	Feb. 25	4085	909	98	1691
Air-brake.....	P. W. Vogt.....	695,771	Mar. 18	2664	606	98	2303
Air-brake.....	J. E. Normand.....	697,003	Apr. 8	1186	266 267	99	271
Air-brake.....	D. Beemer.....	701,988	June 10	1264	287	99	2386
Air-brake.....	F. A. McKelvey.....	706,252	Aug. 5	478	101 869 870	100	1213
Air-brake.....	J. E. Norman. (Reissue).....	12,047	Oct. 28	3975	780	101	872
Air-brake.....	J. B. Briggs, Jr.....	712,249	Oct. 28	3563	780	101	785
Air-brake.....	C. W. Cawley, Jr.....	713,950	Nov. 18	2904	645	101	1528
Air-brake.....	B. W. Smith.....	714,826	Dec. 2	347	76, 77	101	1907
Air-brake air-compressor.....	E. J. Denman.....	712,508	Nov. 4	51	21	101	913
Air-brake and slack-adjusting mechanism. Combined.....	J. M. Craig and W. H. Buck.....	716,196	Dec. 16	3017	658 659	101	2499
Air-brake apparatus.....	W. L. Clark.....	701,796	June 3	917	205	99	2300
Air-brake apparatus.....	E. P. Donnelly.....	704,737	July 15	2543	550	100	547
Air-brake attachment.....	T. C. Mason.....	705,415	July 22	4016	869	100	863
Air-brake attachment.....	A. L. Tibbitts.....	706,363	Aug. 5	711	155	100	1280
Air-brake. Automatic.....	G. T. Woods.....	701,981	June 10	1246	285	99	2864
Air-brake connection.....	W. Neil.....	701,272	May 27	4176	959	99	2085
Air-brake coupling. Automatic.....	C. H. Seitz.....	701,628	June 3	641	140	99	2242
Air brake for railways. Compressed.....	L. Kirchner.....	715,585	Dec. 9	1780	395	101	2217
Air-brake mechanism.....	W. H. Sauvage.....	703,480	July 3	316	44	100	39
Air-brake operating mechanism. Compressed.....	J. Lipkowski.....	698,874	Feb. 25	3147	676	98	1684
Air-brake order system. Automatic.....	D. W. Jewell.....	708,828	Aug. 12	1606	361	100	1463
Air-brake pistons. Holding-tool for.....	J. Korinek.....	696,453	Apr. 1	109	25	99	28
Air-brake. Railway-car.....	F. M. Kreitz.....	701,205	May 27	4050	931	99	2063
Air-brake-setting devices. Track-clearer for.....	F. L. Doddson.....	716,873	Dec. 30	4441	963	101	2838
Air-brake signaling and releasing device.....	F. H. Dukessmith.....	712,915	Nov. 4	851	197 198	101	1071
Air-brake system.....	T. H. Van Dyke.....	699,948	Feb. 11	1351	294	98	1103
Air-brake system.....	A. Brüggemann.....	694,525	Mar. 4	368	81	98	1791
Air-brake system.....	W. G. MacLaughlin.....	705,592	July 29	4423	959	100	955
Air-brake system.....	P. Whiting.....	712,877	Nov. 4	773	179 180	101	1056
Air-brake system. Continuous automatic.....	E. L. Gosse.....	701,327	June 3	88	18, 19	99	2128
Air-brake system. Continuous automatic.....	E. L. Gosse.....	701,328	June 3	92	19	99	2128
Air-brake system. Automatic safety-lock for.....	W. H. Christ.....	710,322	Oct. 7	250	56	101	50
Air-brake-testing apparatus.....	G. N. Saum and M. Mercatoris.....	702,679	June 17	2551	566	99	2671
Air-brake triple cylinders. Truing device for.....	E. M. Barnes.....	714,631	Nov. 25	4197	928	101	1810
Air-brakes. Quick-action automatic release mechanism for.....	L. Krimmelbein.....	715,088	Dec. 2	849	181 182	101	2010
Air cleansing and cooling device.....	J. McCreery.....	701,074	May 27	3803	873	99	2011
Air-compressing apparatus.....	J. H. Burdick.....	692,424	Feb. 4	353	57	98	873
Air-compressing apparatus.....	S. P. Howe and S. M. Vaulain, Jr.....	694,280	Feb. 25	3938	876	98	1684
Air-compressing apparatus.....	E. J. St. Croix.....	709,520	Sept. 23	2978	664	100	2640
Air-compressing device.....	H. H. Bullard.....	713,848	Nov. 18	2669	505	101	1478
Air-compressor.....	D. O'Connell.....	694,885	Mar. 4	1056	294	98	1335
Air-compressor.....	F. L. Reeder and A. B. Freville.....	697,414	Apr. 8	1932	430	99	429
Air-compressor.....	G. W. Rhine.....	699,570	May 6	825	194	99	1346



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Prin.	Vol.	Page.
Air-compressor .....	E. Hill .....	700,927	May 27	3548	815	99	1956
Air-compressor .....	G. H. Abrams .....	706,871	Aug. 12	1688	816	100	1479
Air-compressor .....	W. J. Stevens .....	709,832	Sept. 23	3540	798	100	2756
Air-compressor .....	F. W. Gruschow .....	711,708	Oct. 21	2512	552	101	553
Air compressor and cooler .....	O. P. Ostergren .....	694,299	Feb. 25	3967	883	98	1675
Air compressor and intercooler .....	W. B. Cowles .....	699,388	May 6	301	40	99	1296
Air-compressor. Compound .....	G. E. Martin .....	706,979	Aug. 12	1871	1418	100	1515
Air-compressor. Hydraulic .....	J. Weyand .....	698,236	Apr. 22	3476	764	99	786
Air-compressor. Hydraulic .....	W. J. Linton .....	704,059	July 8	1274	276	100	267
Air-compressor regulating device .....	H. C. Sergeant and W. Prellwitz .....	696,504	Apr. 1	192	46, 47	99	45
Air-compressor regulator .....	W. Prellwitz .....	710,712	Oct. 7	600	125	101	123
Air-compressors. Automatic regulator for hydraulic .....	C. M. W. Smith .....	705,460	July 22	4007	801	100	879
Air-conducting pipe .....	F. Line .....	696,059	Mar. 25	3215	726	98	2431
Air-conducting tube .....	F. Line .....	690,744	Jan. 7	741	164	98	156
Air cooling and agitating apparatus .....	E. F. Porter .....	702,994	June 24	3160	727	99	2814
Air cooling and filtering apparatus. Compressed .....	F. Grunbacher .....	709,753	Sept. 23	3409	769	100	2727
Air cooling and purifying apparatus .....	C. W. Vollmann .....	708,847	Sept. 9	1574	330	100	2316
Air-cooling apparatus .....	A. Siebert .....	697,679	Apr. 15	2417	538	99	543
Air cooling, drying, and purifying apparatus .....	W. L. Moore .....	705,947	July 29	5056	1101	100	1083
Air-currents. Apparatus for measuring .....	J. Thompson .....	691,082	Jan. 14	1342	303	98	294
Air-cushion .....	W. H. Phillips .....	716,752	Dec. 23	4086	896	101	2737
Air-diffuser .....	S. G. Smith .....	701,328	May 27	4091	941	99	2070
Air-exhausting apparatus .....	H. F. Wallmann .....	692,741	Feb. 4	918	201	98	986
Air-feeding device .....	W. D. Douglas .....	707,053	Aug. 12	2907	449	100	1544
Air-feeding device .....	W. Sasse .....	711,681	Oct. 21	2472	543	101	545
Air for cooling and moistening same. Treating .....	W. P. Rice .....	701,506	June 3	404	92	99	2191
Air from sand-blast apparatus. Apparatus for cleaning .....	J. E. Mathewson .....	707,134	Aug. 19	2157	485	100	1592
Air. Generation of power from compressed .....	F. M. Leavitt .....	698,871	Feb. 25	3139	695	98	1509
Air-heater .....	A. H. Lovejoy .....	703,519	May 29	2761	632	99	1776
Air heater. Compressed .....	C. D. Dresser .....	699,156	Mar. 6	153	14	99	99
Air-heating apparatus. Compressed .....	G. W. Hopkins .....	707,111	Aug. 19	2130	474	100	1586
Air-liquefying apparatus .....	J. F. Place .....	711,525	Oct. 21	2176	474	101	482
Air-lock .....	D. E. Moran .....	694,978	Mar. 11	1243	271	98	1908
Air. Means for utilizing compressed .....	E. Hayward .....	706,653	Aug. 12	1266	279	100	1389
Air-moistening apparatus .....	Q. N. Evans .....	701,553	June 3	496	109	99	2211
Air-moistening apparatus. Automatic .....	W. W. Frazer .....	697,659	Apr. 15	2380	530	99	535
Air-motor .....	E. Glowacki .....	705,834	July 29	4849	1053	100	1041
Air of rooms. Device for removing noxious impurities from the .....	C. Breuer .....	693,638	Feb. 18	2707	597	98	1403
Air or other gases and cooling by means thereof. Liquefying .....	J. F. Place .....	707,633	Aug. 26	3123	708	100	1819
Air or other liquid gases. Vessel for holding and shipping liquid .....	J. F. Place .....	707,634	Aug. 26	3126	704	100	1811
Air or vacuum motor .....	M. Arndt .....	714,273	Nov. 25	3541	779	101	1681
Air-pressure. Apparatus for alternating .....	H. F. Garey .....	715,732	Dec. 9	2045	457	101	2212
Air-pressure regulator .....	J. H. Dickinson .....	704,782	July 15	2626	568	100	564
Air. Propulsion of torpedoes, &c., by compressed .....	F. M. Leavitt .....	693,872	Feb. 25	3143	695	98	1509
Air-purifier .....	H. v. Pückler .....	705,865	July 29	4905	1066	100	1053
Air purifying and cooling apparatus .....	R. H. Thomas .....	700,858	May 27	3423	786	99	1931
Air purifying and cooling apparatus .....	R. H. Thomas .....	700,859	May 27	3424	787	99	1931
Air-purifying apparatus .....	D. Grove .....	699,166	May 6	70	18	99	1199
Air reservoir. Compressed .....	T. D. J. C., and H. A. Prescott .....	710,889	Oct. 7	928	203	101	189
Air-ship .....	C. M. Richmond .....	695,580	Mar. 18	2345	532	98	2239
Air-ship .....	C. F. A. Klotz .....	701,359	June 3	141	29, 30	99	2138
Air-ship .....	F. Samorski .....	701,510	June 3	410	93	99	2192
Air-ship .....	H. B. Van Voorhis .....	702,120	June 10	1513	341	99	2437
Air ship or vessel .....	E. R. Krockner .....	712,689	Nov. 4	415	97	101	983
Air-ship propeller .....	C. Groombridge .....	697,403	Apr. 8	1903	425	99	424
Air-ship propeller-blade .....	F. W. Dufwa .....	694,356	Mar. 4	28	6	98	1718
Air superheater or carbureter .....	H. M. McCall .....	702,374	June 18	1665	444	99	2526
Air-temperature regulating and purifying device .....	L. E. Clawson .....	716,360	Dec. 23	3364	735	101	2583
Air-tight can and means for dispensing liquid therefrom .....	C. Marks .....	714,212	Nov. 25	3427	754	101	1657
Air-tool .....	N. Pecoraro .....	705,436	July 22	4053	879	100	871
Air, vacuum, or steam brakes. Hose-coupling for .....	J. D. Roberts and F. Kestler .....	695,839	Mar. 18	2800	628	98	2331
Air-vent .....	A. Roesch .....	695,948	Mar. 25	3002	679	98	2386
Alarm:							
See Automatic alarm. Electric alarm.							
Automobile alarm. Fire alarm.							
Burglar alarm. High or low water alarm.							
Burglar and fire alarm. Kettle alarm.							
alarm. Low-water alarm.							
Coin alarm. Overflow alarm.							
Door or window alarm. Refrigerator pan alarm.							
Thermo-electric alarm.							
Alarm .....	A. B. Cowles .....	698,392	Apr. 22	3737	825	99	840
Alarm .....	M. P. Janisch .....	699,531	May 6	754	176	99	1330
Alarm device .....	J. A. Roy .....	695,236	Mar. 11	1721	381	98	2062
Alarm-lock .....	A. Coyne .....	705,211	July 22	3573	773	100	774
Alarm-lock .....	J. Graber .....	715,453	Dec. 2	780	166	101	1994
Album for clothing patterns, drawings, &c. .....	K. A. Johanson .....	699,871	May 13	1443	332	99	1496
Album. Loose-leaf .....	R. F. Oberteuffer .....	702,027	June 10	1337	305	99	2400
Albuminous substances. Obtaining .....	A. Jolles .....	707,423	Aug. 19	2717	767	100	1710
Alcohol. Making wood .....	W. S. Brandt and F. J. Root .....	713,552	Nov. 11	2116	474	101	1347
Alcoholic-liquid purifier .....	C. C. Clark .....	710,669	Oct. 7	524	109	101	106
Aldehyde and acid. Making aromatic .....	M. Bazlen .....	698,355	Apr. 22	3672	722	99	826
Alc. Apparatus for carbonating and dispensing ginger .....	A. R. Phillips .....	715,687	Dec. 9	1956	437	101	2254
Alimentary extracts. Preparing .....	E. C. L. Kressel .....	694,102	Feb. 25	3602	735	98	1691

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	De't.	Vol.	Page.
Alimentary product and making same.	E. W. Ayres	693,485	Feb. 18	2406		92	1341
Alkali. Making caustic.	H. A. Frasch	697,465	Apr. 15	2031		99	466
Alkali-metal sulfates from mixed solutions. Separating.	C. Hoepfner	704,036	July 8	1234		100	260
Alkali salts of methylene disalicylic acid and making same.	S. L. Summers	716,591	Dec. 28	3809		101	2679
Alkalies. Production of the metals of the	L. T. Moeser and W. E. Eldmann	710,498	Oct. 7	178		101	38
Alkaline alginates. Manufacture of	T. Ingham	695,200	Mar. 11	1674		98	2082
Alkaline cyanids. Apparatus for obtaining	G. Craig	695,037	Mar. 11	1348	297	98	2014
Alkaline cyanids. Making	J. D. Darling	698,462	Apr. 29	3875	855	99	884
Alkaline cyanids. Making	J. D. Darling	698,464	Apr. 29	3877		99	884
Alkaline-earth salts of methylene disalicylic acid and making same.	S. L. Summers	716,592	Dec. 28	3810		101	2679
Alkaline hydrosulfites and making same. Solid.	M. Bazlen	711,377	Oct. 14	1885		101	408
Alkaline salts. Apparatus for the electrolytic decomposition of	J. D. Gilmour	695,302	Mar. 11	1851	412	98	2117
Alkaline salts. Electrolytic decomposition of	E. Edser and M. Wildermann	709,971	Sept. 30	3852	806 867	100	2833
Alkaline salts of methylene citric acid and making same.	R. Berendes	715,289	Dec. 9	1132		101	2085
Alkoxy-cafein and making same	F. Ach	707,812	Aug. 26	3531		100	1893
Alloy	G. W. Gesner	692,198	Jan. 28	3444		98	764
Alloy	J. S. Wolfe and L. K. Englert	694,224	Feb. 25	3830		98	1646
Alloy	W. Rübel	697,544	Apr. 15	2168		99	492
Alloy	W. Pruszkowski	702,996	June 24	3163		99	2514
Alloy	D. P. James	709,268	Sept. 16	2429		100	2511
Alloy. Aluminium	E. Murrman	699,216	May 6	151		99	1290
Alloy. Antiriction metal	H. Pearce and E. F. Ievers	708,580	Sept. 9	1040		100	2203
Alloy of silver	W. H. Walker	712,027	Oct. 28	3166		101	707
Alloys. Making	E. Keller	696,244	Mar. 25	3600		98	2569
Alloys of the alkali metals. Manufacture of	G. F. Jaubert	709,489	Sept. 23	2907		100	2625
Alloys or compounds of copper and titanium. Producing	A. J. Rossi	700,244	May 20	2212		99	1664
Alon derivative and making same	E. Seel	698,746	Apr. 29	4461		99	1009
Alpha-ionone. Making	P. Chuit and F. Bachofen	702,126	June 10	1523		99	2440
Alternator. Compounding	C. P. Steinmetz	712,737	Nov. 4	496	117 118	101	1000
Alternator. Compounding	C. P. Steinmetz	713,022	Nov. 4	1039	242 243	101	1109
Alternator. Exciting	E. W. Rice, Jr	717,507	Dec. 30	5632	1222	101	3088
Alternators. Compounding	E. W. Rice, Jr	717,277	Dec. 30	5291	1134	101	3044
Alum. Obtaining	H. H. Wing	712,226	Oct. 28	3538	773	101	777
Alumina from silica. Separating	A. Kayser	708,561	Sept. 9	1003		100	2196
Alumina. Manufacturing	C. M. Hall	706,553	Aug. 12	1082	240	100	1350
Aluminium capable of being welded or soldered. Rendering	C. P. Sørensen	708,840	Sept. 9	1580		100	2312
Aluminium hydrate. Making	H. W. Jordan	691,470	Jan. 21	2096		98	471
Aluminium or other metals by electrolysis. Obtaining metallic	G. Taddei	715,625	Dec. 9	1840	409	101	2229
Aluminium. Purifying	E. L. Anderson	716,977	Dec. 30	4643		101	2879
Aluminous ores. Purifying	D. A. Pénia-koff	695,762	Mar. 18	2651		98	2301
Amalgam-trap	G. R. Tuttle	708,599	Sept. 9	1069	242	100	2209
Amalgamating apparatus	G. F. Jernigan	701,346	June 3	126	26	99	2135
Amalgamating apparatus	M. Bloume	702,179	June 10	1628	364	99	2461
Amalgamating apparatus	J. L. Hill	717,195	Dec. 30	5086	1103	101	3075
Amalgamating-machine	G. C. Scott	694,112	Feb. 25	3615	800	98	1603
Amalgamating-machine	G. C. Scott	694,203	Feb. 25	3794	839	98	1639
Amalgamating-machine	G. C. Scott	694,204	Feb. 25	3795	839	98	1639
Amalgamating-machine	G. C. Scott	697,176	Apr. 8	1488	333	99	336
Amalgamating-machine	G. C. Scott	697,177	Apr. 8	1489	333	99	336
Amalgamating-machine	G. C. Scott	700,879	May 20	2493	571	99	1719
Amalgamating metals	P. A. Knappe	705,006	July 22	3318	720	100	721
Amalgamating metals	P. A. Knappe	707,971	Aug. 26	3834	562	100	1951
Amalgamator	J. W. R. Laxton	692,315	Feb. 4	170	39	98	833
Amalgamator	J. R. Sawyer	694,201	Feb. 25	3791	838	98	1638
Amalgamator	E. J. Kiss	696,452	Apr. 1	105	25	99	28
Amalgamator	J. McKelvey	699,550	May 6	795	187	99	1339
Amalgamator	J. S. Marquette and P. J. Nelson	701,212	May 27	4061	693	99	2065
Amalgamator	J. V. Coleman	703,694	July 1	597	132	100	118
Amalgamator	P. A. Knappe	705,095	July 22	3315	720	100	720
Amalgamator	G. H. Breyman	707,296	Aug. 19	2477	556	100	1660
Amalgamator	E. J. Kiss	707,597	Aug. 26	3055	687	100	1796
Amalgamator	P. A. Knappe	707,972	Aug. 26	3837	562	100	1952
Amalgamator	W. F. Bedell	715,538	Dec. 9	1692	309	101	2198
Amalgamator. Fine-gold	M. Lasswell	694,290	Feb. 25	3653	889	98	1672
Ambulance-coach	M. A. Crane	693,822	Feb. 18	3036	670 671	98	1469
Amido compounds of the fatty series and producing same. Aromatic derivative of	G. W. Meiser	715,680	Dec. 9	1946		101	2252
Amido-oxylbenzyl compound and making same	A. Eichengrün and K. Demeler	696,020	Mar. 25	3140		98	2415
Ammonia-compressor	J. T. Ludlow	704,062	July 8	1284	275	100	370
Ammonia from gas liquors. Apparatus for freeing	H. A. Abendroth	712,891	Nov. 4	805	186	101	962
Ammonia-gas condenser	J. L. Morris	712,704	Nov. 4	437	103	101	988
Ammonia-generator	J. A. Young	709,846	Sept. 23	3563	803	100	2701
Ammonia-separator	V. Johnson	705,845	July 29	4868	1057	100	1045
Ammonium salt and making same. Cobalt.	H. A. Frasch	717,183	Dec. 30	5065		101	2971
Ammunition and water carrier and litter. Combined	H. F. L. Allen	704,426	July 8	1965	427 428	101	413
Ammunition and water carrier and litter. Portable	H. F. L. Allen	704,427	July 8	1968	428	101	414
Ammunition-case	W. Rhodes	693,336	Feb. 11	2109	462	98	1259
Ammunition from the ammunition-carriage into the loading-axis of the gun. Apparatus for transferring	J. Krone	709,781	Sept. 23	3447	775 776	100	2736
Ammunition-hoist for ordnance	E. Trochain	704,985	July 15	3093	665 666	100	650



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &	Vol.	Page.
Ammunition-hoist for ordnance.	A. T. Dawson and J. Horne	709,436	Sept. 16	2762	621	100	2582
Ammunition. Loading-tray for transferring.	J. Becker	697,126	Apr. 8	1309	311	99	318
Ammunition. Magazine for fixed	E. Müller	710,706	Oct. 7	584	123	101	120
Ampere-hour meter	W. A. Sherlock	714,046	Nov. 18	3075	680	101	1566
Amusement apparatus	H. F. Schrader	697,891	Apr. 15	2800	619	99	627
Amusement apparatus	E. C. Boyce	713,737	Nov. 18	3469	550	101	1484
Amusement apparatus	F. H. Lippincott	714,383	Nov. 25	3740	825	101	1720
Amusement apparatus	J. St. Clair	716,285	Dec. 16	3169	604	101	2528
Amusement apparatus	E. F. Porter	716,755	Dec. 23	4090	897	101	2738
Amusement apparatus	G. W. Schofield	717,457	Dec. 30	5538	1203	101	3069
Amusement device	G. C. Tilyou. (Reissue)	11,977	Mar. 25	3941	873	98	2579
Amusement device	A. T. Prescott	712,407	Oct. 28	3848	845	101	847
Amusement or illusion apparatus.	T. Van Kannel	694,447	Mar. 4	211	46	98	1757
Amusement or roundabout apparatus	G. W. Schofield.	708,894	Sept. 9	1546	353	100	2310
Amusing apparatus	J. P. Biddle.	699,581	Feb. 18	2597	574	98	1379
Anchor	J. Eynon	695,711	Mar. 18	2565	580	98	2282
Anchor	J. G. Watson	697,300	Apr. 8	1713	382	99	385
Anchor	J. E. Reicher	703,739	July 1	670	149	100	1384
Anchor	J. A. Pettes	710,167	Sept. 30	4226	933	100	2011
Anchor	J. P. S. Lawrence	710,918	Oct. 7	978	215	101	199
Anchor	J. Fellows	711,839	Oct. 21	2774	614	101	608
Anchor	J. Wick	713,825	Nov. 18	2625	586	101	1470
Anchor-hoisting device for submarine boats	S. Lake	716,659	Dec. 16	2725	601	101	2437
Anchor. Land.	T. E. Hallett.	714,176	Nov. 25	3357	739	101	1643
Anchor. Ship's.	F. W. Kenney	697,149	Apr. 8	1442	323	99	322
Anchor. Ship's.	J. Verity	710,825	Oct. 7	827	178	101	169
Anchoring post.	H. F. Farwell	707,683	Aug. 26	3230	725	100	1832
Anesthetic apparatus. Elastic	H. Nieriker	707,623	Aug. 26	3107	699	100	1807
Anesthetics. Apparatus for administering.	C. K. Teter	706,358	Aug. 5	705	153	100	1259
Anesthetics. Device for administering	A. H. Bishop	712,642	Nov. 4	344	80	101	969
Anesthetics. Device for administering	A. H. Bishop	712,642	Nov. 4	344	80	101	969
Angle-bending machine.	I. H. Dillon	716,005	Dec. 16	2620	576	101	2416
Angling apparatus.	R. R. F. Ruud	693,071	Feb. 11	1573	343	98	1149
Animal-catcher	C. H. Generaux	714,170	Nov. 25	3345	736	101	1641
Animal-dipping apparatus	W. H. Tuck	703,164	June 24	3487	802	99	2877
Animal-exterminator	L. N. Cornett	699,207	Sept. 16	2307	524	100	2486
Animal-exterminator	J. V. Goulardt	712,667	Nov. 4	384	89	101	978
Animal-shearing machine	C. M. Palmer	711,708	Oct. 21	3521	554	101	535
Animal-shears	S. W. Allen	697,771	Apr. 15	2387	574	99	579
Animal-shears	R. Shedenhelm	711,129	Oct. 14	1391	302	101	304
Animal-shears	H. Drysdale	716,874	Dec. 30	4443	963	101	2639
Animal tendons. Treating	E. Nelson	709,352	Sept. 16	2581	599	100	2544
Animal-tie	J. T. Horris	694,279	Feb. 25	8935	876	98	1668
Animal-trap	E. L. Tschantre	691,301	Jan. 14	1745	397	98	378
Animal-trap	K. W. Gullgren	691,335	Jan. 14	1850	419	98	404
Animal-trap	W. Hawkins	693,012	Feb. 11	1460	317	98	1126
Animal-trap.	E. D. and O. V. Vantyle	694,701	Mar. 4	701	153	98	1859
Animal-trap.	G. Brown	695,905	Mar. 25	2930	663	98	2373
Animal-trap.	J. Chagnot	697,233	Apr. 8	1587	355	99	356
Animal-trap.	M. Laramie	698,973	Apr. 29	4911	1085	99	1109
Animal-trap.	J. B. Butler	699,145	May 6	37	10	99	1183
Animal-trap.	J. M. Hearnson	699,465	May 6	647	149	99	1210
Animal-trap.	B. Polk and T. J. Wood	702,676	June 17	2546	585	99	2670
Animal-trap.	T. D. Vanata	703,628	July 1	453	104	100	89
Animal-trap.	J. S. Moon	704,355	July 8	1857	402	100	393
Animal-trap.	P. A. Whitney	706,470	Aug. 5	944	206	100	1306
Animal-trap.	S. Hetherington	708,638	Sept. 9	1152	280	100	2226
Animal-trap.	J. E. Cox	712,182	Oct. 28	3454	757	101	761
Animal-trap.	H. Sargent	713,502	Nov. 11	2392	456	101	1331
Animal-trap.	H. J. Gaedtko	714,470	Nov. 25	3893	860	101	1749
Animal-trap.	J. E. Manlove	715,829	Dec. 16	2259	503	101	2336
Animal-trap.	S. R. Leonard	716,255	Dec. 16	3124	684	101	2520
Animal-trap.	W. C. Hooker	717,002	Dec. 30	4697	1018	101	2801
Animals. Treating	A. Nimmo	716,574	Dec. 23	3771	830	101	2670
Ankle-protector and arch-support. Combined	N. Nathan	713,912	Nov. 18	2895	623	101	1573
Ankle-support	F. H. Read	703,638	July 1	898	189	100	163
Annealing apparatus	J. J. Tynan	711,138	Oct. 14	1412	305	101	308
Annealing apparatus	D. Bates and G. W. Peard	716,618	Dec. 23	3860	842	101	2690
Annealing-box	J. J. Markey	700,962	May 27	3602	839	99	1967
Annealing-furnace	F. Danner	694,054	Feb. 25	3527	776	98	1586
Annealing-furnace	A. M. Hewlett	716,803	Dec. 30	4473	971	101	2845
Annealing furnace. Wire.	F. H. Daniels	706,031	Aug. 5	51	12	100	1129
Annealing iron or steel castings.	A. M. Hewlett	716,894	Dec. 30	4477	975	101	2845
Annealing silver, &c. Apparatus for	C. Stickney	700,101	May 13	1867	434	99	1572
Announcer. Electric	M. Lehman	692,867	Feb. 11	1152	257	98	1060
Annunciator	J. A. Wotton	692,880	Feb. 4	637	140	98	928
Annunciator.	G. E. Hoglund and C. M. Hedman	698,018	Apr. 22	3039	668	99	1694
Annunciator. Automatic	J. A. Wotton	699,275	May 6	268	62	99	1232
Annunciator-drop. Electric	E. G. Thomas	714,760	Dec. 2	216	43	101	1881
Annunciator. Electric	E. B. Overshiner.	692,471	Feb. 4	438	102	98	888
Annunciator. Electric	W. R. Winter	705,895	July 29	4800	1042	100	1082
Annunciator. Electrical	C. C. Blake	699,140	May 6	25	7	99	1181
Anode	F. McDonald	715,684	Dec. 9	1952	436	101	2233
Anode residues. Treating	A. G. Betts	712,640	Nov. 4	342	101	101	969
Ant-trap. Furniture	M. Goldberg.	694,738	Mar. 4	776	172	98	1875
Anticribbing device	M. M. Mills	692,326	Feb. 4	193	44	98	839
Antimony oxid. Making white	A. S. Plews	704,367	July 8	1875	406	100	396
Antimony. Producing metallic	T. C. Sanderson	714,040	Nov. 18	3060	600	101	1563

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Invention	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Antimony Treatment of ores and materials containing	J. P. Van der Ploeg	702,133	June 10	1575		99	2451
Anti-offset device	R. C. Seymour	699,853	May 13	1413	326	99	1478
Antiseptic bandage	C. F. Utermöhlen	703,627	July 1	452	104	100	89
Antislipping device	T. P. Farmer	696,322	Mar. 25	3780	842	98	2549
Antislipping device	D. M. Dearing	697,135	Apr. 8	1420	316	99	322
Apapero	J. Keller and R. Titsworth	692,859	Feb. 11	1136	254	98	1036
Apartment-house	W. C. James	700,501	May 20	2724	624	99	1767
Apparel	J. C. Friedrich	705,065	July 22	3253	704	100	708
Apparel. Wearing-	I. W. Collins	697,809	Apr. 15	2658	589	99	596
Applicator	G. J. Van Schott	699,594	May 6	884	205	99	1357
Applicator	A. Levy	701,357	June 3	553	121	99	1048
Applicator	M. Kern and A. Wiget	706,732	Aug. 12	4302	313	100	2371
Applicator	W. E. Robinson	714,952	Dec. 2	624	131	101	1960
Applicator	W. C. Holt	716,040	Dec. 16	2681	593	101	2428
Applicator and syringe. Combined	L. J. Lohlein	702,570	June 17	2350	537	99	2629
Apron	W. T. Jones	711,976	Oct. 28	3074	674	101	688
Apron and apron-tie	W. Garms	699,513	May 6	725	169	99	1325
Apron and dust-hood. Combined storm-	G. Walter	706,285	Aug. 5	571	123	100	1231
Apron and overalls. Combined	R. C. Clark	712,908	Nov. 4	838	194	101	1068
Apron. Child's eating.	E. J. Reed	699,238	May 6	192	45	99	1213
Apron fastener. Storm-	C. C. Laros	696,574	Apr. 1	324	76	99	73
Apron. Storm-	J. C. Mendenhall	713,899	Nov. 18	2782	618	101	1503
Apron. Storm-	J. C. Crimins	715,027	Dec. 2	739	156	101	1865
Aquarium-jardinière	S. E. Crasey	692,832	Feb. 11	1096	245	98	1048
Aquatic animals. Apparatus for transporting live	F. H. Colvin	710,325	Sept. 30	4512	1013	100	2971
Arch press	H. H. Colvin	714,866	Dec. 2	454	97	101	1926
Arc-light hanger-board	H. M. Buck and W. H. Strippy	698,792	Apr. 29	4536	1003	99	1025
Arc-light switchboard	E. M. Hewlett	717,194	Dec. 30	5084	1102	101	2974
Arc-light systems. Regulator for alternating series	J. H. Hallberg	712,521	Nov. 4	111	28	101	920
Arc-light systems. Regulator for alternating series	J. H. Hallberg	712,532	Nov. 4	112	28	101	921
Arc-light systems. Regulator for alternating series	J. H. Hallberg	712,533	Nov. 4	113	28	101	921
Arc-light systems. Regulator for alternating series	J. H. Hallberg	712,534	Nov. 4	115	28	101	922
Arc-lighting system for alternating currents	L. and A. Privat	694,190	Feb. 25	3774	834	98	1635
Arch	L. Lane	693,280	Feb. 11	2009	437	98	1287
Arch-bar	T. C. Salvater	699,981	May 13	1662	382	99	1530
Arch construction. Concrete-	W. C. Parmley	696,838	Apr. 1	884	191	99	176
Arch construction. Concrete-	W. C. Parmley	709,794	Sept. 23	3469	782	100	2741
Arch construction. Rib for concrete-	K. S. Riser	694,193	Feb. 25	3780	836	98	1636
Arch. Metal.	R. Gray	701,034	May 27	3754	859	99	2000
Arch support. Brick-	H. B. Strate	701,960	June 10	1309	275	99	2377
Arm-rest. Adjustable	C. Zibulski	711,550	Oct. 21	2225	483	101	492
Arm-rest. Book	J. Barker	700,006	May 13	1697	390	99	1537
Armature	F. L. Sessions	704,975	July 15	3070	660	100	656
Armature-coil	A. F. Batchelder	696,398	Apr. 1	11	4	99	5
Armature for dynamo-electric machines	J. Burke	712,257	Oct. 28	3581	783	101	788
Armature-winding for electric motors or dynamos	R. Lundell	714,721	Dec. 2	135	27	101	1865
Armature-winding for electric motors. System of	T. J. Murphy	699,764	May 13	1230	286	99	1440
Armature-winding for induction-motors	A. H. Armstrong	706,508	Aug. 12	1907	221	100	1538
Armature-winding for induction-motors	A. H. Armstrong	706,632	Aug. 12	1220	271	100	1379
Armature-winding machine. Drum-	H. Schulz	709,179	Sept. 16	2247	511	100	2473
Armor	J. J. Pindak	700,682	May 13	1834	426	99	1565
Armor-plate	J. Shaaber	712,605	Nov. 4	276	65	101	956
Armor-plate. Manufacture of	G. Charpy	696,941	Apr. 8	1077	251	99	249
Armor-plates. Manufacture or treatment of	B. K. Jamison	690,961	Jan. 14	1121	255	98	250
Armor-plates. Treatment of	B. K. Jamison	690,962	Jan. 14	1124		98	251
Arsenic, &c. Apparatus for separating and recovering fumes of	G. C. Stone	711,188	Oct. 14	1535	320	101	334
Arsenic fumes from furnace-gases. Separating and recovering	G. C. Stone	711,187	Oct. 14	1533	329	101	334
Article-attacher	H. H. Sims	706,697	Aug. 12	1343	290	100	1406
Aseptic preparation from pancreas and producing same	W. Weber	691,681	Jan. 21	2478		98	551
Ash-ejector	L. Hochstein	716,418	Dec. 23	3445	751	101	2601
Ash or garbage receptacle	T. W. Hughes	705,672	July 29	4557	990	100	963
Ash or refuse can	T. H. Schuch	698,496	Apr. 29	3925	867	99	805
Ash or refuse drums. Scraper for	J. Hill	698,497	Apr. 29	3927	868	99	805
Ash-pan drop-bottom	J. A. Kremsier	698,971	Apr. 29	4906	1084	99	1108
Ash-pan. Safety	T. F. O'Connor	708,162	Sept. 2	301	72	100	2044
Ash-receptacle	J. M. and M. Kracker	707,849	Aug. 26	3615	815	100	1908
Ash-tray	P. Kulicke	708,650	Sept. 9	1169	266	100	2229
Ash-tray and advertising device	O. J. Willmot	707,664	Aug. 26	3294	719	100	1828
Asparagus-buncher	H. I. Schanck	694,997	Mar. 11	1208	277	98	1068
Asphalt-cooking drums. Scraper for	J. Nelson	705,054	July 29	5068	1104	100	1085
Asphalt. Preparing	A. Wolskel	697,307	Apr. 8	1724		99	387
Asphaltum. Extracting and refining	A. F. L. Bell	700,889	May 27	3473	796	99	1940
Assayer's furnace	J. J. Lonergan and A. C. Calkins. (Reissue.)	11,979	Apr. 1	1013	225	99	214
Assayer's furnace	A. C. Calkins	711,554	Oct. 21	2229	485	101	493
Assaying apparatus. Ore-	W. T. Armstrong	697,774	Apr. 15	2592	575	99	580
Assaying-furnace	A. C. Calkins	696,548	Apr. 1	879	65	99	63
Asigmatially-corrected wide-angle objective	P. Goerz	706,650	Aug. 12	1254	277	100	1387
Atomizer	C. J. Seltzer	692,721	Feb. 4	888	203	98	961
Atomizer	C. J. Seltzer	692,722	Feb. 4	890	203	98	961
Atomizer	C. J. Seltzer	700,638	May 27	3366	777	99	1923



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Atomizer	H. Goltermann	701,711	June 3	775	172	99	2271
Atomizer	A. D. Villius	704,780	July 15	2618	567	100	562
Atomizer	J. G. Halapleus	705,074	July 22	3265	707	100	711
Atomizer	A. H. Tatum	712,213	Oct. 28	3505	760	101	772
Atomizer	C. A. Tatum	712,214	Oct. 28	3506	760	101	772
Atomizer	G. S. Tolman and G. K. Jones	717,474	Dec. 30	5572	1299	101	3076
Atomizer air-forcing device	C. J. Walz	692,995	May 27	3063	841	99	1978
Atomizer and nebulizer	C. J. Seltzer	692,552	Feb. 4	561	107	98	893
Atomizer and nebulizer. Combined	C. J. Seltzer	692,798	Feb. 4	591	139	98	918
Atomizer and nebulizer. Tip	C. J. Seltzer	692,798	Feb. 4	1088	233	98	1008
Atomizer. Lubricant	C. C. Baldwin	715,940	Dec. 16	2495	550	101	2389
Atomizer-pump	J. Robertson	694,666	Mar. 4	632	138	98	1846
Atomizing apparatus	W. A. Barton	696,158	Mar. 25	3441	772	98	2478
Atomizing apparatus	J. Robertson	708,611	July 1	416	97, 98	100	83
Atropinium alkyl nitrate	H. Dreser and J. Callsen	707,402	Aug. 19	2676		100	1701
Attaching device	E. L. Hobart	710,776	Oct. 7	735	156	101	150
Auditing collectors' receipts	G. E. Mauwaring	716,453	Dec. 23	3517	768	101	2616
Auger	J. J. Bundy	698,444	Apr. 29	3842	847	99	878
Auger. Packing	E. E. Ziegenfuss	707,290	Aug. 19	2469	554	100	1658
Auger. Tubular	H. E. Klingensmith	710,557	Dec. 23	3733	81	101	2662
Auger. Twisted	G. Hallenscheid	709,576	July 1	361	83	100	7
Auger. Well	R. O. Newell	708,247	Sept. 2	464	106	100	2576
Auricular instruments. Transmitting and receiving tube for	A. G. House	690,430	Jan. 7	83	18	98	20
Auriphone	F. I. Gano	709,978	Sept. 30	3861	869	100	2835
Autographic register	T. F. Schirmer	690,465	Jan. 7	151	32	98	34
Autographic register	J. C. Shoup	707,458	Aug. 19	3265	827	100	1710
Automatic alarm	F. J. Laird	708,561	Sept. 9	1512	346	100	2302
Automatic brake	M. A. Beck	690,552	Jan. 7	355	72	98	77
Automatic brake	M. A. Beck	697,303	Apr. 8	1883	420	99	420
Automatic brake	A. E. Norris. (Reissue)	12,040	Sept. 30	4642	1049	100	2999
Automatic elevator or hoist	J. Sewell	713,698	Nov. 18	2397	534	101	1420
Automatic gate	J. H. Wilson	708,445	Sept. 2	706	181	100	2142
Automatic lubricator	A. A. Freeman	704,021	July 8	1001	233	101	254
Automatic motor	C. J. Slaughter	697,107	Apr. 8	1373	395	99	312
Automatic signal	R. L. Storm	700,851	May 27	3411	783	99	1628
Automatic signal and alarm	F. A. Anderson and A. A. Brown	712,892	Nov. 4	806	187	101	1062
Automatic sprinkler	W. H. Stratton	693,924	Feb. 25	3251	716	98	1530
Automatic switch	F. S. Lewis	699,197	May 6	122	32	99	1201
Automatic switch	J. A. Tancock and T. C. Cochrill	700,386	May 20	2565	574	99	1721
Automatic switch	H. A. Popenhusen	705,561	July 1	334	76	100	67
Automatic switch	H. H. Doll and M. H. Bostian	705,786	July 29	4766	1034	100	1024
Automatic switch	M. Moskowitz	706,083	Aug. 5	157	32	100	1148
Automatic switch	M. Moskowitz	706,094	Aug. 5	158	33	100	1148
Automaton figure	R. H. Little	711,510	Oct. 21	2136	465	101	474
Automaton figure	R. H. Little	711,511	Oct. 21	2140	466	101	475
Automobile	G. O. Draper	693,591	Feb. 18	2619	578	98	1383
Automobile	E. J. Pennington	696,477	Apr. 1	153	36	99	38
Automobile	W. E. Trufant	696,660	Apr. 1	496	115	99	106
Automobile	H. K. Holzman	697,720	Apr. 15	2492	556	99	559
Automobile	G. P. Dorris	698,309	Apr. 29	4908	1060	99	1087
Automobile	A. L. Simpson and H. B. Palmer	699,028	Apr. 29	4996	1106	99	1125
Automobile	C. Cotta	700,175	May 20	2073	473	99	1635
Automobile	A. L. Kull	700,784	May 27	3284	753	99	1914
Automobile	J. D. Carrington	704,296	July 8	1734	378	100	364
Automobile	A. S. Krotz	704,809	July 15	2698	588	100	577
Automobile	S. S. Conant	704,860	July 15	2779	602	100	595
Automobile	S. T. Davis, Jr.	705,824	July 29	4832	1049	100	1033
Automobile	M. F. Bates	706,882	Aug. 12	1707	382	100	1483
Automobile	J. C. Henry	707,230	Aug. 19	2351	527	100	1634
Automobile	H. Lemp	710,068	Sept. 30	4001	903	100	2864
Automobile	A. S. Krotz	713,313	Nov. 11	1662	373	101	1253
Automobile	J. Ledwinka	716,065	Dec. 16	2750	607	101	2443
Automobile air-pump	J. G. Heal	706,051	Aug. 5	90	20, 21	100	1136
Automobile alarm. Pneumatic	G. E. Cordeau	711,940	Oct. 28	3001	661	101	674
Automobile attachment for vehicles	J. F. Peterman	703,459	July 1	158	36	100	33
Automobile car	K. Schiller	691,078	Jan. 14	1337	362	98	294
Automobile-condenser	E. J. Pennington	696,478	Apr. 1	155	37	99	38
Automobile controller mechanism	J. G. MacPherson	694,065	Feb. 25	3540	780	98	1388
Automobile crane	M. W. Kouns	715,070	Dec. 9	1925	430	101	2246
Automobile driving-gear	P. Steinhauer	696,210	Mar. 25	3536	792	98	2497
Automobile driving-gear	A. Hitchon	706,415	Aug. 5	835	182	100	1282
Automobile driving mechanism	A. L. Kull	700,786	May 27	3286	754	99	1914
Automobile. Electric	H. Lemp	692,874	Feb. 11	1174	261	98	1066
Automobile-frame	G. A. Hunt	697,722	Apr. 15	2496	557	99	559
Automobile-lock	J. F. Wilson	693,501	Feb. 11	1870	404	98	1207
Automobile running-gear	A. A. Medina	707,340	Aug. 19	2562	578	100	1677
Automobile running-gear	C. E. Neal	715,411	Dec. 9	1439	310	101	2149
Automobile safety fuel-tank	T. W. Moran	701,754	June 8	850	187	99	2286
Automobile safety-stop	C. A. Ott	710,508	Oct. 7	221	48	101	45
Automobile seat	O. F. Persson	691,807	Jan. 28	2743	619	98	622
Automobile steering-check	H. Lemp	692,877	Feb. 11	1184	262	98	1063

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Automobile steering-column	H. B. Brazier	716,183	Dec. 16	2980	653	101	2493
Automobile steering device	G. R. Schlumberger	709,684	Sept. 23	3253	720	100	2906
Automobile steering-gear	J. Barsaleaux and R. C. Hall	691,519	Jan. 21	2184	480	98	490
Automobile steering-gear	J. G. MacPherson	707,435	Aug. 19	2733	618	100	1713
Automobile steering mechanism	H. Lemp	692,879	Feb. 11	1188	263	98	1069
Automobile transmission frame	H. K. Milner and J. M. Lansden, Jr.	717,430	Dec. 30	5498	1192 (1193)	101	3061
Automobile-vehicle controller	H. Lemp	692,870	Feb. 11	1161	258 250	98	1063
Automobile-vehicle steering mechanism	H. Lemp	692,868	Feb. 11	1153	257 258	98	1061
Automobiles, &c. Steering device for	W. L. Mead	714,501	Nov. 25	3951	876	101	1759
Automobiles. Transmission-gear for	G. P. Dorris	707,400	Aug. 19	2673	604	100	1700
Auto-type-plates. Manufacturing	E. Ehlermann	691,535	Jan. 21	2204	495	98	494
Awl Sewing	J. S. Padon	695,885	Mar. 18	2884	654	98	2350
Awl Sewing	E. H. Jones and E. C. Espey	706,183	Aug. 5	353	76	100	1188
Awning	C. H. Hansen	690,650	Jan. 7	543	118	98	116
Awning	E. F. Hartshorn	693,010	Feb. 11	1457	316 317	98	1125
Awning	F. J. Hage, Sr.	693,129	Feb. 11	1698	371	98	1174
Awning	O. R. Olson	696,378	Mar. 25	3902	865	98	2570
Awning	S. Digness	701,170	May 27	3958	917	99	2050
Awning	B. T. Lamb and E. G. Gould	709,913	Sept. 30	3724	839	100	2806
Awning	C. S. Hamilton	711,850	Oct. 21	2786	617	101	611
Awning	A. K. Johnson and C. A. Rond, Jr.	714,187	Nov. 25	3376	749 750	101	1647
Awning	J. C. McNamara	715,501	Dec. 9	1616	350	101	2183
Awning-actuating mechanism	W. H. Arnold	706,005	Aug. 5	5	2	100	1117
Awning and window-shade. Combined	L. S. Sharps	695,240	Mar. 11	1724	382	98	2093
Awning-fixtures. Antirattler for	J. Sullivan	704,397	July 8	1924	417	100	405
Awning-frame	W. E. Weiss	714,075	Nov. 18	3180	692	101	1576
Awning frame and hood. Combined	W. G. Buschmeyer	698,371	Apr. 22	3702	817	99	339
Awning-locking mechanism	L. A. Daus	715,463	Dec. 9	1540	369	101	2168
Awning-protector	C. H. Hansen	706,820	Aug. 12	1590	358	100	1459
Awning-raising device	J. A. McQuigan, Jr.	715,841	Dec. 16	2284	508	101	2342
Awning-rod bracket	R. Ward	691,026	Jan. 14	1251	283	98	276
Awning-roller support	L. A. Daus	705,214	July 22	3579	774	100	775
Awnings. Device for raising or lowering	G. H. Eggers	705,744	July 29	4701	1017	100	1010
Awnings, &c. Hanger for	W. K. Farrand	716,016	Dec. 16	2641	582	101	3419
Awnings. Means for hanging	C. J. Graf	713,230	Nov. 11	1642	369	101	1248
Awnings. Means for operating	W. S. Bowser	703,693	July 1	596	132	100	118
Ax-handle clamp.	L. Johnson	695,461	Mar. 18	2104	474	98	2189
Ax-head	O. King	700,780	May 27	3279	752	99	1903
Ax-head and handle therefor	R. H. Carter	695,660	Mar. 18	2497	567	98	2270
Ax-helve grip	C. W. Todd	693,463	Feb. 18	2358	516	98	1331
Ax or hatchet	W. Lawton	712,554	Nov. 4	188	44	101	936
Ax or hatchet	W. Lawton	712,942	Nov. 4	903	211	101	1081
Axle	F. Reese	695,081	Mar. 11	1428	313	98	2031
Axle	E. Klein	702,101	June 10	1483	334	99	2431
Axle	W. H. Davis	708,466	Sept. 2	840	192	100	2151
Axle	L. W. Kyes	710,157	Sept. 30	4204	947	100	2906
Axle	W. C. Simons	710,529	Oct. 7	265	59	101	54
Axle	W. J. Galernio	710,964	Oct. 14	1967	236	101	2295
Axle	G. Nilson	714,019	Nov. 18	3010	670	101	1551
Axle and axle-box. Vehicle	H. H. Porter	705,864	July 29	4903	1066	100	1053
Axle attachment. Vehicle	J. W. Hafer	702,424	June 17	2085	470	99	2569
Axle-box	M. A. Perrigo	691,174	Jan. 14	1504	339	98	329
Axle box and brass. Car	G. W. Magee	701,065	May 27	3798	870	99	2009
Axle box. Car	J. L. Pettithomme	691,175	Jan. 14	1505	339	98	329
Axle box. Car	J. W. Stephenson	692,086	Jan. 28	3253	736	98	725
Axle box. Car	O. Newhouse	704,085	July 8	1330	230	100	778
Axle-box for carriages or wagons	C. M. Florey	706,402	Aug. 5	807	176	100	1277
Axle-boxes. Dust ring or disk for	G. Maass	705,263	July 22	3699	802	100	797
Axle-cap	F. T. Giles	715,367	Dec. 9	1367	294	101	2135
Axle-center	C. T. McCue	710,921	Oct. 7	985	217	101	200
Axle dust-guard. Carriage	H. D. Ellis	716,527	Dec. 23	3655	800	101	2646
Axle for automobiles or other power-vehicles	D. M. Little	691,908	Jan. 28	291	658	98	658
Axle-gage	W. Angle	691,999	Jan. 28	3085	693	98	691
Axle-gage	J. A. Reynolds	698,554	Apr. 29	4030	891	99	916
Axle journal-box and roller-bearing for railway-cars.	E. F. Crowther	700,179	May 20	2079	475 476	99	1636
Axle journal-box. Car	W. E. Sanders	694,995	Mar. 11	1265	276 277	98	1998
Axle. Locomotive driving	C. Hagans	700,038	May 13	1763	408	99	1551
Axle-lubricating attachment. Car	G. W. Decker	701,855	June 10	1023	228	99	2334
Axle-lubricator	R. H. Gowen	704,028	July 8	1222	263	100	285
Axle-lubricator. Car	J. E. Gill	701,030	May 27	3750	858	99	1998
Axle-lubricator. Car	J. R. Fleming	710,677	Oct. 7	534	111	101	109
Axle-lubricator. Vehicle	D. W. Smedley	703,488	July 1	198	47	100	42
Axle. Self-lubricating	M. Bruner	637,068	Apr. 8	1313	230	99	298
Axle-shaping machine	G. A. Ensign	690,709	Jan. 7	662	145 146 147	98	139
Axle-skein	E. Good	694,631	Mar. 4	562	123	98	1831
Axle-skein	H. Fowler	698,925	Apr. 29	4894	1067	99	1093
Axle-spindle	T. De La Mare	697,455	Apr. 15	2015	445	99	633
Axle-spindle cutter	S. Davis	691,845	Jan. 28	2815	631 632	98	467
Axle-spindle. Self-lubricating	J. J. Brown	710,944	Oct. 14	1028	228	101	226
Axle-spindle take-up device	J. J. Cook	709,747	Sept. 23	3382	759	100	2721
Axle-springs to vehicle-frames. Means for attaching	W. A. Maybach	691,156	Jan. 14	1462	333	98	320
Axle-support	G. W. Kramar	713,455	Nov. 11	1905	431	101	1305
Axle. Vehicle	J. H. Bowling	694,940	Mar. 11	1160	254	98	1276



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Axle. Vehicle.	J. D. King	701,356	June 3	188	29	99	2137
Axle. Vehicle.	G. Heck	704,327	July 8	187	390	100	375
Axle. Vehicle.	J. A. McLaughlin	705,600	July 29	4437	961	100	958
Axle. Vehicle.	H. Hestand and A. R. Matthews	707,845	Aug. 26	3697	813	100	1406
Axle. Vehicle.	F. E. Fisher	709,213	Sept. 16	2316	526	100	2488
Axle. Vehicle.	J. H. Cooper	710,254	Sept. 30	4334	986	100	2446
Axle. Vehicle.	R. B. Cornett and G. G. Walker	710,431	Oct. 7	60	14	101	14
Axle. Vehicle.	M. B. Lloyd	716,073	Dec. 16	2794	610	101	2446
Axle washer. Vehicle.	C. and R. L. Bethea	706,215	Aug. 5	106	87	100	1199
Axle-wrench	C. J. Carroll	691,456	Jan. 28	2832	636	98	641
Axletree repair implement	F. Richard	705,868	July 29	4909	1067	100	1053
Azo compounds. Reduction of	M. Buchner	700,671	May 20	3011		99	1829
Babbling device	J. N. Schumacher	715,161	Dec. 2	979	212	101	2036
Baby-jumper	J. H. Crutchfield	692,505	Feb. 4	499	117	98	900
Baby-jumper	G. J. Holton	708,641	Sept. 9	1158	263	100	2227
Baby-jumper. Collapsible	A. P. Perkins	708,458	July 1	156	36	100	383
Baby tender and walker	C. J. Carroll	715,376	Dec. 16	2565	507	101	2403
Baby-walker	C. O. and J. W. Glascock	697,474	Apr. 15	2042	451	99	469
Back and arm rest for water-closet or other seats	M. J. Wade	709,945	Sept. 30	3784	854	100	2818
Back-band-making machine	G. W. McBeth	714,012	Nov. 18	2997	667	101	1548
Back-pedaling brake	R. M. Keating	691,147	Jan. 14	1449	330	98	317
Back-pedaling brake	F. C. Atherton and C. Happ	699,781	May 13	1259	292	99	1446
Back-pedaling brake	E. G. Hoffmann	708,228	Sept. 2	430	58	100	2069
Back-pedaling brake	W. H. Brewster	713,594	Nov. 18	2198	490	101	1379
Badge	E. B. Wilmarth	700,273	May 20	2266	517	99	1676
Badge	E. B. Wilmarth	710,828	Oct. 7	830	179	101	109
Badge and pencil-holder. Combined	J. A. Mangold	696,651	Apr. 1	463	108	99	100
Badge-medallion	J. E. Miller	702,737	June 17	2656	611	99	2692
Badge or button	J. Frame	694,849	Mar. 4	982	218	98	1921
Badge or button back	J. W. and A. M. Ayers	699,496	May 6	591	194	99	1297
Bag.							
See Feed-bag.	School-bag.						
Golf-bag.	Sleeping-bag.						
Laundry-bag.	Traveling-bag.						
Paper bag.	Warming-bag.						
Powder-bag.	Water-bag.						
Punching-bag.	Wire bag.						
Bag closure and feeder	C. R. Siegel	705,455	July 22	4088	889	100	877
Bag-fastener	W. A. Finn	695,148	Mar. 11	1363	346	98	2060
Bag-fastener	L. G. Gebhard and J. M. Rowley	697,710	Apr. 15	2479	554	99	556
Bag-fastener	G. M. Buskey	701,537	June 3	457	103	99	2202
Bag-filling machine	J. L. Drohen	704,176	July 8	1524	327	100	321
Bag-filling machine	A. M. Bates	707,544	Aug. 26	2942	1666	100	1773
Bag for remedial applications	F. C. Holmes	696,441	Apr. 1	86	20	99	23
Bag-frame catch	E. L. Grimm	713,429	Nov. 11	1859	421	101	1206
Bag handle or carrier	T. E. and W. H. Cadwell	701,146	May 27	3162	909	99	2042
Bag-holder	W. Y. Elliott	691,120	Jan. 14	1399	318	98	306
Bag-holder	J. P. Adams	702,685	June 17	2562	588	99	2673
Bag-holder	W. Hayward	704,251	July 8	1644	357	100	344
Bag-holder	A. D. Johnson	704,833	July 15	2736	591	100	385
Bag-holder	A. P. Franden, Jr	711,561	Oct. 21	2245	487	101	497
Bag-holder	H. L. Fishback	711,700	Oct. 21	2507	551	101	533
Bag-holder	O. G. Nosker	713,139	Nov. 11	1274	289	101	1176
Bag-holder	B. O. Branch	714,137	Nov. 25	3247	717	101	1620
Bag-holding device	F. R. Payne	708,456	July 1	153	35	100	33
Bag-lock	W. A. Finn	693,251	Feb. 11	1900	426	98	1227
Bag-machine	G. R. Ward	690,491	Jan. 7	226	45, 46	98	49
Bag-machine	L. D. Benner	699,611	May 6	913	213	99	111
Bag-machine	J. V. Matteson	714,386	Nov. 25	3745	826	101	1720
Bag-making machine	D. J. Mullen	692,695	Feb. 4	848	193	98	973
Bag-making machine					184		
Bag-making machine	J. F. Ames	709,451	Sept. 16	2794	630	100	2589
Bag or satchel frame	F. Lau	712,459	Oct. 28	3955	865	101	867
Bag or satchel lighting device	W. W. McCormick	690,753	Jan. 7	753	167	98	159
Bag-stringing-machine knotting mechanism	J. V. Richardson	693,622	Feb. 18	2675	590	98	1895
Bags. Machine for applying gathering-strings to.	J. W. Taylor	698,420	Apr. 22	3782	834	99	850
Bags. Making and filling	A. M. Bates	693,820	Feb. 18	3033	670	98	1468
Bags, papers, &c. Machine for forming knotted loops on	W. Busch	692,764	Feb. 4	963	217	98	904
Bail	A. Wiedenbauer	699,861	May 13	1427	329	99	1482
Bail-ears on sheet-metal vessels. Forming	C. Bail-ears on sheet-metal vessels. Forming	694,644	Mar. 4	538	121	98	1826
Bait. Artificial.	E. P. Mantz	716,451	Dec. 23	3514	768	101	2615
Bait. Spoon.	S. Alcock	712,470	Nov. 4	3	1	101	897
Bait. Trolling.	J. J. Hildebrandt	706,941	Aug. 12	1808	405	100	1503
Bake-pan	C. E. and G. M. Austin	711,813	Oct. 21	2731	604	101	599
Baking biscuit-cups for ice-cream. Apparatus for.	A. Valvona	701,776	June 3	885	197	99	2234
Baking-cup cleaner	M. Vautour and H. Prefontaine	700,526	May 20	2864	657	99	1797
Baking-pan	L. H. Jones	692,448	Feb. 4	339	96	98	881
Baking-pan	F. Hall	694,745	Mar. 4	787	175	98	1878
Baking-powder	J. A. Just	692,451	Feb. 4	402		98	881
Baking-powder	J. A. Just	692,452	Feb. 4	403		98	881
Baking-powder	J. A. Just	692,453	Feb. 4	404		98	881
Baking-powder	J. A. Just. (Reissue)	11,981	Apr. 29	5165		99	1161
Balance or scale. Automatic	E. G. Hedman	702,726	June 17	2536	607	99	2030
Balance-wheel	J. Waldron	715,723	Nov. 15	2442	545	101	1430
Balancing-machine	F. Hodgkinson	710,148	Sept. 30	4186	943	100	2903
Balcony. Window.	D. Butler	693,371	Feb. 18	2186	480	98	1295
Bale and tie. Combined	W. M. Holmes	715,802	Dec. 16	2203	492	101	2324

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Bale-band applying and tightening device	A. A. Vardell	694,448	Mar. 4	213	47	98	1758
Bale-band fastening	D. M. Campbell	713,203	Nov. 11	1398	315	101	1200
Bale compress. Round	F. G. Dieterich	704,958	July 15	3033	651 652 653	100	650
Bale-covering	M. Kirshner	701,576	June 3	535	117	99	2219
Bale of hay, &c	G. A. Lowry	691,954	Jan. 28	3005	674	98	676
Bale-press	S. J. Webb	706,618	Aug. 12	1200	206	100	1374
Bale-tie	W. A. Kilmer	695,218	Mar. 11	1683	373	98	2084
Bale-tie	W. A. Kilmer	695,214	Mar. 11	1683	373	98	2084
Bale-tie	H. De Haven	701,250	May 27	4148	954	99	2080
Bale-tie	G. M. Depew	702,929	June 24	3019	694	99	2785
Bale-tie	W. T. Johnson	704,048	July 8	1252	270	100	263
Bale-tie	S. McCay	706,193	Aug. 5	371	80	100	1193
Bale-tie	J. W. Griggs	711,961	Oct. 23	3047	660	101	683
Bale-tie fastening and identification-tag. Combined	F. P. Davis	711,881	Oct. 21	2764	612	101	605
Bale-tie machine	R. J. Eis	698,695	Apr. 29	4361	961 962 78	99	988
Bale-tie machine	P. Frantz	701,478	June 3	356	79 80 81	99	2182
Bale-tie tool	W. J. English and L. Alexander	694,952	Mar. 11	1185	259	98	1980
Bale-ties. Making	F. H. Daniels	703,555	July 1	322	73	100	65
Bales, &c. Apparatus for making cubic or square	F. B. Pope and G. D. Mims	705,135	July 22	3402	739 740 741	100	737
Bales containing wool, &c. Fastening for hoops for securing	G. R. Robertson	691,915	Jan. 28	2990	660	98	661
Bales. Core-driver for round-lap	M. Swenson	699,723	May 13	1141	267	99	1422
Bales. Making cotton	H. Rembert	703,470	July 1	170	40	100	37
Bales of cubic or square shape. Forming elastic and yieldable material in	F. B. Pope and G. D. Mims	705,134	July 22	3400	738 739	100	737
Bales of fibrous or other materials. Forming	G. A. Lowry	691,953	Jan. 28	3002	674	98	676
Baler and rake. Hay	J. H. Symank and R. A. Kitzler	697,692	Apr. 15	2441	543 544	99	547
Baling cotton	E. Reagan	699,115	Apr. 29	5142	1138 821 822 823 824	99	1156
Baling-machine	O. S. Lee	694,166	Feb. 25	3723	822 823 824	98	1626
Baling-machine	A. D. Thomas	699,936	May 13	1577	362	99	1514
Baling-machine. Cotton	E. Motz	696,743	Apr. 1	663	150	99	142
Baling-press	I. V. Jones	691,387	Jan. 21	1952	438	98	441
Baling-press	W. Miller	693,729	Feb. 18	2873	632 633	98	1436
Baling-press	W. S. McLemore	693,983	Feb. 25	3383	743 744	98	1556
Baling-press	J. J. Atkinson	698,352	Apr. 22	3660	809	99	824
Baling-press	J. J. Atkinson	698,353	Apr. 22	3665	810	99	825
Baling-press	T. J. Corning	699,661	May 13	1024	239	99	1400
Baling-press	E. W. Hilliard and H. Heidacker	701,039	May 27	3761	862	99	2001
Baling-press	M. Kirshner	701,575	June 3	530	116 117	99	2318
Baling-press	C. M. Arnold	701,785	June 3	900	200 201	99	2297
Baling-press	F. M. Chappell	702,626	June 17	2457	561	99	2651
Baling-press	T. C. West	703,688	July 1	583	130	100	115
Baling-press	L. Trabue	704,718	July 15	2502	741	100	539
Baling-press	J. P. Shaw	707,602	Aug. 26	3516	794	100	1859
Baling-press	T. A. Goodwyn and P. E. Stovall	707,917	Aug. 26	3738	838	100	1932
Baling-press	J. A. Spencer	708,269	Sept. 2	503	115 116	100	2063
Baling-press	E. Byars	711,097	Oct. 14	1343	292	101	292
Baling-press	M. Curry	711,480	Oct. 21	2081	451 452 453	101	461
Baling-press	P. C. Southwick	712,208	Oct. 23	3494	766	101	769
Baling-press	M. V. Fitz Water	712,515	Nov. 4	92	23, 24	101	916
Baling-press	C. Orman	713,791	Nov. 18	2565	572	101	1458
Baling-press	R. McBride	715,409	Dec. 9	1434	309 310	101	2148
Baling-press	J. H. Wesson	716,502	Dec. 23	3608	789	101	2635
Baling-press baling-chamber	W. T. Hulscher	716,422	Dec. 23	3451	753	101	3003
Baling-press for cotton, &c	G. R. Harvey and E. A. Werner	696,432	Apr. 1	68	16, 17	99	18
Baling-press for hay, cotton, &c	J. T. Scott	698,229	Apr. 22	3450	760	99	782
Baling-press. Hay	E. S. Mead	707,709	Aug. 26	3287	735	100	1844
Baling-press. Roller	J. J. Faulkner	696,863	Apr. 1	874	202	99	185
Baling-press self-feeder	J. S. Tuttle and C. L. Cookson	692,947	Feb. 11	1349	293	98	1103
Ball.							
See Billiard-ball.	Golf-ball.						
Bowling-ball.	Hand-ball.						
Float-ball.	Musical ball.						
Game-ball.	Playing-ball.						
Ball.	R. K. Gray	702,942	June 24	3057	703	99	2791
Ball-and-socket fastening	U. E. Dice	710,439	Oct. 7	74	17	101	15
Ball-and-socket joint for dolls, &c	E. Debes	703,899	July 1	972	212	100	171
Ball apparatus. Captive	E. H. Miles	708,573	Sept. 9	1029	222	100	209
Ball-gathering device	F. Minton	704,848	July 15	2763	597	100	509
Ball-lifting device	P. R. Oliver	713,672	Nov. 18	2341	522	101	1409
Ball-pick-up appliance	E. E. Roberts	698,226	Apr. 22	3456	759	99	782
Ball pitcher. Mechanical base	C. Edwards	702,415	June 17	2049	467	99	2566
Ball players. Head-harness for foot	G. L. Pierce	694,986	Mar. 11	1253	274	98	1995
Ball-playing device	J. S. Stevens	691,239	Jan. 14	1741	396	98	377



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec	Dr'g.	Vol.	Page.
Ball-shaped or spherical bodies. Machine for forming.	S. Smith	694,330	Feb. 25	4090	910	98	1692
Balls. Machine for reducing and finishing hollow.	A. Johnston	709,409	Sept. 16	2715	600	100	2572
Balls. Making hollow	A. Johnston	698,707	Apr. 29	1899	907	99	907
Balls. Making playing-	E. Kempshall	704,463	July 8	2048	444	100	431
Balls. Making pool-	J. H. Matthes	701,492	June 3	382	86	99	2187
Balls. Manufacture of playing-	E. Kempshall	695,867	Mar. 18	2847	646	98	2342
Balls. Manufacture of playing-	F. H. Richards	696,332	Mar. 25	381	854	98	2558
Balls. Manufacture of playing-	E. Kempshall	700,659	May 20	2993	686	99	1825
Balls. Manufacture of playing-	E. Kempshall	707,425	Aug. 19	2720	615	100	1710
Balls. Manufacture of playing-	E. Kempshall	707,595	Aug. 26	3051	687	100	1795
Balls. Manufacture of playing-	E. Kempshall	710,198	Sept. 30	4281	964	100	2925
Balls. Manufacture of playing-	F. H. Richards	710,368	Sept. 30	4575	1092	100	2986
Balls. Manufacture of playing-	E. Kempshall	711,215	Oct. 14	1590	341	101	345
Balls. Manufacturing playing-	E. Kempshall	699,632	May 6	939	217	99	1393
Balls. Manufacturing playing-	E. Kempshall	704,464	July 8	2049	444	100	431
Balls. Shell-blank for playing-	E. Kempshall	700,056	May 20	2987	685	99	1823
Ballast conveyer and lever	G. F. Spurlin	690,788	Jan. 7	815	180	98	172
Ballast-dressing mechanism	V. Berford	695,530	Mar. 18	2232	505	98	2216
Ballast-rammer	A. Collet	715,552	Dec. 9	1729	380	101	2205
Ballast-unloader	G. W. King	713,651	Nov. 18	2308	515	101	1402
Ballast-unloader	G. W. King	714,193	Nov. 25	2385	745	101	1649
Balling-machine	W. Fleming	696,669	Apr. 1	512	118	99	111
Ballot-box	C. D. Green	694,543	Mar. 4	403	88	98	1798
Ballot-box	H. Drouleige	706,910	Aug. 12	1760	393	100	1494
Ballot-marker	T. C. Spelling	712,612	Nov. 4	287	68	101	359
Ballot-marker	T. C. Spelling	717,137	Dec. 13	325	114	101	111
Banana-shipping case	E. Schmitz	694,998	Mar. 11	1270	278	98	1999
Banana-shipping case.	H. Bitner	707,047	Aug. 12	1990	447	100	1540
Banana-shipping case.	F. Schmitz	710,016	Sept. 30	3923	886	100	2848
Banana-shipping case.	F. Schmitz	710,017	Sept. 30	3924	886	100	2848
Banana-shipping case.	H. Bitner	710,036	Sept. 30	3955	892	100	2853
Bananas, &c. Device for transporting	R. R. Blandy	691,526	Jan. 21	2192	492	98	492
Band-brake. Double-acting	A. La France	693,659	Feb. 18	1739	605	99	119
Band-cutter and feeder	F. Swenson	702,164	June 10	1598	391	99	2459
Band-cutter and feeder	J. B. Denlinger	705,516	July 22	4207	914	100	899
Band-cutter and feeder	W. N. Crow	707,393	Aug. 19	2657	599	100	1697
Band-cutter and feeder	J. W. Russell	713,804	Nov. 18	2590	577	101	1462
Band-cutter and feeder	J. Beisch	714,632	Nov. 25	4199	928	101	1810
Band-cutter and feeder	H. J. Fournier	716,032	Dec. 16	2653	585	101	2422
Band-cutter and feeder	W. Miks	716,919	Dec. 30	4522	981	101	2854
Band-cutter and feeder governor	E. W. Miller	714,932	Dec. 2	589	123	101	1932
Band-cutter and feeder knife	F. J. Wood	710,649	Oct. 7	481	101	101	97
Band-fastener	G. P. Rasck	696,592	Apr. 1	353	84	99	78
Band-mill	E. E. Thomas	693,337	Feb. 11	2110	463	98	1259
Bandage	R. W. Johnson	700,938	May 27	3570	821	99	1961
Bandage	R. W. Johnson	700,940	May 27	3572	822	99	1961
Bandage	C. J. Higgins	709,767	Sept. 23	3420	768	100	2729
Bandage. Analgetic	T. L. Ray	699,897	May 13	1505	346	99	1500
Bandage-case. Reversible	S. Bottomley	692,053	Feb. 4	496	116	98	900
Bandage or truss. Hernial	V. Brocchi	715,010	Dec. 2	716	151	101	1980
Bandage. Supporting	L. R. Miller and E. T. Richert	713,900	Nov. 18	2783	618	101	1504
Bandage. Suspensory	H. C. Lovis	713,318	Nov. 11	1670	376	101	1255
Bandage. Water-	C. H. Jones	691,270	Jan. 14	1678	382	98	365
Bandbox-stay	S. Mundheim	696,182	Mar. 25	3449	781	98	2487
Bandoleer or cartridge-belt	J. Hylard	710,324	Sept. 30	4501	1014	100	2971
Banjo	W. Kraske	715,587	Dec. 9	1784	396	101	2217
Banjo attachment	H. M. Bronson	706,381	Aug. 5	759	166	100	1205
Banjo-rellums. Drawing-down device for	W. J. Stent	708,934	Sept. 9	1728	400	100	2348
Bank. Coin-deposit	H. J. Valentine	695,845	Mar. 18	2811	640	98	2333
Bank. Registering-	W. Weber	712,873	Nov. 4	766	177	101	1035
Bank. Savings	A. C. Reichel	693,741	Feb. 18	2891	636	98	1440
Bank. Savings	F. G. McPherson	697,268	Apr. 8	1651	371	99	371
Bank. Savings	J. Cheim	706,388	Aug. 5	781	170	100	1272
Bank. Savings-	C. B. Stilwell	707,875	Aug. 26	3653	823	100	1915
Banner. Motto-Bar.	W. B. Shuck	715,884	Dec. 16	2382	528	101	2363
See Revolving bar. Type-bar.							
Bar-bell	A. Calvert	702,356	June 10	1924	439	99	2520
Bar-fixture	W. E. Poate	692,706	Feb. 4	869	198	98	977
Bar-fixture with soda-water-dispensing apparatus provided with syrup-cans.	J. C. Johnson	691,386	Jan. 21	1950	438	98	440
Bar's, &c., with a covering of extruded material.	D. J. Jarvis, J. W. Wadkin, and T. S. King	692,295	Feb. 4	137	32, 38	98	827
Apparatus for providing	E. J. Collins	697,449	Apr. 15	2006	443	99	461
Barber-chair. Hydraulic	J. Roeder	700,669	May 20	3007	690	99	1828
Barber-chair strap-holder	C. E. Brouillette	716,623	Dec. 23	3868	845	101	2691
Barber's implement.	J. B. Martin	716,454	Dec. 23	3518	769	101	2617
Barber's shears					770		
Bark from trees. Apparatus for removing.	W. P. Kidder	707,428	Aug. 19	2724	616	100	1711
Bark-strip cutting machine	E. L. Brown	700,237	May 20	2351	529	99	1685
Bark-strip splitting machine	C. R. Brown	700,236	May 20	2350	528	99	1685
Barker. Pneumatic	C. R. Kline and J. Keller	692,184	Jan. 28	3415	773	98	758
Barley and malt. Testing	W. H. Prinz	694,782	Mar. 4	804	191	98	1894
Barley-bearder and cereal-polisher	M. Hansen	692,011	Jan. 28	3103	697	98	695
Barometer	A. L. Robbins	706,112	Aug. 5	202	42	100	1158
Barrel	O. P. Hallock	705,400	July 22	3986	863	100	856

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Barrel, cask, &c. Knockdown	A. Maltby	705,265	July 22	3701	892	100	797
Barrel-cleaning machine	G. Schock	703,088	June 24	3343	705	99	2849
Barrel-closure	P. Mink	694,171	Feb. 25	3742	836	98	1028
Barrel-closure	W. W. Sly	703,313	June 24	3729	859	99	2926
Barrel, Collapsible	D. B. Jones	700,654	May 20	2983	685	99	1823
Barrel-cover	J. F. Morin	699,804	May 13	1304	302	99	1456
Barrel-cover	J. F. Morin	699,805	May 13	1305	302	99	1456
Barrel-filler	K. Enzinger	717,368	Dec. 30	5377	1169	101	3937
Barrel-finishing machine	G. M. Carter	703,994	July 8	1159	251	100	246
Barrel-forming machine	J. C. O. Redington	699,237	May 6	191	45	99	1213
Barrel-head fastening	E. C. Shears	708,412	Sept. 2	741	106	100	2131
Barrel-holding cleats. Apparatus for applying	F. E. Heinig	700,922	May 27	3538	811	99	1954
Barrel hook or handle	G. N. Beeching	705,815	July 29	4829	1046	100	1035
Barrel-machine	A. C. Luyckx	694,167	Feb. 25	3734	835	98	1037
Barrel machine. Double-stave-veneer	W. J. Ott	703,079	Sept. 24	3323	703	99	2845
Barrel-making machinery	J. Van Develde	708,746	June 9	1347	307	100	2268
Barrel or cask	H. P. Lemper	711,984	Oct. 23	3087	677	101	691
Barrel-register	J. Mauser	703,733	July 1	662	147	100	132
Barrel, &c. Tilting	F. W. Keen and C. H. Williams	711,705	Oct. 21	2515	553	101	554
Barrel tilting holder	J. Elliott	692,434	Feb. 4	372	91	98	406
Barrel-tongs	C. M. Baldwin	693,097	Feb. 11	1623	354	98	1159
Barrel-washer	F. Aug	715,454	Dec. 9	1523	330	101	2165
Barrel, Wrought-metal	E. C. Phillips	704,366	July 8	1874	406	100	896
Barrels, &c. Lining for	F. L. Blanchard	698,790	Apr. 29	4581	1003	99	1024
Barrels. Machine for making veneer	W. C. Grant	708,639	Sept. 9	1130	255	100	2222
Bars, &c. Machine for forming	W. Baish	696,923	Sept. 8	1023	228	99	337
Basin-clamp	J. O. Noble	709,170	Sept. 16	2233	507	100	490
Basin, Cret and sewer-inlet. Catch-	F. H. Liss	714,185	Nov. 25	3734	843	101	1546
Basin. Portable wash-	J. J. Kellogg	693,549	Feb. 18	2525	556	98	1365
Basin support. Wash-	L. M. Hooper	715,268	Dec. 9	1180	251	101	2096
Basin Wash-	J. Totham	711,238	Oct. 14	1629	351	101	353
Basins. Stopper device for stationary wash-	H. B. Collins	698,375	Apr. 22	3708	819	99	834
Basket	T. J. Langston	694,289	Feb. 25	3950	880	98	1071
Basket	J. B. Polrot	697,537	Apr. 15	2158	479	99	490
Basket	F. L. Schiefel	701,062	May 27	3787	869	99	2008
Basket	E. A. Florang	712,921	Nov. 4	860	200	101	1073
Basket	J. H. Killian	716,639	Dec. 23	3897	851	101	2098
Basket-blank-weaving machine	R. and W. F. Goddard	691,621	Jan. 21	2366	532	98	526
Basket. Canvas	W. M. Morris and E. M. Staples	715,116	Dec. 2	895	191	101	2020
Basket. Cotton	W. L. Means	711,410	Oct. 14	1939	422	101	418
Basket-cover-making machine	C. Engberg	699,463	May 6	643	148	99	1309
Basket. Folding	T. J. Langston	706,426	Aug. 5	854	187	100	1286
Basket forming and stapling machine	N. E. Brown	708,955	Sept. 9	1773	410	100	2356
Basket-handle	M. Tucker	699,598	May 6	883	205	99	1357
Basket-making machine	O. Schleiher	693,911	Feb. 25	3228	711	98	2073
Basket-making machine	W. C. Schaefer	716,582	Dec. 23	3787	833	101	2073
Basket of textile material	W. M. Morris and E. M. Staples	701,495	June 3	339	87	99	2188
Basket or bucket. Folding	R. H. Hazen	702,650	June 17	2497	572	99	2660
Basket or fruit-box. Folding	O. Hoffmann	716,231	Dec. 16	3078	672	101	2511
Basket-packer	F. H. Smith	698,067	Apr. 22	3129	689	99	718
Basket. Veneer	E. Aber	701,665	June 3	700	154	99	2255
Basket-webs. Machine for making	P. F. Lindt	707,605	Aug. 26	3068	690	100	1799
Baskets. Combined handle and presser-foot for	F. W. Gasper	716,632	Dec. 23	3886	849	101	2095
Bat	J. A. Hillerich	716,541	Dec. 23	3705	807	101	2655
Bat and explosive. Ball	J. C. Schwanengel	703,261	Sept. 2	490	112	100	2080
Bat or racket for game known as ping-pong or table-tennis.	J. Girdwood	703,911	July 1	989	215	100	198
Bath.							
See Copying-bath. Tempering-bath.							
Heat-bath. Therapeutic bath.							
Bath apparatus. Electric	J. D. Randall	703,826	July 1	835	184	100	167
Bath appliance	C. Campbell	699,786	May 13	1269	294	99	1448
Bath-cabinet	J. W. Riley	706,476	Aug. 5	952	207	100	1308
Bath-cabinet. Convertible horizontal and vertical	C. M. Robinson	695,083	Mar. 11	1431	314	98	2032
Bath-cabinet. Folding	B. D. Knickerbocker	706,069	Aug. 5	130	27	100	1143
Bath-tub	H. Gossman	693,701	Feb. 18	2824	621	98	1425
Bath-tub. Folding or collapsible	W. H. Gamble	707,060	Aug. 12	2022	452	100	1547
Bath-tubs, &c. Lifter and carrier for	C. Müller	693,300	Feb. 11	2044	446	98	1244
Bath-tubs or the like. Overflow attachment for	H. Merrie and A. E. Burnett, Jr.	706,983	Aug. 12	1878	420	100	1317
Bath-tubs, &c. Waste-fixture for	F. T. Meyer	704,705	July 15	2481	535	100	535
Bathing apparatus	W. J. Stoffel	699,589	May 6	877	204	99	1356
Bathing apparatus	H. G. Batchelder	714,659	Dec. 2	11	3	101	1839
Bathing-pan. Portable	E. Pierce	716,096	Dec. 16	2805	618	101	2454
Bathing-tub	H. Schulze	702,380	June 10	1968	449	99	2529
Bathing-tub for dipolar galvanic baths	J. Zwiebel	710,933	Oct. 7	1005	222	101	205
Bathometer	E. G. Sjöstrand	717,129	Dec. 30	4927	1069	101	2940
Batteries and making same. Active material for storage	W. E. Winslip	703,875	July 1	923	200	100	135
Batteries and product thereof. Making plates for storage	H. K. Hess	704,252	July 8	1646	358	100	344
Batteries. Apparatus for preparing material for use in storage	E. W. Smith	693,750	Feb. 18	2906	639	98	1443
Batteries. Cleaning spongy lead plates for storage	R. N. Chamberlain	699,493	May 6	691	160	99	1319
Batteries. Composition for use in secondary	C. T. J. Oppermann	706,444	Aug. 5	906	200	100	1299
Batteries. Manufacture of spongy-lead plates for secondary	H. W. Butler and J. H. May	715,016	Dec. 2	724	101	101	1982
Batteries. Manufacturing elements for storage	E. A. Sperry	713,020	Nov. 4	1037	200	101	1108



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Batteries. Means for controlling the charging of secondary	J. Burry	709,465	Sept. 23	2889	637 638	100	2610
Batteries. Non-active metal for use in storage	H. H. Lloyd	713,568	Nov. 11	2152		101	1354
Battery: See Electric battery.							
Electrotherapeutic battery.	Gravity battery.						
Galvanic battery.	Medical battery.						
Gas-battery.	Primary battery.						
	Secondary battery.						
	Storage battery.						
Battery	W. C. Banks.	696,924	Apr. 8	1024	228	99	237
Battery	G. S. Bennett	701,253	May 27	4136	932	99	2178
Battery	W. T. Seddon	704,125	July 8	1429	305	100	301
Battery	W. L. Panikoff	706,340	Aug. 5	673	146	100	1251
Battery-charging apparatus.	M. R. Hutchison	691,144	Jan. 14	1444	328	98	316
Battery chute or well.	E. W. Vogel	691,024	Jan. 14	1247	282 283	98	275
Battery compound. Electric	G. Bastedo.	716,656	Dec. 23	3929		101	2704
Battery connection.	E. A. Sperry	703,674	July 1	552	125	100	119
Battery-depolarizer.	C. E. Lockwood and W. C. Banks	714,590	Nov. 25	4114		101	1735
Battery-end-cell switch-indicator.	A. C. Walther	690,800	Jan. 7	837	185	98	176
Battery-grids. Machine for making	W. F. Richards	699,814	May 13	1321	306 307	99	1460
Battery grids. Saw for making secondary	W. Morrison	701,916	June 10	1131	259	99	2360
Battery installation.	S. Lake	716,844	Dec. 23	4374	849	101	2808
Battery jar. Storage.	P. Kennedy	709,157	Sept. 16	2194	502	100	2463
Battery plate. Secondary.	B. Kuettner	690,589	Jan. 7	423	91	98	92
Battery plate. Secondary.	W. L. Silvey	693,453	Feb. 18	2344	513	98	1327
Battery-plate separator.	J. K. Pumpelly	696,489	Apr. 1	172	42	99	41
Battery-plate separator. Storage.	R. N. Chamberlain	712,178	Oct. 28	3447	756	101	760
Battery plate. Storage.	N. T. Daboll	711,481	Oct. 21	2087	452	101	463
Battery plate. Storage.	E. H. Winkes	711,817	Oct. 21	2942	647	101	643
Battery plates during forming. Means for preventing the distortion of secondary.	W. Morrison.	701,918	June 10	1134	260	99	2361
Battery plates. Forming storage.	R. N. Chamberlain	699,492	May 6	689	160	99	1319
Battery plates. Making storage.	A. Meygret	698,039	Apr. 22	3073	677	99	101
Battery plates. Manufacturing secondary.	G. H. Christian	708,694	Sept. 9	1250		100	2245
Battery plates. Manufacturing secondary.	G. H. Christian	708,695	Sept. 9	1252		100	2246
Battery plates of the Planté type. Manufacture of secondary.	H. M. Martin	704,751	July 15	2575	555	100	532
Battery plates. Peroxidizing storage.	R. N. Chamberlain	712,995	Nov. 4	992		101	1099
Battery plates. Preparing storage.	R. C. Browne and F. Balch	716,663	Dec. 23	3939		101	2706
Battery plates. Supporting and lifting mechanism for secondary.	L. H. Flanders	711,488	Oct. 21	2100	455	101	466
Battery-plates. Uniting	W. F. J. Lutz	700,959	May 27	3597	828	99	1966
Battery separator-plate. Secondary.	A. F. Clark	703,895	July 1	968	211	100	194
Battery separator. Storage.	G. M. Willis	693,676	Feb. 18	2775	611	98	1416
Battery separator. Storage.	H. Rodman	704,759	July 15	2586	558 559	100	555
Battery systems of distribution. Automatic regulator for storage.	C. H. Holderrieth	693,463	Feb. 25	3128	693	98	1507
Battery tank. Storage.	H. Lesley	704,750	July 15	2574	555	100	552
Battery zinc element. Primary.	H. J. Brewer	694,089	Feb. 25	3358	791	98	1507
Beaches. Means for forming	F. W. Cushing	715,557	Dec. 9	1736	382	101	2207
Beading and turning machine	G. S. Hill	713,566	Nov. 11	2148	481	101	1353
Beam-clamp	H. S. Collins	709,816	Sept. 23	3519	793	100	2751
Beam joint. Flanged.	J. Ellmore	711,699	Oct. 21	2506	550	101	532
Beam machine. Reciprocating.	N. H. Seeley	707,168	Aug. 19	2229	500 501	100	1605
Beam. Sheet-metal I.	E. Molloy	693,560	Feb. 18	2540	560	98	1368
Beam. Structural-metal	A. A. Strom	708,936	Sept. 9	1731	400	100	2349
Beam. Truss.	W. P. Bettendorf.	712,483	Nov. 4	35	101	905	
Beams. Attachment for uniting metal or wood	J. T. Richards	699,976	May 13	1657	381	99	1529
Beams, channel-beams, &c. Machine for shaping metal I.	W. A. Dunn	709,081	Sept. 16	2056	470	100	2433
Beams, channel-beams, &c. Shaping metal I.	W. A. Dunn	709,080	Sept. 16	2055	469	100	2433
Bean-sorting machine	M. W. Gunn	716,220	Dec. 16	3961	668	101	2507
Bean-cleaning machine	G. R. Davidson	710,142	Sept. 30	4175	940 941	100	2901
Bean cutter and puller	C. H. Knapp	712,458	Oct. 28	3954	865	101	867
Bean-separator.	W. F. Fillmore and D. Anderegg	696,189	Mar. 25	3499	783	98	2489
Bean-separator.	W. F. Fillmore and D. Anderegg	709,146	Sept. 23	3584	711	101	2682
Bean-sorting-machine feeding device	A. T. Ferrell	701,864	June 10	1036	232	99	2340
Bearing	J. N. Everett	702,641	June 17	2485	570	99	2657
Bearing	H. H. Porter	705,863	July 29	4902	1066	100	2032
Bearing	E. E. Hendrick	706,988	Aug. 12	1804	403	100	1502
Bearing	M. Steiner	707,176	Aug. 19	2255	504	100	1613
Bearing	F. H. Richards	714,950	Dec. 2	630	130	101	1959
Bearing. Adjustable	J. S. Heath	717,192	Dec. 30	5080	711	101	2974
Bearing. Adjustable wheel	J. A. Plopp	712,588	Nov. 4	212	60	101	948
Bearing. Antifriction	W. J. Brewer	694,608	Mar. 4	528	115	98	1825
Bearing. Antifriction.	J. Gottbreht	703,402	July 1	69	14	100	16
Bearing. Antifriction.	C. A. Latham	710,785	Oct. 7	753	160	101	154
Bearing. Antifriction roller.	H. Howe	700,201	May 20	2119	484 485	99	1645
Bearing. Antifrictional	F. S. Seagrave and H. P. Elliott.	707,650	Aug. 26	3170	713	100	1820
Bearing. Axle	O. C. Kupe	697,633	Apr. 15	2333	521	99	526
Bearing. Axle	T. F. Van Luven	700,583	May 20	2863	657	99	1797
Bearing. Axle	R. McLaughlin	709,677	Sept. 23	3238	724	100	2695
Bearing. Axle spindle	C. Tolles	716,496	Dec. 23	3597	785	101	2633
Bearing. Ball	F. Hansen	692,135	Jan. 28	3334	755	98	742
Bearing. Ball	D. Lutz	693,291	Feb. 11	2030	449	98	1241
Bearing. Ball	F. Erdsiek	693,315	Feb. 18	3020	467	98	1466
Bearing. Ball	B. D. Ward	696,777	Apr. 1	730	165	99	156

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. k.	Vol.	Page.
Bearing Ball.....	C. E. Roberts.....	698,557	Apr. 20	4083	892	99	917
Bearing Ball.....	M. E. Clark.....	699,014	May 6	4083	215	99	1385
Bearing Ball.....	H. Cogswell.....	700,306	Sept. 16	2906	324	100	2483
Bearing Ball.....	J. E. Y. Rochester.....	714,012	Nov. 25	4156	919	101	1803
Bearing Ball.....	H. Austin.....	714,852	Dec. 2	421	90	101	1919
Bearing Ball.....	T. and J. Fraser.....	715,779	Dec. 16	2154	482	101	2314
Bearing Ball thrust.....	A. Ruedy.....	700,114	Aug. 5	207	48	100	1159
Bearing box. Ball.....	O. Stutzman.....	691,302	Jan. 11	1554	352	98	339
Bearing-box for shaft-hangers.....	W. H. Ermentrout and L. V. Hall.....	711,620	Oct. 21	2353	515	101	518
Bearing Center.....	G. I. King.....	715,085	Dec. 2	846	180	101	2009
Bearing Centrifugal-machine.....	H. F. Cline.....	714,561	Nov. 25	4059	898	101	1783
Bearing Collet thrust.....	B. M. W. Hanson.....	714,896	Dec. 2	516	107	101	1939
Bearing cones. Lock for adjustable ball.....	A. O. Smith.....	700,251	May 20	2225	508	99	1667
Bearing Conical roller.....	J. B. Larned, J. L. Parker, and J. A. Joyce.....	700,145	May 13	1984	455	99	1594
Bearing Disk.....	I. A. Weaver.....	713,027	Nov. 4	1048	244	101	1110
Bearing Electric-motor-shaft.....	H. H. Short.....	690,467	Jan. 7	153	32	98	34
Bearing for bicycles, &c. Spring.....	F. L. Koehler.....	696,102	Mar. 25	3316	747	98	2453
Bearing for crank-shafts, &c. Roller.....	G. H. Reynolds.....	691,487	Jan. 21	2123	476	98	477
Bearing for engraving-machines. Spindle.....	C. R. Jay.....	705,674	July 29	4560	990	100	983
Bearing for journals, shafts, or rotating columns.....	G. J. Capewell.....	692,982	Feb. 11	1418	308	98	1116
Bearing for lawn-mowers. Ball.....	T. C. East.....	707,208	Aug. 19	2481	357	100	1661
Bearing for shafts of machines.....	N. H. Seelye.....	705,167	Aug. 19	2325	500	100	1605
Bearing for wheels of agricultural machines, &c.....	E. Baseman and J. S. Heath.....	717,156	Dec. 30	4981	1080	101	2952
Bearing for wheels. Oilless.....	H. C. Tazewell.....	714,533	Nov. 25	4013	888	101	1774
Bearing hangers. Drop-forged box for roller.....	C. J. Marbach.....	710,487	Oct. 7	170	37	101	36
Bearing Hub.....	E. Christman.....	716,190	Dec. 16	3006	656	101	2497
Bearing Hub and axle.....	A. J. Theiring.....	698,585	Apr. 29	4074	990	99	925
Bearing lubricator. Car-axle.....	L. L. Logan.....	710,481	Oct. 7	149	35	101	32
Bearing of bicycles. Crank-shaft.....	F. I. Johnson.....	697,944	Apr. 15	2896	638	99	645
Bearing Resilient.....	A. Krank.....	712,638	Nov. 4	414	97	101	983
Bearing Roller.....	F. W. Thomas.....	690,484	Jan. 7	210	42	98	46
Bearing Roller.....	F. Whitney.....	690,626	Jan. 7	498	108	98	107
Bearing Roller.....	W. A. Case.....	691,173	Jan. 14	1501	339	98	323
Bearing Roller.....	N. N. and W. N. Whitely, Jr.....	691,622	Jan. 28	209	662	98	663
Bearing Roller.....	L. F. Arnold.....	698,351	Apr. 22	3660	809	99	824
Bearing Roller.....	F. and R. Heinzelman.....	698,944	Apr. 29	4860	1073	99	1099
Bearing Roller.....	C. C. Hubbard.....	699,466	May 6	648	149	99	1310
Bearing Roller.....	W. G. Griffin.....	703,405	July 1	76	15	100	18
Bearing Roller.....	J. D. Twiggs, Jr.....	707,463	Aug. 19	2776	629	100	1722
Bearing Roller.....	A. E. Henderson.....	708,475	Sept. 2	851	194	100	2154
Bearing Roller.....	C. A. Carman.....	709,136	Sept. 16	2162	495	100	2456
Bearing Roller.....	A. E. Henderson.....	709,322	Sept. 16	2530	569	100	2533
Bearing Roller.....	A. E. Henderson.....	709,441	Sept. 16	2772	624	100	2584
Bearing Roller.....	J. A. Layland.....	712,555	Nov. 4	188	44	101	937
Bearing Roller.....	R. D. Camp.....	713,058	Nov. 11	1118	257	101	1142
Bearing Roller.....	A. C. Stilson.....	715,171	Dec. 2	997	216	101	2040
Bearing Roller side.....	J. C. Wands.....	694,503	Mar. 4	301	69	98	1775
Bearing Roller side.....	J. C. Wands.....	694,508	Mar. 4	599	70	98	1778
Bearing Roller side.....	C. F. Huntoon.....	694,549	Mar. 4	414	90	98	1800
Bearing Roller side.....	J. C. Wands.....	695,849	Mar. 18	2517	641	98	2335
Bearing Roller side.....	J. C. Wands.....	708,601	Sept. 9	1071	242	100	2209
Bearing Self-lubricating hub.....	T. Thistlewood.....	708,501	July 1	219	52	100	46
Bearing Shaft-oiling.....	O. W. Schaum.....	712,602	Nov. 4	271	65	101	955
Bearing Shaft.....	G. Wiseman.....	694,043	Feb. 25	1810	773	98	1732
Bearing Shaft.....	W. B. Spencer.....	703,492	July 1	206	49	100	44
Bearing Shaft or axle.....	J. C. Blevney.....	707,673	Aug. 26	3217	722	100	1390
Bearing Shaft thrust.....	S. M. Fulton and A. T. Ames.....	695,807	Mar. 18	2743	625	98	2319
Bearing Sheave.....	T. R. Ferrall.....	715,468	Dec. 9	1549	336	101	2170
Bearing Side.....	J. C. Wands.....	694,506	Mar. 4	311	70	98	1778
Bearing Side.....	C. H. Williams, Jr.....	712,224	Oct. 28	3523	772	101	776
Bearing Side.....	J. C. Wands.....	713,183	Nov. 11	1368	308	101	1194
Bearing slide Ball.....	C. C. Protheroe.....	694,028	Feb. 25	3471	765	98	1575
Bearing Spindle.....	J. Kilburn.....	705,847	July 29	4870	1058	100	1046
Bearing Spindle.....	J. Kilburn.....	709,821	Sept. 23	3525	794	100	2732
Bearing Thrust.....	A. E. Henderson.....	705,839	July 29	4857	1054	100	1043
Bearing Thrust.....	J. Porritt.....	706,779	Aug. 12	1516	336	100	1442
Bearing Wheel.....	I. Beely.....	690,916	Jan. 14	109	223	98	237
Bearings Apparatus for hardening the cups and cones of ball.....	C. H. Chapman.....	714,670	Dec. 2	29	7	101	1843
Bearings &c. Collar for shaft.....	A. Riebe.....	714,611	Nov. 25	4155	919	101	1803
Bearings Device for assembling the rollers of roller.....	E. F. Crowther.....	700,178	May 20	2077	475	99	1636
Bearings Machine for grinding.....	H. La Casse.....	697,500	Apr. 15	2088	463	99	477
Beater-cover. Revolving or traveling.....	J. E. Ragan and J. S. Rosenthal.....	699,347	May 6	414	95	99	1259
Beating-engine.....	E. A. Jones.....	696,822	Apr. 1	802	183	99	170
Beating-engine.....	F. P. Miller.....	706,985	Aug. 12	1881	421	100	1517
Beating-engine.....	E. L. Savage.....	710,014	Sept. 30	3921	885	100	2847
Beating-engine.....	E. A. Jones.....	717,209	Dec. 30	5111	1108	101	2980
Bed.....	W. D. Olney.....	694,183	Feb. 25	3764	821	98	1632
Bed.....	R. A. Bennett.....	701,131	May 27	3931	904	99	2037
Bed.....	L. N. Bachand.....	702,688	June 17	2567	590	99	2074
Bed.....	L. N. Bachand.....	702,689	June 17	2569	590	99	2075
Bed.....	L. N. Bachand.....	702,690	June 17	2571	591	99	2075
Bed.....	L. N. Bachand.....	702,692	June 17	2573	593	99	2076
Bed Air.....	F. L. Richardson.....	712,730	Nov. 4	472	111	101	996
Bed and commode. Invalid.....	W. C. Feely.....	713,416	Nov. 11	1841	416	101	1292
Bed and invalid-chair. Combined spring.....	J. H. T. Edwards.....	690,844	Jan. 7	908	208	98	192



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Bed and lounge. Combined folding.	M. M. Norwalk	716,746	Dec. 23	4076	803	101	2735
Bed and sofa or chair. Convertible.	L. Krager	709,333	Sept. 16	2548	573	100	2537
Bed and wardrobe. Folding.	C. J. Weiss	702,838	June 17	2844	655	99	2733
Bed attachment.	G. Goode	716,886	Dec. 30	4463	967	101	2842
Bed-bottom.	O. G. Franks	693,504	Feb. 18	2625	529	98	1384
Bed-bottom.	J. Hoey	700,929	May 27	3532	817	99	1957
Bed-bottom.	P. B. Rooney	702,185	June 17	2184	498	99	2994
Bed-bottom.	P. B. Rooney	704,215	July 8	1562	344	100	333
Bed-bottom.	E. Rose and I. Isbill	710,394	Sept. 30	4465	1067	100	2963
Bed-bottom attachment.	J. Hoey	696,393	Mar. 25	3558	803	98	2597
Bed-bottom. Spring.	C. B. and F. White	704,416	July 8	1951	423	100	410
Bed-bottom. Spring.	J. F. Brown	704,674	July 15	2429	523	100	523
Bed-bottom support.	T. Klipfel	716,055	Dec. 16	2717	599	101	2436
Bed-bottom support. Elastic.	T. Klipfel	716,054	Dec. 16	2715	599	101	2436
Bed-bottom-supporting hanger.	F. Karr	694,392	May 6	509	118	99	1284
Bed-bottom. Wire.	J. Hoey	697,067	Apr. 8	1348	298	99	396
Bed-brace.	J. L. Peacock	690,992	Jan. 14	1185	268	98	33
Bed-brace.	C. W. Smith	698,416	Apr. 22	3775	833	99	843
Bed-brace.	J. H. Hartman	700,917	May 27	3530	810	99	1951
Bed-brace.	W. D. Newman	701,923	June 10	1141	262	100	2362
Bed-canopy.	V. M. Brown	692,419	Feb. 4	243	85	98	871
Bed-corner support.	M. F. Maddox	713,895	Nov. 18	2776	617	101	1592
Bed. Couch.	J. A. Hutchison and E. R. Leighton	692,140	Jan. 28	3344	757	98	744
Bed. Couch.	D. C. Storr	700,853	May 27	3415	785	99	1929
Bed. Couch.	F. M. Tinkham	707,806	Aug. 26	3525	796	100	1991
Bed-couch.	J. Hoey	714,375	Nov. 25	3727	821	101	1717
Bed-couch. Extension.	J. Hoey	706,178	Aug. 5	344	74	100	1187
Bed-coupling.	E. M. Antisdel	710,732	Oct. 7	639	133	101	131
Bed. Davenport.	L. N. Bachand	702,691	June 17	2572	592	99	2675
Bed. Folding.	L. N. Bachand	699,211	Feb. 11	1899	411	98	1214
Bed. Folding.	C. P. Brown	698,368	Apr. 22	3692	815	99	830
Bed. Folding.	P. Clay	703,545	July 1	397	69	100	62
Bed. Folding.	C. M. Hamilton	710,268	Sept. 30	4405	992	100	2551
Bed. Folding.	C. C. Taylor	712,017	Oct. 28	3151	689	101	703
Bed. Folding.	L. E. Olney	714,229	Nov. 25	3463	702	101	1693
Bed. Folding.	J. A. Lésperance	714,495	Nov. 25	3992	879	101	1756
Bed. Folding.	M. Geisel	716,026	Dec. 16	2661	580	101	2424
Bed. Folding-sofa.	E. C. Hartshorn	700,042	May 13	1769	409	99	1532
Bed-frame.	F. W. Walker	708,131	Sept. 23	771	173	100	2137
Bed-guard.	J. C. Ebb.	706,738	Aug. 12	1363	39	100	1129
Bed. Hospital.	W. H. Fox	704,625	July 15	2349	519	100	596
Bed. Interconvertible couch.	A. E. Kenney	696,449	Apr. 1	102	23, 24	99	27
Bed. Invalid.	E. B. Dones	708,322	Sept. 2	600	139	100	2104
Bed. Knockdown.	W. W. Locher	695,820	Mar. 18	2767	631	98	2324
Bed-lounge.	H. Hagedorn	715,370	Dec. 9	1371	295	101	2135
Bed-lounge. Folding.	N. Levine	704,688	July 15	2457	529	100	528
Bed or couch. Interconvertible.	D. C. Storr	700,852	May 27	2414	784	99	1929
Bed or seat bottom. Spring.	E. E. Eyster	695,636	Mar. 18	2445	553	98	2259
Bed or seat-bottom. Spring.	W. Eyster	699,298	May 6	317	73	99	1284
Bed or seat bottoms. Spring structure for.	L. H. Lawhon	713,180	Dec. 9	1591	345	101	2179
Bed-pan.	E. A. Stockdale	702,608	June 17	2412	551	99	2642
Bed-pan.	C. W. Meinecke and D. Hogan	712,700	Nov. 4	433	101	101	387
Bed-pan cover.	H. C. Lipps	708,371	Sept. 2	670	151	100	2117
Bed-rail.	E. G. Lundquist	702,370	June 10	1947	443	99	2324
Bed-rail.	W. Tucker	704,148	July 8	1475	316	100	310
Bed-rail fastener.	A. E. Jacobson	696,374	Mar. 25	3896	864	98	2569
Bed-rest. Invalid.	J. F. Wilkins	691,224	Jan. 14	1589	392	98	346
Bed-slat holding means.	A. R. Cooper	705,384	July 22	3957	857	100	850
Bed. Sofa.	H. C. Jones.	702,967	June 24	3962	799	99	2796
Bed. Sofa.	H. C. Jones.	702,968	June 24	3963	799	99	2797
Bed. Sofa.	H. C. Jones.	702,969	June 24	3964	710	99	2797
Bed. Sofa.	T. G. Weyer	713,260	Nov. 11	1529	345	101	1225
Bed. Sofa.	A. H. Mooers	715,114	Dec. 2	832	190	101	2419
Bed-spring.	A. Guay	695,697	Mar. 18	2394	542	98	2249
Bed-spring.	F. Moehle	695,732	Mar. 18	2397	599	98	2257
Bed. Spring.	S. L. Simpson	701,100	June 10	1940	49, 50	100	2153
Bed-spring.	M. L. Waters	706,624	Aug. 12	1211	298	100	1377
Bed-spring-stretching apparatus.	P. J. Waters	710,545	Oct. 7	295	65	101	59
Beds or seats. Framework for spring.	W. A. Murray	705,694	July 29	4965	999	100	901
Beds, reclining-chairs, &c. Jointed frame for sofa.	G. W. Britton	702,699	June 17	2383	505	99	2678
Bedstead.	R. Fleck	694,361	Mar. 4	34	8	98	1719
Bedstead.	S. E. Claussen	696,838	Apr. 1	867	200	99	181
Bedstead.	B. R. Blaisdell	698,409	Apr. 22	3957	779	99	799
Bedstead.	E. Chorley	699,885	May 13	1369	291	99	1476
Bedstead.	C. B. and F. White	702,839	June 17	2845	655	99	2733
Bedstead.	C. F. Haller	712,671	Nov. 4	388	90, 91	101	978
Bedstead.	J. Arn	713,374	Nov. 11	1778	490	101	1278
Bedstead.	J. J. McDonough	713,666	Nov. 18	2333	520	101	1407
Bedstead.	W. A. Reddick	714,029	Nov. 18	3973	673	101	1555
Bedstead-erector.	I. W. Campbell	691,352	Jan. 21	1882	434	98	427
Bedstead clamp. Metal.	W. A. Morrison and F. L. Bryant	693,562	Feb. 18	2347	561	98	1379
Bedstead connecting joint.	J. R. Konetsky	702,102	June 10	1484	334	99	2431
Bedstead. Over-fastening.	O. S. Foster	698,002	Apr. 22	3017	693	99	699
Bedstead. Couch.	D. C. Storr	693,923	Feb. 25	3249	715	98	1530
Bedstead. Extension.	W. E. Pack	697,102	Apr. 8	1397	303	99	310
Bedstead. Extension.	R. L. Betts	711,551	Oct. 21	3226	484	101	492

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Invention	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bedstead fastener. Metallic.	W. A. Linphard	693,326	Feb. 11	2094	458	98	1255
Bedstead-fastening	B. H. Jones	704,702	July 15	3475	535	100	533
Bedstead-grate	A. Brecht	702,533	June 17	2267	516	99	2613
Bedstead hook and lock. Iron	G. Williams	691,427	Jan. 21	2016	451	98	455
Bedstead hook and lock. Iron	C. E. Newell	714,733	Dec. 2	156	81	101	1869
Bedstead. Invalid	J. D. Camfield	708,535	July 1	285	65	100	58
Bedstead-joint	C. A. Blakely	703,333	June 24	3772	808	99	2937
Bedstead mattress-support	J. Koch	710,697	Oct. 7	569	119	101	117
Bedstead. Metal	J. A. Mollitor	709,551	Sept. 23	3028	674	100	2650
Bedstead or couch. Extensible	A. de Piniec-Mallet	712,718	Nov. 4	466	111	101	994
Bedstead. Sofa	R. C. Odell	698,130	Apr. 22	3275	717	99	742
Bedstead-table	A. C. Schieding	717,031	Dec. 30	4748	1029	101	2902
Bedstead table attachment	C. Swindell, Sr	713,529	Nov. 11	2379	455	101	1340
Bedstead valance-hanger	L. M. Littell	710,477	Oct. 7	144	34	101	31
Bedsteads. Folding footboard for iron	L. O. Brekke	698,626	Apr. 29	4195	926	99	948
Bedsteads. Manufacture of metallic	I. Van Hagen	695,846	Mar. 18	2812	640	98	2334
Bedsteads or bed-frames. Construction of	C. S. Lloyd	714,924	Dec. 2	574	121	101	1950
Beehive	G. Neiszer	697,741	Apr. 15	2580	564	99	590
Beehive-heater. Electric	H. Vogeler	702,333	June 17	2387	553	99	2731
Beehive wintering-case	M. Hemple	692,784	Feb. 4	1000	226	98	1001
Bee-swarm catcher	E. Stemmeler	700,452	May 20	2621	600	99	1746
Beef-holder	H. Widdowson	701,976	June 10	1238	282	99	2382
Beer. Apparatus for cleaning cellular tissues used in clarifying	C. Spindler	709,652	Sept. 23	3193	713	100	2683
Beer. Apparatus for converting wort into beer-cases. Combining fastener and corner-stay for.	O. Selg and C. Guntrum	694,585	Mar. 4	475	103	98	1811
Beer. Converting wort into	W. G. Carlson	700,334	May 20	2407	548	99	1701
Beer-cooler	O. Selg and C. Guntrum	694,584	Mar. 4	473	102	98	1814
Beer-cooler	J. M. Dieterle	710,145	Sept. 30	4180	941	100	2902
Beer-cooler attachment	F. Ibert	714,703	Dec. 2	101	20	101	1858
Beer-cooling apparatus	O. Schell	703,481	July 1	189	45	100	40
Beer-drawing apparatus	J. P. Hickey	705,243	July 22	3650	790	100	789
Beer. Manufacturing non-alcoholic	C. A. Bartlett	710,739	Oct. 7	652	136	101	153
Beer, &c. Metallic storage vessel for.	V. W. Bradley	709,713	Sept. 23	3301	741	100	2706
Beer-pipe cleaner	V. Lapp	715,467	Dec. 9	1588	344	101	2178
Beer production. Apparatus for continuous	C. B. Johnson	705,247	July 22	3655	791	100	790
Beer-stopper	C. Schmitz	710,396	Sept. 30	4626	1043	100	2996
Beer-storing apparatus	G. Hirschell	711,767	Oct. 21	2642	581	101	581
Beer vats and pipes. Cleaning	C. Spindler	698,869	Apr. 29	4729	1042	99	1072
Beet-blocker	S. A. Sjoø and R. V. Tornell	691,671	Jan. 21	2462	512	98	548
Beet-culture implement	W. W. Bartlett	691,579	Jan. 21	2383	513	98	510
Beet-digger	A. S. Capper	704,614	July 15	2331	506	100	502
Beet-digging machine	A. Morison	712,951	Nov. 4	927	215	101	1086
Beet-puller	E. and A. Pruvot	714,518	Nov. 25	3473	881	101	1705
Beet-puller and topper. Sugar	M. W. Palmer	699,561	May 6	808	190	99	1342
Beet-topper	C. W. Bradley	696,334	Apr. 8	1061	235	99	245
Beet-topping device	M. W. Palmer	709,720	Sept. 23	3313	744	100	2709
Beet-topping machine	K. Zuidewind and A. Van Putten	701,661	June 3	698	154	99	2254
Beet-topping machine	J. Albright	706,145	Aug. 5	281	58, 59	100	1175
Beet-topping machine	E. Heyde	710,578	Oct. 7	344	74	101	69
Bell	C. L. Newton	695,829	Mar. 18	2786	635	98	2328
Bell	C. Arnold	703,332	June 24	3770	868	99	2937
Bell	W. B. Auger	704,289	July 8	734	376	100	362
Bell	G. B. Pickop and W. R. Corbin	716,471	Dec. 23	3551	776	101	2623
Bell. Alarm	A. G. Nelson	691,961	Jan. 28	3016	677	98	678
Bell. Alarm or call	J. O. Lippincott	691,064	Jan. 14	1318	298	98	290
Bell and burglar-alarm. Combination door	F. E. Abbott	709,252	Sept. 16	2397	542	100	2505
Bell. Bicycle	N. N. Hill	698,950	Apr. 29	4868	1074	99	1100
Bell. Bicycle	N. N. Hill	698,951	Apr. 29	4870	1075	99	1101
Bell. Door	J. D. Washburn	692,221	Jan. 28	3497	791	98	775
Bell. Electric	H. F. Keil	701,572	June 3	525	115	99	2217
Bell. Electric	A. F. Spencer	708,091	June 24	3349	770	99	2850
Bell. Electric	C. L. Burlingham	710,946	Oct. 14	1032	229	101	226
Bell. Electric	F. W. Wood	716,801	Dec. 23	4183	917	101	2750
Bell. Electrical call	W. McCormick	715,683	Dec. 9	1949	430	101	2252
Bell for cycles, &c	C. Ford	703,053	June 24	3267	751	99	2834
Bell mounting. Electric	C. Wolttequand	694,511	Mar. 4	318	72	98	1780
Bell ringer. Magneto	E. E. Yaxley	697,698	Apr. 15	2459	548	99	551
Bell. Vehicle	J. D. Caldwell	713,954	Nov. 18	3894	643	101	1526
Belt	J. Loeffelholz	690,663	Jan. 7	937	210	98	197
Belt	B. Kronthal	694,390	Mar. 4	106	24	98	1705
Belt	M. C. Garland	695,549	Mar. 18	2272	513	98	2223
Belt	L. Lewenthal	698,297	Apr. 22	3578	789	99	807
Belt	F. W. Brown	701,141	May 27	3944	907	99	2040
Belt	L. Hummel	701,270	May 27	4174	958	99	2085
Belt-adjuster	A. Coulter	697,608	Apr. 15	2281	510	99	516
Belt-and-pulley gearing	L. J. C. Souhami	694,211	Feb. 25	3812	842	98	1642
Belt-and-roller press	L. B. Eberly	714,673	Dec. 2	49	11	101	1847
Belt and shirt-waist connector	J. N. Burlingham	697,329	Apr. 8	1757	393	99	393
Belt apparatus. Conveyor	A. M. Acklin	702,273	June 10	1775	405	99	2490
Belt. Apparel	W. Geisenheimer	698,005	Apr. 22	3032	664	99	691
Belt-carrier	J. Weichhart	704,723	July 15	2517	544	100	522
Belt. Conveyor	J. M. Dodge	700,308	May 20	2353	536	99	1691
Belt. Conveyor	W. J. Selleck	705,876	July 29	4927	1071	100	1037
Belt. Conveying	J. J. Ridgway	707,355	Aug. 19	2555	584	100	1682
Belt. Distributor or conveyor	F. Finny	712,020	Oct. 28	3156	690	101	701
Belt-dressing to belts. Device for applying	W. K. Richard	712,417	Dec. 28	3867	847	101	854
Belt. Electromedical	S. J. Spalding	691,820	Jan. 28	2768	623	98	628
Belt-fastener	C. Farez	690,938	Jan. 14	1074	241	98	240
Belt fastener, clasp, or buckle	M. Cochran	704,437	July 8	1988	432	100	418
Belt-fastener for connecting ends of drive-belts	H. F. Larava	699,538	May 6	767	181	99	1333
Belt-fastening device	H. H. Taylor	711,798	Oct. 21	2698	594	101	592



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Belt-folding machine	B. O. Hale	694,099	Feb. 25	3596	796	98	1600
Belt for overalls, &c.	J. I. McDonald	712,571	Nov. 4	214	52	101	942
Belt-gearing	W. Newman	694,175	Feb. 25	3747	827	98	1629
Belt-guide	C. McKeen, W. Bayes, and W. Heyer	697,354	Apr. 8	1794	409	99	402
Belt-harvester	J. S. Sourek	700,987	May 27	3646	838	99	1975
Belt-holder	G. D. Schrum	712,098	Oct. 28	3300	723	101	781
Belt-holder and skirt-support	T. F. McEvilly	691,656	Jan. 21	2429	546	98	541
Belt holding or attaching device	H. Parkes	693,058	Feb. 11	1549	388	98	1144
Belt, Lady's	E. Oldenbusch	697,873	Apr. 15	2772	614	99	622
Belt, Leather	J. L. Fahey	708,212	Sept. 2	402	93	100	2964
Belt roller, Conveyor	W. E. Bee	699,477	May 6	668	155	99	1315
Belt roller-support, Conveyor	E. C. Bacon	710,936	Oct. 14	1016	224	101	223
Belt-shifter	F. Hirsch	693,969	Feb. 25	3341	734	98	1548
Belt-shifter arm, Pressed-metal	H. T. Hallowell	706,819	Aug. 12	1588	357	100	1458
Belt-shifter, Automatic	R. I. Fancher	706,680	May 20	3085	694	99	1884
Belt-stretcher	D. R. Davis	715,998	Dec. 16	2601	574	101	2411
Belt stud or fastener	F. M. Linderman and C. A. Binz	708,565	Sept. 9	1009	329	100	2197
Belt-supporting loop attachment	A. L. Brinckl6	711,149	Oct. 14	1439	311	101	314
Belt-supporting mechanism, Conveyor	E. S. Phillips	706,848	Aug. 12	1648	368	100	1472
Belt-tightener	G. A. Schwingel	704,388	July 8	1909	413	100	403
Belt-tightener	N. C. Bassett	706,009	Aug. 5	11	3	100	1118
Belt-tightener	W. E. Bee	708,856	Sept. 9	1591	364	100	2320
Belt-tightener for water-regulating devices	A. C. Mather	715,105	Dec. 2	880	188	101	2016
Belt-tightening tool	H. W. Stone, Jr.	693,182	Feb. 11	1801	397	98	1197
Belt, Waist	H. J. Gaisman and J. Ross	703,568	July 1	342	73	100	69
Belts, Adjustable coupling for sewing-machine or other round	D. H. Abney	691,884	Jan. 28	2874	647	98	651
Belts, Adjustable coupling for sewing-machine or other round	D. H. Abney	691,885	Jan. 28	2876	647	98	651
Belts, &c. Device for cutting off pieces of	E. H. Jahnz	709,408	Sept. 16	2714	609	100	2572
Belts to pulleys, Adjustable	E. H. Jahnz	697,454	Sept. 16	2014	445	99	440
Belts upon pulleys, Device for throwing heavy	T. A. Crowner	692,833	Feb. 11	1097	245	98	1049
Belting, Machine-	M. Gillet	706,044	Aug. 5	81	17	100	1183
Bench:							
See Carpenter's bench. Work-bench.							
Draw-bench. Wringer-bench.							
Bench-clamp	V. F. Simola	703,312	June 24	3727	859	99	2936
Bending angle-irons, channel-irons, &c. Machine for	C. B. Gabriel	706,310	Aug. 5	617	185	100	1240
Berry-box	C. B. Proctor	707,866	Aug. 26	3641	820	100	1912
Berry-picker	P. H. Emley	715,251	Dec. 9	1150	246	101	2069
Berth, &c., for ships. Self-leveling and adjustable	C. St. Hilaire	694,214	Feb. 25	3815	843	98	1643
Berth guard and ladder	J. Plaut	700,233	May 20	2169	500	99	1658
Berth, Ship's	A. W. Hitt	704,878	July 15	2815	609	100	606
Beton strengthened by metal. System of construction with	H. Henkel	693,966	Feb. 25	3335	732	98	1547
Bevel	N. B. Norfolk	691,728	Jan. 21	2563	574	98	569
Bevel	C. F. Mueller	695,110	Mar. 11	1477	329	98	2041
Bevel	D. E. Hughes	709,487	Sept. 23	2903	648	100	2925
Bevel	C. Bodmer	710,173	Sept. 30	3242	857	100	2915
Bevel	J. H. 464	711,464	Oct. 21	2042	445	101	455
Bevel and miter. Combined	C. R. Stedman	707,461	Aug. 19	2771	628	100	1721
Bevel and square	A. C. Cullmann	708,533	Sept. 9	964	218	100	2189
Bevel and square. Combined	T. C. Auringer	716,851	Dec. 30	4395	953	101	2829
Bevel and try square. Transferring	O. Vallier	699,261	May 6	245	57	99	1224
Beverage and making same	M. Pereda	697,656	Apr. 15	2375	588	99	534
Beverage cooling or heating apparatus	C. Bocker	702,315	June 24	3391	688	99	2780
Beverage-dispensing apparatus	H. Schepke	691,292	Jan. 14	1730	344	98	376
Bib	H. Newlin	704,206	July 8	1573	341	100	831
Bicycle	H. Jarvis	690,738	Jan. 7	721	159	98	151
Bicycle	P. and M. Tarzian	692,383	Feb. 4	288	70	98	859
Bicycle	A. G. Anderson	692,811	Feb. 11	1061	238	98	1041
Bicycle	A. P. Morrow	693,239	Feb. 11	2043	445	98	1244
Bicycle	A. G. Anderson	695,164	Mar. 11	1591	329	98	2065
Bicycle	A. W. Smith	695,353	Mar. 25	3012	691	98	2286
Bicycle	N. E. Brown	696,310	Mar. 25	3744	837	98	2541
Bicycle	L. W. Keithley	700,426	May 20	2577	590	99	1736
Bicycle	H. C. Weeks	700,590	May 20	2873	660	99	1799
Bicycle	G. W. Manson	701,747	June 3	839	184	99	2284
Bicycle	A. B. Titus	701,967	June 10	1224	270	99	2380
Bicycle	G. M. Lilburn	702,804	June 17	2783	641	99	2719
Bicycle	E. W. Lymburner	702,976	June 24	3131	720	99	2808
Bicycle	P. Pecor	702,992	June 24	3158	726	99	2813
Bicycle	J. B. Howe and J. J. Fernand	703,129	June 24	3418	784	99	2864
Bicycle	O. W. Griffiths	704,023	July 8	1223	264	100	298
Bicycle	A. G. Anderson	704,317	July 8	1223	264	100	298
Bicycle	H. B. Gillis	704,317	July 8	1223	264	100	298
Bicycle	F. C. Moore	704,901	July 15	2854	619	100	612
Bicycle	W. N. Whitely	707,480	Aug. 19	2808	635	100	1729
Bicycle	C. H. Oumpbaugh	709,679	Sept. 23	3243	725	100	2094
Bicycle	J. W. Master	712,698	Nov. 4	431	101	101	986
Bicycle	G. H. Williams	714,121	Nov. 18	3312	709	101	1596
Bicycle and triocycle	G. A. H. Pietsch	697,104	Apr. 8	1223	264	99	311
Bicycle attachment	A. P. Christiansen	691,597	Jan. 21	2319	521	98	517
Bicycle attachment	H. Simmons	692,725	Feb. 4	894	204	98	982
Bicycle attachment	J. C. Groul	692,849	Feb. 11	1123	251	98	1054
Bicycle attachment	R. Kaucher	694,388	Mar. 4	103	24	98	1734
Bicycle attachment	F. W. Talley	704,145	July 8	1472	315	100	309
Bicycle attachment	J. E. Davis	704,871	July 15	2801	606	100	599
Bicycle attachment	F. Gooch	705,064	July 29	4546	987	100	981
Bicycle attachment	I. A. Lawrence	712,553	Nov. 4	187	44	101	996

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bicycle-brake	A. Doney	698,181	Apr. 22	3366	736	99	761
Bicycle-brake	A. Main	700,850	May 20	2431	554	99	1707
Bicycle-brake	G. Stable	708,089	Sept. 2	162	38	100	2015
Bicycle-brake	H. W. Lapsley	715,819	Dec. 16	2238	409	101	2331
Bicycle-canopy support	G. Valiant	710,726	Oct. 7	625	130	101	128
Bicycle Chainless	F. Booth	709,463	Sept. 23	2835	637	100	2609
Bicycle coaster-brake	A. F. Wynan	691,691	Jan. 21	2498	559	98	555
Bicycle coasting hub and brake combined	H. Lear	712,556	Nov. 4	189	45	101	937
Bicycle construction	J. C. Pratt	702,743	June 17	2665	613	99	2604
Bicycle-coupling	G. R. C. Davis	693,379	Feb. 18	2201	433	98	1298
Bicycle cushion-frame	F. B. Case	708,202	Sept. 2	389	90	100	2061
Bicycle driving-gear	A. M. Shauk	697,675	Apr. 15	2410	536	99	541
Bicycle driving mechanism	J. Baker	693,214	Feb. 11	1903	412	98	1215
Bicycle driving mechanism	G. W. Manson	701,748	June 3	840	184	99	2284
Bicycle driving mechanism	T. C. Robinson	703,613	July 1	421	98	100	83
Bicycle driving mechanism	G. H. Spaulding	707,872	Aug. 26	3649	822	100	1914
Bicycle driving mechanism	K. Brooks	710,245	Sept. 30	4370	982	100	2043
Bicycle driving mechanism	M. Schmidt	713,350	Nov. 11	1729	389	101	1268
Bicycle fan attachment	P. E. Hannum	702,003	June 10	1294	296	99	2391
Bicycle-fork	N. Berglund	697,435	Apr. 15	1979	438	99	456
Bicycle-frame	R. F. Monahan	709,718	Sept. 23	3310	743	100	2708
Bicycle-frame	E. Ellis	712,784	Nov. 4	599	137	101	1022
Bicycle-frame	H. W. Freed	714,571	Nov. 25	4076	902	101	1787
Bicycle-frame. Cushioned	N. B. Zimmerman	703,632	July 1	463	106	100	91
Bicycle-frame. Motor	G. Wagner and B. B. Bird	709,380	Sept. 16	2658	596	100	2561
Bicycle-gear	I. W. Keithley	696,448	Apr. 1	100	23	99	27
Bicycle-gear	E. M. Davis	697,073	Apr. 8	1319	291	99	299
Bicycle-gear. Changeable	H. F. Maynes	696,349	Mar. 25	2824	853	98	2557
Bicycle-gear. Changeable	P. J. Scharb	707,359	Aug. 19	3585	730	100	1683
Bicycle-gearing	C. S. Thompson	692,943	Feb. 11	1389	201	98	1101
Bicycle-gearing	D. Macdonald	705,106	July 22	3344	725	100	726
Bicycle-gearing	F. Steinkamp	716,129	Dec. 16	2866	632	101	2467
Bicycle-grips, &c. Mechanism for covering	J. A. Miller	706,249	Aug. 5	471	100	100	1212
Bicycle-handle-bar	W. N. and W. N. Whitely, Jr.	691,880	Jan. 28	2788	626	98	632
Bicycle-handle-bar	J. Y. Porter	698,137	Apr. 22	3285	730	99	1644
Bicycle-handle-bar	W. N. and W. N. Whitely, Jr.	704,159	July 8	1491	320	100	313
Bicycle-handle-bar grip	B. F. Wheeler	701,437	June 3	275	66	99	2164
Bicycle-handle shield	O. Schmidt	706,346	Aug. 5	686	150	100	1255
Bicycle-hub-clutch	C. M. Rhodes	711,001	Oct. 14	1137	251	101	249
Bicycle-hubs. Adjustable cone for	A. S. Reed	697,017	Apr. 8	1220	272	99	278
Bicycle-lamp lock	A. Fellner	703,907	July 1	984	214	99	197
Bicycle-lock	O. H. Hansen	691,374	Jan. 21	1927	433	98	535
Bicycle-lock	W. H. Niemeier	692,538	Feb. 4	573	134	98	915
Bicycle-lock	W. Klees	698,714	Apr. 29	4410	973	99	999
Bicycle-lock	H. W. Morgan	704,655	July 15	2399	519	100	517
Bicycle-lock	J. C. Fisher	707,310	Aug. 19	2507	563	100	1665
Bicycle-lock	J. G. Hann	710,576	Oct. 7	341	74	101	69
Bicycle luggage-carrier	A. G. Jackson	691,864	Jan. 28	2843	640	98	644
Bicycle-motor	R. M. Keating	695,562	Mar. 18	2306	522	98	2231
Bicycle-motor	R. S. Anderson	710,831	Oct. 7	835	181	101	170
Bicycle package-carrier	T. H. Edmonds	702,292	June 10	1801	412	99	2496
Bicycle parts and securing same. Means for expanding the tubes of	V. E. Rumbarger	693,159	Feb. 11	1771	389	98	1187
Bicycle-pedal	W. H. Fauber	701,028	May 27	3745	857	99	1998
Bicycle-pedal	F. N. Cullen	706,028	Aug. 5	48	10	100	1127
Bicycle-pedal	A. Pherson	706,594	Aug. 12	1156	256	100	1365
Bicycle-pedal	J. A. Decuir	709,306	Sept. 16	2503	564	100	2528
Bicycle-prop	J. Rasmussen	717,271	Dec. 30	5213	1131	101	3002
Bicycle propulsion	W. T. Johnson	691,306	Jan. 28	2914	657	98	658
Bicycle-pump	D. B. Smith	695,002	Mar. 11	1276	281	98	2000
Bicycle-pump	E. F. Smith	690,841	May 27	3389	718	99	1924
Bicycle-pump	D. B. Smith	703,010	June 24	3180	733	99	2517
Bicycle-pump. Automatic	T. A. Diebold	709,397	Sept. 16	2691	604	100	2567
Bicycle-pump coupling	N. N. Hatch	695,551	Mar. 18	2280	515	98	2225
Bicycle repair-spoke	F. A. Wilske	703,029	June 24	3214	740	99	2825
Bicycle-rest. Convertible	W. B. Rignall	706,453	Aug. 5	916	198	100	1301
Bicycle-saddle	G. A. Meighan	694,875	Mar. 4	1059	230	98	1932
Bicycle-saddle	J. M. Gabrielle	701,330	June 3	139	41	99	2147
Bicycle-saddle cloth	F. J. Schürmann	714,245	Nov. 25	3486	767	101	1668
Bicycle saddle-post	O. F. Reeves	708,403	Sept. 2	737	163	100	2129
Bicycle saddle-post. Adjustable	P. N. Goodrich	711,205	Oct. 14	1578	338	101	342
Bicycle-saddles. Antifriction-cover for	W. W. Hughes	707,592	Aug. 26	3049	686	100	1795
Bicycle-seat	H. Jarvis	690,734	Jan. 7	734	160	98	135
Bicycle-seat or handle-bar spring-post	G. S. Lewis	699,400	May 6	523	137	99	1983
Bicycle-seat-post	V. M. Gabrielle and M. Hutchinson	694,539	Mar. 4	335	87	98	1796
Bicycle-seat-post clamp	H. Rast	702,689	June 17	2382	544	99	2638
Bicycle spring-frame	C. W. Erick	699,376	May 6	465	109	99	1370
Bicycle sprocket and crank	G. Spence	709,934	Sept. 30	3764	850	100	2814
Bicycle sprocket-wheel	L. Reedy	699,240	May 6	194	46	99	1214
Bicycle-stand	L. H. Knoche	703,280	June 24	3685	848	99	2917
Bicycle-stand	W. S. Bradbury	706,718	Aug. 12	1326	307	100	1418
Bicycle-support	V. M. Gabrielle	690,718	Jan. 7	695	152	98	1472
Bicycle-support	H. Burnet	693,370	Feb. 18	2185	480	98	1285
Bicycle-support	M. H. Tyler	696,152	Mar. 25	3433	770	98	2477
Bicycle-support	C. Hammond	698,277	Apr. 22	3548	781	99	800
Bicycle-support	H. M. Falcina	701,696	June 3	752	166	99	2266
Bicycle-support	E. Moss	702,862	June 17	2850	609	99	2742
Bicycle-support	E. O. Wilcox	704,161	July 8	1495	320	100	314
Bicycle-support	J. G. Beale	711,462	Oct. 21	3053	444	101	455



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Bicycle-support.....	L. I. Jones.....	715,082	Dec. 2	842	179	101	2008
Bicycle toe-clip.....	G. W. Cole.....	707,209	Aug. 19	2314	517	100	1626
Bicycle two-speed driving-gear.....	W. H. Palmer.....	698,132	Apr. 22	3279	718	99	743
Bicycle-wheel carrier.....	C. R. Smith.....	702,829	June 17	2827	650	99	2729
Bicycle-wheel hub.....	K. C. Hanna.....	698,941	Apr. 29	4856	1071	99	1668
Bicycles. Auxiliary hand-operated driving mechanism for.....	L. Wunner.....	704,284	July 8	1717	375	100	361
Bicycles. Combined mud-guard, supplemental seat, and parcel-holder for.....	H. M. Lambert and O. H. Joy.....	704,885	July 15	2828	611	100	605
Bicycles. Device for coupling two.....	J. Kynaston.....	707,122	Aug. 19	2141	1479	100	1589
Bicycles or like vehicles. Cushion-frame for.....	J. H. Sager and G. D. Green.....	707,262	Aug. 19	2402	539	100	1644
Bicycles. Two-speed driving-gear for.....	W. Goodbrand.....	704,680	July 15	2436	526	100	525
Bier. Knockdown.....	W. M. Rankin.....	712,152	Oct. 28	3406	746	101	753
Bilge-block.....	J. McCullough.....	704,358	July 8	1865	404	100	394
Bill-carrying apparatus. Mechanical.....	A. W. Thierkoff.....	703,853	July 1	883	194	100	177
Bill-sheet and journal-leaf. Combined.....	J. T. Pirie, Jr.....	706,849	Aug. 12	1650	369	100	1472
Billet-heating furnace.....	C. H. Morgan.....	694,022	Feb. 25	3455	703	98	1571
Billet-heating furnace. Continuous.....	H. B. A. Keiser.....	712,386	Oct. 28	3512	833	101	838
Billiard and dining table. Combined.....	C. M. Anderson.....	693,679	Feb. 18	2782	612	98	1417
Billiard-ball.....	E. Kempshall.....	697,925	Apr. 15	2853	631	99	637
Billiard-cue.....	W. Zaehringner.....	692,970	Feb. 11	1393	303	98	1112
Billiard-cue.....	W. C. Rood.....	694,423	Mar. 4	168	37	98	1748
Billiard-cue.....	W. H. Lane.....	710,279	Sept. 30	4422	987	100	2955
Billiard-cue bridge.....	S. Ruhland.....	690,617	Jan. 7	475	103	98	102
Billiard-cue tip.....	F. L. Robinson.....	690,613	Jan. 7	468	101	98	101
Billiard-cue tip.....	E. A. Folsom.....	693,254	Feb. 11	1965	427	98	1228
Billiard-cushion.....	B. A. Stevens.....	708,744	Sept. 9	1345	307	100	2267
Billiard or pool table.....	W. S. Wickham.....	711,030	Oct. 14	1202	264	101	264
Billiard or pool table cushion.....	D. W. Delaney.....	711,482	Oct. 21	2088	452	101	403
Billiard-table cushion.....	T. E. Palmer.....	692,899	Feb. 11	1241	275	98	1080
Billiard-table cushion.....	M. Bensinger.....	707,854	Mar. 27	4138	932	99	2078
Billiard table. Pool.....	W. L. Dethloff.....	691,452	Jan. 21	2066	462	98	465
Billiard-machine.....	B. W. Perkins.....	707,630	Aug. 26	3116	702	100	1809
Bin: See Car grain-bin. Grocer's bin. Elevator-bin. Ore-bin. Fireproof grain-bin. Ore storage and delivery Grain-bin. bin.							
Bin.....	J. A. Jamieson.....	704,806	July 15	2685	580	100	574
Binder.....	H. H. Hoffmann.....	690,859	Jan. 7	931	208	98	193
Binder.....	H. E. Dade.....	691,844	Jan. 28	2812	631	98	637
Binder.....	H. E. Dade.....	712,289	Nov. 11	1617	366	101	1243
Binder alarm device.....	H. E. Irwin.....	704,684	July 15	2441	528	100	526
Binder and transfer-cover for contents. Post.....	A. O. Kittredge.....	693,139	Feb. 11	1717	376	98	1178
Binder-aprons. Fastening means for.....	J. G. and A. Wangerin.....	716,967	Dec. 30	4618	1001	101	2874
Binder-case. Transfer.....	E. B. Goodman.....	710,965	Oct. 14	1068	236	101	234
Binder-frame.....	W. G. Jones.....	711,901	Oct. 21	2869	641	101	635
Binder. Hand.....	H. M. Huntington.....	695,558	Mar. 18	2293	518	98	2283
Binder-knotting device. Automatic.....	F. A. Rytter.....	714,242	Nov. 25	3481	766	101	1667
Binder-lock. Detachable.....	J. A. Shepherd.....	716,947	Dec. 30	4567	992	101	2863
Binder lock. Loose-leaf.....	F. K. Krag.....	698,969	Apr. 29	4903	1083	99	1107
Binder. Loose-leaf.....	L. G. Schult.....	711,536	Oct. 21	2292	479	101	488
Binder. Loose-leaf-ledger.....	H. H. Hoffmann.....	703,922	July 1	1065	219	100	200
Binder. Loose-sheet.....	J. B. Irving.....	706,949	Aug. 12	1820	407	100	1505
Binder-needle.....	E. Will.....	707,482	Aug. 19	2811	635	100	1739
Binder. Paper.....	F. N. Volkert.....	707,037	Aug. 12	1973	443	100	1536
Binder-reel. Folding.....	H. W. Glascock.....	691,901	Jan. 28	2906	654	98	656
Binder. Self.....	E. A. Johnston.....	690,964	Jan. 14	1126	255	98	251
Binder. Temporary.....	C. K. and C. A. Reed.....	692,545	Feb. 4	583	137	98	917
Binder. Temporary.....	E. A. Trussell.....	693,086	Feb. 11	1599	349	98	1154
Binder. Temporary.....	E. A. Barrett.....	697,571	Apr. 15	2898	692	98	502
Binder. Temporary.....	G. A. Roedde.....	697,889	Apr. 15	2797	619	98	680
Binder. Temporary.....	A. G. Balluff.....	699,279	May 6	278	65	99	1231
Binder. Temporary.....	F. L. Clark.....	699,789	May 13	1376	295	99	1449
Binder. Temporary.....	E. A. Trussell.....	700,388	May 20	2510	574	99	1722
Binder. Temporary.....	J. H. Parkes.....	701,928	June 10	1149	263	99	2864
Binder. Temporary.....	P. Ladewig.....	703,730	July 1	658	146	100	132
Binder. Temporary.....	C. K. and C. A. Reed.....	706,257	Aug. 5	492	105	100	1216
Binder. Temporary.....	J. J. Duffy.....	711,656	Oct. 21	2415	531	101	532
Binder. Temporary.....	E. L. Krag.....	712,077	Oct. 28	3268	716	101	725
Binder. Temporary.....	E. H. Barbour.....	712,238	Oct. 28	3549	777	101	782
Binder. Temporary.....	C. C. Boykin.....	712,247	Oct. 28	3560	770	101	784
Binder. Temporary.....	F. W. Reindel.....	715,895	Dec. 16	2352	520	101	2357
Binder. Temporary.....	F. W. Barrett.....	716,368	Dec. 23	3284	728	101	2577
Binder. Temporary loose-leaf.....	J. F. Cordes.....	710,763	Oct. 7	701	148	101	143
Binder title-plate.....	C. F. Mohrhoff.....	693,616	Feb. 18	2662	588	98	1392
Binders. Sheet for serial.....	A. O. and E. R. Kittredge.....	700,506	May 20	2739	627	99	1770
Binding-case for pamphlets, &c.....	F. L. Clark.....	699,788	May 13	1274	295	99	1449
Binding-envelope or file.....	H. D. Winton.....	705,006	July 15	3131	677	100	608
Binding. Metal ring for temporary.....	H. T. Adams and O. Kellner.....	692,584	Feb. 4	652	153	98	992
Binding or edge-protector and making same. Skirt.....	A. S. Knoid.....	690,442	Jan. 7	106	23	98	25
Binoocular glass.....	W. R. Warner and G. Fecker.....	714,340	Nov. 25	3660	807	101	1703
Binoocular glasses.....	G. Fecker.....	701,863	June 10	1035	231	99	2340
Bird-cage.....	M. Pitts.....	702,993	June 24	3159	726	99	2813
Bird. Mechanical singing.....	E. C. Reutlinger and R. Schaller.....	712,595	Nov. 4	256	62	101	951
Biscuit-cutting machines. Automatic cut-off for.....	W. Jones.....	715,205	Dec. 2	1666	329	101	2055
Biscuit machine. Sugar-wafer.....	G. S. Baker.....	712,473	Nov. 4	7	2,3 4,5	101	898

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Biscuits, &c. Apparatus for automatically coating.	G. S. Baker and W. T. Carr	696,536	Apr. 1	254	57 58 59 60	99	58
Bismuth oxydidi methylene digallate and making same.	S. L. Summers	690,672	Jan. 7	583		98	124
Bismuth oxydids. Making methylene digallate of.	S. L. Summers	690,673	Jan. 7	584		98	124
Bit.							
See Bridle-bit.							
Drill-bit.							
Cutter-head bit.							
Bit.	F. H. Davis and C. A. Terry	698,117	Feb. 11	1678	365	98	1170
Bit.	R. A. Shafer	698,914	Feb. 25	3234	713	98	1527
Bit.	E. A. Cowles	713,067	Nov. 11	1135	260 261	101	1146
Bit and reamer. Combination	G. A. Lane	700,430	May 20	2582	592	99	1787
Bit-brace and chain and bench-drill. Combined.	S. McClellan	714,939	Dec. 2	599	125 126	101	1354
Bit-lengthening attachment	B. F. Foss	698,001	Apr. 22	3016	662	99	690
Black plates or sheets. Apparatus for making.	C. W. Bray	717,069	Dec. 30	4820	1045	101	2918
Black plates or sheets. Manufacture of.	C. W. Bray	717,068	Dec. 30	4819	1044	101	2917
Blackboard	J. K. Ritchey	692,354	Feb. 4	242	58	98	849
Blackboard	O. Lange	698,204	Apr. 22	3422	753	99	774
Blackboard-trough	T. R. Baker	713,377	Nov. 11	1782	400	101	1279
Blacking-box holder	G. A. Joy	709,226	Sept. 16	2337	550	100	2492
Blacking kit. Shoe	W. F. Huckel	696,018	Mar. 25	3197	722	98	2427
Blacking machine. Shoe	J. Nicolet	706,091	Aug. 5	170	34	100	1151
Blacking or coloring boots or shoes. Device for.	F. Gibberd	690,850	Jan. 7	917	204 205	98	193
Blank-furnace	M. Gorham	712,296	Oct. 28	3648	796	101	801
Blank-threading-machine feed mechanism.	J. H. Haskins	708,140	Sept. 2	264	63, 64	100	2086
Blanket	J. H. Dailey	691,554	Jan. 21	2203	495	98	494
Blast-furnace	H. M. Williams	708,102	Sept. 2	196	47	100	2022
Blast-furnace	C. I. Rader	695,886	Mar. 18	2886	654	98	2350
Blast-furnace	G. P. Herrick	697,249	Apr. 8	1609	362 363	99	361
Blast-furnace	E. Bertrand	698,248	Apr. 22	3495	769 770	99	790
Blast-furnace	F. C. Norcross and J. Mitchell	700,549	May 20	2809	642	99	1785
Blast-furnace	G. C. Shackleford	710,120	Sept. 30	4125	930	100	2889
Blast-furnace	T. Stapf	712,615	Nov. 4	295	69	101	960
Blast-furnace	R. C. Steese and E. L. Ford	715,519	Dec. 9	1644	356 357	101	2189
Blast-furnace. Combination	G. B. Mitchell	712,012	Nov. 4	1923	239	101	1105
Blast-furnace. Iron	M. P. Boss	708,116	Sept. 2	2413	51	100	2025
Blast or other furnace	J. F. Coffin	705,822	July 29	4829	1049	100	1037
Blasting	G. Thomson	711,545	Oct. 21	2215	482	101	490
Blasting-cartridge	W. Kirsanov	704,465	July 8	2051	444 445	100	431
Blasting-cartridge. Safety	T. F. Durham	691,367	Jan. 21	1917	431	98	433
Blasting purposes. Safety device for.	J. M. Doyle	701,173	May 27	3992	918	99	2051
Bleaching apparatus	C. C. Clark	708,796	Sept. 9	1459	334	100	2292
Bleaching, dyeing, &c. Apparatus for	J. Fallenschmidt	713,755	Nov. 18	2504	557	101	1446
Bleaching-kelr	J. C. Tyms	692,091	Jan. 28	3263	738	98	727
Bleaching-rat	F. Taylor, A. Cooke, and B. W. D. Montgomery.	704,402	July 8	1932	418	100	407
Blind-adjuster	I. L. Garside	713,665	Nov. 4	361	89	101	977
Blind-fastener	L. B. Gaylor	692,261	Feb. 4	89	30	98	201
Blind-fastener. Window	W. Martin	693,726	Feb. 18	2869	632	98	1435
Blind-fastening device	N. O. Bond	702,397	June 17	2010	458	99	2557
Blind-roller	W. F. Dugins	695,094	Mar. 11	1450	321	98	2035
Blind stop. Window	T. A. Upson	703,626	July 1	451	104	100	88
Blind. Venetian or like	R. G. Covey	691,603	Jan. 21	2332	523	98	520
Blind. Window	W. R. Briggs	708,618	Sept. 9	1106	248 249	100	2216
Blinds. Apparatus for operating Venetian	T. Summerton	708,425	Sept. 2	765	172	101	2136
Blinds. Means for actuating window-	D. W. Roberts	699,850	May 13	1405	325	99	1477
Block.							
See Bilge-block.							
Link-motion block.							
Brake-block.	P. J. Macdonald	691,558	Jan. 21	2241	505	98	502
Breach-block.	A. B. Tarbox	712,802	Nov. 4	749	174	101	1052
Building-block.	W. A. C. Waller	690,811	Jan. 7	857	184	98	180
Ceiling-block.	L. Riebe	700,240	May 20	2202	503 504	99	1662
Die-block.	P. O. Keilholtz	702,656	June 17	2509	575	99	2662
Fire-lighter block.	E. M. North	714,734	Dec. 2	158	32	101	1869
Fuel-block.	J. Fritz	695,716	Mar. 18	2571	582	98	2284
Head-block.	T. M. Dewey	701,169	May 27	3988	917	99	2050
Wire-rope block.	L. W. Willson	713,266	Nov. 11	1543	348	101	1228
Block.	G. W. Buskirk	708,525	Sept. 9	953	216	100	2186
Block.	H. S. Mills	710,704	Oct. 7	580	121 122	101	119
Block.	H. S. Mills	710,705	Oct. 7	582	123	101	119
Blower and compressor	C. Neumann	704,360	July 8	1868	404	100	334
Blower. Fireplace and grate	W. F. Lowry	717,251	Dec. 30	5148	1116	101	2989
Blower. Forge	W. Roach	710,614	Oct. 7	427	89	101	85
Blower. Furnace	H. R. Arthur	712,235	Oct. 28	3545	776	101	781



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &c.	Vol.	Page.
Blower-outlet	R. C. Enyart	713,682	Nov. 18	2260	503	101	1392
Blower. Rotary fan	F. B. Schlermerhorn and G. E. Mof fett.	705,307	July 22	3781	820	100	814
Blower. Steam	E. Gibson	715,255	Dec. 9	1158	247	101	2091
Blowing-engine	W. Kennedy	708,716	Sept. 9	1299	296	100	2256
Blowing-engine	A. Raven	709,939	Sept. 30	3754	847	100	2812
Blowing-engine	C. Robinson	713,687	Nov. 18	2375	529	101	1416
Blowpipe	E. Fouché	713,421	Nov. 11	1849	418	101	1294
Blowpipe	M. M. Kerr	713,451	Nov. 11	1896	429	101	1306
Blowpipe. Automatic	A. C. Rosenbrook	712,047	Oct. 28	3299	723	101	731
Blowpipe. Gas	G. B. Snow	709,830	Sept. 23	3537	797	100	2755
Blowpipe-torch	C. G. Woodmansee	692,752	Feb. 4	938	213	98	990
Blue. Obtaining Prussian	A. Sauer	712,726	Nov. 4	481	—	101	998
Bluing device	E. C. Fales	711,923	Oct. 21	2958	651	101	616
Board.							
See Blackboard.	Lap-board.						
Cloth-board.	Molding-board.						
Directory-board.	Panel-board.						
Display-board.	Pitch-board.						
Drafting-board.	Plaster-board.						
Drawing-board.	Scoop-board.						
End-board.	Score-board.						
Game-board.	Shuffle-board.						
Interlocking board.	Sign-board.						
Ironing-board.	Stone-board.						
Keyboard.	Washboard.						
Kneading-board.							
Board-setting instrument	S. Nicholls, Sr.	716,465	Dec. 23	3540	774	101	2620
Boards by means of cleats. Machine for securing together	C. Johnson	707,116	Aug. 19	2184	476	100	1587
Boards. Machine for forming blanks from matched.	C. Johnson	709,710	Sept. 23	3296	740	100	2705
Boards. Stacking of	G. Johnson, Jr.	704,260	July 8	1671	364	100	350
Boat	W. C. McElheny	695,758	Mar. 18	2644	601	98	2399
Boat	A. Dominick and L. Krebs	695,917	Mar. 25	2953	668	98	2377
Boat	C. S. Pruden	697,539	Apr. 15	2161	480	99	491
Boat	J. P. Pool	699,251	Nov. 6	180	48	99	1211
Boat	C. Schaefer	702,823	June 17	2816	647	99	2727
Boat	S. S. York	713,830	Nov. 18	2637	588	101	1472
Boat	I. H. Larr	714,805	Dec. 2	309	68	101	1900
Boat adapted to be propelled on land or in water.	S. T. Brittain	693,228	Feb. 11	1922	418	98	1219
Boat anticapsizing device	F. W. Zimer	705,188	July 22	3514	762	100	762
Boat battery installation. Submarine	S. Lake	712,814	Nov. 4	658	152	101	1032
Boat. Canal	W. O. Bess	700,393	May 20	2518	577	99	1234
Boat-fender	H. W. Higgins	708,476	Sept. 2	853	195	100	2154
Boat hoisting or lowering apparatus	H. A. Mallon	695,067	Mar. 11	1406	309	98	2626
Boat lashing device	S. Nilson	703,664	July 1	534	120	100	105
Boat-launching apparatus. Life	J. W. Bedford	701,009	May 27	3704	849	99	1988
Boat. Life	A. Anrep	690,685	Jan. 7	607	132	98	129
Boat. Life	R. D. Mayo	690,909	Jan. 7	1021	230	98	213
Boat. Life	C. Dickenson	695,634	Mar. 18	2442	552	98	2258
Boat. &c. Life	C. E. Haarsen	696,691	Apr. 1	414	86	99	90
Boat. Life	A. Baumgart	701,128	May 27	3922	901	99	2035
Boat. Life	L. Brown	702,399	June 17	2011	458	99	2558
Boat. Life	R. D. Mayo	709,417	Sept. 16	2728	612	100	2575
Boat-lowering apparatus. Life	A. Kersul	713,889	Nov. 18	2762	613	101	1499
Boat or vessel	J. F. Becker	700,011	May 13	1703	392	99	1538
Boat or vessel. Submarine	J. P. Holland	694,154	Feb. 25	3698	817	98	1621
Boat raising or lowering apparatus. Ship's	A. Wein	691,258	Jan. 14	1657	377	98	574
Boat. Sailing	T. Jensen	711,749	Oct. 21	2608	573	101	527
Boat. Screw-propelled	H. T. Gay	704,685	July 15	2445	528	100	281
Boat stopping and holding device	P. M. Maloney	701,746	June 3	838	184	99	2283
Boat. Submarine	L. A. Carpenter and S. Mahony	691,353	Jan. 21	1883	424	98	427
Boat. Submarine	J. F. Holland	694,643	Mar. 4	585	129	98	1836
Boat. Submarine	S. Lake	695,215	Mar. 11	1684	374	98	2084
Boat. Submarine	J. P. Holland	696,972	Apr. 8	1135	252	99	261
Boat. Submarine	J. P. Holland	702,728	June 17	2640	608	99	2690
Boat. Submarine	J. P. Holland	702,729	June 17	2641	608	99	2690
Boat. Submarine	J. P. Holland	706,561	Aug. 12	1094	242	100	1352
Boat. Submarine	J. P. Holland	708,553	Sept. 9	994	225	100	2194
Boat. Submarine	S. Lake	717,101	Dec. 30	4869	1055	101	2927
Boat. Swing	J. White	713,263	Nov. 11	1536	347	101	1237
Boat-transferring mechanism	L. Donne	697,202	Apr. 8	1540	344	99	347
Boats, &c. Apparatus for raising or lowering canal	A. Uniauf	710,635	Oct. 7	459	95	101	92
Boats, &c. Apparatus for removing material from	A. M. Acklin	707,371	Aug. 19	2612	590	100	1688
Boats, &c. Apparatus for removing materials from	A. M. Acklin	707,491	Aug. 19	2826	640	100	1733
Boats, &c. Apparatus for removing materials from	A. M. Acklin	707,492	Aug. 19	2829	640	100	1734
Boats. Automatic diving mechanism for submarine	J. P. Holland	693,272	Feb. 11	1994	434	98	1234
Boats from ships. Apparatus for launching life	C. F. Petersen	697,359	Apr. 8	1801	408	99	403
Boats. Means for automatically ballasting submarine	J. P. Holland	694,153	Feb. 25	3696	817	98	1620
Boats on ships, &c. Means for disengaging and replacing the supports of	T. Wilson	692,400	Feb. 4	315	76	38	805
Boats, tow-lines, &c. Safety releasing device for the sheets of	C. Smith and G. J. Hone	703,713	July 1	632	139	100	123
Robbin-carrier	G. H. Miller	715,407	Dec. 9	1432	309	101	2148
Robbin-holder	T. J. Murdock	691,162	Jan. 14	1473	335	98	323

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Bobbin-holder.	O. M. Rolfe	606,082	Mar. 25	3258	726	98	2439
Bobbin-holder. Spindle	W. E. Bass and A. C. Chase	604,604	Mar. 4	523	113	99	1821
Bobbin-skewer	R. Schotfeld	704,384	July 15	2284	406	100	1493
Bobbin-spindle	T. W. Cocker	695,912	Mar. 25	2940	066	98	2375
Bobbins, cops, &c. Packing and holding device for.	D. G. Baker	710,937	Oct. 14	1017	225	101	223
Body-brace	M. W. Russell	703,477	July 1	183	43	100	39
Body-brace	P. B. Sheldon	709,055	Sept. 16	2003	456	100	2421
Body-brace	J. U. Adams	714,124	Nov. 25	3220	711	101	1615
Body-kneader	C. E. Gerling	699,916	May 13	1539	334	99	1507
Boiler:							
See Cooking-boiler.	Range-boiler.						
Domestic boiler.	Steam-boiler.						
Engine-boiler.	Tubular boiler.						
Heating-boiler.	Wash-boiler.						
Hot-water boiler.	Water-pipe boiler.						
Locomotive-boiler.	Water-tube boiler.						
Locomotive steam-boiler.							
Boiler	C. J. Cronin	690,701	Jan. 7	646	141	98	136
Boiler	R. L. Morgan	690,981	Jan. 14	1166	264	98	259
Boiler	N. P. Stevens	691,200	Jan. 14	1551	351	98	338
Boiler	G. E. Blake and C. M. Bell	691,712	Jan. 21	2530	566	98	562
Boiler	C. F. Lape	695,614	Mar. 18	2407	545	98	2251
Boiler	E. Solomiac	695,956	Mar. 25	3013	682	98	2389
Boiler	J. A. and J. M. B. Rey	698,140	Apr. 23	3291	721	99	745
Boiler	E. F. Edgar	698,825	Apr. 29	4642	1023	99	1051
Boiler	J. M. McClellon	699,338	May 6	393	91	99	1254
Boiler	E. L. Moore	699,888	May 13	4493	342	99	1497
Boiler	J. F. Rose	701,930	June 10	1171	268	99	2369
Boiler	H. Bergfleth	702,694	June 17	2577	593	99	2676
Boiler	L. Mahy and P. Haillez	706,188	Aug. 5	302	78	100	1190
Boiler	A. W. Ofeldt	707,519	Aug. 19	2881	653	100	1744
Boiler	B. R. Holsington	710,579	Oct. 7	346	75	101	70
Boiler	G. Stade	714,033	Nov. 11	1130	261	101	1146
Boiler	B. R. Crowley and H. C. Cooper	714,068	Nov. 18	3087	683	101	1568
Boiler	J. C. Cooke	714,781	Dec. 2	254	51	101	1889
Boiler	J. C. Cooke	714,783	Dec. 2	256	52	101	1889
Boiler	J. C. Cooke	714,784	Dec. 2	257	52	101	1890
Boiler	R. B. Hobson	715,580	Dec. 9	1771	392	101	2215
Boiler	E. G. Ofeldt	716,467	Dec. 23	3543	774	101	2621
Boiler and its furnace	S. A. Graham	707,509	Aug. 19	2858	648	100	1739
Boiler-brace	J. S. Worth and C. B. Fairweather	699,999	May 13	1687	387	99	1535
Boiler-cleaner	D. N. Baxter	692,599	Feb. 4	680	158	98	938
Boiler-cleaner	J. H. Connolly	695,034	Mar. 11	1344	296	98	2013
Boiler-cleaner	J. W. Cone	710,843	Oct. 7	856	186	101	174
Boiler-cleaner. Mechanical	F. F. Gibbons	702,939	June 21	3047	702	99	2790
Boiler-cleaning composition	C. Nettleton	711,876	Oct. 21	2853		101	626
Boiler-cleaning compound	J. A. Robinson	701,508	June 3	108		99	2192
Boiler combustion apparatus. Steam-	J. R. Fraser	707,911	Aug. 26	3729	836	100	1930
Boiler corrugated furnace. Steam-	D. B. Morison	717,432	Dec. 30	5501	1193	101	3061
Boiler cover-plate	C. L. Huston	703,268	June 24	3670	844	99	2914
Boiler fire-arch. Steam-	N. W. MacIntosh	712,695	Nov. 4	426	100	101	985
Boiler fire-boxes. Ash-pan for steam-	J. W. Funk	712,055	Oct. 28	3224	707	101	719
Boiler-flue. Detachable	J. F. Drake	696,421	Apr. 1	54	13	99	15
Boiler-flue. Detachable	J. F. Drake	698,471	Apr. 29	3890	859	99	887
Boiler-flue rattler	H. O. Westmark	714,344	Nov. 25	3668	808	101	1705
Boiler-flue. Removable	G. W. Middleton	693,298	Feb. 11	2042	445	98	1243
Boiler-flues. Tool for removing.	F. E. Lyon	716,911	Dec. 30	4510	978	101	2851
Boiler-front	R. Eisenmann	715,466	Dec. 9	1545	335	101	2169
Boiler fuel-controller. Steam-	H. K. Clover	692,192	Jan. 28	3429	776	98	761
Boiler-furnace	H. R. Scott	703,710	July 1	616	137	100	122
Boiler-furnace	T. York	705,508	July 22	4188	911	100	895
Boiler-furnace	A. M. Rankin	705,960	July 29	5076	1106	100	1087
Boiler-furnace	A. Muir	709,605	Sept. 23	3117	694	100	2669
Boiler-furnace	L. G. Smith	713,811	Nov. 18	2601	550	101	1464
Boiler-furnace. Smokeless.	J. G. Loeb and J. Hagge	698,977	Apr. 29	4916	1086	99	1110
Boiler furnace. Steam-	T. G. Maey	691,398	Jan. 21	1973	442	98	446
Boiler furnace. Steam-	J. J. Le Duc	691,641	Jan. 21	2405	541	98	535
Boiler furnace. Steam-	A. Peabody and N. F. Johnson	696,849	Apr. 1	898	192	99	177
Boiler furnace. Steam-	H. B. Meech	704,353	July 8	1832	407	100	392
Boiler furnace. Steam-	J. R. Bailey	707,495	Aug. 19	2835	641	100	1735
Boiler furnace. Steam-	J. R. Bailey	707,496	Aug. 19	2836	641	100	1735
Boiler furnace. Steam-	H. H. Patterson and J. T. Burke	707,895	Aug. 26	3639	820	100	1912
Boiler furnace. Steam-	O. D. Orris	709,173	Sept. 16	2237	508	100	2470
Boiler furnace. Water-tube steam-	W. C. Wallace	691,089	Jan. 14	1352	306	98	297
Boiler-grate	H. Straeten and F. Schneck	706,275	Aug. 5	552	120	100	1227
Boiler indicator. Steam-	E. G. Moore	716,588	Dec. 23	3761	818	101	2668
Boiler or other furnace. Steam-	W. F. Wilmoth	702,756	June 17	2698	620	99	2702
Boiler or water-heater	D. M. and A. B. Burns	707,203	Aug. 19	2304	515	100	1624
Boiler-pipe cleaner	J. H. Williams	711,370	Oct. 14	1875	409	101	406
Boiler-repair plug	C. Engelhardt	701,691	June 3	744	164	99	2264
Boiler safety device. Steam-	F. Fokett	704,639	July 15	2190	473	100	475
Boiler safety device. Steam-	F. J. Manley	705,369	July 22	3997	833	100	845
Boiler seam or joint. Steam-	S. M. Vauclain	701,777	June 3	886	197	99	2294



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Boiler-setting	G. L. Norrman	690,870	Jan. 7	947	212	98	199
Boiler-setting	E. R. Eddins	702,414	June 17	2048	466	99	2566
Boiler-setting. Steam	E. Gibson	715,256	Dec. 9	1160	348	101	2691
Boiler-tube cleaner	M. Snyder	690,474	Jan. 7	183	37	98	40
Boiler-tube cleaner	F. W. Patz	695,077	Mar. 11	1424	312	98	2030
Boiler-tube cleaner	C. T. Demarest	697,351	Apr. 8	1759	394	99	394
Boiler-tube cleaner	G. D. Forsyth and E. T. Bell	698,193	Apr. 23	3399	748	99	769
Boiler-tube cleaner	G. C. Quasebarth	706,200	Aug. 5	383	82	100	1195
Boiler-tube cutter	G. A. Beland	695,597	Mar. 18	2373	538	98	2245
Boiler-tube cutter	J. H. Pollard	709,509	Sept. 23	2952	659	100	2634
Boiler-tube expander	F. Palfrey	709,776	Sept. 16	2444	553	100	2515
Boiler-tube-leak stopper	C. S. Clark	714,671	Dec. 2	31	7	101	1943
Boiler-tubes, &c. Implement for cleaning	W. Lombardo	691,475	Jan. 21	2103	472	98	472
Boiler-tubes or hollow shafting. Stopper for	J. T. Mason	700,351	May 20	2432	554	99	1708
Boiler water-circulating system. Steam-	H. E. Cavanagh	695,088	Mar. 11	1439	317	98	2033
Boiler water-gage	E. F. Shallow	701,516	June 3	417	95	99	3194
Boiler water-gage	A. Palmer	715,133	Dec. 2	234	201	101	3075
Boiler water-gage. Steam	D. W. Rockwell	707,943	Aug. 26	3784	849	100	1942
Boiler water-purifying apparatus. Steam-	J. Béha	703,888	July 1	944	206	100	190
Boilers. Apparatus for supplying water to steam-	H. A. Fleuss	690,941	Jan. 14	1077	242	98	241
Boilers. Assembling-frame for steam-	E. J. Pennington	694,413	Mar. 4	151	34	98	1745
Boilers. Means for supplying water to	J. G. Sutherland and F. D. Millard	716,908	Dec. 16	3213	702	101	2537
Boilers. Soot-cleaner for steam-	W. Eichelberger	705,912	July 29	4993	1086	100	1070
Boilers. Superheating device in tubular steam-	W. Schmidt and P. Thomsen	703,482	July 1	190	45	100	40
Boilers. Water-level-testing device for	H. Moore	705,421	July 22	4025	872	100	864
Boilster	T. M. Gallagher	698,928	Apr. 29	4837	1067	99	1098
Boilster	E. W. Palmquist	702,818	June 17	2810	646	99	2725
Boilster	E. Carlson and J. Perrie	703,993	Aug. 8	1158	251	100	245
Boilster	A. Pancoast	715,417	Dec. 9	1480	312	101	2152
Boilster. Body	J. H. Geer and D. Wisor	717,385	Dec. 30	5406	1168	101	3043
Boilster frame. Sham-	L. Gully	691,134	Jan. 14	1427	323	98	312
Boilster guide-block	N. H. Tunks	703,503	July 1	222	52	100	46
Boilster-roll	J. E. Long	705,683	July 29	4579	995	100	987
Boilster spreader. Sham roll-	J. David	691,119	Jan. 14	1398	318	98	306
Boilster-spring	E. B. and C. E. Adams	710,898	Oct. 7	1	1	101	3
Boilster-spring	N. Halverson	710,969	Oct. 14	1073	237	101	235
Bolt.							
See Door-bolt.	Handle-bolt.						
Expansible bolt.	Sliding bolt.						
Expansion-bolt.	Stay-bolt.						
Bolt	A. Hayes	691,765	Jan. 28	2663	597	98	607
Bolt	O. C. Earl	699,617	May 6	930	216	99	1367
Bolt-anchor	F. C. Palmer	696,586	Apr. 1	343	82	99	76
Bolt-anchor	F. C. Palmer	696,587	Apr. 1	345	82	99	76
Bolt and fastener therefor	A. H. Lewis	708,486	Sept. 2	879	199	100	2159
Bolt and nut cutter	W. B. Carolus	710,181	Sept. 30	4249	958	100	2916
Bolt and nut cutter	W. B. Carolus	710,182	Sept. 30	4251	958	100	2917
Bolt cutter and trimmer	J. Candlish	694,829	Mar. 4	943	210	98	1912
Bolt cutter. Stay-	C. J. Carney and J. C. Gorton	713,600	Nov. 18	2217	492	101	1383
Bolt-cutting machine	A. W. Epright	692,258	Feb. 4	77	16	98	815
Bolt-fastening device. Expandible	C. L. Peirce, Jr.	716,273	Dec. 16	3148	689	101	2525
Bolt-heading machine safety device	J. R. Blakeslee	690,919	Jan. 14	1042	224	98	234
Bolt-holder	H. C. Carter	696,006	Mar. 25	3105	703	98	2407
Bolt-lock	O. Jones	700,204	May 20	2124	487	99	1645
Bolt-lock	H. A. Stockman	702,254	June 10	1742	394	99	2484
Bolt-lock	H. A. Stockman	702,255	June 10	1743	394	99	2484
Bolt-locking device	D. Ferguson	705,571	July 29	4878	249	100	947
Bolt-machine	C. K. Lassiter	708,891	Sept. 9	1663	382	100	2334
Bolt or spike extractor	W. C. Morrill	712,082	Oct. 28	3278	718	101	737
Bolt pointing and threading machine	C. A. Johnson	691,316	Jan. 14	1788	406	98	387
Bolt-pointing machine	J. Stephens	691,198	Jan. 14	1547	349	98	337
Bolt-retainer	G. Lakhovsky	703,796	July 1	779	171	100	156
Bolts, rivets, &c. Device for severing	F. A. Carter	693,231	Feb. 11	1927	419	98	1220
Bolting-cloth cleaner	G. W. Combs	692,831	Feb. 11	1094	245	98	1048
Bolting-machine	J. C. Maun	711,232	Oct. 14	1690	343	101	347
Bolting-machine	C. W. Hollender	715,072	Dec. 2	822	174	101	2004
Bonding-pin and making same.	C. A. Holdridge	691,313	Jan. 14	1778	405	98	388
Bone-black kiln	W. T. Mohr	708,808	Sept. 9	1676	385	100	2337
Book	S. S. Hookland	693,393	Feb. 18	2228	488	98	1304
Book	E. E. Kane	697,498	Apr. 22	2214	652	99	670
Book	T. E. Wiederseim, Jr.	698,603	Apr. 29	4150	913	99	940
Book. Account	N. L. Duncan	700,630	May 20	2950	678	99	1816
Book. Account	C. K. Rosenberg	704,216	July 8	1593	345	100	333
Book and binder therefor. Detachable-sheet	G. C. Shepherd	716,647	Dec. 23	3913	855	101	2701
Book and study table	A. Levison	710,160	Sept. 30	4210	948	100	2907
Book and study table	A. F. Hawkins, Jr.	711,048	Oct. 14	1247	272	101	273
Book. Artist's sketch	W. T. Sullivan	703,510	July 1	218	51	100	45
Book-binding protector	S. Litvin	704,554	July 15	2238	485	100	483
Book. Balance	P. R. McCord, Jr.	704,706	July 15	2482	536	100	535
Book. Bank-deposit-coupon	P. Kuehn	705,851	July 29	4883	1061	100	1048
Book. Bookkeeping	R. F. Heiles	713,984	Nov. 18	2949	654	101	1538
Book. Carbon copying	A. R. Turk and B. G. Merrill	691,506	Jan. 21	2159	484	98	385
Book. Check	F. Vandeven	713,539	Nov. 11	3046	669	101	1348
Book. Combined bank deposit and coupon	P. Kuehn	714,920	Dec. 2	567	120	101	1949

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly Volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Book. Coupon collection and receipt.	W. S. Cappeller and C. S. Patteson.	704,856	July 15	2775	600	100	504
Book-cover.	F. E. G. Knibb and T. R. Towler.	701,055	May 27	3788	867	99	2007
Book-cover.	C. Neuenendorfer and B. Witsch.	705,839	Nov. 29	4897	1065	100	1051
Book-cover.	H. C. Thomas and A. Lynch.	718,176	Nov. 11	1355	805	101	1191
Book-cover. Detachable.	G. A. Røedde	691,731	Jan. 21	2566	575	98	1570
Book-cover fastener. Supplemental.	F. R. Derrick	694,841	Mar. 4	958	213	98	5916
Book cover. Memorandum.	M. Vernon	709,687	Sept. 23	3258	730	100	2697
Book. Deposit-credit.	T. D. Taylor	692,584	Feb. 4	289	71	98	859
Book. Deposit-credit.	C. T. Imman	702,007	June 10	1299	297	99	2393
Book. Duplicating.	L. Huffman	712,681	Nov. 4	402	94	101	981
Book-edge-gilding press.	W. Gienow	711,490	Oct. 21	2103	456	101	466
Book fastening device. Account or sales.	L. A. Keith	705,412	July 22	4009	868	100	861
Book-feed for casing-in machines.	F. D. Taylor	716,959	Dec. 30	4606	1997	101	2871
Book. File.	G. W. Buskirk	710,947	Oct. 14	1033	239	101	227
Book for drapers, tailors, or others. Manifold counter check or sales.	J. S. Holmes	692,230	Feb. 4	131	31	98	825
Book for holding and filing sales-slips, &c.	J. F. Huber	708,230	Sept. 2	435	99	100	2070
Book-holder.	E. W. Murphy	694,490	Mar. 4	283	64	98	1772
Book-holder.	C. W. Kromenaker	697,490	Apr. 15	2086	463	99	477
Book-holder.	C. E. Moulton	697,518	Apr. 15	2126	473	99	485
Book-holder.	E. S. Antisdale	702,761	June 17	2746	621	99	2700
Book-holder.	E. Jones	712,936	Nov. 4	888	208	101	1079
Book-holder and arm-rest. Combined.	W. F. Harrah	708,014	Apr. 22	3035	667	99	963
Book-leaf.	C. H. Wheaton.	709,529	Sept. 23	2996	667	100	2644
Book. Manifold.	A. Levison	694,103	Feb. 25	3602	797	98	1601
Book. Manifold.	A. Levison. (Reissue)	12,005	July 1	1119	342	100	221
Book. Manifold copy.	J. C. Browning	706,310	Sept. 2	581	131	100	2050
Book. Manifolding note.	W. F. English	709,250	Sept. 16	2408	545	100	2507
Book. Manifolding sales or copying.	P. Hano	709,320	Sept. 16	2527	569	100	2533
Book. Manifolding sales or order.	B. G. Merrill.	706,769	Aug. 12	1497	332	100	1438
Book. Note.	A. L. Holton	700,648	May 20	2974	683	99	121
Book. Note.	A. L. Holton	703,259	June 24	3653	840	99	2911
Book or file. Bill-collecting.	G. J. Schwartz	715,162	Dec. 2	980	218	101	2035
Book or pad. Manifolding memorandum.	E. Z. Lewis	704,844	July 15	2754	535	100	589
Book or parcel carrier or holder.	T. H. Shottenberg	705,678	July 29	4932	1073	100	1058
Book. Railway tariff.	W. H. Bonner	699,479	May 6	670	155	99	1315
Book-rest.	J. R. Hill	695,810	Mar. 18	2747	627	98	2320
Book-section having wide and narrow leaves.	A. O. and E. R. Kittredge.	697,495	Apr. 15	2079	461	99	470
Book-section having wide and narrow leaves.	A. O. and E. R. Kittredge.	702,012	June 10	1307	299	99	2394
Book stub-holder. Check.	V. H. Hawkins	697,483	Apr. 15	2062	455	99	473
Book-support.	J. H. Leuba	702,307	June 10	1825	417	99	2500
Book-support and arm-rest.	O. G. Law	710,104	Sept. 30	4094	924	100	2282
Book-support or copy-holder.	G. W. Sawyer	707,979	Aug. 26	3849	864	100	1954
Book-supporter.	E. W. Behrens	701,010	May 27	3707	849	99	1969
Book-supporter. Revolving.	S. A. Manuel and J. R. Nottingham.	700,523	May 20	2766	633	99	1777
Book. Triplicate-order.	A. V. Neumann	715,935	Dec. 9	1795	398	101	2219
Books, &c. Cutting attachment for check.	G. G. Ritchie	715,870	Dec. 16	2538	522	101	2359
Books. Device for fastening loose-leaf.	J. A. Waldo, Jr.	708,162	Sept. 2	187	44	100	2020
Books, &c. Holder for	S. Stedeker	716,128	Dec. 16	2865	631	101	2467
Books. Machine for casing-in.	A. I. Jacobs	690,959	Jan. 14	1113	253	98	248
Books. Making.	A. R. Dressel	702,413	June 17	2044	466	99	2565
Bookbinder's clamp.	L. J. A. Staniewicz	703,495	July 1	210	50	100	44
Bookbinder's press-punch.	P. A. Bowen	702,698	June 17	2580	594	99	2677
Bookbinding.	J. F. Swanney	691,983	Jan. 28	3057	686	98	686
Bookbinding.	R. P. Winkler	691,593	Mar. 4	494	107	98	1818
Bookbinding.	W. Folz	698,921	Apr. 29	4628	1065	99	1092
Bookbinding.	J. L. McMillan	708,065	Sept. 2	120	29	100	2006
Bookbinding-machine.	W. G. Joyce, Jr.	703,933	July 1	1024	222	100	204
Bookbinding-machine.	W. E. Blauvelt	715,540	Dec. 9	1697	370	101	2199
Bookbinding-sheet.	G. Hager	709,599	Sept. 23	3109	693	100	2668
Bookcase. Sectional.	A. Lawson	713,675	Nov. 18	2317	516	101	1403
Bookcase. Sectional.	P. W. Casler	715,243	Dec. 9	1137	517	101	2086
Bookkeeping.	C. Seltz	709,725	Sept. 23	3321	746	100	2711
Bookkeeping system.	F. Lapointe	710,103	Sept. 30	4091	923	100	2282
Boom-rigging.	F. V. Nielsen	710,334	Sept. 30	4517	1018	100	2374
Booster system.	G. Baehr	715,236	Dec. 9	1126	249	101	2384
Boot. Knee or arm.	W. E. Sell	714,014	Nov. 18	3070	273	101	1565
Boot or like stretching and molding device.	E. Salutyrski	691,076	Jan. 14	1333	301	98	293
Boot or shoe.	C. Peters	691,291	Jan. 14	1726	393	98	375
Boot or shoe.	E. Roche. (Reissue)	11,967	Feb. 11	2156	473	98	1269
Boot or shoe.	F. W. Slater	702,600	June 17	2407	550	99	2641
Boot or shoe.	J. B. Hadaway	705,231	July 22	3626	786	100	784
Boot or shoe.	W. Gordon and G. E. Warren	706,551	Aug. 12	1060	239	100	1349
Boot or shoe.	A. F. Littlefield	711,053	Oct. 14	1267	275	101	277
Boot or shoe cleaner.	B. E. Bengtson and A. A. Gustafson.	711,194	Oct. 14	1549	333	101	337
Boot or shoe cleaning machine.	O. Müller	715,118	Dec. 2	899	192	101	2021
Boot or shoe counter stiffener.	W. B. Johnson	715,311	Dec. 16	2224	495	101	2329
Boot or shoe cushioning device.	F. P. McIntyre	699,549	May 6	794	187	99	1339



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &g	Vol.	Page.
Boot or shoe protector .....	R. Christensen .....	706,900	Aug. 12	1748	390	100	1491
Boot or shoe tree .....	H. A. Ballard .....	691,304	Jan. 14	1753	399 400	98	380
Boot or shoe tree .....	H. A. Ballard and W. A. Copeland .....	691,305	Jan. 14	1757	400 401	98	381
Boot or shoe tree .....	A. C. McKnight .....	713,482	Nov. 11	1953	442	101	1315
Boot or shoe treeing machine .....	H. A. Ballard .....	691,576	Jan. 21	2274	511 512	98	509
Boot or shoe treeing machine .....	W. A. Copeland, G. Jones, and H. A. Ballard .....	691,602	Jan. 21	2289	528	98	519
Boot or shoe upper fastener .....	W. E. Sweeny .....	715,216	Dec. 9	1275	272	101	2117
Boot or shoe welt .....	J. O. Bicknell .....	707,076	Aug. 19	2460	461	100	1571
Boot-stitching machine .....	P. Randall and G. Davis .....	709,041	Sept. 16	1975	451	100	2415
Boot-treeing machine .....	A. D. Tyler, Jr. ....	693,466	Feb. 18	2363	517 518	98	1332
Boots, &c. Fastener for .....	C. A. Pfennig .....	715,858	Dec. 16	2340	517	101	2353
Boots or shoes, &c. Machine for wax-treating parts of .....	H. E. Beckwith and C. Pease .....	699,476	May 6	665	154	99	1314
Boots or shoes. Medium for polishing parts of .....	J. E. Morse .....	699,628	May 6	948	219	99	1370
Boring and drilling machine .....	B. E. Hervey .....	708,881	Sept. 9	1640	377	100	2329
Boring and tenoning machine .....	A. A. Koch .....	710,871	Oct. 7	899	195	101	1782
Boring apparatus .....	F. Holbrook .....	691,629	Jan. 21	2389	537	98	531
Boring apparatus .....	A. L. Ronaldson .....	710,012	Sept. 30	3918	885	100	2347
Boring apparatus. Deep .....	W. Wolski .....	699,273	May 6	262	61	99	1234
Boring apparatus. Hydraulic .....	G. Schmidt .....	704,385	July 8	1904	412	100	462
Boring apparatus. Rotary .....	W. Pruszkowski .....	701,393	June 3	191	41, 42	99	2147
Boring apparatus with eccentric boring-tools. Centering and guiding device for deep .....	J. Wyczynski .....	712,887	Nov. 4	795	184	101	1060
Boring-bar .....	W. A. Neylon and J. Gouldsbarry .....	709,275	Sept. 16	2442	532	100	2514
Boring holes in rock, &c. ....	F. H. Davis .....	694,534	Mar. 4	388	85	98	1795
Boring holes in rock, &c. Apparatus for .....	F. H. Davis .....	694,535	Mar. 4	389	85	98	1795
Boring implement .....	J. Lund .....	710,700	Oct. 7	573	128	101	1781
Boring-machine .....	R. W. Rowley .....	693,743	Feb. 18	2896	637	98	1441
Boring-machine .....	G. de Laval and C. W. Chisholm .....	703,660	July 1	524	118	100	103
Boring-machine .....	R. R. Miller .....	706,382	Aug. 12	1131	250	100	1369
Boring-machine .....	W. S. Sherman .....	708,177	Sept. 2	333	80	100	2449
Boring-machine. Double-spindle drawer-pull .....	S. F. Wise .....	694,510	Mar. 4	316	71	98	1779
Boring-machine. Horizontal .....	G. A. Ensign .....	691,121	Jan. 14	1400	818 819	98	306
Boring-machine work-holding device .....	M. Young .....	700,000	May 13	1688	388	99	1335
Boring tool .....	J. Gray, Sr. ....	696,902	Apr. 1	977	218	99	267
Boring-tool .....	G. W. Latham .....	716,441	Dec. 23	3488	762	101	2611
Boring-tool. Expandable .....	H. Liethegener .....	704,057	July 8	1271	275	100	267
Boring tool. Joist .....	S. McClellan .....	704,657	July 15	2401	519	100	518
Bottle .....	A. Maake .....	692,321	Feb. 4	186	43	98	838
Bottle .....	R. W. Pokrop .....	698,135	Apr. 22	3283	719	99	744
Bottle .....	W. F. Holland .....	700,036	Aug. 5	105	22	100	1133
Bottle .....	J. O'Connor .....	709,419	Sept. 16	2731	613	100	2576
Bottle .....	V. Barcavitz .....	710,314	Sept. 30	4481	1011	100	2567
Bottle .....	F. T. Callahan .....	711,616	Oct. 21	2349	513	101	517
Bottle .....	M. Brady .....	712,645	Nov. 4	348	81	101	970
Bottle .....	V. D. White .....	713,548	Nov. 11	2112	473	101	1346
Bottle .....	W. A. Swanson .....	714,968	Dec. 2	646	136	101	1965
Bottle .....	J. F. Mason .....	715,103	Dec. 2	878	187	101	2016
Bottle .....	J. F. Mason .....	715,104	Dec. 2	879	187	101	2016
Bottle .....	L. Lesser .....	715,591	Dec. 9	1790	397	101	2218
Bottle attachment .....	L. S. De Forest .....	706,896	Aug. 12	1570	352	100	1454
Bottle-brushing machine .....	C. F. G. Burow .....	712,042	Oct. 28	3186	697	101	711
Bottle, can, &c. Tooth-powder .....	H. B. Kent .....	717,216	Dec. 30	5123	1111	101	2964
Bottle-cap .....	F. Recht .....	707,978	Aug. 26	3848	864 884 885	100	1954
Bottle-cap-making machine .....	B. Adriance and A. Calleson .....	716,611	Dec. 23	3840	836 837 838	101	2686
Bottle-caps. Tool for removing .....	W. L. Dunham .....	706,911	Aug. 12	1762	393	100	1494
Bottle-capping machine .....	R. Flanigan .....	694,144	Feb. 25	3669	812	98	1615
Bottle-capping machine .....	W. H. Scott .....	697,672	Apr. 15	2405	535	99	540
Bottle-capping machine .....	J. H. Fox .....	702,716	June 17	2615	602	99	2684
Bottle-capping machine .....	O. Heyman .....	703,203	June 24	3558	817	99	2891
Bottle-capping machine .....	J. D. Schell .....	708,083	Sept. 2	154	37	100	2013
Bottle-capping machine .....	G. Norton .....	710,236	Sept. 30	4449	1003 1004	100	2960
Bottle-capping machine .....	H. G. Davis .....	715,558	Dec. 9	1737	382 383	101	2307
Bottle-carrier .....	O. F. Clark .....	697,325	Apr. 8	1747	390	99	392
Bottle-carrier .....	O. F. Clark .....	710,563	Oct. 7	323	70	101	65
Bottle-carrying means .....	H. M. A. Harders .....	699,868	May 13	1439	332	99	1485
Bottle-cleaner .....	D. H. Irving .....	700,499	May 20	3722	623	99	1767
Bottle-cleaning machine .....	A. Goetz .....	694,371	Mar. 4	61	15	98	1724
Bottle-cleaning machine .....	A. A. Pindstoffe .....	694,372	Mar. 4	65	15	98	1725
Bottle-cleaning machine .....	A. A. Pindstoffe .....	714,739	Dec. 2	165	33	101	1870
Bottle-closure .....	J. Schies .....	693,161	Feb. 11	1774	389	98	1187
Bottle-closure .....	J. Dakers .....	698,907	Apr. 29	4804	1038 1039	99	1086
Bottle-closure .....	E. M. Van Meter .....	700,462	May 20	2645	696	99	1751
Bottle-closure .....	E. A. Levick .....	705,103	July 22	3339	724	100	726
Bottle-closure .....	W. J. Byeraft .....	709,201	Sept. 16	2296	521	100	2483
Bottle-closure .....	G. J. Adams .....	709,292	Sept. 16	2474	557	100	2321
Bottle-closure .....	F. W. Leuthesser .....	711,430	Oct. 14	1976	429	101	426
Bottle-closure .....	G. White, Jr. ....	713,824	Nov. 18	2624	586	101	1469
Bottle-closure .....	L. D. Parks .....	714,326	Nov. 25	3641	802	101	1700
Bottle-closure .....	G. J. Adams .....	714,991	Dec. 2	688	143	101	1974
Bottle-conveyer .....	P. M. Kuehnrich and C. Laursen .....	713,775	Nov. 18	2537	565	101	1452

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. E.	Vol.	Page.
Bottle-cork. Non-refillable.	J. B. Goodman	692,848	Feb. 11	1121	250	98	1054
Bottle-cork-wiring machine.	C. J. Warren	707,739	Aug. 26	3358	756	100	1858
Bottle-corking machine.	C. J. Warren	707,993	Aug. 26	3878	871	100	1960
Bottle-cover. Temperature-preserving.	F. T. Griffith	704,072	July 15	3065	659	100	654
Bottle-covers, &c. Machine for making mats for	V. Fleckenstein.	705,332	July 22	3849	833	100	828
Bottle-covers, &c. Machine for making mats for	V. Fleckenstein.	705,333	July 22	3856	834	100	830
Bottle-covers. Machine for making straw	M. van den Heuvel	692,662	Feb. 4	783	179	98	959
Bottle filler. Siphon.	J. K. Turajski	714,264	Nov. 25	3525	775	101	1677
Bottle filling and capping machine.	T. L. Valerius	690,488	Jan. 7	218	43, 44	98	47
Bottle filling and corking machine.	W. B. Langan	700,413	Sept. 10	321	610	101	2573
Bottle filling and stoppering machine.	P. Bins	704,171	July 8	1514	325	100	818
Bottle filling and stoppering machine.	R. G. Nash	714,511	Nov. 25	3966	878	101	1762
Bottle-filling apparatus.	C. Hitzl	712,454	Oct. 28	3944	863	101	865
Bottle-filling device.	C. T. White.	703,874	July 1	921	202	100	185
Bottle-filling machine.	L. Strebel and C. W. Williams	695,247	Mar. 11	1736	384	98	2005
Bottle-filling machine.	E. Figueredo and L. Echemendia.	696,955	Apr. 8	1111	246	99	256
Bottle-filling machine.	L. Strebel and C. W. Williams	697,221	Apr. 8	1567	351	99	352
Bottle-filling machine.	L. Strebel and C. W. Williams	698,871	Apr. 29	4732	1043	99	1072
Bottle-filling machine.	J. K. Weed	703,870	July 1	909	109	100	183
Bottle-filling machine.	B. M. Glasgow	705,229	July 22	3620	784	100	783
Bottle-filling machine.	C. J. Warren	707,994	Aug. 26	3883	872	100	1961
Bottle-filling machine.	S. C. Miller	711,781	Oct. 21	2667	588	101	586
Bottle-filling machine.	J. Ramsey	714,743	Dec. 2	174	95	101	1872
Bottle for aerated liquids.	D. Tognarini	701,968	June 10	1225	290	98	2500
Bottle for medicine, &c.	C. W. McShane	710,718	Oct. 7	287	124	101	120
Bottle for preventing refilling.	J. F. McConaghy and G. G. Duddies	700,070	May 13	1812	420	99	1561
Bottle for putting up tooth, toilet, or other powders.	D. C. Richardson	716,759	Dec. 23	4100	899	101	2741
Bottle-holder.	E. C. Ludin	703,802	July 1	790	174	100	158
Bottle-holder.	A. Schneider	713,160	Nov. 11	1316	297	101	1184
Bottle-holder.	A. Schneider and C. A. Carlson.	717,033	Dec. 30	4750	1030	101	2503
Bottle holder. Fruit.	J. U. Harrington	716,226	Dec. 16	3008	670	101	2500
Bottle holder. Nursing.	W. J. Smith	716,588	Dec. 23	3302	826	101	2676
Bottle-holding case.	F. W. Molitor	713,130	Nov. 11	1262	286	101	1174
Bottle-illuminating machine.	J. H. Koehler.	715,393	Dec. 9	1410	304	101	2143
Bottle. Infant's feeding.	F. R. Graham-Yooll.	696,328	Mar. 25	3791	845	98	2551
Bottle-lock.	W. E. Swett	712,444	Oct. 28	3931	860	101	863
Bottle-making machine.	A. S. Reeves	716,478	Dec. 23	3563	779	101	2025
Bottle. Milk-testing.	O. Anderson	710,553	Oct. 7	306	67	101	61
Bottle. Neck.	J. Carpenter.	692,237	Feb. 4	38	8	98	806
Bottle-neck-forming tool.	R. Hay	706,556	Aug. 12	1087	241	100	1351
Bottle necks and lips. Implement for finishing	E. D. Schmitt	706,344	Aug. 5	682	148	100	1254
Bottle. Non-refillable.	A. F. Wilson	692,957	Feb. 11	1369	298	98	1107
Bottle. Non-refillable.	O. E. Blaine	690,631	Jan. 7	508	111	98	109
Bottle. Non-refillable.	J. S. Bromhead.	691,108	Jan. 14	1352	314	98	303
Bottle. Non-refillable.	S. Love	691,152	Jan. 14	1457	382	98	318
Bottle. Non-refillable.	A. C. C. Liardet	691,553	Jan. 21	2221	542	98	500
Bottle. Non-refillable.	A. C. C. Liardet	692,205	Jan. 28	3455	781	98	767
Bottle. Non-refillable.	E. A. Johnson and G. M. Roberts	692,520	Feb. 4	539	127	98	908
Bottle. Non-refillable.	C. Carr	692,766	Feb. 4	969	219	98	995
Bottle. Non-refillable.	E. T. Evans	692,772	Feb. 4	978	221	98	997
Bottle. Non-refillable.	C. F. Heath	693,601	Feb. 18	2640	582	98	1388
Bottle. Non-refillable.	A. E. Gibson.	695,044	Mar. 11	1365	300	98	2018
Bottle. Non-refillable.	J. R. Latham	695,817	Mar. 18	2762	630	98	2323
Bottle. Non-refillable.	M. H. Sheppard, Jr.	696,275	Mar. 25	3660	818	98	2522
Bottle. Non-refillable.	J. W. McCracken.	697,352	Apr. 8	1790	401	99	401
Bottle. Non-refillable.	A. J. Brooks	697,798	Apr. 15	2638	585	99	592
Bottle. Non-refillable.	F. Klein	697,851	Apr. 15	2728	605	99	614
Bottle. Non-refillable.	J. Y. Barton	697,878	Apr. 15	2775	616	99	623
Bottle. Non-refillable.	S. J. Bailey	698,241	Apr. 22	3482	766	99	787
Bottle. Non-refillable.	E. C. Shilling	698,330	Apr. 22	3626	801	99	816
Bottle. Non-refillable.	P. H. Coyne	698,906	Apr. 29	4803	1058	99	1086
Bottle. Non-refillable.	D. K. Snyder	699,421	May 6	572	130	99	1293
Bottle. Non-refillable.	J. Zangel	699,609	May 6	910	212	99	1363
Bottle. Non-refillable.	J. R. Latham	699,626	May 6	945	219	99	1370
Bottle. Non-refillable.	S. J. Farrell and H. E. Kresse	700,312	May 20	2363	539	99	1692
Bottle. Non-refillable.	D. F. Fitzgerald, P. M. Seifert, and M. Kimmel.	700,754	May 27	3230	740	99	1891
Bottle. Non-refillable.	F. J. Herrington	700,770	May 27	3263	747	99	1899
Bottle. Non-refillable.	U. S. Alz.	701,387	June 10	1262	287	99	2386
Bottle. Non-refillable.	G. Ferguson	702,000	June 10	1292	295	99	2391
Bottle. Non-refillable.	F. J. Bracconier	702,582	June 17	1476	316	99	2612
Bottle. Non-refillable.	S. J. Bailey	703,709	June 17	2503	599	99	2081
Bottle. Non-refillable.	E. Fichter	703,398	July 1	64	12	100	15
Bottle. Non-refillable.	F. C. Mitchell.	703,944	July 1	1047	227	100	208
Bottle. Non-refillable.	T. P. Weible	704,605	July 15	2317	503	100	500
Bottle. Non-refillable.	H. F. Buttner	704,613	July 15	2330	506	100	502
Bottle. Non-refillable.	L. C. Wedgefuth	704,994	July 15	3112	670	100	665
Bottle. Non-refillable.	C. P. Seables and D. J. Minton	705,309	July 22	3786	811	100	883
Bottle. Non-refillable.	J. Tamboer	705,451	July 22	4130	898	100	895
Bottle. Non-refillable.	J. Ewald	706,914	Aug. 12	1765	394	100	1495
Bottle. Non-refillable.	E. I. Allen	707,068	Aug. 19	2047	457	100	1569
Bottle. Non-refillable.	S. D. Blocker	707,199	Aug. 19	2298	514	100	1623
Bottle. Non-refillable.	T. E. Shortell.	707,265	Aug. 19	2407	540	100	1645



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Bottle. Non-refillable.	E. Hoevrichs	707,512	Aug. 19	2862	649	100	1740
Bottle. Non-refillable.	E. Burns	707,759	Aug. 26	3419	770	100	1870
Bottle. Non-refillable.	H. B. Reubelt	708,171	Sept. 2	324	77	100	2047
Bottle. Non-refillable.	J. J. Bentz	708,302	Sept. 2	565	128	100	2066
Bottle. Non-refillable.	C. C. Guernsey	708,545	Sept. 9	981	222	100	2191
Bottle. Non-refillable.	H. F. Bailey	708,981	Sept. 16	1842	424	100	2209
Bottle. Non-refillable.	R. McCord	709,081	Sept. 16	1957	448	100	2411
Bottle. Non-refillable.	W. G. Lawrence	709,069	Sept. 16	1969	480	100	2442
Bottle. Non-refillable.	H. Breunig and H. J. Waldeyer	710,139	Sept. 30	4170	939	100	2900
Bottle. Non-refillable.	J. W. Edwards	710,319	Sept. 30	4492	1013	100	2962
Bottle. Non-refillable.	F. A. Lucas	710,875	Oct. 7	905	196	101	184
Bottle. Non-refillable.	J. R. Latham	710,917	Oct. 7	977	215	101	198
Bottle. Non-refillable.	J. V. Beugle	711,692	Oct. 21	2495	547	101	550
Bottle. Non-refillable.	E. Barrath	712,172	Oct. 28	3438	754	101	738
Bottle. Non-refillable.	M. M. Beam	712,173	Oct. 28	3439	754	101	738
Bottle. Non-refillable.	J. E. De Alf	712,183	Oct. 28	3435	757	101	738
Bottle. Non-refillable.	M. F. Bell	712,638	Nov. 4	337	79	101	968
Bottle. Non-refillable.	W. C. Pease	712,714	Nov. 4	459	109	101	968
Bottle. Non-refillable.	G. P. Ahlers and G. A. Schaal	712,751	Nov. 4	523	122	101	1002
Bottle. Non-refillable.	W. Yuille	712,990	Nov. 4	984	230	101	1098
Bottle. Non-refillable.	W. S. McCrea	713,136	Nov. 11	1269	288	101	1175
Bottle. Non-refillable.	T. J. F. Müller	713,286	Nov. 11	1461	351	101	1243
Bottle. Non-refillable.	W. F. Thompson	713,616	Nov. 18	2609	582	101	1468
Bottle. Non-refillable.	S. McQuaig	714,018	Nov. 18	3008	670	101	1550
Bottle. Non-refillable.	E. M. de Valdes	714,338	Nov. 25	3658	806	101	1778
Bottle. Non-refillable.	U. S. Alz	714,656	Dec. 2	4	2	101	1838
Bottle. Non-refillable.	W. F. Thompson	714,974	Dec. 2	657	138	101	1967
Bottle. Non-refillable.	E. Kersey	715,389	Dec. 9	1402	302	101	2112
Bottle. Non-refillable.	E. P. Sawelle	715,877	Dec. 16	1873	469	101	2362
Bottle. Non-refillable.	J. S. Candee	715,974	Dec. 16	2359	565	101	2400
Bottle. Non-refillable.	J. A. De Vito	716,391	Dec. 23	3394	740	101	2549
Bottle. Non-refillable.	J. C. Beitler	716,657	Dec. 23	3930	858	101	2704
Bottle. Non-refillable.	R. E. Kabisch	717,099	Dec. 30	4866	1054	101	2927
Bottle. Non-refillable and lock-seal.	W. T. Kosinski	698,716	Apr. 29	4412	973	99	999
Bottle. Nursing.	J. J. Minwegen	701,070	May 27	3804	872	99	2010
Bottle. Nursing.	A. Blatin	714,338	Nov. 25	327	716	101	1559
Bottle. Nursing.	L. Anderson	714,532	Nov. 25	4045	895	101	1780
Bottle or flask.	E. D. Read	704,105	July 8	1383	298	100	291
Bottle or jar	E. L. Livingstone	704,482	July 8	2088	453	100	291
Bottle or jar press	J. Haley	697,915	Apr. 15	2834	627	99	634
Bottle-protector	J. M. and D. Raynor	714,949	Dec. 2	618	130	101	1959
Bottle-rest. Adjustable	R. Schmidt	708,173	Sept. 2	327	73	100	2049
Bottle-rinser	H. W. Colby and E. O. Heinsdorf.	709,698	Sept. 23	3277	734	100	2701
Bottle-rinsing apparatus	G. Heurteaux	700,925	May 27	3542	812	99	1953
Bottle-rinsing machine	G. Doherty	695,446	Mar. 18	2077	468	98	2184
Bottle safety attachment. Poison.	C. J. Siebenhaar	700,095	May 13	1853	431	99	1569
Bottle. Siphon.	E. Scheiber and E. Kravysser	710,305	Sept. 30	4467	1007	100	2964
Bottle. Siphon.	C. L. Bastian	711,458	Oct. 21	2043	442	101	453
Bottle soaking and washing machine	C. H. Loew	700,518	May 20	2759	631	99	1775
Bottle stopper	H. S. Brewington	691,107	Jan. 14	1381	314	98	302
Bottle stopper	J. A. Moller, Jr	692,068	Jan. 28	3200	722	98	714
Bottle stopper	G. Rouse	692,359	Feb. 4	251	61	98	850
Bottle stopper	J. A. Hayes	694,013	Feb. 25	3443	760	98	1569
Bottle stopper	J. and J. A. Butkus	694,131	Feb. 25	3648	806	98	1611
Bottle stopper	A. Stern	697,036	Apr. 8	1253	279	99	285
Bottle stopper	G. Lispernard	699,198	May 6	123	32	99	1201
Bottle stopper	J. Heard	700,043	May 13	1771	410	99	1533
Bottle stopper	G. Lispernard	700,344	May 20	2421	552	99	1705
Bottle stopper	F. Stutz	701,101	May 27	3858	887	99	2021
Bottle stopper	H. S. Brewington	703,523	July 1	273	62	100	55
Bottle stopper	H. S. Brewington	703,524	July 1	274	62	100	55
Bottle stopper	H. S. Brewington	703,525	July 1	274	62	100	56
Bottle stopper	H. S. Brewington	703,527	July 1	276	63	100	56
Bottle stopper	H. S. Brewington	703,528	July 1	277	63	100	56
Bottle stopper	A. Molinari	703,735	July 1	666	147	100	133
Bottle stopper	A. Eklund	704,820	July 15	2717	588	100	581
Bottle stopper	J. B. Crosby	706,301	Aug. 5	601	131	100	1236
Bottle stopper	A. Blumer	706,634	Aug. 12	1223	231	100	1379
Bottle stopper	S. Scherwin	706,693	Aug. 12	1338	297	100	1405
Bottle stopper	J. J. Allison	707,193	Aug. 19	2286	512	100	1621
Bottle stopper	A. C. Packer	707,948	Aug. 19	3573	581	100	1679
Bottle stopper	W. E. Sherman	708,354	Sept. 2	402	113	100	2081
Bottle stopper	M. Pitts	708,732	Sept. 9	1327	302	100	2263
Bottle stopper	M. C. Wilson	708,749	Sept. 9	1358	309	100	2270
Bottle stopper	I. Koscherak	709,161	Sept. 16	2223	505	100	2467
Bottle stopper	I. Koscherak	709,162	Sept. 16	2224	505	100	2467
Bottle stopper	C. W. Meinecke	709,418	Sept. 16	2730	613	100	2576
Bottle stopper	J. T. Hicks	709,819	Sept. 23	3321	734	100	2732
Bottle stopper	A. E. Snow	710,213	Sept. 30	4322	972	100	2883
Bottle stopper	S. Kemp	711,869	Oct. 21	2837	627	101	623
Bottle stopper	C. Dorn	715,765	Dec. 16	2123	475	101	2309
Bottle stopper	A. and P. Schroeder	715,880	Dec. 16	2376	527	101	2362
Bottle stopper	J. Alsfasser	716,165	Dec. 16	2391	644	101	2479
Bottle stopper	G. W. Lunt	716,257	Dec. 16	3127	685	101	2520
Bottle stopper	L. Botway	716,620	Dec. 23	3862	843	101	2602
Bottle stopper	B. F. Miner	705,271	July 22	3709	804	100	739
Bottle stopper and brush. Combination.	S. Myer and G. Naylor	703,291	June 24	3701	852	99	2921
Bottle stopper and fitting	H. O. Brawner	703,391	Sept. 16	3683	602	100	2566
Bottle stopper and sprinkler	H. A. Clark	703,113	June 24	3379	777	99	2856

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bottle-stopper cap	C. Schroeder	713,693	Nov. 18	2387	532	101	1418
Bottle-stopper fastener	H. Pennie	692,702	Feb. 4	863	197	98	976
Bottle-stopper for preventing the refilling of bottles	W. G. Christian and P. J. Tierney	713,348	Dec. 9	1335	288	101	2128
Bottle stopper. Non-refillable.	J. W. Calef	693,834	Feb. 25	3067	677	98	1495
Bottle stopper or seal	W. S. Dorman	716,392	Dec. 23	3395	741	101	2389
Bottle-stopper. Sprinkling	H. O. Brawner	716,806	Dec. 23	4195	919	101	2738
Bottle stopper. Water	W. H. Perkins	693,436	Feb. 18	2306	505	98	1820
Bottle stopper. Water	E. Paillipson	710,207	Sept. 30	4304	968	100	2030
Bottle stopper. Water	E. Paillipson	710,208	Sept. 30	4305	968	100	2030
Bottle-stoppering machine	J. and J. A. Butkus	694,132	Feb. 25	3649	807	98	1811
Bottle top. Tooth-powder	H. B. Kent	690,737	Jan. 7	729	161	98	154
Bottle-washer	H. S. Brewington	701,285	June 3	13	3	99	2111
Bottle-washer	W. J. Cunningham	712,265	Oct. 23	3593	785	101	791
Bottle washer and rinsor	W. M. Phelan	694,416	Mar. 4	157	35	98	1746
Bottle-washer machinery	H. S. Brewington	697,797	Apr. 15	2637	584	99	591
Bottle-washing machine	W. B. Cobb	690,563	Jan. 7	376	77	98	81
Bottle-washing machine	S. Lippert and C. W. Hottman	691,642	Jan. 21	2407	541	98	536
Bottle-washing machine	C. A. Cole	693,589	Feb. 18	2614	577	98	1382
Bottle-washing machine	H. S. Brewington	697,796	Apr. 15	2634	583	99	591
Bottle-washing machine	H. S. Brewington	699,367	May 6	447	103	99	1266
Bottle-washing machine	H. L. Belknap	701,129	May 27	3924	902	99	2035
Bottle washing machine	F. X. Spitznagel	701,956	June 10	1203	271	99	2375
Bottle-washing machine	J. Kayser	702,010	June 10	1305	298	99	2303
Bottle-washing machine	J. Kayser	702,063	June 10	1428	321	99	2420
Bottle-washing machine	J. G. Hehr	703,415	July 1	92	19	100	21
Bottle-washing machine	J. H. W. Ortmann and C. W. Herbst	705,480	July 22	4039	875	100	867
Bottle-washing machine	M. P. Shea	705,877	July 29	4928	1072	100	1057
Bottle-washing machine	C. J. Warren	707,740	Aug. 26	3362	757	100	1858
Bottle-washing machine	W. J. Cunningham	708,321	Sept. 2	598	136	100	2103
Bottle-washing machine	R. Birkholz	710,742	Oct. 7	656	137	101	133
Bottle-washing machine	W. J. Cunningham	711,244	Oct. 14	1638	332	101	355
Bottle-washing machine	W. J. Cunningham	712,266	Oct. 23	3595	785	101	791
Bottle-washing machine	A. Perthold	716,644	Dec. 23	3906	853	101	2700
Bottle washing or sterilizing machine.	W. J. Cunningham	697,201	Apr. 8	1537	344	99	346
Bottles and their caps. Apparatus for grinding	E. G. Howe	712,679	Nov. 4	399	94	101	981
Bottles, cans, &c. Top for tooth-powder	H. B. Kent	701,893	June 10	1091	248	99	2352
Bottles, cans, &c. Top for tooth-powder	H. B. Kent	711,032	Oct. 14	1256	274	101	275
Bottles, &c. Cap or stopper for	L. Grote	714,892	Dec. 2	507	106	101	1937
Bottles, &c. Cleaning device for	C. M. Thomas	693,674	Feb. 18	2772	610	98	1416
Bottles, &c. Closure device for	R. B. Yerby	711,146	Oct. 14	1432	310	101	313
Bottles. Combined dauber and stopper for liquid-dressing	C. S. Emmert	717,180	Dec. 30	5060	1097	101	2969
Bottles. Device for preventing refilling of	F. W. Johnson	701,048	May 27	3776	865	99	2004
Bottles, jars, &c. Closure for	A. L. Weissenhanner	705,173	July 22	3478	756	100	753
Bottles, jars, or other vessels. Stoppering	F. W. Margetts	706,247	Aug. 5	468	100	100	1211
Bottles. Machine for forming narrow-neck	J. Haley	711,159	Oct. 14	1462	317	101	319
Bottles, &c. Machine for making	C. Boucher	711,818	Oct. 21	2742	606	101	601
Bottles or cans. Stem-holding cap for	W. H. Beeching	716,619	Dec. 23	3861	842	101	2690
Bottles or jars. Metal cap for	C. A. Calleson	708,528	Sept. 9	957	217	100	2187
Bottles or jars. Neck and cover for closing	A. F. Wilson	699,606	May 6	905	210	99	1362
Bottles or jugs with beer. Apparatus for filling	A. Schroedter	704,386	July 8	1906	413	100	402
Bottles or similar vessels. Closure device for	R. B. Yerby	717,491	Dec. 30	5603	1216	101	3082
Bottles. Pouring-spout for	V. M. Luneburg	715,100	Dec. 2	875	186	101	2015
Bottles, &c. Stopper for	G. Koch	696,571	Apr. 1	318	74	99	71
Bottles. Support for holding	W. E. Brown	717,336	Dec. 30	5321	1158	101	3026
Bowls or basins. Back-stop	E. K. Moore	712,832	Nov. 4	688	161	101	1039
Bowls or basins. Neck and cover for closing	H. Gruenebaum	699,917	May 13	1541	355	99	1507
Bottling-machine	C. J. Warren	707,737	Aug. 26	3341	751	100	1855
Bottling-table	W. M. Phelan	694,415	Mar. 4	155	35	98	1745
Bouquet holder. Buttonhole	C. Potter	693,150	Feb. 11	1748	383	98	1182
Bow-tying device	E. S. Chase	696,361	Mar. 25	3871	860	98	2564
Bowl. Wash	J. S. Craig	695,088	Mar. 11	1351	298	100	2015
Bowling-alley. Clamp for marble wash	W. H. Talbot	707,153	Aug. 19	2506	494	100	1801
Bowling-alley	E. Reisky	695,624	Mar. 18	2424	548	98	2255
Bowling-alley	C. J. Olson	708,779	Sept. 9	1413	324	100	2282
Bowling-alley	H. B. Lahr	709,163	Sept. 16	2225	505	100	2467
Bowling-alley	H. J. Shipham	709,802	Sept. 23	3489	787	100	2744
Bowling-alley	R. F. Downey	715,202	Dec. 2	1059	228	101	2033
Bowling-alley back-stop	W. H. Talbot	707,470	Dec. 2	650	137	101	1966
Bowling-alley ball return-way	P. J. Riddell	711,789	Oct. 21	2681	591	101	589
Bowling-alley foot-dampener	S. L. Holden	702,061	June 10	1424	320	99	2419
Bowling-alley pin	E. C. Phillips	707,632	Aug. 26	3122	703	100	1810
Bowling-alley pin setting or resetting device	Z. D. Butts	700,614	May 20	2914	671	99	1807
Bowling-alley pin-spot	P. J. Riddell	715,215	Dec. 2	1080	232	101	2053
Bowling-alley score-board	J. Faupa and G. F. Hochriem	702,072	June 10	1441	324	99	2422
Bowling-ball	L. Immen	712,192	Oct. 28	3467	761	101	764
Bowling-game	A. Jeisi	714,911	Dec. 2	553	118	101	1946



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. E.	Vol.	Page.
Box:							
See Advertising match-box.	Mail-box.						
Annealing-box.	Mail-package box.						
Axle-box.	Match-box.						
Ballot-box.	Message-box.						
Berry-box.	Miter-box.						
Bread or cake box.	Music-box.						
Burial-casket rough box.	Necktie-box.						
Candy-box.	Oil-retaining box.						
Car tool-box.	Outlet-box.						
Cash-box.	Packing-box.						
Casting-box.	Packing and displaying box.						
Cell-box.	Paper box.						
Cheese-box.	Pencil-box.						
Cigar-box.	Postal box.						
Cigarette or cigar box.	Powder-box.						
Collapsible box.	Preservative box.						
Compartment-box.	Rural-delivery box.						
Conduit outlet-box.	Safety-box.						
Contribution-box.	Sand-box.						
Display-box.	Shipping-box.						
Dredge-box.	Sheet-metal box.						
Feed-box.	Shoe-box.						
File-box.	Sluice-box.						
Foldable box.	Spring-lid box.						
Folding box.	Stationary package-box.						
Fruit-box.	Stop-box.						
Fuse-box.	Stuffing-box.						
Hat-box.	Syringe-box.						
Hop-drying box.	Tobacco-box.						
Horseshoe's box.	Tool-box.						
Ice-box.	Train-order box.						
Ink-pad box.	Train - order - receiving box.						
Journal-box.	Trinket-box.						
Junction-box.	Turpentine-box.						
Knockdown box.	Ventilated box.						
Letter-box.	Wagon-box.						
Lunch-box.	Watch-box.						
Box .....	A. Flaskamp .....	692,259	Feb. 4	80	19,20	98	816
Box .....	J. T. Ferres .....	695,200	Mar. 11	1647	366	98	2078
Box .....	F. H. Houghland .....	695,557	Mar. 18	2392	518	98	2338
Box .....	A. F. Mack .....	695,618	Mar. 18	2415	546	98	2353
Box .....	J. E. Faris .....	695,677	Mar. 18	2515	570	98	2273
Box .....	W. J. Harrison .....	696,813	Apr. 1	791	180	99	168
Box .....	L. J. Burdick .....	696,936	Apr. 8	1066	236	99	217
Box .....	E. Oldenbusch .....	697,216	Apr. 8	1556	349	99	350
Box .....	S. Dalsheimer .....	698,106	Apr. 22	3216	704	99	732
Box .....	C. B. Baldwin .....	699,438	May 6	597	136	99	1298
Box .....	G. S. Madancy .....	702,977	June 24	3132	720	99	2808
Box .....	E. O. Clark .....	704,298	July 8	1736	378	100	364
Box .....	R. Jannuzzi .....	704,701	July 15	2475	534	100	533
Box .....	E. T. Noble .....	708,578	Sept. 9	1035	234	100	2202
Box .....	A. F. Mack .....	719,789	Oct. 7	759	161	101	155
Box .....	H. L. Averill .....	711,374	Oct. 14	1881	410	101	407
Box .....	W. Fiske .....	712,434	Oct. 28	3914	857	101	859
Box .....	H. F. Henning .....	713,216	Nov. 11	1425	322	101	1206
Box .....	M. A. Osburn .....	714,515	Nov. 25	3975	880	101	1764
Box .....	J. Lackner .....	716,435	Dec. 23	3478	759	101	2608
Box and cover .....	T. Abraham .....	702,904	Dec. 24	2976	685	99	2777
Box and drawer .....	S. Lynn .....	715,280	Dec. 9	1197	255	101	2099
Box and fastener .....	O. O. Clayton .....	701,797	June 3	919	205	99	2300
Box-assembling machine .....	H. Erickson .....	698,482	Apr. 29	3907	864	99	891
Box-banding tool .....	P. W. Mullany .....	708,161	Sept. 2	300	71	100	2043
Box-blank mitering and cornering machine .....	E. H. Taylor .....	701,963	June 10	1213	276	99	2378
Box-blank pasting and folding machine .....	E. G. Staudt .....	715,620	Dec. 9	1832	407	101	2227
Box-blank printing and scoring machine .....	F. Meisel .....	701,493	June 3	384	86,87	99	2187
Box-contents indicator .....	E. K. Zarins .....	711,240	Oct. 14	1634	351	101	354
Box-cover fastener .....	W. J. Pfugratt and M. Ries .....	710,392	Sept. 30	4619	1042	100	2995
Box-cover support .....	S. B. Evans .....	716,014	Dec. 16	2639	581	101	2419
Box-covering machine .....	P. S. Smith .....	691,329	Jan. 14	1809	411	98	392
Box-covering machine .....	C. B. Baldwin .....	708,515	Sept. 9	932	211	100	2182
Box-elevator .....	F. V. Hetzel .....	716,037	Dec. 16	2678	502	101	2427
Box-fastener .....	A. C. Brenckle and W. A. Anger .....	693,489	Feb. 18	2412	527	98	1842
Box-fastener .....	A. C. Brenckle and W. A. Anger .....	693,490	Feb. 18	2413	527	98	1843
Box-fastener .....	C. M. Johnson .....	693,607	Feb. 18	2351	585	98	1390
Box-fastener .....	C. M. Johnson .....	694,480	Mar. 4	265	59	98	1768
Box-fastener .....	T. G. Mandt .....	695,409	Mar. 11	2014	452	98	2153
Box-fastener .....	A. C. Brenckle and W. A. Anger .....	697,195	Apr. 8	1528	341	99	344
Box-fastener .....	J. H. S. Johnson .....	702,798	June 17	2775	638	99	2717
Box-fastener .....	W. Jordan .....	707,424	Aug. 19	2718	615	100	1710
Box-fastener .....	C. L. Mellinger .....	713,233	Nov. 11	1458	331	101	1212
Box-fastening .....	E. Fletcher .....	708,702	Sept. 9	1269	291	100	2349

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Box filling and closing machine. Paper.	C. de Quillfeldt.	713,491	Nov. 11	1971	446 447 768 769 770 771	101	1318
Box folding and pasting machine.	R. J. Carrier and J. W. Low.	705,206	July 22	3547	413 414 415 416 417	100	769
Box for cigarettes, matches, or the like.	J. E. Clark.	705,513	July 22	4202	413	100	898
Box for containing eggs, &c.	R. Baker.	694,320	Mar. 4	356	78	98	1789
Box for packing rings, &c.	E. L. Toy.	711,024	Oct. 14	1191	262	101	262
Box-form. Expandable.	C. W. Hobbs.	710,975	Oct. 14	1085	240	101	237
Box-hinging machine.	D. L. Hill.	693,519	Feb. 18	2403	541 542	98	1353
Box-hinging machine.	D. L. Hill.	712,794	Nov. 4	613	141 142	101	1024
Box-joint.	B. A. Lange.	706,763	Aug. 12	1485	329	100	1436
Box-lid and tag support.	G. W. Hartman.	699,682	May 13	1071	250	99	1409
Box-lid holder.	L. Mertz.	712,702	Nov. 4	435	102	101	987
Box-lid holder and label-displayer.	J. W. Wright.	706,628	Aug. 12	1216	270	100	1378
Box-machine.	C. W. Gay.	695,301	Mar. 11	1845	411 412	98	2116
Box-machine.	F. G. Pennock.	711,119	Oct. 14	1374	299	101	299
Box-making machine.	J. W. Denmead.	713,074	Nov. 11	1148	264 265	101	1149
Box-making machine.	F. E. Jagenberg.	713,766	Nov. 18	2538	562 563 564	101	1450
Box-making machine. Automatic.	J. H. Clark and A. Mayer.	692,180	Jan. 28	3402	770 771 772	98	755
Box material. Machine for impressing.	J. R. Ripley.	694,992	Mar. 11	1260	275	98	1996
Box-opener.	L. McMullan.	711,816	Dec. 2	327	71	101	1903
Box or carton blanks. Mechanism for removing selvage from.	J. Meek.	709,789	Sept. 23	3460	779	100	2739
Box or case.	E. Doering.	705,223	July 22	3596	778	100	778
Box or chest.	G. P. Jaekel.	716,551	Dec. 23	3725	811	101	2659
Box or chest and table. Combined.	F. L. Mitchell.	700,335	May 20	2436	535 536	99	1709
Box or crate.	W. H. Rogers.	710,213	Sept. 30	4312	969	100	2931
Box or fagot pile.	W. D. Murray.	697,519	Apr. 15	2127	473	99	486
Box or package.	F. P. Croft.	700,742	May 27	3196	728	99	1884
Box or receptacle.	D. Goldman.	706,231	Aug. 5	443	93	100	1207
Box-plaiting device.	F. H. Fisher.	700,753	May 27	3229	739	99	1891
Box-sanding machine.	C. H. Palmer and J. W. Denmead.	709,033	Sept. 16	1960	448 449	100	2411
Box-setting-up machine.	C. W. H. Blood.	705,197	July 22	3524	764 765	100	764
Box-shaping machine.	W. S. Smith.	700,843	May 27	3393	779 780 781	99	1924
Box-stapling machine.	P. F. Lindt.	692,882	Feb. 11	1196	265 266 267	98	1070
Box-stapling machine.	J. Schmidt, Jr.	694,031	Feb. 25	3479	766 767	98	1577
Box-staying machine.	R. Partzsch.	694,663	Mar. 4	626	136	99	1845
Box-strap holder.	J. E. MacMurray.	708,378	Sept. 2	682	154	100	2120
Box-wrapping machine.	E. W. Bryant.	708,459	Sept. 2	827	188 189 190	100	2149
Boxes. Combined protector and opener for.	E. W. Smith.	717,460	Dec. 30	5544	1204	101	3070
Boxes. Metal strip or clamp for use in manufacture of cardboard.	M. R. Partzsch.	699,894	May 13	1501	345	99	1500
Boxes, &c. Securing device for.	W. G. Young.	709,336	Sept. 16	2672	600	100	2564
Boxes, &c. System of jointing for joining up.	C. D'Espine.	691,049	Jan. 14	1297	294	98	286
Boxing-machine.	F. W. Wild, Jr.	690,805	Jan. 7	843	186 187	98	177
Brace:							
See Adjustable brace.	Scenery-brace.						
Bit-brace.	Shoulder-brace.						
Body-brace.	Structure-brace.						
Fence-post brace.	Vehicle-seat brace.						
Plow-brace.	Window-brace.						
Rail-brace.							
Brace and suspenders. Combined.	S. W. Patterson.	696,075	Mar. 25	3246	734	98	2436
Brace-blank and chafe-iron holder.	A. P. Smith, Jr.	698,751	Apr. 29	4466	986	99	1011
Bracelet.	S. Lederer.	710,105	Sept. 30	4095	924	100	2888
Bracelet. Elastic chain.	J. Kun.	690,590	Jan. 7	424	91	98	92
Bracelet or the like.	E. P. Davis.	704,243	July 8	1634	354	100	341
Bracelets, &c., and manufacturing same.	T. S. Bennett.	709,195	Sept. 16	2283	518 519	100	2480
Bracket:							
See Adjustable bracket.	Mirror-bracket.						
Awning-rod bracket.	Pipe-bracket.						
et.	Scaffold-bracket.						
Curtain-bracket.	Shade-bracket.						
Curtain and drapery bracket.	Shade and curtain bracket.						
et.							
Dental-engine wall-bracket.	Shade-roller bracket.						
Desk-bracket.	Shelf-bracket.						
Door-bracket.	Shelving-bracket.						
Globe-supporting bracket.	Shingling-bracket.						
Hose-bracket.	Show-case bracket.						
Lamp-bracket.	Staging-bracket.						
Laundry-bracket.	Wall-bracket.						
	Window-bracket.						
Bracket.	W. K. Henry.	698,945	Apr. 29	4961	1073	99	1069
Bracket.	T. Smith.	706,122	Aug. 5	218	46	100	1161



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bracket-hook .....	H. C. M. Saberhagen .....	713,156	Nov. 11	1302	294	101	1182
Braid. Tubular .....	J. A. Groebli .....	698,490	Apr. 29	3918	866	99	898
Braids and trimmings. Machine for making .....	J. E. Kirberg .....	707,386	Aug. 19	2556	1576	100	1675
Braiding-carrier .....	A. B. Diss .....	694,536	Mar. 4	390	86	98	1795
Braiding-carrier .....	J. Keleher .....	716,718	Dec. 23	4027	883	101	2723
Braiding-carrier tension .....	J. A. Turner. (Reissue) .....	12,058	Nov. 25	4299	986	101	1819
Braiding-machine .....	F. Meyer .....	695,469	Mar. 18	2119	477	98	2193
Braiding-machine .....	A. B. Diss .....	695,601	Mar. 18	2378	1538	98	2246
Braiding-machine .....	J. Lundgren .....	695,746	Mar. 18	2623	596	98	2294
Braiding-machine .....	A. B. Diss .....	696,094	Mar. 25	3293	1742	98	2448
Braiding-machine .....	W. F. Poiesz .....	714,946	Dec. 2	613	128	101	1958
Braiding-machine .....	B. Kirsch .....	717,415	Dec. 30	5470	1186	101	3055
Brake:							
See Air-brake. Friction-brake.							
Automatic brake. Gramophone-brake.							
Back-pedaling brake. Hoisting-apparatus							
band-brake. Liquid-brake.							
Bicycle-brake. Locomotive-brake.							
Bicycle coaster-brake. Marine brake.							
Car-brake. Mechanical brake.							
Car-track brake. Mechanical friction-							
Coaster-brake. Pawl-and-ratchet brake.							
Cord and pulley brake. Propeller-shaft brake.							
Cycle-brake. Roller-brake.							
Electromagnetic Self-acting brake.							
brake. Sewing-machine brake.							
Emergency-brake. Track-brake.							
Engine-brake. Vehicle-brake.							
Fluid-pressure brake. Wagon-brake.							
Brake .....	T. G. Blatch .....	690,692	Jan. 7	622	136	98	132
Brake .....	J. D. Edwards .....	691,848	Jan. 28	2820	632	98	638
Brake .....	A. H. Raymond .....	694,785	Mar. 4	875	193	98	1897
Brake .....	W. A. Crowds .....	698,262	Apr. 22	3527	776	99	796
Brake .....	H. A. Knox .....	699,536	May 6	764	180	99	1332
Brake .....	H. L. Schaffner .....	699,579	May 6	858	200	99	1352
Brake .....	W. A. Crowds .....	703,553	July 1	319	72	100	64
Brake .....	V. Boyle .....	703,835	July 1	848	187	100	170
Brake .....	J. G. Alexander .....	704,229	July 8	1614	349	100	337
Brake .....	G. W. Stevens .....	705,623	July 29	4474	970	100	966
Brake .....	A. R. Moore .....	707,149	Aug. 19	2199	493	100	1600
Brake .....	S. T. Wellman and J. McGeorge .....	710,640	Oct. 7	466	97, 98	101	98
Brake .....	H. L. Schaffner .....	715,157	Dec. 2	971	210	101	2035
Brake .....	W. A. Crowds .....	715,231	Dec. 2	1113	238	101	2065
Brake .....	L. Melanowski .....	716,070	Dec. 16	2768	611	101	2446
Brake .....	C. Carloni .....	716,188	Dec. 16	2999	1655	101	2495
Brake-adjuster .....	R. B. Paxton and J. B. Driscoll .....	718,339	Nov. 11	1701	384	101	1262
Brake-adjuster. Automatic .....	C. J. Fisher .....	713,757	Nov. 18	2507	557	101	1446
Brake and power-shifting mechanism. Automatic .....	J. F. Gail .....	700,415	May 20	2555	585	99	1731
Brake apparatus .....	C. M. Carnahan .....	714,779	Dec. 2	249	50	101	1887
Brake apparatus. Automatic fluid-pressure .....	G. Westinghouse .....	699,267	May 6	255	59	99	1226
Brake apparatus. Automatic fluid-pressure .....	M. Corrington .....	702,926	June 24	3008	692	99	2783
Brake apparatus. Fluid-pressure .....	N. J. Benton .....	702,124	June 10	1520	343	99	2439
Brake automatic slack-adjuster .....	E. Wilson .....	711,750	Oct. 21	2609	574	101	575
Brake-beam .....	J. H. Baker .....	690,347	Jan. 7	348	70	98	75
Brake-beam .....	J. H. Baker .....	690,548	Jan. 7	349	70, 71	98	76
Brake-beam .....	J. H. Baker .....	690,824	Jan. 7	880	194	98	186
Brake-beam .....	J. H. Baker .....	690,825	Jan. 7	882	195	98	186
Brake-beam .....	J. H. Baker .....	690,826	Jan. 7	884	195	98	187
Brake-beam .....	J. H. Baker .....	691,065	Jan. 14	1362	309	98	299
Brake-beam .....	J. H. Baker .....	691,096	Jan. 14	1364	309	98	299
Brake-beam .....	A. A. Lamont .....	698,524	Apr. 29	3973	878	99	904
Brake-beam .....	J. A. Bellows .....	698,528	Apr. 29	4530	1029	99	1024
Brake-beam .....	B. Haskell .....	707,105	Aug. 19	2117	473	100	1583
Brake-beam .....	C. Vanderbilt .....	707,658	Aug. 26	3196	717	100	1826
Brake-beam .....	C. V. Marquart .....	713,783	Nov. 18	2552	568	101	1455
Brake-beam .....	S. A. Crone .....	715,995	Dec. 16	2596	573	101	2410
Brake-beam .....	S. A. Crone .....	715,996	Dec. 16	2598	574	101	2410
Brake-beam .....	S. A. Crone .....	715,997	Dec. 16	2599	574	101	2410
Brake-beam and attachment .....	G. B. F. Cooper .....	713,654	Nov. 4	362	83, 84	101	973
Brake-beam finger-guard .....	C. H. Williams, Jr. .....	699,562	May 13	1428	320	99	1482
Brake-beam finger-guard clip .....	J. T. W. Rudesill .....	699,920	May 13	1561	359	99	1511
Brake-beam fulcrum .....	P. T. Handiges .....	708,352	Sept. 2	647	146	100	2118
Brake-beams. Reversible guard-finger clamp for .....	C. F. Hooton .....	699,842	May 13	1386	320	99	1474
Brake-block .....	J. S. Odgers .....	701,220	May 27	4075	938	99	2067
Brake-block for vehicles. Adjustable .....	N. Liston .....	690,745	Jan. 7	742	165	98	150
Brake-controller .....	F. Muller .....	705,086	Aug. 5	162	33	100	973
Brake-cylinders. Automatic release for .....	G. B. Sewell .....	693,452	Feb. 18	2342	512	98	1327
Brake, fender, and step. Combination .....	D. Neale .....	707,345	Aug. 19	2569	1580	100	1678
Brake for administering prescribed resistance to the starting movements of hand-operated controllers .....	W. E. Quimby .....	703,468	July 1	168	39	100	36
Brake for street-car railways, &c .....	H. T. Brown .....	711,280	Oct. 14	1708	368	101	368
Brake-handle .....	H. W. Gibbs .....	707,692	Aug. 20	3259	729	100	1836
Brake-head .....	J. Farley .....	695,547	Mar. 18	2267	512	98	2222
Brake-head. Adjustable .....	G. P. Ritter .....	705,299	July 22	3760	816	100	811

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr & C.	Vol.	Page.
Brake-head. Adjustable.	G. P. Ritter.	705,611	July 29	4456	966	100	968
Brake mechanism.	F. M. Smith.	694,207	Feb. 25	3804	841	98	1641
Brake mechanism.	W. S. Adams.	695,130	Mar. 11	1530	389	98	2051
Brake mechanism.	W. S. Adams.	695,131	Mar. 11	1534	340	98	2052
Brake mechanism.	W. S. Adams.	695,361	Mar. 11	1932	431	98	2134
Brake mechanism.	L. Van Cott and J. D. Keiley.	702,384	June 10	1972	450	99	2380
Brake mechanism.	P. J. McCullough.	702,812	July 7	2803	644	99	2723
Brake mechanism.	O. F. Randall.	704,103	June 18	1380	298	100	290
Brake mechanism.	G. W. Greenwood.	704,584	July 15	1503	477	100	477
Brake mechanism.	D. S. Sebastian.	708,837	Sept. 9	1555	355	100	2311
Brake mechanism.	H. W. Cooley.	710,253	Sept. 30	4382	985	100	2945
Brake mechanism.	J. D. Williamson, Jr.	712,349	Oct. 28	3741	818	101	822
Brake mechanism.	R. B. Hain.	715,060	Dec. 2	792	168	101	1996
Brake mechanism.	W. H. Smith.	716,775	Dec. 23	4135	907	101	2748
Brake mechanism.	G. F. Brandau.	717,067	Dec. 30	4816	1014	101	2917
Brake mechanism. Automatic.	W. H. Campbell.	696,312	Mar. 25	3751	839	98	2512
Brake mechanism. Fluid.	W. H. Sauvage.	717,286	Dec. 30	5239	1138	101	3008
Brake-operating device.	M. O. Wicks.	703,106	June 24	3370	773	99	2854
Brake-releaser.	E. N. Halstead.	714,796	Dec. 2	294	64	101	1897
Brake-shoe.	C. J. Gulden.	691,393	Jan. 28	2374	668	98	669
Brake-shoe.	A. L. Streeter.	695,248	Mar. 11	1748	385	98	2049
Brake-shoe.	A. L. Streeter.	695,419	Mar. 11	2029	456	98	2156
Brake-shoe.	P. A. Brawner.	697,795	Apr. 15	2633	583	99	590
Brake-shoe.	A. L. Streeter.	702,890	June 17	2944	678	99	2752
Brake-shoe.	G. A. Woodman.	704,491	July 8	2106	456	100	442
Brake-shoe.	J. D. Gallagher.	708,704	Sept. 9	1274	291	100	2250
Brake-shoe.	E. J. Snow.	710,330	Oct. 7	2286	59	101	54
Brake-shoe.	F. E. Case.	712,650	Nov. 4	354	82	101	971
Brake-shoe.	W. D. Sargent.	713,689	Nov. 18	2379	530	101	1416
Brake-shoe.	W. O. Belt.	715,341	Dec. 9	1326	286	101	2127
Brake-shoe.	T. E. Twist.	715,712	Dec. 9	2002	448	101	2262
Brake-shoe.	W. E. Hutton.	716,424	Dec. 23	3454	753	101	2608
Brake-shoe.	R. L. Brown.	716,984	Dec. 30	4661	1011	101	2883
Brake-shoe.	R. L. Durbin.	716,993	Dec. 30	4678	1014	101	2887
Brake-shoe.	E. M. Herr.	705,927	July 29	5020	1093	100	1075
Brake-shoe adjuster.	W. D. Sargent.	711,740	Oct. 21	2587	568	101	570
Brake-shoe head. Adjustable.	C. F. Uebelacker.	715,906	Dec. 16	2420	536	101	2372
Brake-shoe-lubricating filler.	R. D. Baldwin.	706,147	Aug. 5	284	59	100	1175
Brake-shoe mechanism.	H. Tesseyman.	698,421	Apr. 22	8790	896	98	852
Brake-shoes. Automatic means for regulating.	W. H. Sauvage.	693,506	Feb. 18	3044	664	98	1463
Brake-shoes. Device for compensating for wear in hydraulic.	A. Goldschmidt.	697,140	Apr. 8	1426	317	99	523
Brake slack-adjuster.	H. A. Wahlert.	696,521	Apr. 1	232	53	99	53
Brake slack-adjuster.	H. A. Wahlert.	696,522	Apr. 1	234	53	99	54
Brake slack-adjuster.	H. A. Wahlert.	696,523	Apr. 1	235	54	99	54
Brake slack-adjuster.	H. A. Wahlert.	696,526	Apr. 1	238	54	99	55
Brake slack-adjuster. Railway.	H. A. Wahlert.	696,524	Apr. 1	237	54	99	54
Brake systems. Automatic retaining-valve for use in automatic fluid-pressure.	H. E. Parsons and H. C. Derr.	696,264	Mar. 25	3641	814	98	2518
Brake-wheel.	M. Z. Sims.	694,686	Mar. 4	673	147	98	1854
Brakes. Operating electric.	F. E. Case.	712,994	Nov. 4	990	232	101	1999
Brakes. Truck-machine for automatically applying.	B. C. Rowell.	695,650	Mar. 18	2471	561	98	2265
Braking force. Apparatus for applying and controlling.	H. H. Westinghouse.	702,268	June 10	1765	402	99	2489
Brake-packer.	J. S. Cameron.	697,131	Apr. 8	1407	314	99	319
Brander. Electric.	H. L. Jenkins and O. F. F. Rohlmann.	709,602	Sept. 23	3115	694	100	2669
Branding animals or packages. Apparatus for.	G. Renner and W. H. Boyens.	690,771	Jan. 7	782	173	98	165
Branding-chute.	J. Honeycutt.	693,798	Feb. 18	2384	659	98	1459
Branding-iron.	F. France.	703,587	July 1	342	77	100	69
Branding-iron.	A. A. Phipps.	717,019	Dec. 30	4723	1024	101	2896
Branding-iron. Self-heating.	M. A. Lowe.	690,971	Jan. 14	1141	259	98	254
Branding-iron. Self-heating.	A. A. Phipps.	715,899	Dec. 16	2341	518	101	2355
Brazing.	H. E. Grant.	709,899	Sept. 30	3659	834	100	2890
Bread &c. and making same.	R. Muscroft.	692,889	Feb. 11	1292	98	100	1076
Bread-cutter.	A. Filter.	698,916	Apr. 29	4821	1063	99	1090
Bread-cutter.	W. O. N. Morrison.	709,553	Sept. 23	3032	676	100	2651
Bread-cutting machine.	C. J. Vann.	713,539	Nov. 11	2095	469	101	1343
Bread or cake box.	J. Powers.	690,874	Jan. 7	952	214	98	200
Bread-slicer.	C. D. Spates.	715,168	Dec. 2	980	214	101	2038
Breast-strap slide.	T. Huberdeau.	691,690	Jan. 21	2391	537	98	532
Breech-block and lever connection.	C. P. Fay.	700,116	May 13	1893	440	99	1577
Breech-closure.	H. J. Perry.	693,900	Feb. 25	3211	708	98	1523
Breech mechanism.	F. J. Meigs and S. A. S. Hammar.	704,898	July 15	2850	617	100	611
Breeding-pen for sows.	O. S. Klindworth.	700,949	May 27	3582	824	99	1903
Breweries. System of ventilating the fermenting-rooms of.	L. Michel.	710,791	Oct. 7	762	162	101	156
Brewers' grain, &c. Apparatus for expressing moisture from.	J. C. W. Stanley.	695,585	Mar. 18	2338	533	98	2241
Brewer's vat.	W. Griesser.	694,267	Feb. 25	3913	868	98	1662
Brick.	P. Griffin.	697,914	Apr. 15	2333	637	99	634
Brick and kiln furnace.	F. E. Swift.	695,590	Mar. 18	2359	534	98	2242
Brick and tile for walls, &c. Combined.	D. W. Anderson.	707,815	Aug. 26	3539	798	100	1893
Brick binder. Veneer.	J. V. H. Jones.	717,210	Dec. 30	5112	1109	101	2911
Brick. Burning.	J. Peck.	708,394	Sept. 2	712	100	100	2126
Brick-carrier.	J. G. McDowell.	705,277	July 22	3721	807	100	801



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Brick-cleaning machine.	L. H. Brownsell	698,627	Apr. 29	4197	936	99	949
Brick-cleaning machine.	P. Harris	717,191	Dec. 30	5079	1101	101	2973
Brick-cutting machine.	H. L. Hix	711,896	Oct. 21	2889	639	101	633
Brick-drier	J. W. Aregood	693,359	Feb. 18	2159	474	98	1289
Brick-drier	J. P. B. Fiske	696,026	Mar. 25	3161	712	98	2420
Brick-drier	J. Starkey	715,314	Dec. 9	1272	271	101	2110
Brick-drying car.	E. W. Ostrander	712,840	Nov. 4	708	104	101	1044
Brick-drying kiln	A. B. Klay	713,993	Nov. 18	2363	661	101	1542
Brick-drying shed.	D. M. Warner	715,185	Dec. 2	1023	222	101	2045
Brick-edge-smoothing blade	W. Frey	705,094	July 23	3252	708	100	708
Brick-edger	W. Towers	694,120	Feb. 25	3633	803	98	1608
Brick for building arches	E. Böttger	693,826	Feb. 25	3655	673	98	1492
Brick for storage-bin construction	S. H. Tromanhauser	702,119	June 10	1311	341	99	2437
Brick for track paving and fastening purposes.	W. H. Nelson	690,988	Jan. 14	1175	266	98	261
Brick-paving.							
Brick-handler	J. H. and G. P. Martin	705,416	July 22	4017	870	100	863
Brick-kiln	J. P. B. Fiske	698,252	Feb. 11	1961	426	98	1227
Brick-kiln	J. Cicotte	694,316	Feb. 25	4059	902	98	1085
Brick-kiln	T. M. Wilson	704,418	July 8	1953	434	100	411
Brick-kiln	L. Blackman	710,415	Oct. 7	33	7	101	9
Brick-kiln air-box	J. C. Boss	712,035	Oct. 23	3176	694	101	709
Brick-kiln and drier. Continuous.	J. F. Du Bois	706,035	Aug. 5	63	13, 14	100	1131
Brick-machine	D. A. Lee and F. Glessner	694,394	Mar. 4	112	25, 26	98	1736
Brick-machine	W. F. Stimpson	707,275	Aug. 19	2441	518	100	1053
Brick-machine	W. F. Stimpson	707,276	Aug. 19	2444	549	100	1054
Brick-machine	W. C. McElheny	716,461	Dec. 23	3528	772	101	2619
Brick-machine die	C. Holley	698,019	Apr. 23	3042	668	99	695
Brick-machine dies. Lubricant apparatus for	H. K. King	709,097	Sept. 16	2093	490	100	2441
Brick-machines. Plunger-adjusting mechanism for re-press	J. Walker	708,276	Sept. 2	520	118	100	2087
Brick-making machinery	H. Hanni	690,857	Jan. 7	926	206	98	195
Brick-making machinery	C. R. Monroe	713,570	Nov. 11	2155	482	101	1354
Brick-making press	J. E. Grinder	694,009	Feb. 25	3434	756	98	1567
Brick-mold	J. Creager	692,006	Jan. 28	3094	696	98	693
Brick-mold	O. M. Reif	708,256	Sept. 2	485	111	100	2079
Brick mold. Paving.	W. H. Nelson	690,987	Jan. 14	1173	265	98	261
Brick-molds. Safety appliance for sanding and feeding	H. Schoonmaker	702,824	June 17	2817	648	99	2727
Brick-molding machine	J. Mohs	704,754	July 15	2578	556	100	553
Brick or block	L. A. Brown	703,780	July 1	769	137	100	142
Brick or block. Paving	W. J. Leary	710,062	Sept. 30	4000	902	100	2864
Brick or block pressing apparatus	A. E. Blizzard and H. Todd	710,743	Oct. 7	663	139	101	135
Brick plant	B. E. Bechtel	699,475	May 6	662	154	99	1313
Brick-press	C. W. Reynolds	700,823	May 27	8356	771	99	1917
Brick-press	J. J. Nieters	708,778	Sept. 9	1411	324	100	2281
Brick-pressing-machine die	K. Riedel and H. Schiegner	692,353	Feb. 4	241	57	98	849
Brick. Silica	W. H. Gibson and H. Wessling	701,708	June 8	771	97	99	2270
Brick-trimming machine	T. M. Walker and L. H. Warren	715,909	Dec. 16	2425	927	101	2373
Brick-truck	S. W. Vance	716,599	Dec. 23	3822	880	101	2681
Bricks. Apparatus for making sand.	L. T. Leet	714,807	Dec. 2	312	68	101	1901
Bricks for building purposes. Machine for laying	J. H. Knight	704,647	July 15	2383	516	100	513
Bricks for building purposes. Machine for laying	J. H. Knight	704,648	July 15	2384	516	100	514
Bricks for building purposes. Machine for laying	J. H. Knight	712,075	Oct. 28	3264	715	101	724
Bricks. Interlocking.	H. Choquet and A. Despature-Cousin	716,805	Dec. 30	4419	958	101	2834
Bricks or blocks. Machine for molding	C. G. Davies	700,746	May 27	3209	733	99	1887
Bricks. Producing silica	W. H. Gibson and H. Wessling	701,707	June 3	771	97	99	2270
Bricks, tile, &c. Machine for forming	W. R. Wakefield	698,599	Apr. 29	4142	910	99	989
Bricks, tiles, &c. Manufacture of	A. J. Keeble	699,534	May 6	761	99	1332	
Bricks. Treatment of refractory	S. Zuckschwerdt	707,670	Aug. 26	3211	100	1829	
Brickling pulverized material. Apparatus for	T. A. Edison	703,562	July 1	336	76	100	67
Bridge	J. C. Williams	716,160	Dec. 16	2921	643	101	2477
Bridge. Bascule	C. F. Hall	694,744	Mar. 4	785	174	98	1877
Bridge. Bascule	C. F. Hall	708,348	Sept. 2	641	145	100	1111
Bridge. Collapsible or folding	D. Doyen	713,561	Nov. 11	2139	478	101	2151
Bridge construction	G. M. Cheney	708,463	Sept. 2	837	191	100	2151
Bridge-gate	F. I. Pleck	696,589	Apr. 1	349	83	99	77
Bridge-guard	H. W. Ten Broeke	692,386	Feb. 4	291	71	98	860
Bridge. Lifting	M. Wardell	693,467	Feb. 19	2372	519	98	1333
Bridge. Suspension	N. H. Sturgis	691,982	Jan. 28	3053	686	98	680
Bridge suspension-cables. System for erecting and adjusting	W. J. Glover	709,316	Sept. 16	2521	568	100	2532
Bridge. Swing	C. Worthington	707,044	Aug. 12	1986	446	100	1539
Brulzes. Construction of	H. Prinzhorn	713,684	Nov. 18	2370	528	101	1415
Bridle	J. Selkirk	698,747	Apr. 29	4461	984	99	1060
Bridle	H. H. Poe	714,945	Dec. 2	611	126	101	1367
Bridle and bit	W. B. Kindig, Jr.	710,156	Sept. 30	4203	947	100	2006
Bridle attachment	J. A. Hull	697,486	Apr. 15	2065	456	99	473
Bridle-bit	C. W. Drown	709,700	Sept. 23	3281	735	100	2702
Bridle-bit-warming device	G. Davis	701,161	May 27	3973	914	99	2947
Bridle-blind	E. L. Sipe	692,726	Feb. 4	896	204	98	982

*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Eng.	Vol.	Page.
Bridle crown-piece	A. E. Pollard	692,707	Feb. 4	870	199	98	977
Bridle overdraw-check	J. B. Schott	708,410	Sept. 2	739	166	100	2131
Brine. Treating	G. N. Vis	698,341	Apr. 22	3640		99	820
Brine. Vacuum apparatus for boiling	G. N. Vis	700,860	May 27	3425	787	99	1931
Brine. Vacuum apparatus for boiling	G. N. Vis	702,364	June 10	1750	401	99	2487
Briquet and producing same	E. S. Meade	701,365	June 3	150		99	2130
Briquet-making machine	R. Martin	712,696	Nov. 4	427	100	101	985
Briquet manufacture	T. Ingham	695,210	Mar. 11	1675		98	2082
Broiler	E. A. Leland	693,725	Feb. 18	2808	631	98	1435
Broiler	J. P. Faivre	695,096	Mar. 11	1453	322	98	2086
Broiler, &c.	E. A. Leland	710,786	Oct. 7	754	160	101	154
Broiler	R. P. Smith	715,700	Dec. 9	1938	444	101	2230
Broiler and toaster. Combined	P. C. G. Wie	705,502	Aug. 5	903	219	100	1318
Broiler or toaster	E. B. Lydick	696,876	Apr. 1	994	248	99	191
Broiler. Revolving	P. Pooley	694,889	Mar. 4	1063	235	98	1987
Bromin from brine. Extracting	H. H. Dow	714,160	Nov. 25	3319	732	101	1636
Bromindigo. Making	M. von Gallois	706,921	Aug. 12	1776		100	1497
Bronze-mill	J. A. Prince	703,466	July 1	166	38, 39	100	35
Bronzing-machine	G. Klauber	695,157	Mar. 11	1578		98	2438
Bronzing-machine	G. Mare	702,551	June 17	2255	522	99	2618
Brooch	A. Pollard	696,487	Apr. 1	169	41	99	41
Brooch	C. S. Dunningham	698,824	Apr. 29	4641	1023	99	1051
Brooches, safety-pins, &c. Fastening device for	A. Schaeffer	712,727	Nov. 4	482	114	101	998
Brooder	J. M. Sontag	690,885	Jan. 7	975	221	98	205
Brooder	J. L. Macy	702,310	June 10	1823	418	99	2501
Brooder	W. P. Jones	706,958	Aug. 12	1826	410	100	1506
Brooder	O. R. Lincoln	707,127	Aug. 19	2147	481	100	1590
Brooder	M. J. Mapes	711,409	Oct. 14	1937	421	101	418
Brooder. Chicken	G. R. Adams	716,651	Dec. 23	3920	856	101	2702
Brooder. Chicken	S. L. Hershey	701,040	May 27	3763	893	99	2001
Brooder. Chicken	N. Pedersen	709,508	Sept. 23	2950	659	100	2634
Brooder. Chicken	C. E. Adair	714,654	Dec. 2	2	1	101	1837
Broom	W. H. O'Keefe	690,871	Jan. 7	948	212	98	199
Broom	F. J. Ellis and A. R. Boug	701,182	May 27	4009	921	99	2054
Broom	E. Robertson	701,395	June 3	196	43	99	2148
Broom	H. Neilson	705,002	July 29	4439	962	100	1659
Broom, &c.	M. Young	706,144	Aug. 5	280	58	100	1174
Broom attachment	M. B. Hughes	693,710	Feb. 18	2841	626	98	1429
Broom-bridle	A. P. Longdon	696,375	Mar. 25	3808	865	98	2569
Broom. Brush	A. Baldwin	692,592	Feb. 4	669	156	98	935
Broom. Brush	G. W. Richardson	701,507	June 3	407	92	99	2192
Broom-corn knife	G. A. Larson and J. E. Johnson	700,058	May 13	1793	415	99	1557
Broom-covers. Woven fabric for	W. B. Fittz	691,459	Jan. 21	2081	465	98	1408
Broom-handle drying and polishing apparatus	C. A. Ridlon	708,217	June 24	3385	824	99	2897
Broom-handles. Polishing and drying	C. A. Ridlon	707,150	Aug. 19	2216	497	100	1603
Broom, &c., hanger	J. F. Whitehead	690,803	Jan. 7	841	186	98	177
Broom-head	J. H. Webb	690,495	Jan. 7	246	50	98	54
Broom-head	H. W. Judevine	690,736	Jan. 7	727	160	98	153
Broom-head	W. Mansfield	704,483	July 8	2060	453	100	439
Broom-holder	C. K. Rehrig	693,905	Feb. 11	1232	277	98	1082
Broom-holder	H. Blome	696,542	Apr. 1	271	82	99	61
Broom-holder	F. Scott	716,116	Dec. 16	2849	627	101	2464
Broom or analogous instrument	M. Young	713,549	Nov. 11	2113	473	101	1347
Broom or brush. Sweeping	D. W. Winstanley	716,161	Dec. 16	2923	643	101	2478
Brush	A. R. Wiens	691,032	Jan. 14	1260	285	98	277
Brush	C. R. Uhlmann	692,387	Feb. 4	294	72	98	890
Brush	J. M. Chambers	696,738	Apr. 1	763	173	99	162
Brush	F. H. Tucker	697,295	Apr. 8	1701	389	99	583
Brush	A. R. Wiens	697,763	Apr. 15	2565	571	99	574
Brush	G. R. Richardson	699,348	May 6	416	95	99	1259
Brush	G. H. Beasley	699,474	May 6	661	153	99	1313
Brush	A. Gissler	699,752	May 13	1203	280	99	1435
Brush	F. Becker	700,400	May 20	2529	579	99	1726
Brush	S. E. Babcock	701,829	June 10	972	217	99	2323
Brush	J. F. Bowditch	708,530	June 17	2223	515	99	2612
Brush	A. Steiert	708,093	June 24	3352	770	99	2851
Brush	C. Klauber	705,534	July 22	4279	925	100	914
Brush	J. Schreiner	709,610	Sept. 23	3124	696	100	2670
Brush	F. H. Loveless	710,161	Sept. 30	4311	949	100	2908
Brush	A. R. Wiens	711,141	Oct. 14	1417	397	101	510
Brush	C. H. Besch	711,544	Oct. 21	2314	481	101	490
Brush	A. W. Engel	716,210	Dec. 16	3041	663	101	2504
Brush	H. F. Ebert	716,690	Dec. 23	3979	871	101	2714
Brush	J. P. Wiens. (Reissue)	12,067	Dec. 23	4389	951	101	2810
Brush	W. Morrison	717,014	Dec. 30	4714	1023	101	2894
Brush and comb. Combination	C. E. Flemming	707,574	Aug. 26	3017	678	100	1788
Brush and drinking-glass holder	H. C. Masland	713,824	Nov. 4	674	156	101	1035
Brush and mop. Combination scrub	F. C. Fund	693,084	Apr. 22	2100	682	99	707
Brush and mop-holder. Combined scrub	J. S. Randolph	692,908	June 24	3165	728	99	2815
Brush and soap holder. Combined	G. F. Salisbury	692,484	Feb. 4	460	107	98	892
Brush and tooth-powder holder. Tooth-	B. C. H. Simpson and C. F. Creel-	699,983	May 13	1664	382	99	1531
Brush. Bath	W. A. McMechan	696,470	Apr. 1	143	34	99	35
Brush-black-boring and bristle-setting machine	C. E. Flemming	698,829	Apr. 23	4064	1027	99	1035
Brush. Bottle-cleaning	A. A. Fandstotte	701,084	May 27	3838	880	99	2016
Brush. Bottle-washing	R. Hoerning	704,828	July 15	2727	590	100	583
Brush. Bottle-washing	C. K. Volckening	705,983	July 29	5117	1116	100	1096
Brush bridle. Paint	G. C. Traub	700,263	May 20	2248	513	99	1672
Brush. Coin-operated hair-	G. M. Steiner	695,505	Mar. 18	2178	492	98	2204
Brush. Cylindrical	C. F. McIndoe	712,332	Oct. 28	3689	806	101	510
Brush. Distinguishing	E. S. Winn	713,827	Nov. 13	3829	586	101	1470
Brush. Electric	R. D. Pughlin	716,252	Dec. 16	3121	683	101	2519
Brush. Fish	M. C. Isaacs	702,136	June 10	1537	347	99	2443



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Brush. Flat	W. H. Humphrey	700,050	May 13	1783	412	99	1555
Brush. Fountain	H. Schwartz and I. Silberman	701,402	June 3	219	46	99	2121
Brush. Fountain	G. D. Membery	714,814	Dec. 2	323	71	101	1903
Brush. Fountain	H. P. McMillan	717,251	Dec. 30	5185	1124	101	2996
Brush. Fountain marking	J. A. Crandall	702,286	June 10	1798	410	99	2495
Brush. Fountain shaving	T. H. Scott	715,881	Dec. 16	2376	527	101	2362
Brush-handle holder	W. J. Tranter	692,739	Feb. 4	816	209	98	986
Brush-holder	N. C. Bassett and J. W. Hill	697,492	Apr. 15	1964	368	99	455
Brush-holder	H. F. T. Erben	705,035	July 22	3239	699	100	714
Brush-holder	F. T. Weidaw	706,286	Aug. 5	572	124	100	1231
Brush-holder	M. C. Bassett	712,477	Nov. 4	17	6	101	900
Brush-holder	W. D. Litchfield	714,811	Dec. 2	319	79	101	1902
Brush-holder for motors, &c	B. A. Stowe	713,711	Nov. 18	2418	540	101	1425
Brush-holder support	H. A. Balcome	713,589	Nov. 18	2191	488	101	1378
Brush-machine	H. M. Schwartz	696,761	Apr. 1	691	157	99	147
Brush-making machine	J. F. Mumford	711,065	Oct. 14	1280	279	101	279
Brush or broom	A. Baldwin	692,593	Feb. 4	671	156	98	936
Brush or broom	A. Little	712,820	Nov. 4	666	154	101	1034
Brush or broom holder. Adjustable	A. Wurm	714,089	Nov. 18	3154	699	101	1582
Brush. Polishing	W. Dixon	696,725	Apr. 1	627	141	99	136
Brush. Rotary	F. G. Farnham	713,983	Nov. 1	1165	268	99	1183
Brush. Scrub	M. Marcus	711,577	Oct. 21	2669	587	101	585
Brush. Scrubbing	A. W. Smith	697,682	Apr. 15	2422	538	99	543
Brush. Scrubbing	J. B. Martin	714,215	Nov. 25	3481	755	101	1657
Brush. Scrubbing	B. Rensch	715,149	Dec. 2	957	206	101	2032
Brush. Shoe-polish-applying	C. Platner	715,140	Dec. 2	943	203	101	2029
Brush. Sprinkling scrub	F. Pirrung	705,861	July 29	4890	1065	100	1052
Brush. Tooth	F. T. Rench	711,075	Oct. 14	1306	282	101	284
Brush. Tooth	H. Poling	713,683	Nov. 18	2368	528	101	1414
Brush. Tooth	A. Haussmann	715,263	Dec. 9	1168	250	101	2048
Brushes, brooms, &c. Apparatus for attaching or detaching handles of	J. Elstone	702,712	June 17	2610	601	99	2083
Brushes. Centrifugal bristle-expelling machine for	G. A. Vickery	698,878	Apr. 29	4746	1045	99	1075
Brushes. Making	J. F. Mumford	696,104	Apr. 25	3323	750	99	2154
Bubble blower	C. E. Alhart	697,983	Apr. 15	1964	368	99	455
Bubble-blowing device	F. D. Horton	693,335	Feb. 18	2230	489	98	1304
Bucket	G. H. Hulett	713,987	Nov. 18	2955	655	101	1539
Bucket	R. J. Aspin and J. A. Erickson	716,980	Dec. 30	4648	1007	101	2880
Bucket and operating mechanism. Clam-shell	F. E. Hulett	696,444	Apr. 1	90	20, 21	99	24
Bucket. Bait	J. B. Hall	706,407	Aug. 5	816	178	100	1279
Bucket. Cook	L. Moore	704,908	Apr. 27	3614	830	99	1963
Bucket-dumping apparatus	W. R. Wilcox	715,328	Dec. 2	1106	236	101	2063
Bucket-dumping apparatus	W. R. Wilcox	716,328	Dec. 16	3245	710	101	2544
Bucket-dumping apparatus. Automatic	T. N. Jones	701,412	June 3	941	299	99	2305
Bucket-dumping device for steam-shovels	H. T. Porter and G. H. Beaumont	702,473	June 17	2158	492	99	2590
Bucket-dumping mechanism. Automatic	T. E. Anderson	713,932	Nov. 18	2814	631	101	1516
Bucket-ear	F. T. Brosi	709,299	Sept. 16	2488	590	100	2524
Bucket-handle	J. Schaffer	713,505	Nov. 11	2039	457	101	1932
Bucket or manger	W. H. Rymer	710,341	Sept. 30	4530	1022	100	2877
Bucket or parcel carrier	E. V. Hutchens	710,780	Oct. 7	748	158	101	152
Bucket-supporter	W. H. Thompson	710,907	Oct. 7	957	210	101	195
Bucket. Well	H. W. Holmes	703,923	July 1	1008	219	100	201
Bucket. Well	C. P. Jackson	713,442	Nov. 11	1880	426	101	1300
Buckets. Means for dumping or discharging materials from	H. A. L. Barry	702,912	June 24	2985	687	99	2779
Buckle	J. H. Hart	699,502	Mar. 4	80	18	98	1728
Buckle	A. E. Durland	701,561	May 6	706	164	99	1322
Buckle	M. J. Griffin	702,082	June 3	508	112	99	2213
Buckle	D. E. White	703,464	June 10	1455	327	99	2425
Buckle	R. Porter	705,620	July 1	164	38	100	35
Buckle	E. T. Specht	706,080	July 29	4469	969	100	965
Buckle	J. E. Mitchell	708,387	Aug. 5	152	32	100	1147
Buckle	D. M. McLean	710,641	Sept. 2	695	156	100	2122
Buckle	P. E. Wiberg	711,748	Oct. 7	467	98	101	94
Buckle	W. M. Warner	713,569	Oct. 21	2607	573	101	574
Buckle	J. F. Molloy	694,379	Nov. 11	2153	482	101	1354
Buckle	N. I. Hecht	714,579	Nov. 25	4095	906	101	1730
Buckle	S. Sourek	714,828	Dec. 2	350	77	101	1908
Buckle	J. Beveridge	715,948	Dec. 16	2512	553	101	2392
Buckle and combination. Adjustable clamp	F. F. Hodges	703,584	July 1	369	85	100	73
Buckle. Back-band	D. T. Bryan	694,727	Mar. 4	749	167	98	1870
Buckle. Back-band	E. H. Crum	707,394	Aug. 19	2660	600	100	1697
Buckle. Belt	A. E. Lee	697,855	Apr. 15	2377	606	99	614
Buckle-belt-clamp	L. Sanders	701,091	May 27	3907	889	99	2018
Buckle-chafe	W. Bauman	697,433	Apr. 15	1978	437	99	456
Buckle. Check-line	D. C. F. Snell	698,068	Apr. 22	3130	689	99	714
Buckle. Dip-waist-belt	E. R. Lowry	695,940	Mar. 25	2989	675	98	2284
Buckle frame. Lock	M. W. Lynch	695,405	Mar. 11	2008	430	98	2151
Buckle. Harness	C. H. Johnson and L. H. Clements	708,359	Sept. 2	656	148	100	2114
Buckle. Harness	B. F. George	714,171	Nov. 25	3346	737	101	1641
Buckle. Lock	M. W. Lynch	703,401	Mar. 11	3907	889	99	2018
Buckle. Lock	C. A. Goorey	708,339	Sept. 2	629	141	100	2109
Buckle or fastener for bale-ties or the like. Clamp	W. R. Sturgiss	707,034	Aug. 12	1969	441	100	1535
Buckle or frame	H. J. Gaisman	714,471	Nov. 25	3895	830	101	1749
Buckle-shield	G. L. Hempy	699,317	May 6	352	82	99	1246
Buckle. Suspender	M. Rubin	700,828	May 27	3363	773	99	1919
Buckle. Suspender	H. H. Wilson	700,872	May 27	3445	791	99	1934
Buckle. Suspender	W. T. Dugger	701,669	June 3	742	164	99	2261
Buckle. Suspender	W. E. Foote	713,625	Nov. 18	2298	504	101	1394
Buckle. Tongue	N. C. Hanson	703,255	June 24	3647	838	99	2010
Buckle. Tongueless	G. Schneider	706,857	Aug. 12	1661	372	100	1474
Buckle. Trace	S. Boyer	693,827	Feb. 25	3056	671	98	1493
Buckle. Trace	C. C. Schwaner	715,613	Dec. 9	1821	404	101	2225

## Alphabetical list of inventions.—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. C.	Vol.	Page.
Buckle. Tug.	T. H. Gardiner	712,291	Oct. 28	3639	795	101	739
Buckle. Tug-strap.	W. H. Rose	697,543	Apr. 15	2166	481	99	492
Buckle. Means for securing straps to.	F. D. Woodward	703,878	July 1	129	232	100	186
Buffer-coupling. Automatic	D. Smith	716,772	Dec. 23	4129	906	101	2746
Buffer. Hand-	O. L. Brainard	713,199	Nov. 11	1398	313	101	1199
Buffing-machine	M. H. Ballard	690,548	Jan. 7	351	70, 71	98	76
Buffing-machine	J. M. Sellmayer	693,912	Feb. 25	3230	712	98	1526
Buffing-roll	A. B. Fowler	700,189	May 20	2667	479	99	1640
Buffing-wheel	E. R. Burns	713,301	Nov. 11	1395	311	101	1200
Buggy. Baby.	W. E. Strang	708,621	Sept. 9	1111	249	100	2218
Buggy-bed stay	W. B. Williamson	704,769	July 15	2664	563	100	558
Buggy-boot	J. W. Simmons	709,560	Sept. 23	3041	677	100	2652
Buggy-boot attachment	A. W. Wilson	708,686	Sept. 9	1235	283	100	2243
Buggy boot or apron	H. A. Sorensen	704,276	July 8	1701	371	100	357
Buggy-step	J. G. Rehkopf	691,872	Jan. 28	2854	643	98	646
Buggy storm-curtain	B. S. D. S. Martin	709,026	Sept. 16	1947	446	100	2409
Buggy-top adjuster	J. B. Vliet	703,505	July 1	224	33	100	47
Buggy-top. Folding	J. A. Wilson	690,543	Jan. 7	335	68	98	72
Buggy-top locking-brace	T. F. Horne	710,273	Sept. 30	4413	994	100	2953
Buggy-top raiser	M. Brown	705,901	July 29	4969	1081	100	1061
Buggy-top support	E. E. Boxley and J. Holmes	694,245	Feb. 25	3857	855	98	1652
Bugs or other insects infesting dwellings, &c. Apparatus for destroying	C. F. Whittlesey	693,732	May 13	1139	267	99	1122
Bugs or other insects infesting dwellings, &c. Apparatus for destroying	C. Matthey-Meier	704,847	July 15	2761	596	100	591
Building.	J. A. Martin-Cooke	700,794	May 27	3299	757	99	1907
Building-block	J. W. Christford	701,150	May 27	3955	910	99	2043
Building-block	A. De Man	701,165	May 27	3980	915	99	2048
Building-block and wall	F. A. Searight and G. J. Stevens	708,499	Sept. 2	898	180	100	2164
Building-block die	C. F. Whittlesey	704,606	July 15	2317	503	100	500
Building-block for flues.	N. Merley	708,725	Sept. 9	1316	300	101	2260
Building-block for flues.	E. L. Moore	695,822	Mar. 18	2770	632	98	2325
Building construction	C. M. Carnahan	693,494	Feb. 18	2418	528	98	1343
Building construction	A. Goodman	695,718	Mar. 18	2574	582	98	2284
Building construction	M. A. Winget	699,735	May 13	1170	267	100	1427
Building construction	W. B. Riley	704,933	July 15	2380	638	100	639
Building construction	C. E. Cottrell	709,257	Sept. 16	2404	545	100	2506
Building construction	W. F. Giles	710,679	Oct. 7	540	112	101	110
Building construction	W. H. Drake	714,876	Dec. 2	483	102	101	1933
Building construction	S. Gillett	716,029	Dec. 16	2664	587	101	2424
Building material	M. W. Marsden	696,062	Mar. 25	3220	727	98	2431
Building material	M. W. Marsden	704,066	July 8	1290	280	100	271
Building material.	A. Standau	711,541	Oct. 21	2210	480	101	489
Building material. Box of	O. Nentwig	707,446	Aug. 19	2750	622	100	1716
Building-renovating apparatus.	D. F. Saum	708,922	Sept. 9	1711	395	100	2345
Building-slab and means for supporting same	T. P. Payne	705,127	July 22	3383	732	100	734
Building-support	M. H. Callahan	692,179	Jan. 28	3401	770	98	755
Buildings. Construction of metallic-frame	C. E. Heberd	708,548	Sept. 9	984	222	100	2129
Buildings having circular or regular shaped roofs converging in one point. Construction for	M. H. Vail	693,989	Feb. 25	3399	747	98	1560
Buildings. Metal framework for	E. Huber and A. Milmine	704,829	July 15	2729	590	100	584
Bulkhead-door	W. W. Iffe	702,651	June 17	2498	572	99	2660
Bulkhead-doors. Apparatus for closing or opening water-tight	W. and A. R. Crawford	701,156	May 27	3967	912	99	2045
Bulkhead-doors. Means for operating	P. Hoppe	706,471	Aug. 5	944	206	100	1306
Bullet. Compound	L. B. Taylor	693,534	Feb. 18	2497	548	98	1360
Bullet-mold	H. Richter	705,146	July 22	3430	745	100	744
Bung	R. Spahn	690,796	Jan. 7	812	179	98	173
Bung	S. Schlangen	693,814	Feb. 11	2066	452	98	1249
Bung	F. Kellers	693,608	Feb. 18	2652	585	98	1390
Bung	H. C. Blanck	708,305	Sept. 2	573	130	100	2098
Bung and bung attachment	T. Tietz	710,631	Oct. 7	553	94	101	91
Bung and bunging. Barrel	E. C. Phillips	706,103	Aug. 5	186	39	100	1155
Bung and connection for beer-barrels. Valved	D. Beebe	706,884	Aug. 12	1711	382	100	1483
Bung and faucet for barrels	G. R. Van der Wee	712,108	Oct. 28	3317	727	101	735
Bung and tapping-bush. Combination	J. Scior	701,226	May 27	4087	941	99	2069
Bung and tapping device for beer-barrels.	P. Forg	713,975	Nov. 18	2936	651	101	1535
Bung. Non-removable	C. Zwickel and L. P. Grunbaum	691,227	Jan. 14	1595	364	98	348
Bunsen burner	C. W. Taylor	690,792	Jan. 7	822	182	98	174
Bunsen burner	C. W. Taylor	702,258	June 10	1746	395	99	1484
Bunsen burner	J. Q. Cate	706,890	Aug. 12	1612	362	100	1164
Bunsen burner	W. H. and G. E. Russell	708,239	Sept. 2	488	112	100	2080
Bunsen or like burner	W. Schaefer	715,800	Dec. 9	1251	266	101	2112
Buoy	W. S. Crouch, Jr.	706,803	Aug. 12	1562	349	100	1453
Buoy	W. S. Crouch, Jr.	706,804	Aug. 12	1564	350	100	1453
Burglar-alarm	W. H. Reiff	690,997	Jan. 14	1194	270	98	255
Burglar-alarm	G. Janke	700,652	May 19	2861	684	99	1822
Burglar-alarm	J. Q. Robinson and J. E. Green	700,897	May 27	3493	801	99	1441
Burglar-alarm	S. H. Erickson and F. Peterson	701,552	June 3	493	109	99	2310
Burglar-alarm	W. H. Moody	701,753	June 3	848	187	99	2286
Burglar-alarm	P. W. Dunne	704,246	July 8	1637	355	100	342
Burglar-alarm	C. Fruehauf	704,247	July 8	1639	355	100	343
Burglar-alarm	W. B. Thomas	704,981	July 15	3038	664	100	658
Burglar-alarm	J. H. Howard	707,513	Aug. 19	2861	684	100	1741
Burglar-alarm	R. A. Brachvogel	708,496	Sept. 2	895	202	100	2163
Burglar-alarm	H. C. Macdonald	710,746	Oct. 7	669	140	101	136
Burglar-alarm and door-check. Combined	R. A. Macdonald	713,782	Nov. 18	2550	568	101	1455
Burglar-alarm and door-check	C. H. Hawkinson	694,380	Mar. 4	81	19	98	1728
Burglar-alarm and door-lock	L. H. Handy and C. S. Hosford	700,039	May 13	1764	408	99	1551



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Burglar-alarm. Detonating	W. H. Reiff	699,116	Apr. 29	5143	1198	99	1156
Burglar-alarm. Detonating	F. M. Reynolds	712,005	Oct. 28	3133	685	101	680
Burglar-alarm. Electric	H. C. and W. G. Roome	693,067	Feb. 11	1560	341	98	1140
Burglar-alarm. Electrical	H. C. and W. G. Roome	693,068	Feb. 11	1564	341	98	1147
Burglar-alarm fly-screen	D. S. Hill	695,049	Mar. 11	1373	301	98	2620
Burglar-alarm. Model	E. F. Conklin	713,965	Nov. 18	2913	647	101	1539
Burglar-alarm or door-signal	W. R. Edelen. (Reissue)	12,057	Nov. 25	4235	936	101	1817
Burglar-alarm. Safe	I. J. Emory	700,027	May 13	1738	401	99	1546
Burglar and fire alarm	R. Barrett	694,456	Mar. 4	299	50	98	1761
Burglar-trap. Safe	M. Elmer	697,462	Apr. 15	2025	447	99	465
Burial apparatus	C. W. Wellman	713,187	Nov. 11	1372	310	101	1195
Burial apparatus. Automatic releasing device for	W. L. Barth	710,406	Oct. 7	18	4	101	6
Burial-case	C. D. Koeser	703,934	July 1	1029	223	100	205
Burial-case	J. B. Kerr, Jr.	709,985	Sept. 30	3877	874	100	2838
Burial-case protector	H. D. Clark	699,945	May 13	1598	365	99	1318
Burial-casket	J. A. Turney	692,804	Feb. 4	1047	235	98	1010
Burial-casket	C. H. Hiser	696,439	Apr. 1	84	19	99	22
Burial-casket	J. Koegel	706,960	Aug. 12	1844	412	100	1510
Burial-casket rough box	P. D. Skahan	709,423	Sept. 16	2737	615	100	2577
Burial device	R. R. Kinney	700,948	May 27	3881	824	99	1968
Burial robe	H. K. Burket	702,773	June 17	2728	626	99	2708
Burial-tomb	F. Zarling	712,030	Oct. 28	3171	693	101	708
Burial-vault	G. Bolser	711,713	Oct. 21	2531	555	101	537
Burner:							
See Bunsen burner.	Gasolene-burner.						
Bunsen or like burner.	Hydrocarbon-vapor burner.						
Fluid-fuel burner.	burner.						
Fuel-burner.	Illuminating and heating burner.						
Furnace oil-burner.	Incandescent burner.						
Garbage-burner.	Injector-burner.						
Gas-burner.	Lamp-burner.						
Gas and air mixing burner.	Liquid-fuel burner.						
Gas and oil burner.	Oil-burner.						
Gas-heating burner.	Oven-burner.						
Gas or vapor burner.	Pulverized-fuel burner.						
Gaseous-fuel burner.	Regenerator-burner.						
er.	Vapor-burner.						
Burner	C. Wolff	695,850	Mar. 18	2819	641	98	2335
Burner	T. Stites	697,690	Apr. 15	2498	542	99	547
Burner	H. C. Zenke	701,123	May 27	3912	899	99	2033
Burner	M. S. Walker	707,285	Aug. 19	2462	552	100	1657
Burner	M. S. Walker	707,286	Aug. 19	2464	552	100	1657
Burner	J. L. Jones, Jr.	710,276	Sept. 30	4417	996	100	2054
Burner	S. Elliott	714,103	Nov. 18	3181	704	101	1583
Burner	H. B. Cary	715,543	Dec. 9	1779	379	101	2243
Burner and inhaler	W. R. Warner	699,598	May 6	890	206	99	1358
Burner attachment	T. L. Roy and T. Marshall, Jr.	709,278	Sept. 16	2446	553	100	2515
Burner-cap	W. H. and R. W. Miller	704,653	July 15	2394	518	100	516
Burner for burning coal-oil, &c	W. L. Mersfelder	716,918	Dec. 30	4520	980	101	2854
Burner-tip cleaner	S. Carlson	709,077	Sept. 16	2047	467	100	2431
Burning liquid fuel	H. B. Cary	715,638	Dec. 9	1869	313	101	2233
Burnishing or polishing machine	O. A. Hanford	700,642	May 20	2965	681	99	1819
Bushing	J. A. Bomgren	715,006	Dec. 2	711	150	101	1979
Bushing. Adjustable	S. P. Buck	700,014	May 13	1705	393	99	1539
Bushing. Bung.	G. H. Ricke	710,006	Sept. 30	3904	881	100	2844
Bushing. Bung-hole	N. H. Medbery	694,769	Mar. 4	843	186	98	1890
Bushing. Gduit-outlet.	F. W. Erickson	712,513	Nov. 4	89	23	101	916
Bushing for buffing wheels	J. T. White	716,325	Dec. 16	3240	708	101	2543
Bushing for screws, &c. Anchor	W. S. Smith	697,806	Apr. 15	2806	620	99	628
Bushing for sheaves. Roller	C. E. McIntire	697,524	Apr. 15	2132	474	99	486
Bushing for sheaves. Roller	W. F. Wellman	710,088	Sept. 30	4060	915	100	2876
Bushing. Rock-drill	W. Wood	712,884	Nov. 4	791	183	101	1059
Bushings. Machine for truing piston-ring	A. R. Davis	705,738	July 29	4691	1015	100	1008
Bustle	H. M. Ten Brook	695,420	Mar. 11	2031	456	98	2154
Bustle	H. B. Taylor	704,146	July 8	1472	316	99	166
Bustle	H. H. Taylor	714,532	Nov. 25	4012	888	101	1776
Bustle and hip extension	M. E. Wetherell	692,095	Jan. 28	3269	739	98	728
Bustle and hip-form. Combined	C. H. Scott	702,158	June 10	1583	358	99	2452
Busy-test system	D. S. Hulfish	712,455	Oct. 28	3947	864	101	866
Butcher's block-scraper	B. I. Plummer	701,503	June 3	401	91	99	2190
Butter-cutter	I. B. Walker	693,760	Feb. 18	2922	642	98	1447
Butter-cutter	A. Donovan	699,501	May 6	706	164	99	1392
Butter-cutter	M. R. Phillips	705,543	July 22	4320	934	100	921
Butter-cutter	O. L. Johnson and L. P. Matthews.	713,645	Nov. 18	2298	512	101	1400
Butter-cutting machine	G. L. Smith	695,501	Mar. 18	2170	490	98	2203
Butter-cutting machine	C. Claus	701,874	June 10	1057	238	99	2344
Butter-cutting machine	S. E. Perkins	714,943	Dec. 2	606	127	101	1956
Butter-mold	F. A. Wegner	700,546	Oct. 7	207	65	101	91
Butter-packer	F. Prentice	710,338	Sept. 30	4522	1019	100	2975
Butter-printing apparatus	C. A. Hodge	701,041	May 27	3764	863	99	2062
Butter-tub, &c.	H. W. Beldsmeier	693,217	Feb. 11	1908	413	98	1215
Button	A. A. Richmond	691,178	Jan. 14	1509	340	98	330
Button	J. Gump	694,636	Mar. 4	574	126	98	1834
Button	J. C. Friedrich	700,759	May 27	3236	742	99	1895
Button	G. W. Buchanan. (Reissue)	12,020	Aug. 19	2905	658	100	1749
Button	F. E. Stanley	708,673	Sept. 9	1209	276	100	2538
Button	J. Hilder	708,711	Sept. 9	1288	294	100	2554
Button	J. M. Marks	712,080	Oct. 28	3276	717	101	727

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Button .....	W. C. Vogel .....	712,426	Oct. 28	9300	854	101	857
Button and blank therefor. Sheet-metal .....	J. Hafer, Jr. ....	701,717	June 8	786	174	99	2273
Button and making same .....	M. D. Shipman ..	707,456	Aug. 19	2764	636	100	1719
Button. Badge .....	A. A. Doran .....	713,076	Nov. 11	1157	266	101	1151
Button-carding machine .....	W. J. Pugh .....	699,565	May 6	813	192	99	1343
Button-cleaning shield .....	S. H. Bascom .....	702,278	June 10	1782	407	99	2492
Button. Collar .....	E. W. Cranston ..	693,689	Feb. 18	2807	517	98	1122
Button. Collar .....	B. Murphy .....	714,987	Dec. 2	595	125	101	1954
Button. Collar or cuff .....	O. F. Amburn .....	701,244	May 27	4121	948	99	2075
Button. Combined badge and bouquet holding .....	G. J. Alexander ..	705,190	July 22	3516	763	100	763
Button-drilling machine .....	A. A. Coyle .....	699,663	May 13	1028	239	99	1400
Button fastener. Collar .....	W. E. Emery .....	711,390	Oct. 14	1908	415	101	412
Button-fastening for garments .....	G. W. McGill .....	716,267	Dec. 16	3137	687	101	2523
Button-feeding mechanism .....	J. Hornby .....	707,329	Aug. 19	2544	573	100	1673
Button. Flexible-shank collar or cuff .....	J. N. Crabb .....	697,812	Apr. 15	2662	591	99	597
Button. Fly .....	N. M. Marshall ..	703,073	June 24	3312	761	99	2543
Button-fly-scalloping machine .....	J. G. Grall .....	700,141	May 13	1977	454	99	1592
Button. Furniture .....	W. E. Bennett .....	714,660	Dec. 2	13	3	101	1889
Button guard or retainer .....	D. Samuel .....	711,739	Oct. 21	2386	568	101	570
Button. Lacing .....	W. Renfrew .....	699,569	May 6	824	193	99	1346
Button-machine .....	T. F. Morrissey ..	704,356	July 8	1859	402	100	393
					592		
					563		
Button-making machine .....	W. A. Pendry .....	693,565	Feb. 18	2550	564	98	1370
					565		
					566		
					99		
Button-making machine .....	M. Garbeil .....	696,639	Apr. 1	426	99	99	92
Button-making machine .....	J. B. Willyerd .....	701,116	May 27	3895	894	99	2080
Button-making machines. Grip-carrier for .....	J. Hornby .....	707,326	Aug. 19	2539	571	100	1672
Button-making machines. Segmental gear for .....	J. Hornby .....	707,328	Aug. 19	2542	572	100	1672
					573		
Button-making machines. Spindle adjustment for .....	J. Hornby .....	707,330	Aug. 19	2546	573	100	1673
					574		
Button. Metallic .....	R. McKay .....	710,991	Oct. 14	1121	247	101	246
Button. Metallic garment .....	G. J. Capewell .....	691,743	Jan. 28	2619	587	98	598
Button mold. Collar .....	J. S. Barnes .....	700,606	May 20	2898	666	99	1804
Button or catch for coat-collars .....	J. A. Linderman ..	694,104	Feb. 25	3603	797	98	1601
Button or stud. Attaching .....	C. H. Schopbach ..	690,666	Jan. 7	573	125	98	123
Button or stud. Separable .....	J. L. Vredenburg ..	708,181	Sept. 2	341	81	100	2051
Button-polishing machine .....	J. Hornby .....	708,768	Sept. 9	1396	319	100	2378
					320		
Button posts. Gang of collar .....	N. B. Evans .....	716,884	Dec. 23	4356	945	101	2804
Button. Separable .....	H. R. Sieverkropp ..	705,793	July 29	4781	1037	100	1028
Button. Separable trousers .....	A. Luethi .....	696,908	Apr. 1	993	221	99	210
Button-setting machine .....	G. A. Mosher .....	693,048	Feb. 11	1527	333	98	1141
					334		
Button-setting machine .....	F. E. Stanley .....	699,721	May 13	1137	267	99	1422
					266		
Button-setting machine .....	E. B. Stimpson .....	707,274	Aug. 19	2437	546	100	1652
					547		
Button-setting machine .....	E. B. Stimpson .....	714,336	Nov. 25	3655	806	101	1702
Button. Spring .....	G. W. McGill .....	711,670	Oct. 21	2455	539	101	541
Button-stenciling machine .....	J. Hornby .....	705,084	July 22	3288	713	100	715
					714		
Button-stenciling-machine pigment-spraying mechanism .....	J. Hornby .....	705,086	July 22	3295	716	100	716
					717		
Button-stenciling-machine stencil-carrier .....	J. Hornby .....	705,085	July 22	3292	714	100	716
					715		
Button. Tufting .....	F. Marggraff .....	695,468	Mar. 18	2119	477	98	2192
Button. Tufting .....	H. Higgin .....	711,312	Oct. 14	1772	383	101	383
Button-turning machine .....	J. Henrich .....	711,723	Oct. 21	2549	560	101	561
					561		
Button-turning machine. Pearl .....	J. Loog .....	710,985	Oct. 14	1105	243	101	242
					244		
Button. Wire .....	S. A. Foster .....	709,537	Sept. 23	3005	669	100	2646
Buttons, &c. Combined post and strengthening-bridge for cuff .....	P. H. Long .....	713,008	Nov. 4	1014	237	101	1103
					238		
Buttons, &c. Machine for making .....	W. B. Alden .....	697,189	Apr. 8	1513	338	99	341
					339		
Buttons, &c. Mechanism for operating machines for attaching .....	T. Long .....	700,790	May 27	3291	755	99	1905
					756		
Buttons, &c., out of nacre, &c. Machine for cutting .....	A. Masson and E. Fortin	714,727	Dec. 2	144	29, 30	101	1867
Buttonhole and button location marking machine .....	R. J. Powell and W. H. Vaughan	711,175	Oct. 14	1506	324	101	329
					752		
Buttonhole attachment for garments .....	P. S. Hoyt .....	716,421	Dec. 23	3450	753	101	2602
Buttonhole-cutter .....	R. Olsen .....	692,027	Jan. 28	3134	706	98	700
Buttonhole-cutter .....	C. L. Rogers .....	698,142	Apr. 22	3296	722	99	746
Buttonhole-cutter .....	L. F. Monck .....	705,945	July 29	5052	1100	100	1082
Buttonhole-cutter .....	A. Jude .....	715,810	Dec. 16	2223	495	101	2328
					499		
Buttonhole-machine .....	R. W. Thomson .....	696,698	Apr. 1	564	130	99	122
Buttonhole-machine. Automatic stop mechanism for .....	P. Fabisch .....	706,646	Aug. 12	1248	276	100	1386
Buttonhole-moistener .....	E. Puff .....	704,577	July 15	2273	493	100	490
Buttonhole portions of articles of apparel. Repair-strip for .....	J. P. Stout .....	699,827	May 13	1348	313	99	1466
Buttonhole-stitching machine .....	W. W. Dixon .....	695,039	Mar. 11	1352	298	98	2015
Buttonhole-stitching machine .....	R. W. Thomson .....	696,699	Apr. 1	551	131	99	129
Cabinet. Carton spice .....	A. N. Warren .....	691,990	Jan. 28	3065	688	98	688
Cabinet for bookcases, letter-files, &c .....	F. Framblay .....	710,086	Sept. 30	4054	913	100	2875
Cabinet for holding and means for delivering envelopes, bags, &c. .....	E. Cook .....	712,503	Nov. 4	70	18	101	911
Cabinet. Kitchen .....	J. P. Pallansch .....	699,702	May 13	1101	259	99	1415



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. G.	Vol.	Page.
Cabinet. Kitchen.	G. W. Harris	714,480	Nov. 25	3908	864	101	1752
Cabinet. Kitchen.	H. N. Lathrop	717,222	Dec. 30	5137	1113	101	2986
Cabinet. Machine-bearing	T. Kundtz	709,098	Sept. 16	2096	480	100	2442
Cabinet or rack. Running-account hotel.	E. L. Dodson	716,991	Dec. 30	4671	1013	101	2885
Cabinet. Prescription.	J. J. Nesmith	710,001	Sept. 30	3897	879	100	2842
Cabinet. Tooth brush and powder	C. T. Price	692,708	Feb. 4	871	199	98	977
Cabinet. Tooth brush and powder	C. T. Price	709,327	Sept. 30	3360	846	100	2811
Cable-clip	H. R. Davis	705,391	July 23	3969	859	100	852
Cable connection	C. Luke	701,208	May 27	4055	982	99	2064
Cable connection for covering spliced joints.	C. Luke	701,210	May 27	4058	932	99	2064
Cable-grip	J. Metcalfe and T. Bell	698,842	Apr. 29	4691	1033	99	1064
Cable-hanger.	S. Du Perow	704,788	July 15	2636	570	100	565
Cable-hanger.	E. H. Auxer	716,654	Dec. 23	3927	858	101	2793
Cable-hanger. Aerial	G. J. Knittle	692,523	Feb. 4	558	131	98	912
Cable-hanging hook	C. P. Seyler and P. H. Auxer	694,677	Mar. 4	655	143	98	1850
Cable-joint	W. M. Murphy	712,568	Nov. 4	210	50	101	941
Cable mechanism for hauling loads up inclined surfaces.	W. J. Jackman	704,830	July 15	2730	590	100	584
Cable-rope equalizer	W. H. Beebe	707,816	Aug. 26	3540	798	100	1894
Cable signal. Traveling.	M. Norden	712,201	Oct. 28	3481	764	101	707
Cablesleeve.	C. M. Earl	707,055	Aug. 12	3011	150	100	1544
Cable-support	J. E. Gamalielson	707,314	Aug. 19	2513	565	100	1666
Cable-suspending hanger	S. Du Perow	698,185	Apr. 22	3373	739	99	703
Cable system of transportation. Elevated.	T. Alexander	708,222	June 24	3506	826	99	2899
Cable-terminal	E. Gozenbach	701,875	June 10	1058	298	99	2345
Cable-testing apparatus	H. W. Fisher	703,777	Aug. 19	2359	527	100	1683
Cable-track roads. Support for suspended.	W. F. Brothers	691,235	Jan. 14	1615	369	98	352
Cableway.	J. G. Delaney and T. S. Miller	717,176	Dec. 30	5054	1095	101	2968
Cableways. Automatic dumping device for.	G. Bernhard	694,237	Feb. 25	3845	852	98	1648
Caddy. Base-delivery	B. R. Faunce	716,878	Dec. 30	4448	1021	101	2840
Caffein. Making	C. A. Anderson	714,637	Dec. 2	6	101	1888	
Cage	J. H. Hubbell	697,321	Apr. 16	162	334	99	365
Cage-press	J. F. O'Rourke	691,069	Jan. 14	1325	290	98	296
Caisson air-lock	W. McIlvrid	702,324	June 10	1862	423	99	2506
Caisson for cleaning ships' sides and bottoms. Float-able	R. Kaucher	702,965	June 24	3108	715	99	2804
Caisson for subaqueous work	C. Blagburn	694,939	Mar. 11	1159	233	98	1971
Cake-dropping apparatus. Cup.	W. J. Meikleham	702,576	June 17	2338	539	99	2039
Cake-pan	E. E. and A. M. Schaumlöeffel	692,019	Feb. 11	1284	282	98	1091
Cake-pan	M. A. Grant	701,198	May 27	4041	929	99	2061
Cake-pan	B. Haffner	702,203	June 10	1661	373	99	2467
Calcinig apparatus. Plaster.	A. Lawrence	706,965	Aug. 12	1852	415	100	1511
Calcinig lime, &c	B. E. Eldred	692,257	Feb. 4	74	16	98	814
Calcium carbid. Manufacture of	D. de Vullitch and J. d'Orlowsky	701,650	June 3	676	148	99	2240
Calcium carbid. Manufacturing.	I. L. Roberts	708,321	Sept. 9	1711	420	100	2345
Calcium carbophosphid	C. S. Bradley, R. H. Read, and C. B. Jacobs	716,132	Dec. 16	2988	101	2493	
Calcium sulfate and by-products. Obtaining	H. H. Wing	712,225	Oct. 28	3524	772	101	776
Calculagraph	H. Abbott	697,426	Apr. 15	1963	434	99	453
Calculagraph	H. Abbott	697,427	Apr. 15	1966	434	99	453
Calculating device	A. L. Butt	690,924	Jan. 14	1051	237	98	236
Calculating-machine	J. W. Sloss	694,897	Mar. 4	1076	237	98	1939
Calculating-machine	F. L. Fleishman	695,099	Mar. 11	1456	323	98	2036
Calculating-machine	L. Y. McConnell and C. L. Raymond.	699,807	May 13	1307	303	99	1457
Calculating-machine	W. G. Powell	701,611	June 3	594	130	99	2332
Calculating-machine	G. F. Harrison	701,731	June 3	795	176	99	2274
Calculating-machine	C. Hamann	703,785	July 1	753	166	100	151
Calculating-machine	C. Hamann	705,838	July 29	4855	1054	100	1043
Calculating-machine	I. Hultman	706,180	Aug. 5	347	75	100	1187
Calculating-machine	F. S. Baldwin	706,375	Aug. 5	740	161	100	1266
Calculating-machine	F. C. Rinsche	709,244	Sept. 16	2381	589	100	2591
Calculating-machine	A. C. Schuman	709,369	Sept. 16	2607	587	100	2551
Calculating-machine	A. C. Schuman	709,365	Sept. 16	2635	591	100	2556
Calculating-machine	H. E. Goldberg	710,772	Oct. 7	717	151	101	146
Calculating-machine	J. Vermehren	711,887	Oct. 21	2871	635	101	630
Calculating-machine	J. T. Howieson	712,381	Oct. 28	3700	830	101	833
Calculating-machine	H. E. Goldberg	712,518	Nov. 4	96	25	101	917
Calculating-machine	A. Hoch	712,795	Nov. 4	616	142	101	1025
Calculating-machine	D. J. T. Hiatt	717,396	Dec. 30	5422	1178	101	3047
Calculating-machine dating attachment	A. C. Schuman	709,364	Sept. 16	2633	590	100	2556
Calculator.	A. T. Beauregard	693,774	Feb. 18	2946	648	98	1451
Calculator	G. Roegner	698,141	Apr. 22	3293	721	99	747

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Calculator.....	E. W. Sibley.....	707,652	Aug. 26	3174	714 715 716	100	1821
Calculator.....	W. P. Shattuck.....	717,125	Dec. 30	4912	1064 1065	101	2937
Calculator.....	T. Fregoso.....	717,381	Dec. 30	5397	1174	101	3442
Calculator. Mechanical.....	F. H. MacCollin.....	697,561	Apr. 15	2757	611	99	618
Calendar.....	A. W. Stelter.....	694,670	Jan. 7	380	128	98	124
Calendar.....	H. W. McAll.....	694,881	Mar. 4	1050	233	98	1934
Calendar.....	M. Lichter.....	700,059	May 13	1794	416	99	1557
Calendar.....	F. M. Nace.....	702,988	June 24	3149	724	99	2812
Calendar.....	C. L. Post.....	704,208	July 8	1580	341	100	381
Calendar.....	W. C. Norman.....	700,353	Sept. 16	2582	582	100	2544
Calendar.....	S. D. Chambers.....	711,473	Oct. 21	2072	448	101	460
Calendar.....	A. Anderson.....	716,166	Dec. 16	2632	644	101	2479
Calendar. Collection.....	E. O. Peterson.....	705,607	July 29	4449	965	100	961
Calendar. Combined week-note and day block.....	M. Hamburger and A. J. Birkholz.....	696,098	Mar. 25	3906	745	98	2452
Calendar. Door.....	G. W. Edmondson.....	699,937	May 13	1372	318	99	1471
Calendar-roll cleanser.....	J. Frossard.....	693,553	Feb. 25	3110	689	99	1503
Calendar-roll-grinding machine.....	J. Linton.....	697,094	Apr. 8	1357	300	99	308
Calendar-roller.....	J. Kleinewefers.....	700,338	May 20	2411	550	99	1703
Calendering-machine.....	M. J. Whitlock.....	691,923	Jan. 28	2940	662 663	98	663
Calendering-machine.....	M. J. Whitlock.....	692,570	Feb. 4	617	145	98	924
Calendering-machine.....	P. M. Matthew.....	695,107	Mar. 11	1472	328	98	2039
Calendering-machine.....	L. Schreiner.....	701,511	June 3	412	93	99	2192
Caliper-gage.....	A. E. Theibault.....	693,661	Mar. 18	2486	563	98	2368
Calipers.....	F. Weimar.....	691,682	Jan. 21	2479	555	98	551
Calipers.....	H. Bube.....	693,538	Feb. 18	2507	551	98	1361
Calipers.....	A. R. Ohlman.....	695,114	Mar. 11	1484	331	98	2042
Calipers.....	G. Knapp.....	695,565	Mar. 18	2317	524	98	2234
Calipers. Micrometer.....	G. H. Radcliffe.....	700,085	May 13	1840	428	99	1566
Calipers. Micrometer.....	J. T. Slocombe.....	708,931	Sept. 9	425	398	100	2927
Calipers. Micrometer.....	F. Spalding.....	717,296	Dec. 30	5264	1141	101	3911
Calipers. Wood.....	C. F. Osburn.....	715,851	Dec. 16	2319	514	101	2351
Caliper device. Sheet.....	T. C. Dexter.....	690,703	Jan. 7	653	143	98	138
Calk-cutting machine.....	F. E. Seagren.....	708,925	Sept. 9	1715	396	100	2346
Call apparatus. Electric.....	C. Shore.....	690,623	Jan. 7	490	106	98	105
Call. Electric.....	J. Salmon.....	694,792	Mar. 4	886	196	98	1899
Call system. Electric.....	F. E. Huggins.....	699,177	May 6	90	23	99	1194
Calling expressmen, &c. Apparatus for.....	E. Lee.....	713,778	Nov. 18	2541	566	101	1453
Cam.....	V. W. Mason, Jr.....	715,830	Dec. 16	2260	503	101	2336
Cam-fastening for stamp-mill shafts.....	E. A. Blanton, Jr.....	696,403	Apr. 1	19	5	99	7
Cam mechanism.....	G. B. Petsche.....	705,701	July 29	4621	1002	100	994
Cam mechanism. Variable.....	T. M. North.....	694,570	Mar. 4	457	98	99	1810
Cam. Stamp-battery.....	C. C. Rueger.....	692,483	Feb. 4	428	106	98	362
Cam. Stamp-mill.....	J. C. H. Vaught.....	697,119	Apr. 8	1389	308	99	315
Camera.....	F. A. Wiggins.....	693,768	Feb. 18	2366	646	98	1449
Camera.....	D. H. Houston.....	694,920	Mar. 4	1124	247	98	1949
Camera.....	H. L. Silver.....	696,600	Apr. 1	372	88	99	82
Camera.....	C. Bornmann.....	698,173	Apr. 22	3355	734	99	759
Camera.....	E. R. Bullard.....	698,628	Apr. 23	4198	927	99	949
Camera.....	H. Goodwin.....	700,140	May 13	1974	454	99	1591
Camera.....	C. E. Hutchings.....	704,334	July 8	1797	392 393	100	377
Camera.....	H. W. Locke.....	704,845	July 15	2755	596	100	589
Camera.....	A. H. Rietzschel.....	705,445	July 22	4064	882	100	873
Camera.....	H. W. Locke.....	708,721	Sept. 9	1307	298 299	100	2258
Camera.....	A. C. Butler.....	711,891	Oct. 21	2875	636	101	630
Camera.....	C. F. J. Niss.....	715,125	Dec. 2	914	196	101	2924
Camera and focusing-finder therefor.....	U. Nehring.....	703,294	June 24	3704	833	99	2022
Camera attachment.....	J. L. Jackson.....	703,421	July 1	101	22	100	23
Camera attachment.....	J. K. L. Thomsen.....	713,177	Nov. 11	1356	305	101	1191
Camera attachment. Photographic.....	J. A. Robertson and C. E. Hutchings.....	704,378	July 8	1894	410	100	400
Camera. Divided-bed photographic.....	J. A. Robertson and C. E. Hutchings.....	712,334	Oct. 28	3713	811 812	101	816
Camera-finder.....	J. D. Garfield.....	713,629	Nov. 18	2273	506	101	1395
Camera focusing attachment.....	F. W. Saxby.....	699,767	May 13	1233	287	99	1441
Camera focusing device.....	A. A. Brownell.....	713,597	Nov. 18	2212	491 492	101	1382
Camera focusing device. Photographic.....	F. A. Brownell.....	692,610	Feb. 4	697	162	98	941
Camera focusing-hood. Photographic.....	H. C. Hapgood.....	703,635	July 1	513	115	100	101
Camera. Folding magazine hand.....	E. H. Morse.....	709,995	Sept. 30	3885	876 877	100	2840
Camera. Folding panoramic.....	D. H. Houston.....	694,929	Mar. 4	1137	249	98	1953
Camera. Folding roll-holding.....	D. H. Houston.....	694,925	Mar. 4	1131	248	98	1951
Camera. Folding roll-holding photographic.....	D. H. Houston.....	694,928	Mar. 4	1136	249	98	1952
Camera. Folding stereoscopic.....	C. P. Goerz.....	709,480	Sept. 23	2391	645	100	2622
Camera folding support.....	D. H. Houston.....	694,862	Mar. 4	1008	222	98	1926
Camera for producing and viewing images in natural colors. Photographic.....	E. T. Butler.....	708,795	Sept. 9	1458	338	100	2292
Camera fronts. Adjusting mechanism for photographic.....	J. A. Robertson and C. E. Hutchings.....	716,168	Dec. 16	2832	623	101	2460
Camera. Interchangeable panoramic.....	R. H. Trumbull.....	691,020	Jan. 14	1240	280 281	98	274
Camera. Magazine.....	D. A. Lowthime.....	700,792	May 27	3295	756	99	1906
Camera. Magazine.....	C. E. Hutchings, J. A. Robertson, and A. Mutschler.....	705,408	July 22	3996	865 866	100	858
Camera. Magazine.....	W. G. Perks and H. G. M. Fletcher.....	707,156	Aug. 19	2210	495	100	1602



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Camera magazine plate-holder	J. C. F. Schafer	701,400	June 3	206	45, 46	99	2150
Camera multiplying attachment	W. L. Root	695,626	Mar. 18	2430	549	98	2256
Camera negative-plate holder	K. Nelson	698,731	Apr. 29	4435	979	99	1004
Camera. Panoramic	M. L. Akers and W. L. Richards.	694,516	Mar. 4	3338	75, 76	98	1784
Camera. Panoramic	J. Forsheim	699,161	May 6	61	16, 17	99	1188
Camera panoramic attachment	H. L. Fisher	690,570	Jan. 7	386	89	98	84
Camera. Panoramic hand	N. Conti	704,438	July 8	1900	439	100	419
Camera. Panoramic photographic	D. H. Houston	694,923	Mar. 4	1129	248	98	1951
Camera. Photographic	F. A. Brownell	691,592	Jan. 21	2309	519	98	515
Camera. Photographic	F. H. Sanderson	694,080	Feb. 25	3568	787	98	1594
Camera. Photographic	J. A. P. Prieur and L. J. M. Dubois.	694,573	Mar. 4	462	100	98	1811
Camera. Photographic	E. D. Bartlett	695,527	Mar. 18	2225	503	98	2215
Camera. Photographic	W. D. Macdonald	695,690	Mar. 18	2533	573	98	2276
Camera. Photographic	H. E. Hickox	697,624	Apr. 15	2318	518	99	523
Camera. Photographic	J. and A. Wilkinson	698,164	Apr. 22	3338	729	99	756
Camera. Photographic	F. A. Brownell	698,901	Apr. 29	4794	1036	99	1084
Camera. Photographic	E. D. Bartlett	701,786	June 3	902	202	99	2297
Camera. Photographic	J. E. Thornton	702,260	June 10	1750	396	99	2485
Camera. Photographic	J. E. Thornton	702,261	June 10	1751	398	99	2486
Camera. Photographic	A. D. Davis	702,358	June 10	1925	439	99	2520
Camera. Photographic	C. F. J. Niss	702,364	June 17	2143	487	99	2586
Camera. Photographic	A. Vautier	703,858	July 1	890	195	100	178
Camera. Photographic	C. E. Hutchings	704,335	July 8	1800	393	100	378
Camera. Photographic	H. F. Purser	704,370	July 8	1878	407	100	396
Camera. Photographic	H. W. Hales	707,319	Aug. 19	2522	567	100	1668
Camera. Photographic	F. W. Merrick	711,064	Oct. 14	1276	277	101	278
Camera. Photographic	F. A. Brownell	713,596	Nov. 18	2908	491	101	1381
Camera. Photographic	L. J. R. Holst	715,803	Dec. 16	2204	492	101	2324
Camera. Photographic	W. F. Folmer	716,021	Dec. 16	2648	583	101	2422
Camera-plate attachment	J. A. Smith	715,617	Dec. 9	1826	406	101	2226
Camera. Roll-holding	D. H. Houston	694,919	Mar. 4	1122	247	98	1949
Camera. Roll-holding	D. H. Houston	694,924	Mar. 4	1130	248	98	1951
Camera. Roll-holding	R. H. Trumbull	700,264	May 20	2249	513	99	1672
Camera. Roll-holding	J. G. Browning	706,216	Aug. 5	407	87	100	1199
Camera. Roll-holding	W. Loudon	706,245	Aug. 5	465	99	100	1210
Camera. Roll-holding photographic	D. H. Houston	694,922	Mar. 4	1127	248	98	1950
Camera shutter. Photographic	F. A. Brownell	693,583	Feb. 18	2559	575	98	1379
Camera shutter-tripper	R. Faries	690,939	Jan. 14	1074	242	98	241
Camera-stand	J. H. Smith	702,749	June 17	2679	616	99	2697
Camera-stand. Adjustable	J. H. Smith	709,612	Sept. 23	3128	697	100	2671
Camera-support	W. A. Marbach	702,018	June 10	1320	302	99	2396
Camera-support	J. R. Stephens	704,666	July 15	2418	520	100	321
Camera. Swing-back photographic	V. Odquist	694,181	Feb. 25	3761	831	98	1632
Camera. Swing-back photographic	C. E. Hutchings	712,301	Oct. 28	3656	798	101	803
Camera with roll-film magazine. Folding.	C. P. Goerz	704,320	July 8	1774	387	100	373
Cameras. Automatic shutter-operating device for photographic	F. Brück	703,893	July 1	965	210	100	193
Cameras. Combined door and bellows-support for	J. D. Garfield	711,658	Oct. 21	2418	532	101	532
Cameras. Paper-holder for enlarging.	G. B. Hutchings	693,714	Feb. 18	2846	622	98	1430
Cameras. Running-bridge for extension-front photographic	C. E. Hutchings	712,302	Oct. 28	3658	799	101	804
Camphene. Making.	K. Stephan	707,370	Aug. 19	2419	589	100	1647
Camphene. Making.	K. Stephan	707,371	Aug. 19	2420	590	100	1648
Camphor. Producing.	N. Thurlow	698,761	Apr. 29	4484	.....	99	1015
Can:							
See Air-tight can.	Ice-cream can.						
Ash or refuse can.	Key-opening can.						
Cooling-can.	Lubricating-can.						
Creaming-can.	Measuring-can.						
Dispensing-can.	Metal can.						
Drying-can.	Milk-can.						
Freezing-can.	Oil-can.						
Garbage-can.	Oil or gasoline can.						
Garbage or refuse can.	Sheet-metal can						
Ice-can.	Silver-can.						
Tin sealing-wax can.							
Can	M. Grant	695,873	Mar. 18	2672	651	98	2347
Can	E. A. Nugent	693,002	Apr. 29	4957	1067	99	1118
Can	J. B. Kuechenmeister	709,017	Sept. 16	1922	441	100	2404
Can	C. A. Doolittle	715,083	Dec. 2	750	159	101	1888
Can	L. C. Sharp	715,163	Dec. 2	982	213	101	2037
Can and attaching a label thereto	T. C. Booth	706,635	Aug. 12	1225	272	100	1380
Can-body and sheet-metal blank. Solder-charged	G. Wilcox	695,519	Mar. 18	2204	500	98	2210
Can-body blank	J. Lee	695,462	Mar. 18	2104	474	98	2180
Can-body bottomer and crimper combined	H. C. Black	697,786	Apr. 15	2611	579	99	584
Can-body-feeding machine	H. C. Black	697,784	Apr. 15	2605	577	99	583
Can-body-flanging machine	J. G. Hodgson	693,017	Feb. 11	1467	319	98	1128
Can-body-flanging machine	W. J. Kenny	697,726	Apr. 15	2501	559	99	561

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Invention.	Name.	No.	Date.	Monthly volume		Official Gazette.	
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Can-body forming and soldering machine .....	H. C. Black .....	697,788	Apr. 15	2607	1578 1579	99	588
Can-body-forming machine .....	W. S. Case .....	704,173	July 8	1517	1325 1326	100	319
Can-body-forming machine .....	J. G. Hodgson .....	704,700	July 15	2473	334	100	533
Can-body-forming machine .....	J. Eldridge .....	712,998	Nov. 4	997	1233 1234	101	1100
Can-body-forming machine .....	M. J. Ross and N. B. Wachhorst .....	716,111	Dec. 16	2838	624 625	101	2461
Can-body-making machine .....	G. F. Leiger .....	698,325	Feb. 11	2086	1457 1458	98	1254
Can-capper .....	J. R. Duncan .....	701,176	May 27	3996	919 964 965 966 967	99	2032
Can capping and compressing machine .....	H. L. Guenther .....	698,701	Apr. 29	4372	1068 1069 1070	99	990
Can-capping machine .....	M. Doyle and F. Gebbie .....	701,021	May 27	3728	855	99	1994
Can-capping-machine can holder or jacket .....	G. H. Ruhlman and G. C. Miller .....	698,057	Apr. 22	3109	684	99	709
Can closure. Milk .....	J. C. Howell .....	714,376	Nov. 25	3729	821	101	1718
Can-cover .....	C. M. Dravo and T. B. Miller .....	711,100	Oct. 14	1347	293	101	293
Can-cover .....	M. J. Lawless .....	711,405	Oct. 14	1931	420	101	417
Can-cover-fastening device .....	W. H. Smalley .....	695,656	Mar. 18	2479	563 1406	98	2267
Can-dipping machine .....	G. Wilcox .....	695,516	Mar. 18	2195	497 498 499	98	2208
Can-dipping machine .....	L. Harrington .....	707,969	Aug. 26	3831	861	100	1950
Can ending or heading machine .....	J. G. Hodgson and H. N. Norton .....	704,255	July 8	1653	359 360	100	346
Can-filling device .....	F. Strattnner .....	690,790	Jan. 7	818	181	98	173
Can-filling machine .....	H. R. Stickney .....	698,921	Feb. 25	3246	715	98	1529
Can-filling machine .....	C. H. Ayars .....	695,305	Mar. 11	1944	433	98	2137
Can-filling machine .....	L. S. Fleckenstein .....	698,919	Apr. 29	4824	1064 1065	99	1091
Can-filling machine .....	J. R. Brown .....	713,554	Nov. 11	2120	1476	101	1348
Can-flanging machine .....	J. Brenzinger .....	697,973	Apr. 22	2952	651	99	677
Can for bakery or similar products .....	M. J. Nash .....	714,303	Nov. 25	3754	828	101	1722
Can for holding coarse emery, &c. ....	C. W. Boman and J. M. Reed .....	699,442	May 6	601	137	99	1299
Can-fusing machine .....	G. Wilcox .....	695,515	Mar. 18	2193	495 496 497	98	2307
Can-head-delivering apparatus .....	H. N. Norton .....	704,266	July 8	1678	366	100	332
Can-heads. Securing .....	G. Wilcox .....	695,514	Mar. 18	2190	495	98	2206
Can-heading machine .....	A. W. Livingston .....	701,589	June 3	555	122 347	99	2223
Can-heading machine .....	F. M. Leavitt .....	702,188	June 10	1540	348 349	99	3443
Can-heading machine .....	W. Rubin .....	710,895	Oct. 7	938	205 206	101	191
Can-heading machine. Adjustable square .....	W. Rubin and L. C. Sharp .....	692,912	Feb. 11	1262	279 280	98	1084
Can-heading machine. Automatic .....	A. W. Livingston .....	690,530	Jan. 7	427	92	98	93
Can-heading machine. Automatic .....	A. W. Livingston. (Reissue) .....	11,989	May 13	2038	465	99	1605
Can-holder .....	L. B. Erwin .....	693,353	Feb. 11	2144	470	98	1267
Can-holder .....	L. Funck .....	700,322	May 20	2380	543	99	1696
Can hoop. Milk .....	B. T. Wood .....	716,800	Dec. 23	4182	917	101	2756
Can-loading device. Milk .....	F. E. Tichenor .....	691,825	Jan. 28	2780	625	98	630
Can lock. Milk .....	J. Rittenhouse .....	602,477	Feb. 4	419	105	98	890
Can-opener .....	G. W. Gombor .....	690,418	Jan. 7	53	13	98	14
Can-opener .....	P. E. Law .....	691,867	Jan. 28	2846	641	98	645
Can-opener .....	C. Sands .....	692,918	Feb. 11	1283	281	98	1090
Can-opener .....	D. M. Hayworth .....	695,048	Mar. 11	1372	301	98	2019
Can-opener .....	C. W. Hunter .....	695,055	Mar. 11	1383	303	98	2022
Can-opener .....	F. Kotick .....	697,634	Apr. 15	2334	521	99	526
Can-opener .....	J. D. Bolton .....	700,113	May 13	1889	439	99	1576
Can-opener .....	H. G. Day .....	701,686	June 3	735	162	99	2262
Can-opener .....	W. C. Meynecke .....	703,228	June 10	1593	384	99	2475
Can-opener .....	M. L. Hawkes .....	706,829	Aug. 12	1595	359	100	1450
Can-opener .....	J. Chisholm .....	707,207	Aug. 19	2311	515	100	1626
Can-opener .....	J. W. Pierce .....	707,253	Aug. 19	2389	535	100	1641
Can-opener .....	M. E. Duncan .....	707,560	Aug. 26	2979	672	100	1781
Can-opener .....	M. E. Duncan .....	707,561	Aug. 26	2980	673	100	1781
Can-opener .....	C. T. Custer .....	708,801	Sept. 9	1171	303	100	2285
Can-opener .....	H. Sidman .....	711,353	Oct. 28	1850	403	101	400
Can-opener .....	V. E. Woodbury .....	711,733	Oct. 21	2572	566	101	567
Can-opener .....	T. H. C. Lofthouse .....	712,396	Oct. 28	3826	836	101	841
Can-opener .....	W. Maxwell .....	713,472	Nov. 11	1938	439	101	1312
Can-opener .....	E. N. Manzer .....	715,403	Dec. 9	1424	307	101	2146
Can-opener .....	J. M. Nettles .....	717,254	Dec. 30	5188	1125	101	2367
Can opener. Fruit .....	M. Monehan and P. Dorner .....	699,803	May 13	1303	391	99	1235
Can or bottle opener .....	B. R. Bacon .....	692,045	Jan. 28	3173	716	98	709
Can or jar cover attachment. Fruit .....	A. B. Bacon .....	704,421	July 8	1960	426	100	412
Can or like closure .....	A. B. McNairy .....	699,891	May 13	1496	343	99	1498
Can-polishing machine .....	F. Kaeser .....	693,029	Feb. 11	1484	324 325	98	1131
Can-scrubbing apparatus. Milk .....	R. Nelson .....	695,828	Mar. 18	2780	634 635	98	2227
Can spout. Oil .....	J. A. Swanson .....	705,160	July 22	3452	751	100	748
Can-steaming machine .....	C. S. Bucklin .....	697,322	Apr. 8	1743	389	99	391
Can-straightener .....	C. W. Nicklaus .....	694,177	Feb. 25	3751	829	98	1630
Can-testing apparatus .....	H. C. Black .....	700,891	May 27	3477	797 798	99	1941



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Can-testing machine.....	W. Rubin.....	699,244	May 6	200	48	99	1215
Can-testing machine.....	E. J. Lewis.....	699,539	May 6	768	181	99	1333
Can-testing machine.....	H. N. Norton.....	704,267	July 8	1679	366	100	352
Can-testing machine.....	W. H. H. Stevenson.....	704,278	July 8	1703	371	100	358
Can-testing machine.....	G. F. Leiger.....	704,480	July 8	2085	432	100	438
Can-testing machine.....	N. B. Wachhorst and M. J. Ross.....	715,324	Dec. 9	1289	276	101	2120
Can top and cap.....	J. B. Stewart.....	697,038	Apr. 8	1255	280	99	266
Can-washer.....	F. T. Pierce and A. E. Kuchenbecker.....	705,133	July 22	3308	738	100	737
Can-washing machine.....	J. Kellington.....	711,427	Oct. 14	1969	427	101	424
Can wrench. Fruit-	W. F. Kerr.....	708,149	Sept. 2	279	66	100	2039
Cans, bottles, &c. Device for preventing theft or tampering with milk	C. F. Tillberg and R. A. Barbieri.....	693,461	Feb. 18	2355	516	98	1330
Cans, jars, &c. Apparatus for leveling and closing the covers of	F. L. Tapscott.....	713,925	Nov. 18	2833	630	101	1513
Cans. Machine for manufacturing soldered	H. B. Williams.....	702,167	June 10	1692	362	99	2456
Cans. Machine for placing shields in	W. E. Dement.....	717,360	Dec. 30	5365	125	101	3405
Cans. Means for cooling milk.	S. C. Sullivan.....	697,111	Apr. 8	1379	306	99	313
Cans. Measuring and discharging apparatus for filling	J. McGinnity.....	709,793	Sept. 23	3446	781	100	2740
Cans, pails, &c. Machine for manufacturing bail-eared	J. G. Hodgson.....	703,205	June 24	3564	818	99	2892
Canning apparatus.....	J. T. Garner.....	704,679	July 15	2435	820	100	525
Canning apparatus.....	L. L. Lawrence.....	717,419	Dec. 30	5479	1189	101	3057
Canning apparatus. Food-	G. Lees.....	697,261	Apr. 8	1639	367	99	369
Canning. Apparatus for preparing corn for	J. R. Cuykendall.....	695,196	Mar. 11	1641	364	98	2076
Canning corn, &c.....	C. H. Plummer and F. T. Stare.....	699,765	May 13	1231	286	99	1440
Canning device.....	W. H. Fredericks.....	696,081	Mar. 25	3169	714	98	2241
Canning food products.....	J. G. Hodgson.....	704,258	July 8	1668	363	100	350
Canal-lock gate.....	C. F. Luquer.....	713,780	Nov. 18	2545	567	101	1454
Canceler. Stamp-	J. Guidinger.....	695,608	Mar. 18	2398	542	98	2250
Canceled machine. Stamp-	G. R. Sherwood.....	702,494	June 17	2306	502	99	2600
Candelabrum.....	J. G. Theobald.....	690,538	Jan. 7	328	66	98	71
Candle.....	T. J. Garrigan.....	701,537	June 3	504	111	99	2212
Candle-holder.....	C. Bogendorfer.....	697,127	Apr. 8	1401	311	99	318
Candle-holder.....	M. Hammerstein.....	711,624	Oct. 21	2359	517	101	530
Candle-making machine.....	W. H. Day.....	694,093	Feb. 25	3588	793	98	1598
Candle-making machine.....	A. R. Peck.....	705,280	July 22	3741	813	100	806
Candle-molding machine.....	C. Rübsum.....	710,806	Oct. 7	792	170	101	162
Candle shield and drip-catcher.....	H. S. Nagengast.....	703,809	July 1	798	176	100	160
Candlestick.....	D. A. Ryan.....	716,484	Dec. 23	3578	782	101	2629
Candle stick or holder.....	A. Tovey.....	712,216	Oct. 28	3575	770	101	773
Candlesticks, &c. Coupling for	C. R. Gabriel.....	698,831	Apr. 29	4668	1028	99	1058
Candy-box.....	W. H. Lease.....	695,741	Mar. 18	2616	534	98	2233
Candy-coating device.....	P. Panoulas.....	707,964	Aug. 26	3636	129	101	1911
Candy-cooler.....	G. S. Collum.....	709,139	Sept. 16	2167	497	100	2458
Candy-cutting machine.....	J. Smith.....	701,635	June 3	650	142	99	2244
Candy-dipping machine.....	F. Goldschmidt.....	704,248	July 8	1640	356	100	343
Candy-dripping machine.....	E. F. W. Wieda.....	712,878	Nov. 4	779	180	101	1057
Candy-molding machine.....	A. Reiche.....	699,973	May 13	1644	377	99	1527
Cane.....	S. A. M. Khan.....	690,655	Jan. 7	354	120	98	119
Cane.....	A. Sjöberg.....	706,501	Aug. 5	392	213	100	1817
Cane.....	J. S. Judy.....	709,095	Sept. 16	2090	479	100	2441
Cane.....	W. W. Jones.....	712,804	Nov. 4	641	146	101	1029
Cane and fishpole. Combined.....	E. A. Ekellund.....	706,225	Aug. 5	432	92	100	1204
Cane and seat.....	E. La Force.....	713,114	Nov. 11	1233	281	101	1168
Cane and whip. Combination.....	M. A. Allen.....	696,705	Apr. 1	592	133	99	129
Cane-car-unloading machine.....	H. Froehlich.....	702,096	June 10	1477	332	99	2429
Cane conveyer. Sugar.....	C. H. McNally.....	702,813	July 17	2804	645	99	2724
Cane cutter. Pneumatic sugar.....	R. H. Paul.....	712,843	Nov. 4	714	165	101	1045
Cane, &c. Device for cutting sugar.....	J. H. N. Wilson.....	706,481	Aug. 5	960	209	100	1310
Cane. Flag.....	J. W. Freeborn.....	696,937	Apr. 8	1115	247	99	257
Cane-loader.....	A. Horner.....	694,548	Mar. 4	412	90	98	1800
Cane-loader.....	H. S. Padgett.....	708,598	June 24	3709	854	99	2923
Cane, &c. Machinery for handling sugar.....	C. Piez.....	719,753	Dec. 23	4087	896	101	2737
Cane. Magazine torpedo.....	J. H. Fox.....	696,956	Apr. 8	1114	247	99	257
Cane. Magazine torpedo.....	J. H. Fox.....	704,310	July 8	1755	383	100	369
Cane. Magazine torpedo.....	J. B. Allen.....	690,437	Sept. 23	2824	644	100	2667
Cane-mill cane-feeding mechanism.....	F. Elizondo.....	698,379	Apr. 22	3713	820	99	865
Cane or ratan fabrics. Weaving and completing.....	G. O. Redpath.....	692,346	Feb. 4	238	53	98	846
Cane. Portable cradle for hauling and handling sugar.....	W. C. Gregg.....	715,572	Dec. 9	1757	389	101	2211
Cane-sling.....	J. M. Dodge.....	705,393	July 22	3971	860	100	832
Cane-stripper.....	E. W. Holdsombeck.....	703,417	July 1	95	20	100	22
Cane stripper. Sugar.....	T. A. Dutton.....	707,091	Aug. 19	2086	466	100	1576
Cane-stubble cleaner.....	W. H. Adams.....	692,585	Feb. 4	653	153	98	932
Cane-trash gatherer, cutter, and spreader. Sugar.....	H. B. Gray.....	714,475	Nov. 25	3901	862	101	1750
Cane-unloading machine.....	W. C. Gregg.....	708,634	Sept. 9	1132	256	100	2222
Cannon. Automatic range-finding sight for.....	I. N. Lewis.....	706,767	Aug. 12	1492	331	100	1437
Cannon. Breech-loading.....	C. H. Griffith.....	713,874	Nov. 18	2718	607	101	1488
Canopy.....	G. A. Babbitt.....	694,232	Feb. 25	3838	850	98	1647

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Canopy.....	E. G. Burland.....	706,722	Aug. 12	1385	308	100	1415
Canopy.....	F. C. Winants.....	707,483	Aug. 19	2812	636	100	1729
Canopy.....	J. M. and E. E. Truscott.....	714,650	Nov. 25	4325	636	101	1816
Canopy for tricycles, &c.....	B. J. Olding.....	691,964	Jan. 28	3026	680	98	680
Canopy for vehicles. Folding.....	W. J. Snyder.....	706,605	Aug. 12	1177	261	100	1369
Canopy. Horse.....	A. J. Mapes.....	705,370	July 22	3393	858	100	845
Canopy-support.....	T. J. Durrett, Sr.....	692,641	Feb. 4	746	172	98	952
Cant-hook clasps. Die for making.....	O. Ruld.....	706,691	Aug. 12	1386	297	100	1405
Canteen.....	M. L. Missotten.....	699,697	May 13	1099	257	99	1414
Canteen.....	A. Hall.....	703,654	July 1	511	115	100	100
Canteen.....	G. M. Spencer.....	707,873	Aug. 26	3651	822	100	1914
Canteen. Army.....	T. Kearns and I. C. Coin.....	704,686	July 15	2446	528	100	527
Cap.....	A. E. Morse.....	690,982	Jan. 14	1167	264	98	259
Cap.....	D. Lichtenstein.....	693,613	Feb. 18	2658	586	98	1391
Cap.....	J. E. McLoughlin.....	703,606	July 1	407	95	100	81
Cap. Apparel.....	M. Davis.....	692,249	Feb. 4	61	13	98	811
Cap. Apparel.....	C. W. Gordon.....	705,068	July 22	3258	705	100	709
Cap. Apparel.....	F. Maass.....	716,258	Dec. 16	3128	685	101	2521
Cap. Bathing.....	F. G. Littell.....	713,656	Nov. 18	2320	517	101	1404
Cap-closure. Sheet-metal.....	E. Hoffman.....	714,303	Nov. 25	3604	793	101	1692
Cap. Dynamite defonating.....	A. B. Hoover.....	697,842	Apr. 15	2707	601	99	607
Cap machine. Hemmed.....	L. A. Norton.....	702,376	June 10	1960	446	99	2527
Cap-vizor and eye-shield. Combined.....	H. L. Waldron.....	700,587	May 20	2868	659	99	1798
Caps permanently with vessels. Means for securing closing.....	A. A. Low.....	715,399	Dec. 9	1419	306	101	2145
Capping-machine. Electromagnetic.....	L. J. Borie.....	694,458	Mar. 4	232	51	98	1761
Capping-machine. Electromagnetic.....	L. J. Borie.....	703,862	July 1	1057	230	100	510
Capo tasto.....	E. H. Winchell.....	692,751	Feb. 4	937	213	98	990
Capo tasto.....	E. R. Kappeler.....	713,310	Nov. 11	1659	372	101	1252
Capsule.....	R. B. Wilson.....	691,687	Jan. 21	2489	558	98	553
Capsule.....	G. H. Paine.....	700,805	May 27	3318	762	99	1910
Capsules. Manufacture of.....	G. H. Paine.....	700,806	May 27	3320	762	99	1910
Capsules, wafers, &c. Filler for.....	A. E. Brethour.....	693,687	Feb. 18	2706	597	98	1402
Car.....	A. Heiden.....	693,132	Feb. 11	1706	372	98	1175
Car.....	P. M. Kling.....	693,611	Feb. 18	2655	586	98	1391
Car. Aerated.....	R. M. Pancoast.....	712,327	Oct. 28	3701	809	101	813
Car and door therefor. Hopper.....	R. V. Sage.....	699,819	May 13	1331	309	99	1462
Car and elevating track. Automatic.....	W. L. McLaughlin and J. E. Swenson.....	708,386	Sept. 2	692	156	100	2122
Car and railway indicator. Street.....	W. W. Harris and W. D. Chew.....	705,235	July 22	3636	787	100	786
Car. Armored and burglar-proof.....	J. Fisher.....	712,663	Nov. 4	376	88	101	977
Car. Automatic-dumping ore.....	C. H. Snow.....	697,685	Apr. 15	2428	540	99	545
Car automatic safety-stop.....	H. W. Jenkins.....	712,543	Nov. 4	161	38	101	931
Car-axles. Means for driving generators by power taken from.....	J. L. Creveling.....	703,847	Sept. 23	3565	804	100	2761
Car. Ballast-spreading.....	W. R. Scott.....	707,649	Aug. 26	3164	711	100	1819
Car blocking and derailing machine.....	W. J. C. Kenyon and W. S. King.....	716,902	Dec. 30	4492	973	101	2848
Car-body bolster.....	G. G. Floyd.....	706,647	Aug. 12	1251	276	100	1387
Car-body bolster.....	J. V. McAdam.....	706,680	Aug. 12	1317	291	100	1401
Car-body bolster.....	R. H. Hornbrook.....	712,900	Nov. 4	621	144	101	1027
Car-body-bolster. Railway.....	M. B. Schaffer.....	693,160	Feb. 11	1773	889	98	1187
Car-body-bolster. Railway.....	T. M. Gallagher.....	698,929	Apr. 29	4897	1068	99	1094
Car-body-bolsters. Construction of railway.....	C. Vanderbilt.....	710,636	Oct. 7	460	96	101	93
Car body. Railway.....	J. F. Scott.....	712,857	Nov. 4	742	172	101	1051
Car-bolster.....	C. T. Westlake.....	692,568	Feb. 4	615	145	98	924
Car-bolster.....	C. T. Westlake.....	692,569	Feb. 4	616	145	98	924
Car-bolster.....	R. V. Sage.....	692,914	Feb. 11	1265	280	98	1083
Car-bolster.....	W. P. Bettendorf.....	700,402	May 20	2532	580	99	1726
Car-bolster.....	C. S. Shallenberger.....	701,515	June 3	416	95	99	2193
Car-bolster.....	S. P. Bush.....	701,837	June 10	987	220	99	2332
Car-bolster.....	H. C. Buhoup.....	702,701	June 17	2586	595	99	2678
Car-bolster.....	H. C. Buhoup.....	703,379	July 1	29	6	100	8
Car-bolster.....	G. R. Ritter.....	703,609	July 1	412	96	99	82
Car-bolster.....	A. Pancoast.....	715,416	Dec. 9	1449	312	101	2151
Car-bolster and bearing.....	J. E. Norwood.....	717,114	Dec. 30	4892	1059	101	2382
Car-bolster. Railway.....	F. S. Ingoldsby and J. R. Bowling.....	694,385	Mar. 4	96	21	98	1732
Car-bolster. Railway.....	H. W. Frost.....	697,466	Apr. 15	2032	448	99	467
Car-bolster. Railway.....	C. Vanderbilt.....	698,876	Apr. 29	4741	1045	99	1074
Car-bolster. Railway.....	G. C. Murray.....	701,920	June 10	1137	260	99	2361
Car-bolster swinging spring-seat.....	C. T. Westlake.....	692,567	Feb. 4	614	145	98	923
Car-bolsters. Swinging spring-seat for.....	C. T. Westlake.....	704,997	July 15	3116	671	100	664
Car. Box.....	J. R. Kilbourne.....	709,330	Sept. 16	2544	572	100	2536
Car-brake.....	S. H. Pocock.....	690,769	Jan. 7	777	172	98	164
Car-brake.....	H. S. Stier.....	691,201	Jan. 14	1353	352	98	339
Car-brake.....	W. J. Stevens.....	696,114	Mar. 25	3343	753	98	2458
Car-brake.....	C. B. Fairchild.....	696,901	Apr. 1	975	218	99	206
Car-brake.....	F. F. Shaffer.....	697,283	Apr. 8	1681	375	99	378
Car-brake.....	A. Balon.....	698,784	Apr. 29	4522	999	99	1023
Car-brake.....	L. T. Pyott.....	699,346	May 6	412	94	99	1253
Car-brake.....	H. J. Small. (Reissue).....	11,990	May 13	2042	466	99	1606
Car-brake.....	F. W. Rock.....	703,614	July 1	422	98	100	84
Car-brake.....	J. Plattenburg.....	703,818	July 1	824	182	100	165
Car-brake.....	F. O. Brown and E. T. Moore.....	704,506	July 15	2138	463	100	463



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Car-brake	A. Broluska	705,028	July 22	3179	687	100	694
Car-brake	J. R. Montague	705,946	July 29	5054	1100	100	1082
Car-brake	R. E. Lockwood	706,072	Aug. 12	1304	1287	100	1398
Car-brake	W. House	707,331	Aug. 19	2547	574	100	1674
Car-brake	J. H. De May and F. Hoyland, Jr.	709,884	Sept. 30	3073	828	100	2795
Car-brake	G. M. Griggs	709,981	Sept. 30	3867	870	100	2886
Car-brake	J. Toner	711,084	Oct. 14	1325	286	101	288
Car-brake	C. M. Haynes	711,208	Oct. 14	1581	339	101	343
Car-brake	L. C. and W. S. Johnson	711,899	Oct. 21	2806	640	101	635
Car-brake	R. H. Wakeman	711,915	Oct. 21	2939	616	101	643
Car-brake	J. S. Sheets	712,011	Oct. 28	3144	687	101	702
Car-brake	J. Runnoe	713,499	Nov. 11	2024	454	101	1329
Car-brake	E. Posson	714,236	Nov. 25	3470	763	101	1665
Car-brake. Automatic	A. W. Reed	698,319	Apr. 22	3611	797	99	813
Car-brake. Automatic	A. W. Reed	706,452	Aug. 5	915	198	100	1300
Car-brake. Automatic railway	R. W. Stockin	716,780	Dec. 23	4145	908	101	2749
Car-brake. Hand	E. N. Edwards	715,350	Dec. 9	1149	246	101	2089
Car-brake lever	W. C. Keithly	714,015	Dec. 2	558	119	101	1947
Car-brake mechanism	G. E. Burgess	704,508	July 15	2142	404	100	464
Car-brake mechanism	A. W. Vollstorf	706,284	Aug. 5	568	123	100	1230
Car-brake mechanism	H. E. Putney	716,935	Dec. 30	4552	988	101	2860
Car brake mechanism. Motor	H. Austin	713,937	Nov. 18	2857	633	101	1519
Car brake mechanism. Railway	C. W. Powell	700,818	May 27	3348	768	99	1916
Car-brake. Momentum	T. E. McCollum	699,923	Sept. 30	3744	843	100	2810
Car-brake. Railway	W. N. McInnis	698,310	Apr. 22	3597	793	99	810
Car-brake. Ratchet	H. Witte	704,227	July 8	1612	349	100	337
Car-brake. Slipper	J. M. Hewitt and W. G. Rhodes	714,798	Dec. 2	296	64, 65	101	1897
Car-brake stand	J. W. Puckett	694,191	Feb. 25	3776	835	98	1635
Car-brake. Street	R. Bischoff	692,046	Jan. 28	3176	716	98	709
Car buffer. Railway	W. F. Richards	711,646	Oct. 21	2395	526	101	528
Car buffing mechanism	W. Kelso	716,553	Dec. 23	3727	812	101	2660
Car center-bearing. Railway	F. Ditchfield	709,755	Sept. 23	3391	761	100	2723
Car centric-draft underframing	W. G. Langenheim	716,063	Dec. 16	2733	603	101	2439
Car chair. Parlor	A. P. Barney	697,777	Apr. 15	2595	575	99	581
Car check-lock. Mine	L. J. Joder	704,832	July 15	2735	591	100	385
Car-checking device	A. M. Acklin	690,814	Jan. 7	864	190	98	182
Car chock. Railway	A. D. Faulkner	703,906	July 1	983	214	100	196
Car. Coal and grain	S. Kellogg	703,276	June 24	3678	846	99	2916
Car construction	H. C. Hodges and G. A. Blume	704,965	July 15	3051	656	100	652
Car construction. Metallic	C. M. Carnahan	713,748	Nov. 18	2486	554	101	1442
Car. Convertible	J. A. Brill	691,351	Jan. 21	1878	423	98	423
Car. Convertible	H. W. Covert	698,259	Apr. 22	3518	774	99	724
Car. Convertible	J. O'Leary, (Reissue).	11,992	May 20	3137	712	99	1856
Car. Convertible	H. Romänder	707,018	Aug. 12	1942	434	100	1530
Car. Convertible dump	H. S. Hart	691,137	Jan. 14	1433	324	98	313
Car. Convertible railway	J. A. Brill	696,408	Apr. 1	26	7, 8	99	8
Car. Convertible railway	J. A. Brill	696,409	Apr. 1	33	8, 9	99	11
Car. Convertible railway	J. A. Brill and E. S. Bucknam	709,073	Sept. 16	2035	465	100	2428
Car. Convertible railway	E. S. Bucknam	709,075	Sept. 16	2041	466	100	2430
Car. Convertible railway	E. S. Bucknam	709,076	Sept. 16	2043	467	100	2430
Car-coupling	L. N. Singin	690,470	Jan. 7	169	35	98	37
Car-coupling	J. M. Clark	690,560	Jan. 7	369	75	98	80
Car-coupling	G. S. Holmes	690,354	Jan. 11	110	248	98	246
Car-coupling	C. A. McKerahan	692,063	Jan. 28	3208	724	98	716
Car-coupling	H. S. Hallwood	692,442	Feb. 4	387	94	98	879
Car-coupling	P. T. Handiges	692,850	Feb. 11	1124	251	98	1051
Car-coupling	W. E. Coffin	693,238	Feb. 11	1941	422	98	1223
Car-coupling	S. P. Moulton	693,733	Feb. 18	2881	634	98	1438
Car-coupling	P. Brown	693,998	Feb. 25	3413	751	98	1563
Car-coupling	J. D. Hoover	695,053	Mar. 11	1380	752	98	2021
Car-coupling	W. H. Cordill	695,280	Mar. 11	1796	400	98	2107
Car-coupling	J. C. Leidy	695,615	Mar. 18	2408	546	98	2251
Car-coupling	S. C. Mason	695,619	Mar. 18	2418	547	98	2253
Car-coupling	E. Grafsrom	695,683	Mar. 18	2523	571	98	2274
Car-coupling	C. Altman	695,704	Mar. 18	2557	578	98	2281
Car-coupling	T. J. Sammons	697,022	Apr. 8	1229	275	99	279
Car-coupling	T. A. Savage	698,413	Apr. 22	3770	832	99	847
Car-coupling	D. L. Bock	698,433	Apr. 29	3810	841	99	871
Car-coupling	R. H. Rutherford	698,740	Apr. 29	4449	982	99	1007
Car-coupling	H. T. Krakau	698,970	Apr. 29	4905	1084	99	1108
Car-coupling	J. Borge and S. B. Cornell	699,489	May 6	685	150	99	1318
Car-coupling	J. H. D. Eagan	699,505	May 6	710	165	99	1323
Car-coupling	J. Timms	700,262	May 20	2246	513	99	1671
Car-coupling	W. F. Richards	700,441	May 20	2605	595	99	1743
Car-coupling	H. H. Marshall	701,594	June 3	569	125	99	2236

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &	Vol.	Page.
Car-coupling	J. A. Chubb	702,186	June 10	1638	366	99	2467
Car-coupling	J. C. Nelson	702,229	June 10	1719	383	99	2473
Car-coupling	W. S. Jones and E. W. Webb	702,963	June 24	3104	714	99	2803
Car-coupling	J. B. Genin	703,399	July 1	65	13	100	15
Car-coupling	J. W. Smith	703,489	July 1	199	48	100	42
Car-coupling	J. B. Thomas	704,223	July 8	1604	347	100	335
Car-coupling	J. B. Thomas	704,489	July 8	2102	456	100	442
Car-coupling	H. H. Marshall	704,888	July 15	2834	613	100	468
Car-coupling	J. L. Sutherland	704,910	Aug. 5	398	88	100	1188
Car-coupling	W. H. Stillwell	706,273	Aug. 5	545	117	100	1326
Car-coupling	E. Foster	706,405	Aug. 5	811	177	100	1278
Car-coupling	P. Hien	707,108	Aug. 19	2125	474	100	1585
Car-coupling	J. E. Wade	708,274	Sept. 2	517	117	100	2086
Car-coupling	J. E. Wade	708,275	Sept. 2	519	118	100	2087
Car-coupling	T. F. Melanson	708,571	Sept. 9	1024	231	100	2200
Car-coupling	C. A. Tower	708,681	Sept. 9	1232	280	100	2240
Car-coupling	B. O. Yearwood	708,690	Sept. 9	1244	285	100	2244
Car-coupling	G. Westinghouse	708,747	Sept. 9	1350	308	100	2268
Car-coupling	W. S. Lennor	709,388	Sept. 16	2559	575	100	2540
Car-coupling	A. B. Carter	709,468	Sept. 23	2847	639	100	2611
Car-coupling	W. T. Seanoer and E. M. Kepple	709,686	Sept. 23	3256	730	100	2696
Car-coupling	D. J. Davis	710,256	Sept. 30	4387	986	100	2946
Car-coupling	W. S. Lennor	710,283	Sept. 30	4430	998	100	2956
Car-coupling	G. A. Hermanson	711,160	Oct. 14	1464	318	101	319
Car-coupling	W. N. Hensley	711,496	Oct. 21	2112	458	101	469
Car-coupling	H. May and C. Kunz	711,514	Oct. 21	2149	467	101	477
Car-coupling	J. Murphy	712,319	Oct. 28	3685	805	101	809
Car-coupling	I. N. Tower	712,980	Nov. 4	968	225	101	1095
Car-coupling	F. S. Putnam	713,240	Nov. 11	1470	333	101	1215
Car-coupling	J. A. Hinson	714,693	Dec. 2	77	16	101	1833
Car-coupling	A. D. Nichols	715,124	Dec. 2	912	195	101	2023
Car-coupling	P. Brown	715,970	Dec. 16	2548	562	101	2399
Car-coupling	W. A. Moreland and H. B. Redding	716,571	Dec. 23	3766	819	101	2669
Car-coupling	S. L. Truelood	717,475	Dec. 30	5573	1210	101	3076
Car-coupling and bumper combined. Mine.	S. M. Phillips	713,680	Nov. 18	3383	526	101	1413
Car-coupling attachment.	T. Harrison	703,256	June 24	3648	838	99	2910
Car-coupling attachments. Spring-protecting device for railway.	W. Thornburgh	706,360	Aug. 5	707	154	100	1259
Car-coupling. Automatic	J. Darling	699,082	Apr. 29	5083	1124	99	1144
Car-coupling. Automatic	J. Darling	700,625	May 20	2941	1125	99	1814
Car-coupling. Automatic	G. A. Hermanson	706,236	Aug. 5	449	95	100	1206
Car-coupling. Automatic	J. M. Stanley	707,269	Aug. 19	2116	541	100	1647
Car-coupling. Automatic	A. A. Rosengren	707,724	Aug. 26	3313	741	100	1849
Car-coupling. Automatic	S. Cox and G. W. Warden	708,206	Sept. 2	394	91	100	2062
Car-coupling draft-rigging	J. A. Hinson	716,542	Dec. 23	3706	807	101	2655
Car-coupling draft-rigging. Railway.	J. A. Hinson	709,404	Sept. 16	2704	607	100	2569
Car-coupling draw-bar draft-rigging	J. M. Vaughn	690,683	Jan. 7	599	131	98	128
Car-coupling release-rigging	W. F. Kiesel, Jr.	716,554	Dec. 23	3728	812	101	2660
Car deflector and ventilator. Passenger.	F. L. Nichols	695,168	Mar. 11	1596	354	98	2066
Car-door	H. J. Rhodes	695,836	Mar. 18	2796	637	98	2330
Car-door	J. R. Thompson	700,259	May 20	2241	512	99	1670
Car-door	E. D. Peppers	706,449	Aug. 5	910	197	100	1300
Car-door	F. G. Susemihl	708,843	Sept. 9	1564	357	100	2313
Car-door	S. J. Johnson	709,269	Sept. 16	2429	550	100	2511
Car-door	S. J. Johnson	709,270	Sept. 16	2433	551	100	2512
Car-door and grain-door combined	W. H. Doerner and J. A. Whalen	697,820	Apr. 15	2672	593	99	599
Car-door and locking device therefor. Grain.	S. A. Crono	694,462	Mar. 4	237	52	98	1768
Car-door. Dumping.	R. V. Sage	694,830	May 13	1303	319	99	1463
Car-door fastener.	C. R. Doe	693,691	Feb. 18	2810	618	98	1423
Car-door fastening. Freight.	H. R. Keithley	712,309	Oct. 28	3669	801	101	806
Car-door fastening. Mining.	J. H. Watt	702,265	June 10	1760	401	99	2488
Car-door fitting	G. Krygoski and E. A. Lowrie	708,366	Sept. 2	665	150	100	2116
Car-door fitting	G. Krygoski and E. A. Lowrie	708,367	Sept. 2	666	150	100	2116
Car-door. Flush.	K. Osel	708,914	Sept. 9	1700	392	100	2242
Car-door. Freight.	S. J. Smith	692,937	Feb. 11	1328	289	98	1399
Car-door. Grain.	J. Flesher	691,756	Jan. 28	2648	593	98	603
Car-door. Grain.	Montgomery	693,979	Feb. 25	3375	741	98	1555
Car-door. Grain.	A. Miller	695,165	Mar. 11	1592	353	98	2066
Car-door. Grain.	D. Downs and D. W. Draper	696,861	Apr. 1	871	201	99	184
Car-door. Grain.	G. S. Smith	697,537	Apr. 15	2188	486	99	497
Car-door. Grain.	I. L. Edwards	701,551	June 3	491	108	99	2210
Car-door. Grain.	G. Stimp	706,247	Sept. 16	2327	540	100	2508
Car-door. Grain.	A. L. Hook	706,325	Sept. 16	2337	571	100	2535
Car-door. Grain.	R. C. Johnson	712,139	Oct. 28	3381	741	101	747
Car-door. Grain.	G. R. Grigg	712,926	Nov. 4	866	201	101	1074
Car-door. Grain.	B. Steine and C. Jones	713,167	Nov. 11	1339	301	101	1188
Car-door. Grain.	J. Montgomery	713,476	Nov. 11	1943	440	101	1313
Car-door hanger	G. Krygoski and E. A. Lowrie	713,996	Nov. 18	2972	662	101	1543
Car-door. Hopper.	R. V. Sage	693,910	Feb. 25	3226	711	98	1526
Car-door lock	C. W. Booth	696,089	Mar. 25	3271	740	98	2441
Car-door mechanism	A. B. Bellows	698,789	Apr. 29	4531	1002	99	1024
Car-door mechanism	E. J. Müller	707,342	Aug. 19	2665	578	100	1677



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. K.	Vol.	Page.
Car-door-operating device	J. Simonton	707,459	Aug. 19	2768	627 628	100	1720
Car-door. Pneumatically-actuated	A. W. Sullivan and W. Renshaw	716,783	Dec. 23	4149	969 970	101	2750
Car-door. Sliding	J. Player	702,742	June 17	2664	613	99	2694
Car-door winding-shaft	H. W. Wolff and A. Lipschutz	712,227	Oct. 28	3532	773	101	778
Car. Double-deck	W. E. Sharp	704,709	July 15	2486	538 539	100	588
Car draft and buffing frame. Combined	L. T. Canfield	711,283	Oct. 14	1711	370 371	101	370
Car draft and buffing mechanism	W. Wright	710,929	Oct. 7	997	219 220	101	203
Car draft attachment. Railway	M. J. Donovan	700,623	May 20	2948	674	99	1815
Car draft-beam	J. K. Evans	702,180	June 10	1640	367	99	2463
Car draft-rigging	W. H. Emerick	693,643	Feb. 18	691	399	98	1493
Car draft-rigging	W. G. Swan	704,716	July 15	2500	541	100	538
Car draft-rigging	J. A. Hinson	704,902	July 15	2678	578 579	100	573
Car draft-rigging	R. V. Sage	711,265	Oct. 14	1667	359	101	361
Car draft-rigging. Railway	J. M. Waugh	690,684	Jan. 7	603	131	98	129
Car draft-rigging. Railway	E. S. Woods	691,038	Jan. 14	275	288	98	281
Car draft-rigging. Railway	D. C. Ross	692,074	Jan. 28	3228	720	98	720
Car draft-rigging. Railway	J. M. Waugh	705,172	July 22	3474	756	100	753
Car draft-rigging. Railway	T. L. McKeen	714,015	Nov. 18	3002	668	101	1549
Car draft-rigging. Railway	W. C. McIntire	715,121	Dec. 2	905	193 194	101	2022
Car draft spring-rigging. Railway	E. W. Samen	709,361	Sept. 16	2605	586	99	2550
Car draw-bar. Ore	G. E. Truax	693,180	Feb. 18	3049	669	98	1464
Car draw-gear	C. Wright	701,660	June 3	691	153	99	2353
Car draw-gear. Railway	J. F. Courson	715,969	Dec. 16	2584	571	101	2407
Car driving mechanism. Motor	A. Schmid	716,113	Dec. 16	2842	625	101	2462
Car. Drop-door gondola	R. V. Sage	697,024	Apr. 8	1226	274	99	279
Car. Dump	H. C. Williamson and H. Pries	690,501	Jan. 7	260	52, 53	98	57
Car. Dump	E. M. Ray and R. B. McConney	704,573	July 15	2273	493 494	100	490
Car. Dump	F. S. Ingoldsby	706,662	Aug. 12	1282	284	100	1392
Car. Dump	F. S. Ingoldsby	706,663	Aug. 12	1284	283	100	1393
Car. Dump	T. R. McKnight and H. A. Clapp	712,572	Nov. 4	215	53	101	942
Car. Dump	T. R. McKnight	712,573	Nov. 4	218	53	101	942
Car-dump	W. A. Lathrop	715,488	Dec. 9	1590	344	101	2178
Car. Dumping	J. C. and R. A. Sturgeon	690,625	Jan. 7	494	107 108	98	106
Car. Dumping	J. D. Shanahan	691,814	Jan. 28	2758	621 622	98	626
Car. Dumping	G. I. King	692,457	Feb. 4	410	98	98	882
Car. Dumping	H. S. Hart	693,858	Feb. 25	3120	691	98	1505
Car. Dumping	F. C. Dunham	695,803	Mar. 18	2736	623	98	2318
Car. Dumping	F. Peteler	706,254	Aug. 5	485	103 104	100	1215
Car. Dumping	J. H. Farlow and G. Schimpf	711,420	Oct. 14	1953	425	101	421
Car. Dumping	J. J. Souder	715,312	Dec. 9	1269	270 271	101	2116
Car. Dumping	O. W. Meissner	716,075	Dec. 16	2766	610 611	101	2446
Car-dumping apparatus	T. Long	711,728	Oct. 21	2562	563 564	101	564
Car-dumping structure. Revolvable	E. Ramsay	701,764	June 3	865	192 193	99	2280
Car-emptying mechanism	J. M. Riddle	690,877	Jan. 7	959	215 216	98	292
Car end panel and seat-post. Open	J. Seeburger	709,516	Sept. 23	2972	662	100	2690
Car end sill	S. A. Crone	712,769	Nov. 4	555	128	101	1011
Car end sill	R. H. Hornbrook	715,075	Dec. 2	829	170	101	2005
Car. Express	J. E. Porter	694,494	Mar. 4	287	65, 66	98	1773
Car fans and ventilators. Pneumatic motor for	C. A. Evans	705,830	July 29	4840	1051	100	1040
Car-fender	J. H. Surtin	690,674	Jan. 7	585	127	98	125
Car-fender	E. W. Jeter	691,315	Jan. 14	1781	405	98	386
Car-fender	W. F. Weiss	691,829	Jan. 28	2787	626	98	681
Car-fender	C. M. Moore	692,691	Feb. 4	544	191	98	972
Car-fender	W. J. Ward	693,722	Feb. 18	326	644	98	1447
Car-fender	J. J. McGarity and G. R. Hopf	694,883	Mar. 4	1054	229	98	1935
Car-fender	L. White	697,762	Apr. 15	2564	571	99	573
Car-fender	M. F. Field	698,915	Apr. 29	4819	1063	99	1060
Car-fender	C. P. Hulst	698,954	Apr. 29	4877	1076	99	1102
Car-fender	W. Sullivan	699,996	May 13	1670	383	99	1532
Car-fender	J. D. Hodges	701,568	June 3	519	114	99	2215
Car-fender	E. A. Sample	701,945	June 10	1182	270 271	99	2371
Car-fender	W. B. Rohmer	702,484	June 17	2183	497 498	99	2394
Car-fender	W. Bonham	703,040	June 24	3242	745	99	2820
Car-fender	J. T. Hodgins	704,461	July 8	2046	443	100	480
Car-fender	E. A. Booser	704,776	July 15	2613	599	100	561
Car-fender	J. V. Wehmeyer	705,886	July 29	4946	1054	100	1060
Car-fender	C. Giblin	705,918	July 29	5004	1069	100	1072
Car-fender	A. M. Ferguson and J. A. U. Beaudry	706,041	Aug. 5	78	17	100	1138
Car-fender	O. M. Prouse	706,851	Aug. 12	1653	370	100	1473
Car-fender	E. C. Moulton	708,899	Sept. 9	1679	387	100	2338
Car-fender	J. H. Lutter	709,991	Sept. 30	3880	875	100	2838
Car-fender	E. Sherwood	713,163	Nov. 11	1326	298 299	101	1186
Car-fender	W. B. Collins	714,453	Nov. 25	3869	854 855	101	1744
Car-fender	H. C. Itter	714,910	Dec. 2	532	117 118	101	1946
Car-fender	G. and P. Linhard	716,070	Dec. 16	2759	608	101	2445

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Br'g.	Vol.	Page.
Car-fender. Automatic	H. F. Rooney	715,153	Dec. 2	963	208	101	2033
Car-fender or guard. Tramway	J. Bauer	705,814	July 29	4819	1046	100	1035
Car-fender. Street	A. Fischer	693,960	Feb. 25	3319	730	98	1544
Car-fender. Street	A. W. Shank	699,769	May 13	1236	287	99	1441
Car-fender. Street	C. O. West	700,269	May 20	2258	515	99	1674
Car-fender. Street	E. F. Cannon	703,536	July 1	287	86	100	58
Car-fender. Street	C. T. Stoelting	704,141	July 8	1467	314	100	308
Car-fender. Street	C. Zimmerman	704,166	July 8	1504	322	100	316
Car-fender. Street	H. J. Schult	705,150	July 22	8435	746	100	745
Car-fender. Street	O. Spillern-Spitzer	705,466	July 22	4105	892	100	881
Car-fender. Street	O. Olsen	705,783	July 22	4763	1033	100	1023
Car-fender. Street	E. A. Boettler	710,041	Oct. 14	1021	226	101	224
Car-fender. Street	J. Nosek	715,286	Dec. 9	1208	259	101	2102
Car-fender. Street	W. Bilkovitz	717,326	Dec. 30	5299	1153	101	3022
Car. Freight	F. P. Butts	694,052	Feb. 25	3524	775	98	1585
Car. Freight	F. Nagel	697,650	Apr. 15	2366	526	99	532
Car. Freight	H. R. Keithley	703,659	July 1	520	117	100	102
Car. Freight	H. S. Godfrey	709,909	Sept. 16	1900	435	100	2400
Car. Freight	H. A. Turner	715,181	Dec. 2	1016	220	101	2044
Car. Freight	M. A. Dees	715,355	Dec. 9	1347	230	101	2131
Car. Freight	H. A. Johnston	715,384	Dec. 9	1394	330	101	2140
Car friction draft-gear. Railway	T. L. McKeen	714,815	Dec. 2	324	71	101	1903
Car friction draw-gear and buffing apparatus. Rail- way.	S. P. Bush	707,820	Aug. 26	3548	800	100	1896
Car-gate. Folding	N. H. Colwell	692,985	Feb. 11	1423	309	98	1117
Car-gate. Folding railway	N. H. Colwell	698,786	Feb. 18	2363	654	98	1455
Car-gates. Means for operating railway	E. E. Gold	700,261	Sept. 16	1410	340	100	2538
Car. Gondola	H. S. Hart	690,040	May 13	1606	367	99	1520
Car. Gondola	A. B. Bellows	710,175	Sept. 30	4239	956	100	2914
Car. Gondola	A. B. Bellows	710,176	Sept. 30	4240	956	100	2914
Car. Gondola freight	T. J. Newberry and J. V. Ericson	695,623	Mar. 18	2422	548	98	2254
Car grain-bin	W. R. Smith	712,736	Nov. 4	494	117	101	1090
Car grain-door	W. H. Mann and U. G. Muck	699,836	May 6	390	91	99	1253
Car grain-door	T. N. Bon Durant	708,017	Sept. 2	28	7	100	1989
Car grain-door	L. A. Hoer	709,486	Sept. 23	2902	645	100	2625
Car grain-door	S. E. McKinney	713,481	Nov. 11	1951	441	101	1315
Car grain-door	D. and J. A. James	714,705	Dec. 2	103	20	101	1858
Car grain-door. Freight	F. H. Jones	692,522	Feb. 4	544	128	98	909
Car grain-door. Railway-box	J. W. Wood	706,626	Aug. 12	1213	269	100	1377
Car guard device. Coupled	J. Eisenmann	709,145	Sept. 16	2176	498	100	2460
Car guard-gate. Railway	H. Witte	704,228	July 8	1613	349	100	357
Car guard-rail. Street	W. S. Bradley	704,432	July 8	1979	431	100	416
Car. Hand	J. R. Roach	709,175	Sept. 16	2241	509	100	2471
Car. Hand	J. Bridges	711,920	Oct. 21	2952	649	101	645
Car. Hand	J. Donovan	716,524	Dec. 23	3661	739	101	2645
Car hand-strap. Railway	M. Straus	710,535	Oct. 7	275	61	101	55
Car hand-strap. Street	M. Straus	710,536	Oct. 7	276	61	101	56
Car-haul	A. M. Acklin	692,496	Feb. 4	483	113	98	897
Car-haul	A. M. Acklin	693,483	Feb. 18	2402	525	98	1340
Car-haul	A. M. Acklin	694,047	Feb. 25	3514	773	98	1582
Car-haul	S. W. Bollinger	707,200	Aug. 19	2300	514	100	1623
Car-haul	A. M. Acklin	709,691	Sept. 23	3296	732	100	2699
Car-heating apparatus. Railway	J. Q. C. Searle	707,861	Aug. 19	2538	586	100	1684
Car-heating system	E. H. Gold	707,964	Aug. 26	3820	859	100	1948
Car-journal box	T. W. Mitchell	697,947	Apr. 15	2899	639	99	646
Car journal-box	R. Burns	714,095	Nov. 18	8165	701	101	1584
Car life-saver. Automatic motor	G. O. S. Conway	693,239	Feb. 11	1941	422	98	1223
Car life-saving device. Street	W. H. Martin	696,248	Mar. 25	3615	808	98	2512
Car-lighting. Generating apparatus for	A. F. Madden	705,854	July 22	4888	1063	100	1049
Car-lighting system. Combined electric and gas	J. L. Creveling	704,635	July 15	2463	532	100	530
Car-loader	E. H. Reynolds	700,152	May 13	1999	458	99	1597
Car-loader	E. H. Reynolds	700,153	May 13	2001	459	99	1597
Car-loader	J. L. Roberts	703,473	July 1	177	41	100	37
Car loader. Box	D. A. Chappell	702,625	June 17	2451	553	99	2650
Car loader. Box	W. A. Smith and W. R. Harp	710,902	Oct. 7	947	205	101	193
Car loader. Box	G. F. Bartlett, Jr.	711,193	Oct. 14	1548	333	101	336
Car. Low-side gondola	G. I. King	691,637	Jan. 21	2400	530	98	534
Car. Mail	P. J. Farrell	709,894	Sept. 30	3690	832	100	2798
Car. Metal	A. B. Bellows	694,715	Mar. 4	724	159	98	1864
Car. Metal freight	L. T. Canfield	690,559	Jan. 7	368	74	98	80
Car. Metallic	H. S. Hart	700,767	May 27	3255	745	99	1896
Car. Metallic-frame box	J. M. Hansen	701,720	June 3	792	175	99	2374
Car. Metallic railway	R. H. Hornbrook and W. H. Wood- cock.	707,416	Aug. 19	2702	611	100	1706
Car. Mining	J. McAlister	696,070	Mar. 25	3239	732	98	2155
Car. Mining	D. L. Brown	700,718	May 20	3132	711	99	1855
Car. Motor	J. G. Matthews	696,741	Apr. 1	657	149	99	111



*Alphabetical list of inventions—Continued.*

Invention	Name	No.	Date	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Car. Motor.	H. Austin.	698,890	Apr. 29	4777	1050	99	1080
Car. Motor.	W. C. Holloway.	705,402	July 23	3399	864	100	856
Car motors and brakes. Means for automatically controlling	J. H. Robertson.	696,752	Apr. 1	676	153	99	144
Car-mover.	J. W. Dear.	703,337	June 24	3781	871	99	2938
Car-mover.	C. D. Fox.	704,870	July 15	2799	606	100	560
Car-mover.	H. C. Harrington and W. M. Towers.	700,765	Sept. 23	3415	767	100	2720
Car-mover.	R. Miller.	710,491	Oct. 7	175	38	101	37
Car. Non-telescoping	G. E. Dickson.	714,640	Nov. 25	4211	931	101	1812
Car or engine replacer.	F. J. Fewings.	706,542	Aug. 12	1065	234	100	1346
Car or locomotive. Electric motor.	C. de Kandó.	700,052	May 13	1785	413	99	1555
Car or other vehicle. Motor	J. F. Mason.	712,825	Nov. 4	675	156	101	1036
Car or truck. Transferring.	R. A. Ludlow.	701,207	May 27	4053	932	99	2063
Car. Ore.	P. J. Smith.	695,344	Mar. 11	1908	425	98	2129
Car. Ore.	W. C. Matteson.	713,321	Nov. 11	1677	377	101	1256
Car. Passenger.	T. O. Potter.	696,190	Mar. 25	3500	784	98	2189
Car. Passenger.	J. M. Osgood.	705,432	July 22	4044	876	100	865
Car pinching and moving device	H. J. Kayser.	716,428	Dec. 23	3161	755	101	1065
Car. Platform.	H. F. Vogel and M. Weber.	708,249	Sept. 16	2393	541	100	2501
Car platforms. Trap-door for	G. E. Lawler.	706,833	Aug. 12	1617	363	100	1465
Car. Pleasure-railway.	H. Funk.	710,447	Oct. 7	85	19	101	19
Car-pusher.	E. C. Boyer and F. Radford.	697,194	Apr. 8	1526	341	99	343
Car-rack	W. B. McCarthy.	711,642	Oct. 21	2389	525	101	527
Car. Railway.	M. Toltz and L. W. Hill.	696,150	Mar. 25	3430	769	98	2476
Car. Railway.	H. McLoughlin.	699,340	May 6	397	92	99	1255
Car. Railway.	F. Kuempel.	703,069	June 24	3305	760	99	2841
Car. Railway.	G. W. Chipley.	707,302	Aug. 19	2488	559	100	1662
Car. Railway.	S. H. Ellis.	710,048	Sept. 30	3977	897	100	2859
Car. Railway.	H. M. Hoover.	711,163	Oct. 14	1470	318	101	321
Car. Railway.	H. M. Hoover.	711,164	Oct. 14	1474	319	101	322
Car. Railway or other	J. Maurer and C. Furtner.	710,591	Oct. 7	377	79	101	75
Car-record device.	J. R. Cavanagh, J. B. Hannan, and J. D. Clarke.	692,116	Jan. 28	3297	746	98	733
Car-record device	J. R. Cavanagh, J. B. Hannan, and J. D. Clarke.	709,394	Sept. 16	2687	603	100	2566
Car-replacer	A. J. Michel.	698,986	Apr. 29	4992	1091	99	1113
Car-replacer	O. W. Johnson.	710,584	Oct. 7	365	77	101	74
Car-replacer	G. I. Krieger.	713,456	Nov. 11	1906	431	101	1305
Car-replacer	A. R. Batchelder.	717,323	Dec. 30	5296	1152	101	3921
Car rigging or draft appliance. Railway.	S. H. Jansen.	708,451	Sept. 2	865	197	100	2157
Car rocker side bearing. Railway.	J. J. Hennessey.	715,577	Dec. 9	1767	391	101	2214
Car roller-bearing.	J. B. Christopher.	694,909	Mar. 4	1098	242	98	1944
Car roller side bearing.	F. K. Fasset.	710,673	Oct. 7	529	110	101	107
Car-roof.	C. M. Jennings.	696,976	Apr. 8	1144	254	99	263
Car-roof.	A. W. Wilcox.	705,888	July 29	4949	1077	100	1061
Car-route indicator	M. O. Parenteau.	702,819	June 17	2811	647	99	2726
Car saddle and handle-bar support. Motor.	C. P. Norgate.	712,580	Nov. 4	231	56	101	945
Car safety attachment	C. A. Willard.	693,935	Feb. 25	3274	721	98	1535
Car safety attachment	B. Long.	714,312	Nov. 25	3617	736	101	1635
Car safety-platform. Railway.	J. Holland and W. P. Wickline.	701,202	May 27	4045	930	99	2062
Car sander. Railway.	D. N. Miller.	710,489	Oct. 7	173	37	101	37
Car sanding mechanism	N. Seibert.	716,944	Dec. 30	4562	991	101	2862
Car-seat.	H. S. Hale.	691,373	Jan. 21	1926	433	98	435
Car-seat.	H. S. Hale.	692,133	Jan. 28	3330	754	98	741
Car-seat.	T. Finney.	695,098	Mar. 11	1456	323	98	2036
Car-seat.	G. W. Dryer.	696,095	Mar. 25	3300	743	98	2450
Car-seat.	L. Janson.	701,047	May 27	3775	865	99	2004
Car-seat.	H. S. Hale.	701,562	June 3	509	112	99	2213
Car-seat.	H. S. Hale.	705,075	July 22	3267	707	100	711
Car-seat.	H. L. Flint.	711,842	Oct. 21	2777	615	101	608
Car-seat.	M. N. Forney.	716,882	Dec. 30	4455	905	101	2880
Car-seat.	J. J. Janson.	717,208	Dec. 30	5100	1108	101	2980
Car-seat cleaner	J. A. Ridd.	699,634	May 6	959	221	99	1373
Car-seat cuspidor attachment.	A. H. Kehr.	712,808	Nov. 4	649	150	101	1030
Car-seat foot-rest	L. Janson.	716,715	Dec. 23	4023	882	101	2723
Car-seat-locking device.	M. Weber.	714,979	Dec. 2	669	140	101	1969
Car-seat ticket-holder	G. H. Roberts, Sr.	709,698	Sept. 23	3122	695	100	2670
Car seats and seat-post with which it connects.	J. Seeberger.	709,517	Sept. 23	2973	693	100	2639
End panel for open							
Car side bearing.	J. E. Norwood.	697,531	Apr. 15	2142	476	99	488
Car side bearing.	F. G. Susemihl and A. Torrey.	701,416	June 3	236	53	99	2156
Car side bearing.	W. A. Pungs.	710,609	Oct. 7	408	85	101	82
Car side bearing. Adjustable.	L. C. Denison.	711,832	Oct. 21	2765	612	101	606
Car side bearing. Railway.	F. K. Fasset.	691,693	Jan. 21	2512	562	98	559
Car side bearing. Railway.	F. R. Cornwall.	694,461	Mar. 4	235	52	98	1762
Car side bearing. Railway.	J. C. Wands.	694,504	Mar. 4	305	69	98	1777
Car side bearing. Railway.	J. C. Wands and F. R. Cornwall.	696,286	Mar. 25	3675	822	98	2526
Car side bearing. Railway.	J. C. Wands.	696,385	Mar. 25	3925	869	98	2575
Car side bearing. Railway.	D. P. Bosworth.	696,388	Mar. 25	3932	871	98	2577
Car side bearing. Railway.	F. R. Cornwall.	698,176	Apr. 22	3360	735	99	760
Car side bearing. Railway.	C. H. Williams, Jr.	702,896	June 17	2955	681	99	2755
Car side bearing. Railway.	C. F. Huttoon.	704,044	July 8	1246	268	100	262
Car side bearing. Railway.	S. Northrop and A. G. Steinbrenner.	704,088	July 8	1335	291	100	279
Car side bearing. Railway.	C. H. Williams, Jr.	710,645	Oct. 7	474	100	101	45
Car side bearing. Railway.	F. R. Cornwall.	712,181	Oct. 28	3453	757	101	761
Car side coupling. Railway.	F. Kühn.	700,782	May 27	3282	753	99	193
Car side guard.	J. H. Donnelly.	708,209	Sept. 2	398	92	100	233

## Alphabetical list of inventions—(Continued.)

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Car-sign and means for operating same. Illuminated	H. F. Bristol	715,547	Dec. 9	1717	379	101	2203
Car-sill and bolster connection. Steel	R. V. Sage	698,058	Apr. 22	3110	684	99	700
Car. Sleeping.	J. E. Batterson	716,854	Dec. 30	4398	953	101	2829
Car-spring	T. A. Shea	714,752	Dec. 2	192	39	101	1876
Car-spring. Pneumatic	P. Herpolsheimer	691,862	Jan. 28	2839	638	98	643
Car stake-pocket. Cane	J. A. Low	695,005	Mar. 11	1404	308	98	2925
Car-standard.	E. O. and M. L. Bradley	705,200	July 22	3533	766	100	760
Car-standard holder. Flat	O. S. Perkins	713,013	Nov. 4	1024	240	101	1105
Car-starter	J. R. Trott and S. H. Sutphin	714,623	Nov. 25	4184	925	101	1807
Car-starting device	F. B. Nims	711,878	Oct. 21	2855	631	101	626
Car station-annunciator. Railway	G. Hall	698,491	Apr. 20	3018	866	99	803
Car. Steel	A. B. Bellows	693,218	Feb. 11	1908	414	98	1216
Car. Steel box	J. R. Kilbourne	709,329	Sept. 16	2543	572	100	2536
Car. Steel gondola	A. B. Bellows	710,177	Sept. 30	4241	956	100	2914
Car-step	T. Kendrick	711,051	Oct. 14	1255	273	101	274
Car-step attachment.	J. H. Fasset and J. E. Warren	708,131	Sept. 2	247	58	100	2033
Car-step. Folding.	A. D. Coon	691,895	Jan. 28	2898	652	98	655
Car-step. Folding.	O. F. Thomas	697,293	Apr. 8	1698	379	99	382
Car. Stock	J. F. Clark	702,631	June 17	2463	564	99	2652
Car. Stock	W. Cline	709,506	Sept. 23	3102	691	100	2666
Car street-indicator. Railway	C. E. Morgan	709,236	Sept. 16	2363	536	100	2497
Car street-indicator. Street	J. C. Wuerth	697,308	Apr. 8	1724	385	99	387
Car street-indicator. Street	J. F. Richardson	708,832	Sept. 9	1541	353	100	2908
Car. Tank	C. L. Wilmot	701,056	June 3	686	151	99	2252
Car. Tank	C. L. Rogers and M. S. Shotwell	714,397	Nov. 25	3769	892	101	1725
Car tank-box. Hand	L. L. Logan	701,940	June 10	1109	251	99	2354
Car track-brake. Electric	O. Keen	714,913	Dec. 2	555	118	101	1946
Car. Tram	E. A. Stanley and J. E. Anger	697,288	Apr. 8	1693	378	99	381
Car. Tramway	A. Maurer	704,067	July 8	1292	280	100	272
Car-transom	C. T. Westlake	692,566	Feb. 4	613	144	98	923
Car transport. Marine railway	W. W. Smith	698,573	Apr. 29	4053	896	99	921
Car twin-spring draft-rigging. Railway	C. F. Street	712,977	Nov. 4	964	224	101	1094
Car twin-spring draft-rigging. Railway	C. F. Street	716,782	Dec. 23	4149	909	101	2750
Car-uncoupling appliance. Railway	J. Willison	696,386	Mar. 25	3029	870	98	2577
Car-uncoupling means	G. Groobey	709,707	Sept. 23	3292	738	100	2704
Car-uncoupling mechanism	J. A. Chubb	707,048	Aug. 12	1991	447	100	1540
Car-uncoupling mechanism. Railway	G. Groobey	709,706	Sept. 23	3290	738	100	2704
Car-uncoupling mechanism. Railway	G. Groobey and S. P. Bush	709,708	Sept. 23	3293	739	100	2705
Car underframe. Railway	H. R. Keithley	707,702	Aug. 28	3274	732	100	1842
Car-ventilator	E. Anderson	697,125	Apr. 8	1398	311	99	317
Car-ventilator	P. B. Hole	701,883	June 10	1076	244	99	2549
Car-vestibule diaphragm	J. H. Donaldson and H. H. Schroyer	695,918	Mar. 25	2953	669	98	2377
Car-vestibules, &c. Diaphragm for	H. H. Schroyer	710,924	Oct. 7	989	218	101	201
Car vestibules. Safety attachment for trolley	S. E. Pressler	705,705	July 29	4028	1003	100	690
Car-wheel	M. F. Gerbing	702,644	June 17	2498	571	99	2638
Car-wheel	G. F. Carroll	703,565	July 1	340	77	100	68
Car-wheel	M. T. Davis, Jr	706,906	Aug. 12	1754	392	100	1493
Car-wheel	G. Killian	707,120	Aug. 19	2139	478	100	1588
Car-wheel	E. S. Jennings	708,047	Sept. 2	96	22	100	2901
Car-wheel	F. E. Crandal	709,208	Sept. 16	2308	524	100	2486
Car-wheel	E. T. Vires	714,848	Dec. 2	416	87	101	1918
Car-wheel	W. H. Rado	717,840	Dec. 30	5328	1153	101	3027
Car-wheel bearing	M. B. Schaffer and C. H. Howard	696,085	Mar. 25	3363	737	98	2440
Car-wheel. Composite	M. G. Keeran	690,967	Jan. 14	1134	257	98	253
Car-wheel-flange lubricator	G. W. Newton	710,709	Oct. 7	588	124	101	121
Car-wheel-forging apparatus	A. N. Cameron	703,534	July 1	283	65	100	57
Car-wheel-holding device	E. C. Deskin	704,474	July 8	2071	448	100	436
Car-wheel. Plate-metal	H. F. Mann	703,143	June 24	3445	789	99	2869
Car-wheel. Plate-metal	H. F. Mann	714,725	Dec. 2	142	28	101	1866
Car-wheels. Manufacture of	J. W. Morgan, Jr	709,446	Sept. 16	2781	626	100	2586
Car-window	A. Moffitt	698,989	Apr. 29	4936	1091	99	1114
Car-window	J. Stewart	713,525	Nov. 11	2072	463	101	1338
Car-window dust and cinder guard	M. W. Hutchinson	716,224	Dec. 16	3062	673	101	2512
Car-window roller-screen	F. A. Carpenter	714,362	Nov. 25	3704	816	101	1713
Cars. Adjustable roof or cover for tram	F. Kennington	698,518	Apr. 29	3957	875	99	901
Cars. Automatic latch for dump	J. H. Hendy	713,302	Nov. 11	1647	370	101	1249
Cars. Automatic safety device for	W. H. Caley	710,423	Oct. 7	45	11	101	11
Cars. Auxiliary power device for	C. C. Palmer	716,091	Dec. 16	2792	615	101	2453
Cars. Combined grain-door and loading and unloading platform for box	J. S. Bender	708,300	Sept. 2	561	127	100	2096
Cars. Compensating gear-wheel for motor	G. Burger	692,177	Jan. 28	3397	769	98	754
Cars. Device for connecting the electrical gear of electric	A. Siemens	698,927	Sept. 9	1720	397	100	2346
Cars. Device for securing or releasing trap-floors for ore	J. J. Galway	706,312	Aug. 5	622	136	100	1241
Cars. Draw-gear for railway or like	A. D. Smith	716,773	Dec. 23	4132	907	101	2747
Cars. Emergency-brake for tramway	C. Reel	708,794	Sept. 9	1329	303	100	2563
Cars. Flexible piping for the air, steam, or other piping for railway	G. Rixinger	710,514	Oct. 7	233	51	101	48
Cars, &c. Folding step for	E. J. Hunt	697,208	Apr. 8	1546	346	99	348
Cars. Friction draft-rigging for railway	J. J. Hennessey and P. N. Moore	700,422	May 20	2568	588	99	1734
Cars. Friction draft-rigging for railway	J. J. Hennessey	708,550	Sept. 9	987	223	100	2102
Cars. Friction draft-rigging for railway	J. J. Hennessey	716,415	Dec. 23	3458	730	101	2569
Cars. Friction draft-rigging for railway	J. J. Hennessey	716,416	Dec. 23	344	751	101	2600
Cars. Hand-strap for street-railway	M. Straus	704,143	July 8	1470	315	100	308
Cars. Means for driving generators placed upon cars by power taken from the	J. L. Creveling	691,359	Jan. 21	1903	428	98	431
Cars, &c. Means for propelling.	E. Hayward	691,625	Jan. 21	2376	535	98	528



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drk.	Vol.	Page.
Cars. Metallic hood for vestibules of	J. M. Knaus	706,424	Aug. 5	851	186	100	1285
Cars on overhead electric railways. Means for regulating speed of	H. M. Harding	692,136	Jan. 28	8335	755	98	742
Cars. Pivoted rocker-bearing center-plate for railway-wav.	C. M. Thompson	709,554	Sept. 23	3048	679	100	2054
Cars. Protecting-rail for open	C. E. Baltz	711,753	Oct. 21	2615	575	101	576
Cars. Roller side bearing for railway	S. W. McMunn and E. S. Woods	703,148	June 24	3451	791	99	2871
Cars, &c. Step for	C. W. Keyler and A. Matz	708,051	Sept. 2	101	24	100	2002
Cars. System of operating fans by power for ventilating passenger-	R. M. Dixon	696,947	Apr. 8	1068	240	99	251
Cars. Tandem-spring draft-rigging for railway-	W. H. Miner	716,458	Dec. 23	3525	770	101	2618
Cars. Track-scraper attachment for street-railway	F. N. Root	699,573	May 6	880	155	99	1347
					581		
Caramel cutting and wrapping machine	H. Y. Armstrong	691,737	Jan. 28	2590	582	98	589
					583		
					584		
					460		
					461		
					462		
					463	101	2234
					464		
					465		
Carbid-cartridge	E. M. Rosenbluth	702,594	June 17	2392	547	99	2638
Carbid-feeding mechanism	J. C. Kemp	699,394	May 6	512	118	99	1281
Carbid-hol-er	F. Simson	707,027	Aug. 12	1957	436	100	1532
Carbon-black-making apparatus	J. H. Mann	706,430	Aug. 5	867	139	100	1290
Carbon brush and making same	W. Mills	701,360	June 3	154	33	99	2140
Carbon-feeding device	C. E. Chapin and W. E. Patchin	695,495	Feb. 18	2420	529	98	1344
Carbon-holder	S. B. Whinery	702,514	June 17	2340	510	99	2607
Carbon-sorting machine	M. M. Zellers	701,453	June 3	298	66, 67	99	2169
Carbons for arc-lamps. Manufacture of	C. R. Boehm	703,692	July 1	595	100	118	
Carbonated beverages. Apparatus for manufacturing and dispensing	O. J. Price	716,474	Dec. 23	3555	776	101	2624
Carbonated waters. Manufacture of sterilized	T. Weyl	700,464	May 20	2647	696	99	1751
Carbonating apparatus. Liquid-	A. Rulf	706,115	Aug. 5	208	43	100	1159
Carbonating apparatus. Liquid-	P. E. Malmstrom and O. W. Ackerman	711,575	Oct. 21	2264	491	101	500
					492		
Carbonating liquids	P. E. Malmstrom	710,110	Sept. 30	4105	926	100	2885
Carbonating liquids in bottles, &c. Apparatus for	C. L. Bastian	711,459	Oct. 21	2045	443	101	454
Carbonating-machine	T. H. Irwin and H. J. Miller	697,723	Apr. 15	2497	538	99	560
Carbonating or other machines. Automatic solution-feeder for	C. L. Bastian	711,460	Oct. 21	2049	444	101	455
Carbonator	G. A. Flesche, H. A. Hall, and J. Doherty	705,661	July 29	4540	986	100	980
Carbonator. Beverage-	J. H. Fox	702,718	June 17	2619	603	99	2685
Carbonizing apparatus	G. W. Curtiss	709,966	Sept. 30	3839	864	100	2830
Carbonizing apparatus	G. W. Curtiss	709,967	Sept. 30	3843	864	100	2831
					865		
Carbonizing organic materials	O. Daube	705,213	July 22	3576	773	100	775
Carbonometer	E. S. Downs	690,409	Jan. 7	39	10	98	11
Carbonundum articles and making same	F. J. Tone	709,808	Sept. 23	3498	100		2746
Carbureter	O. A. Lane and H. A. Davenport	690,444	Jan. 7	109	24	98	25
Carbureter	F. L. Martenette	691,955	Jan. 28	3007	674	98	676
Carbureter	H. J. Doolan	692,255	Feb. 4	71	15	98	818
Carbureter	F. S. and W. D. Jacks	692,518	Feb. 4	535	126	98	907
Carbureter	C. M. Kemp	692,860	Feb. 11	1137	254	98	1057
Carbureter	E. W. Jervis	693,223	Feb. 11	1967	435	98	1234
Carbureter	O. A. Lane and H. A. Davenport	696,457	Apr. 1	115	27	99	30
Carbureter	C. L. Champion	697,807	Apr. 15	2655	589	99	505
Carbureter	G. W. Honts	698,953	Apr. 29	4876	1076	99	1102
Carbureter	J. Wilkinson, E. F. Chapman, and H. Thornton	699,357	May 6	433	100	99	1293
Carbureter	D. Best	699,830	May 13	1353	314	99	1467
Carbureter	A. L. Mangin	699,965	May 13	1632	375	99	1525
Carbureter	G. C. Diehl and J. A. Barber	700,343	May 20	2352	585	99	1691
Carbureter	E. R. Imman	700,777	May 27	3273	751	99	1902
Carbureter	P. Keller	701,890	June 10	1087	247	99	2352
Carbureter	P. Roemisch and A. Orre	702,378	June 10	1964	448	99	2528
Carbureter	M. S. Deringer	702,637	June 17	2478	568	99	2656
Carbureter	J. W. Kitten	703,794	July 1	776	170	100	155
Carbureter	W. S. Head and G. J. Dovey	704,034	July 8	1231	265	100	260
Carbureter	J. F. Bennett and H. S. Moorwood	705,021	July 22	3170	685	100	692
Carbureter	F. C. Blake	705,314	July 22	3801	821	100	819
Carbureter	C. Robinson	706,454	Aug. 5	917	199	100	1301
Carbureter	J. Rush	706,600	Aug. 12	1165	258	100	1367
Carbureter	E. Walther	707,467	Aug. 19	2785	631	100	1724
Carbureter	W. F. Betzel	707,897	Aug. 26	3706	831	100	1926
Carbureter	T. H. J. Leckband	707,973	Aug. 26	3840	862	100	1932
Carbureter	F. Paul, Jr., and A. F. Gundlack	708,826	Sept. 9	1529	350	100	2306
Carbureter	A. M. Rosenberry	709,647	Sept. 23	3185	711	100	2682
Carbureter	T. J. Forde	709,703	Sept. 23	3285	736	100	2703
Carbureter	E. Bouchaud-Praceiq	708,866	Sept. 30	3610	816	100	2781
Carbureter	O. W. Williams	710,646	Oct. 7	476	100	101	95
Carbureter	G. M. Schebler	711,005	Oct. 14	1146	253	101	231
Carbureter	T. H. J. Leckband	711,429	Oct. 14	1975	429	101	426
Carbureter	W. Neil and A. J. Bredlow	711,519	Oct. 21	2160	471	101	478
Carbureter	E. D. Parrott	712,150	Oct. 28	3402	745	101	752
Carbureter	W. Wright	712,169	Oct. 28	3433	751	101	757
Carbureter	C. J. Johnson	712,803	Nov. 4	640	145	101	1029
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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. E.	Vol.	Page.
Carbureter.	C. I. Tenney	714,414	Nov. 25	3794	837	101	1730
Carbureter.	J. A. Barber	715,942	Dec. 16	2497	550	101	2389
Carbureter.	G. L. Harvey	716,327	Dec. 16	3069	571	101	2540
Carbureter.	G. A. Manwaring	716,452	Dec. 23	3515	768	101	2616
Carbureter.	J. P. Nagel	717,444	Dec. 30	5519	1199	101	3965
Carbureter and gasoline-regulator. Combined.	J. C. Titus	693,462	Feb. 18	2357	516	98	1330
Carbureter. Explosive-engine.	N. G. Harris	692,444	Feb. 4	394	95	98	880
Carbureter. Explosive-engine.	A. F. Bardwell	693,773	Feb. 18	2945	648	98	1451
Carbureter. Explosive-engine.	L. H. M. Sanson	694,110	Feb. 25	3613	730	98	1603
Carbureter. Explosive-engine.	J. E. Duryea	695,504	May 6	708	165	99	1332
Carbureter. Explosive-engine.	J. W. Parkin	702,469	June 17	2152	490	99	2588
Carbureter. Explosive-engine.	J. B. and D. M. Leppo	711,902	Oct. 21	2900	641	101	635
Carbureter. Explosive-engine.	T. B. Jeffery	712,542	Nov. 4	155	37	101	930
Carbureter. Explosive-engine.	L. E. Heath	713,983	Nov. 18	2948	654	101	1537
Carbureter. Explosive-engine.	A. A. Longuemare	715,398	Dec. 9	1417	396	101	2145
Carbureter. Explosive-engine.	C. N. Nelt	716,573	Dec. 23	3819	820	101	3669
Carbureter. Explosive-engine.	E. L. P. Mors	714,397	Nov. 25	4124	913	101	1797
Carbureter for explosive-engines.	G. A. Graves	705,995	July 29	5136	1120	100	1100
Carbureter for explosive-engines.	R. C. Marks	710,339	Sept. 30	4510	1016	100	2973
Carbureter. Vaporizing.	W. M. Power	713,146	Nov. 11	1285	291	101	1178
Carbureting apparatus. Air-	P. R. van der Made	690,681	Jan. 7	595	129	98	127
Carbureting device for explosion-engines.	J. Fillet	696,231	Mar. 25	3576	840	98	2504
Carbureting device for explosive-engines.	T. McCormick and A. D. Miller	696,909	Apr. 1	934	222	99	210
Carbureting device for internal combustion motors.	C. A. Hamilton	699,309	May 6	340	70	99	1243
Card and making same. Jacquard-	J. Szecepanik	701,775	June 3	884	197	99	2293
Card-cleaning machine. Playing-	E. O. Mücke	695,577	Mar. 18	2342	531	98	2239
Card-clothing	L. C. Schneider	691,916	Jan. 28	2931	660	98	662
Card-clothing	C. Mills and R. W. Hunton	693,817	Feb. 18	3924	691	98	1467
Card-clothing. Educational.	J. S. Anderson	715,579	July 23	4890	1052	100	921
Card-holder	A. S. Anderson	715,582	Dec. 9	1676	366	101	2196
Card holder and score-card. Playing-	H. H. Freeman	711,103	Oct. 14	1351	293	101	294
Card list or index	W. Lumley	706,538	Aug. 12	1625	365	100	1467
Card or sign holder	F. P. Wilkin	697,968	Apr. 15	2825	625	99	632
Card. Playing-	K. Frederickson	702,298	June 10	1811	413	99	2498
Card-punching machine. Jacquard	T. Royle	691,973	Jan. 28	3388	683	98	616
Card-punching machine. Jacquard	O. Zerkowit	698,247	Apr. 22	3649	807	99	821
Card. Score	F. X. J. Harton	711,534	Oct. 21	2906	621	101	613
Card-serving machine. Automatic.	G. A. Armstrong	714,533	Nov. 25	4446	895	101	1780
Cards from paper-stock. Die for cutting.	F. K. Arnold	711,752	Oct. 21	2614	575	101	575
Cards. Game-	B. H. Sharp	706,693	Aug. 12	1173	260	100	1369
Cards. Locking device for stripping-brush in re-	C. E. Smith	692,727	Feb. 4	896	204	98	982
volving-flat	J. T. Bolton	696,708	Apr. 1	597	135	99	130
Cards. Machine for copying patterns for jacquard-	V. Royle	690,615	Jan. 7	471	102	98	101
Cards. Machine for lacing jacquard-	H. Möller	712,506	Nov. 4	208	49	101	941
Cards. Playing-	C. H. Fernald	711,840	Oct. 21	2775	615	101	698
Cardboard or paper edges. Crimping, burnishing,	J. R. Hinchliffe and J. Hall	696,437	Apr. 1	80	18, 19	99	22
and hardening	J. Fossel	703,645	July 2	491	111	99	30
Carding-engine flats. Mechanism for grinding.	C. H. Potter	695,834	Mar. 18	2741	637	98	2330
Carding-machine	W. H. Hoyle and T. Barker	708,046	Sept. 2	95	22	100	201
Carding-machine	H. A. Owen	708,250	Sept. 2	468	107	100	2077
Carding-machine	H. Gilljam	709,980	Sept. 30	3865	870	100	2385
Carding-machine attachment	C. D. Ingraham	699,467	May 6	649	150	99	1310
Carding-machine feeding mechanism	H. Kemp	701,487	June 3	877	84, 85	99	2155
Carding-machine grinding attachment	J. Audette	700,164	May 26	2947	493	98	1620
Carding-machine spotting attachment	J. B. Platt and T. F. Marr	713,796	Nov. 18	2575	574	101	1460
Carding-machines. Combined stop and alarm	J. W. Scott	706,261	Aug. 5	498	106	100	1217
mechanism for	W. W. Thomas	703,019	June 24	3200	737	99	2822
Carnation-supporter.	W. Johnson	697,254	Apr. 8	1629	365	99	367
Carousel	W. D. Cronin	713,070	Nov. 11	1139	4261	101	1147
Carousel. Cycloidal.	H. C. Richardson	693,153	Feb. 11	1760	388	98	1184
Carousel. Marine	G. W. Raynor	710,713	Oct. 7	602	126	101	123
Carpenter's bench and vise. Combined	J. U. Duby	700,023	May 13	1724	397	99	1543
Carpenter's tool	M. F. Doyle	707,307	Aug. 19	2497	561	100	1664
Carpet and making same. Velvet	J. W. Dimick, Jr., and J. Jagger	699,616	May 6	927	215	99	1967
Carpet and weaving same. Persian	H. Panitschek and J. Ahorn	717,017	Dec. 30	4719	1023	101	2895
Carpet-beater	E. A. Walker	712,884	Nov. 4	972	227	101	1620
Carpet-beater	F. B. Holder	714,507	Dec. 2	540	115	101	1943
Carpet-cleaning apparatus	A. Lotz	695,162	Mar. 11	1587	352	98	2065
Carpet-cleaning device	E. C. Stentz	709,122	Sept. 16	2130	488	100	2450
Carpet-cleaning machine	J. C. Brady	706,892	Aug. 12	1731	386	100	1488
Carpet-cleaning rack	F. V. Johnson	698,508	Apr. 29	3944	872	99	898
Carpet-fabric. Ingrain	J. O. McGorman	712,323	June 10	1860	909	99	2306
Carpet-fastener	H. C. Roemer	693,567	Feb. 18	2563	566	98	1372
Carpet-fastener	E. H. Humphrey	700,691	May 20	3073	698	99	1844
Carpet-fastener.	A. H. Myers	712,569	Nov. 4	211	50	101	941
Carpet-fastener. Stair-	J. S. Jardine	697,488	Apr. 15	2063	457	99	474
Carpet-lining	W. A. Mauran	715,679	Dec. 9	1945	435	101	2252
Carpet or floor covering. Interlocking	A. L. Flood	713,420	Nov. 16	1847	417	101	1233
Carpet-rack	A. S. and W. H. Strickler	693,457	Feb. 18	2350	514	98	1329
Carpet-rack	A. S. and W. H. Strickler	693,458	Feb. 18	2351	515	98	1329
Carpet-rag looper.	V. E. Richardson	695,837	Mar. 18	2797	637	98	2330
Carpet-rag looper.	T. A. Clark	698,815	Apr. 29	4611	1017	99	1046
Carpet-raveling machine	G. W. Heath	715,378	Dec. 9	1384	298	101	2138
Carpet-renovator	J. S. Thurman	716,312	Dec. 16	3219	703	101	2539
Carpet-renovator	J. S. Thurman	716,313	Dec. 16	3220	714	101	2539
Carpet-securer. Stair-	W. Kernochan	707,848	Aug. 26	3614	815	100	1907
Carpet-stretcher	J. B. Russel	695,495	Mar. 18	2160	487	98	2201
Carpet-stretcher	J. Whitehart	695,772	Mar. 18	2665	606	98	2304



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Doc.	Vol.	Page.
Carpet-stretcher	A. H. Davis	699,105	Apr. 29	5123	1133	99	1132
Carpet-stretcher	F. L. Kidd	702,222	June 10	1694	382	99	2474
Carpet-stretcher	M. E. Shinn	708,974	Sept. 9	1823	420	100	2366
Carpet-stretcher	F. Lenzer	715,396	Dec. 9	1415	305	101	2144
Carpet-stretcher	J. Lawson	716,904	Dec. 30	4496	976	101	2849
Carpet-sweeper	T. H. Bedell	695,434	Mar. 18	2052	461	98	2179
Carpet-sweeper	J. Barnes, R. W. and W. H. Kenyon	698,098	Apr. 22	3198	700	99	728
Carpet-sweeper	S. J. Reynolds	701,393	June 3	193	42	99	2148
Carpet-sweeper	J. Barnes, R. W. and W. H. Kenyon	708,614	Sept. 9	1101	247	100	2215
Carpet-sweeper bearing	J. W. Shanahan and F. C. Mason	717,458	Dec. 30	5541	1204	101	3069
Carpet-sweeper roller-bearing	F. C. Mason	709,444	Sept. 16	2778	625	100	2585
Carpet, Wood	C. A. Stille and S. Billings	706,845	Sept. 9	1562	357	100	2313
Carpet, Woven pile	W. Benham	691,889	Jan. 28	3891	651	98	683
Carpets, Apparatus for the manufacture of knot-stitch	F. Boyer	698,899	Apr. 29	4787	1054	99	1083
Carpets, Manufacturing knotted	H. Panitschek and J. Ahorn	716,093	Dec. 16	2800	617	101	2454
Carriage and rocker, Combined baby	J. C. Pender	706,448	Aug. 5	909	197	100	1299
Carriage and sleigh, Combined baby	D. MacKenzie	692,464	Feb. 4	424	100	98	858
Carriage, Child's	G. E. Whitmore and E. M. Tillinghast	716,972	Dec. 30	4633	1004	101	2877
Carriage clutch adjustment, Motor	D. F. Graham	693,963	Feb. 25	3326	731	98	1546
Carriage, Collapsible baby	A. Katze	699,186	May 6	105	26	99	1196
Carriage-curtain	G. R. Harris	701,337	June 3	108	32	99	2131
Carriage-curtain fastener	H. Lester	713,892	Nov. 18	2768	615	101	1500
Carriage-door lock	A. Ochsner	695,335	Mar. 11	1894	421	98	2126
Carriage emergency brake, Horseless	W. D. Gould	696,233	Mar. 25	3578	801	98	2572
Carriage flue construction, Steam	J. H. Bullard	708,460	Sept. 2	3892	190	160	2150
Carriage, Folding	C. E. Fanning	697,333	Apr. 8	1761	395	99	304
Carriage, Folding	D. Broadbelt	698,101	Apr. 22	3204	701	99	730
Carriage, Folding baby	A. G. Green	707,772	Aug. 26	3443	777	100	1876
Carriage, Folding child's	S. R. Evans	711,247	Oct. 14	1642	353	101	356
Carriage foot-rest	R. Thompson	706,359	Aug. 5	706	153	100	1250
Carriage-gear	A. B. Bryant	693,596	Feb. 18	2907	576	98	1381
Carriage-lock	A. G. Snell	690,984	May 13	1667	382	99	1531
Carriage, Motor	C. Gouchon	694,470	Mar. 4	250	56	98	1765
Carriage nursing-bottle holder, Baby	L. C. Feld	712,184	Oct. 28	3456	758	101	762
Carriage or wagon spring	J. Williams	698,611	Apr. 29	4165	916	99	943
Carriage-seat attachment, Baby	M. Elwert	712,917	Nov. 4	354	198	101	3572
Carriage steering-gear, Motor	F. A. Fox and D. F. Graham	699,962	Feb. 25	3324	730	98	1545
Carriage steering-gear, Motor	H. A. Schryver and F. C. March	715,302	Dec. 9	1252	266	101	2112
Carriage-top and curtain	W. B. Glessner	707,915	Aug. 26	3736	837	100	1982
Carriage-top backstay	R. C. Schemmel	704,384	July 8	1903	412	100	462
Carrriages, Automatic stop for children's	R. T. Jones	716,717	Dec. 23	4026	882	101	2723
Carrriages, Feed-pump and connection for horseless	J. C. Blevney	707,079	Aug. 19	2967	461	100	1573
Carrier							
See Bobbin-carrier, Hoisting-bucket carrier.							
Book or parcel carrier, Luggage-carrier.							
Bottle-carrier, Mail-carrier.							
Brick-carrier, Mail and parcel carrier.							
Cartridge-carrier, Music-carrier.							
Cash-carrier, Package-carrier.							
Cash and parcel carrier, Parcel-carrier.							
Electric carrier, Platform-carrier.							
Endless carrier, Shade-carrier.							
Fuss-carrier, Shock-carrier.							
Grain-carrier, Suspended carrier.							
Hay-carrier, Trace-carrier.							
Carrier	J. G. Cofman	705,383	July 22	3956	857	100	849
Carrier and drier	L. L. Kelsey	699,109	Apr. 29	5129	1134	99	1153
Carrier-track	G. Wideman	693,934	Feb. 25	3273	720	98	1534
Carrying and transferring device	J. H. Sinnott	708,395	Sept. 9	1061	241	100	2237
Carrying device	J. Moeller	707,610	Aug. 26	3981	658	100	1892
Carrying-roll	E. E. Hauns	712,061	Oct. 29	3242	710	101	720
Cart and insect-catcher, Combined road	M. B. Gooing	707,065	Aug. 26	3822	859	100	1949
Cart, Ash	N. Barney	697,779	Apr. 15	2599	576	99	582
Cart, Ash	W. Schaller	707,163	Aug. 19	2224	499	100	1044
Cart, Dog	F. and W. Knöbel	703,427	July 1	110	24	100	25
Cart, Dumping	A. Laporte	715,276	Dec. 9	1192	254	101	2688
Cart for collecting and removing sweepings	A. Gull and J. Müller	710,453	Oct. 7	109	22	101	22
Cart, Hand	B. Butler	704,612	July 15	2328	505	100	502
Cart, Hand	B. Butler	713,745	Nov. 18	2481	552	101	1441
Cart, Manure-distributing	J. R. Faulk	693,695	Feb. 18	2816	619	98	1424
Cart or car discharging device	W. Nossian	691,167	Jan. 14	1433	337	98	326
Cart or wagon, Dumping	W. Leonhardt	709,716	Sept. 23	3308	712	100	2748
Cart shovel and scraper	697,243			1600	359	99	359
Carton	A. V. Locke	709,053	May 27	3338	825	99	1964
Carton, Collapsible	C. H. Russell	704,380	July 8	1898	411	100	401
Carton-machine	W. G. Chapin	703,184	June 24	3517	809	99	2882
Carton-machine	W. E. Reuling	714,082	Nov. 18	3032	674	101	1556
Carton or package	J. F. Carver and J. L. Sturtevant	714,639	Dec. 2	27	6	101	1842
Cartridge	H. Maxim	694,295	Feb. 25	3999	882	98	1673
Cartridge	C. A. Bailey	694,713	Mar. 4	718	158	98	1893
Cartridge	G. O. Hawk	695,809	Mar. 18	2747	626	98	2320
Cartridge	695,996			3086	700	98	2404
Cartridge	H. Angell and T. Berntson	696,295	Mar. 25	3982	826	98	2530
Cartridge	C. A. Bailey	699,061	Apr. 29	5056	1118	99	1189
Cartridge	J. Orcutt	701,763	June 3	865	192	99	2399

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Cartridge .....	W. E. Hayner .....	702,208	June 10	1669	375	99	2469
Cartridge .....	R. W. Scott .....	703,839	July 1	854	188	100	171
Cartridge .....	G. Müller .....	705,949	July 29	5060	102	100	1084
Cartridge and shell loader .....	P. Klingner .....	711,870	Oct. 21	2840	1628	101	624
Cartridge-belt .....	A. Meyer .....	691,403	Jan. 21	1981	444	98	448
Cartridge-box .....	G. Migliardi .....	695,576	Mar. 18	2840	531	98	2398
Cartridge-carrier .....	E. T. Gibson .....	693,004	Feb. 11	1450	315	98	1123
Cartridge-clip .....	E. G. Parkhurst .....	702,882	June 17	2924	675	99	2748
Cartridge. Gun. ....	R. W. Scott .....	694,675	Mar. 4	650	142	98	1849
Cartridge. Gun. ....	R. W. Scott .....	694,894	Mar. 4	1069	237	98	1938
Cartridge. Gun. ....	R. W. Scott .....	694,895	Mar. 4	1072	237	98	1938
Cartridge. Gun. ....	R. W. Scott .....	694,896	Mar. 4	1073	237	98	1939
Cartridge. Gun. ....	W. M. Scruggs .....	700,983	May 27	3639	890	99	1973
Cartridge. Gun. ....	R. W. Scott .....	703,840	July 1	857	188	100	171
Cartridge holder. Blank. ....	M. J. Shimer .....	707,026	Aug. 12	1956	488	100	1532
Cartridge-loading machine .....	T. and W. H. Nichol. ....	695,075	Mar. 11	1418	311	98	2039
				354			
Cartridge-loading machine. Metallic. ....	G. M. Peters .....	702,151	June 10	1561	355	99	2448
				356			
Cartridge. Ordnance. ....	A. Wratzke .....	703,879	July 1	929	203	100	186
Cartridge-shell .....	G. Lammadin and D. F. Stone .....	692,154	Jan. 28	3364	761	98	748
Cartridge-shell-base .....	A. T. Duncan .....	707,681	Aug. 26	3228	125	100	1832
Cartridge-shell-ejecting machine .....	P. Butler .....	708,123	Sept. 2	234	33, 54	100	2028
Cartridge-shell loader .....	E. L. Wetzig and G. W. Reust .....	713,082	Nov. 4	1050	246	101	1112
Cartridge-shell recapper and decapper .....	H. G. Robinson .....	711,231	Oct. 14	1615	346	101	351
Cartridge-shell-reloading device .....	J. H. Wesson .....	716,797	Dec. 23	4176	916	101	2755
Cartridge-shells. Capping or decapping machine for .....	J. E. Stockdale .....	692,730	Feb. 4	902	206	98	983
Carving-machine .....	J. B. Robin .....	692,356	Feb. 4	246	59, 60	98	850
Carving-machine .....	E. T. Brannan .....	692,977	Feb. 11	1410	366	98	1115
Carving-machine .....	E. R. Lochman .....	701,903	June 10	1105	253	99	2355
				866			
Carving-machine. Automatic .....	F. Streich and C. L. Ruehs .....	696,382	Mar. 25	3909	867	98	2371
				868			
Carving or copying machine .....	J. Gates .....	698,832	Apr. 29	4669	1028	99	1059
Cascade-tumble .....	R. J. Carson and E. D. Cundell .....	695,444	Mar. 18	2074	468	98	2184
Case:							
See Ammunition-case. Folding-case.							
Banana-shipping case. Glove-case.							
Bandage-case. Ice-case.							
Binder-case. Jewel-case.							
Binding-case. Map or chart case.							
Bookcase. Measuring-case.							
Bottle-holding case. Packing-case.							
Cigar-case. Pencil-case.							
Cigar-storage case. Photographic develop-							
Coin-case. ing-case.							
Coin-controlled case. Refrigerator-case.							
Dental instrument case. Sample-case.							
Display-case. Saw-shipping case.							
Dress-case. Shipping-case.							
Egg-case. Show-case.							
Exhibiting-case. Spectacle or eyeglass							
Eyeglass-case. case.							
Eyeglass or specta- Telescopic case.							
cle case. Ticket-case.							
Finger-straighten- Tobacco-case.							
ing case. Toilet-case.							
File-case. Traveling-case.							
Filing-case. Violin-case.							
	Watchcase.						
Case and box machine .....	J. K. Ashley .....	695,364	Mar. 11	1941	432	98	2137
				493			
Case for plats, maps, &c. ....	C. E. McClintock .....	691,288	Jan. 14	1722	392	98	374
Casein and making same. Adhesive. ....	J. A. Just .....	692,450	Feb. 4	401	.....	98	881
Casein and producing same. Insoluble. ....	H. V. Dunham .....	695,198	Mar. 11	1644	.....	98	2077
Casein compound .....	H. V. Dunham .....	717,085	Dec. 30	4846	.....	101	2923
Casein phosphate. Making .....	J. A. Just .....	692,454	Feb. 4	405	.....	98	881
Casein solution .....	W. A. Hall .....	695,927	Mar. 25	2964	.....	98	2380
Cash and parcel carrier .....	N. Leblanc .....	714,202	Nov. 25	3404	749	101	1652
				750			
Cash-box .....	W. Knehaus and F. Püschel .....	692,151	Jan. 28	3359	760	98	746
				761			
Cash-box .....	J. J. Peetz .....	694,887	Mar. 4	1061	234	98	1936
Cash-carrier .....	D. Lippy .....	697,347	Apr. 8	1781	400	99	399
Cash-carrier .....	W. L. Churchill .....	713,059	Nov. 11	1121	258	101	1143
Cash-carrier .....	W. L. Churchill .....	713,060	Nov. 11	1123	258	101	1143
Cash-carrier .....	W. L. Churchill .....	713,557	Nov. 11	2131	477	101	1350
Cash-carrier-system pressure-creating device .....	W. G. Davis .....	714,874	Dec. 2	474	100	101	1931
Cash-receptacle for mechanical cashiers .....	111,619	Oct. 21	2352	514	101	518	
Cash-register .....	E. S. Smith and H. Giles .....	690,472	Jan. 7	173	36, 37	98	38
Cash-register .....	F. H. Bickford .....	690,554	Jan. 7	359	73	98	78
Cash-register .....	J. P. Cleal .....	690,561	Jan. 7	371	75, 76	98	80
Cash-register .....	J. P. Cleal .....	690,562	Jan. 7	374	77	98	81
Cash-register .....	F. W. Wright .....	693,205	Feb. 11	1882	407	98	1210
				408			
Cash register .....	J. P. Cleal .....	693,498	Feb. 18	2425	530	98	1345
Cash-register .....	J. P. Cleal .....	693,499	Feb. 18	2430	531	98	1346
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Invention.	Name.	No.	Date.	Monthly volume		Vol.	Official Gazette.
				Spec.	Dr. & Co.		
Cash-register	H. Hahn	693,816	Feb. 18	3021	667	98	1467
Cash-register	C. C. Stearns	694,035	Feb. 25	3490	668	98	1570
Cash-register	N. Collins	694,252	Feb. 25	3871	858	98	1655
Cash-register	W. J. Carroll	694,527	Mar. 4		859	98	1791
Cash-register	J. P. Cleal	694,729	Mar. 4	751	860	98	1870
Cash-register	G. H. Guest	694,853	Mar. 4	991	167	98	1923
Cash-register	W. Heinitz	695,151	Mar. 11	1567	169	98	2061
Cash-register	T. Carney	696,224	Mar. 25	3563	347	98	2502
Cash-register	F. P. Gorin	697,476	Apr. 15	2044	348	99	469
Cash-register	T. Carroll	697,981	Apr. 22	2972	451	99	680
Cash-register	J. P. Cleal	697,982	Apr. 22	2976	655	99	681
Cash-register	W. Knehaus and F. Püschel	698,967	Apr. 29	4898	656	99	1106
Cash-register	T. Carney	699,100	Apr. 29	5112	1083	99	1150
Cash-register	J. P. Cleal	700,171	May 20	2055	1131	99	1630
Cash-register	T. Carroll	700,479	May 20	2681	470	99	1758
Cash-register	A. W. Marr	700,525	May 20	2769	614	99	1777
Cash-register	E. H. Jahanz	700,778	May 27	3275	615	99	1902
Cash-register	T. Carney	700,896	May 27	3485	754	99	1943
Cash-register	R. P. Thompson. (Reissue)	12,000	June 10	1986	799	99	2384
Cash-register	I. S. Dement	703,188	June 24	3528	800	99	2885
Cash-register	R. W. Hudson	703,263	June 24	3660	801	99	2912
Cash-register	A. Gerdes	703,570	July 1	344	842	100	69
Cash-register	T. Carroll	703,639	July 1	475	841	100	93
Cash-register	H. S. Hallwood	704,796	July 15	2658	108	100	570
Cash-register	O. W. Hunsaker	705,353	July 22	3908	109	100	840
Cash-register	W. H. Bell	705,552	July 29	4346	110	100	940
Cash-register	E. S. Smith and C. A. Susstrong	705,619	July 29	4467	574	100	964
Cash-register	F. B. Barnard	707,195	Aug. 19	2290	576	100	1621
Cash-register	F. H. Bickford	707,380	Aug. 19	2627	586	100	1691
Cash-register	G. S. Green	707,408	Aug. 19	2683	593	100	1702
Cash-register	A. L. Wood	708,190	Sept. 2	356	606	100	2055
Cash-register	P. Yoe	708,449	Sept. 2	802	85	100	2143
Cash register	J. Schinneller	713,159	Nov. 11	1312	182	101	1183
Cash-register	R. J. Cary	713,205	Nov. 11	1401	184	101	1201
Cash-register	J. L. Roberts	713,243	Nov. 11	1474	296	101	1215
Cash-register	F. H. Bickford and E. B. Lock	713,387	Nov. 11	1799	297	101	1283
Cash-register	H. Pottin and L. Moussier	713,490	Nov. 11	1966	315	101	1318
Cash-register	J. F. Woodson and O. L. Lindsey	715,724	Dec. 9	2027	316	101	2268
Cash-register	F. C. Osborn	715,850	Dec. 16	2304	334	101	2346
Cash-register	J. A. Oswald	717,447	Dec. 30	5523	511	101	3065
Cash register and indicator	H. S. Hallwood	704,795	July 15	2646	512	100	568
Cash register and till	A. G. Macculloch and H. Dickinson	708,894	Sept. 9	1606	513	100	2335
Cash-register keyboard mechanism	I. S. Dement and F. J. Hull	710,258	Sept. 30	4390	514	100	2947
Cash-register shelf	S. Wessells	693,473	Feb. 18	2386	572	98	1337
Cash-registers. Locking device for the operating-cranks of	C. Laurick	707,603	Aug. 26	3063	584	100	1738
Cashier and register. Combined mechanical	I. S. Dement	700,748	May 27	3214	735	99	1888
Cashier. Mechanical	I. S. Dement and A. D. King	702,710	June 17	2605	736	99	2682
Cashier. Mechanical	I. S. Dement and F. J. Hull	711,151	Oct. 14	1441	737	101	315
Cashing sales accounts. Means for	F. E. Anderson	704,168	July 8	1508	738	100	317
Casing-head	C. F. Rigby	703,832	July 1	842	739	100	169

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Casing or tubing. Adjustable-grip elevator for	C. L. Smith	711,911	Oct. 21	2983	645	101	641
Casing-perforator	P. H. Mack	710,701	Oct. 7	574	121	101	118
Casing-point or strainer	A. E. Carlson	700,015	May 13	1706	393	99	1539
Cask-closing means	J. J. Henningsen	704,329	July 8	1790	391	100	376
Cask-handling device	F. L. Lumbert	692,206	Jan. 28	3457	781	98	768
Cask-making machine	O. Poland	695,230	Mar. 11	1713	379	98	2690
Cask or bottle filter	D. S. Campbell	715,018	Dec. 2	726	154	101	1983
Cask-pitching device	P. W. van de Westelaken	716,798	Dec. 23	4178	926	101	2755
Cask-support	W. Griesser	694,266	Feb. 25	3912	866	98	1662
Casks, barrels, or like vessels. Apparatus for lining	H. S. Russell	707,260	Aug. 19	2398	537	100	1643
Casket	C. N. Johnson	700,692	May 20	3075	698	99	1845
Casket. Adjustable couch	J. Ernst	706,398	Aug. 5	800	174	100	1276
Casket-handle attachment	H. Riegel	702,746	June 17	2673	615	99	2696
Casket-lid	N. Rapleyea and W. A. Sparks	714,699	Nov. 25	4154	918	101	1803
Casket-lowering device	H. B. Murdoch	703,949	July 1	1054	229	100	210
Casket ornament	E. R. Sargent	691,002	Jan. 14	1203	272	98	206
Casket-shrine	E. Stumpf	713,713	Nov. 18	2421	541	101	1426
Cast-off	E. T. Specht	705,622	July 29	4472	970	100	965
Caster	G. B. Magoun	697,735	Apr. 15	2518	561	99	564
Caster	S. H. Raymond	698,224	Apr. 22	3452	758	99	781
Caster	A. B. Diss. (Reissue)	11,982	May 6	367	292	99	137
Caster	N. Davis	699,702	May 13	1280	296	99	1450
Caster	J. P. Kelly	699,958	May 13	1624	372	99	1523
Caster	W. J. Sumner	706,209	Aug. 5	397	85	100	1198
Caster	D. Nickel	706,336	Aug. 5	666	145	100	1250
Caster	D. Nickel and P. B. Peterson	706,337	Aug. 5	668	145	100	1250
Caster	G. D. Clark	708,204	Sept. 2	381	91	101	241
Caster	M. Fisel	713,082	Nov. 11	1168	268	101	1153
Caster	E. C. Baynes	713,839	Nov. 18	2652	591	101	1475
Caster	M. G. Daniels	714,636	Nov. 25	4203	920	101	1811
Caster	E. W. Wainwright	715,629	Dec. 9	1847	411	101	2220
Caster	F. Buesser	716,807	Dec. 23	4197	919	101	2758
Caster. Ball	C. W. Corey	692,632	Feb. 4	731	169	98	850
Caster. Ball	T. Galvin	701,196	May 27	4080	928	99	201
Caster. Furniture	J. W. Kennedy	698,963	Apr. 29	4890	1080	99	1105
Caster. Furniture	W. J. Martin	708,895	Sept. 9	1671	384	100	2336
Caster. Furniture	G. A. Rentschler and J. Kaefer	715,866	Dec. 16	2353	520	101	2358
Caster-pintle	W. Livingstone	716,340	Dec. 16	3277	716	101	2550
Caster-socket	W. Livingstone	693,875	Feb. 25	3150	696	98	1510
Caster-socket	W. Livingstone	716,341	Dec. 16	3279	717	101	2550
Caster. Warehouse-truck	T. E. J. Schabily	696,490	Apr. 1	185	45	99	44
Casters, &c. Wheel or roller for	W. Livingstone	716,342	Dec. 16	3282	717	101	2551
Casting	F. Baldt, Sr.	703,171	June 24	3499	804	99	2879
Casting apparatus	A. M. Acklin	697,769	Apr. 15	2582	573	99	578
Casting apparatus	H. H. Franklin	702,194	June 10	1647	369	99	2464
Casting apparatus	P. Meehan	706,841	Aug. 12	1629	366	100	1468
Casting apparatus	D. T. Croxton. (Reissue)	12,027	Sept. 2	923	210	100	2169
Casting apparatus	D. T. and S. W. Croxton. (Reissue)	12,028	Sept. 9	1881	422	100	2368
Casting apparatus	C. S. Szekely	714,051	Nov. 18	3105	686	101	1571
Casting apparatus	H. G. Underwood	715,713	Dec. 9	3003	449	101	2263
Casting apparatus. Lead	C. Potter	694,418	Mar. 4	160	36	98	1747
Casting apparatus. Pig-iron	K. Orth	714,818	Dec. 2	329	72	101	1904
Casting-box	E. D. Tucker	709,942	Sept. 30	3776	853	100	2816
Casting car-wheels. Core for	L. R. Faught	700,313	May 20	2364	540	99	1693
Casting composition hand-stamps. Mold for	B. Chambers	713,961	Nov. 18	3385	719	101	1529
Casting-cores. Machine for making cylindrical	G. J. Hoskins	696,045	Mar. 25	3190	720	98	2426
Casting finished pinions or gear-wheels	L. J. Crecelius	716,870	Dec. 30	4427	960	101	2836
Casting-flask	C. A. Palmer	699,006	Apr. 29	4962	1099	99	1119
Casting ingots in continuous long lengths. Apparatus for	J. O. E. Trotz	705,721	July 29	4657	1010	100	1002
Casting-machine	H. L. Bock	698,434	Apr. 29	3811	841	99	871
Casting-machine	C. H. Veeder	698,590	Apr. 29	4081	902	99	927
Casting-machine	C. H. Veeder	698,591	Apr. 29	4087	904	99	928
Casting-machine	C. H. Veeder	698,596	Apr. 29	4123	908	99	935
Casting machine. Strip-metal	C. C. Webster	703,358	June 24	3834	882	99	2950
Casting-mold	J. J. Carroll	694,315	Feb. 25	4058	902	98	1685
Casting-mold	S. Michaloff	694,566	Mar. 4	432	97	99	1809
Casting-mold	E. D. Tucker	697,115	Apr. 8	1384	307	99	314
Casting mold. Brake-shoe	A. Brake	697,794	Apr. 15	2632	582	99	590
Casting pig metal. Mold-coating for apparatus for	J. M. Hartman	709,672	Sept. 23	3231	722	100	2692
Casting. Preparing cores for	A. M. Hewlett	712,532	Nov. 4	132	31	101	926
Casting rolled-iron finishing-rollers. Mold for	W. Gontermann	713,872	Nov. 18	2716	696	101	1488
Casting solid or hollow circular bodies	S. Michaloff	698,531	Apr. 29	3996	881	99	907
Casting. Truck-end	C. T. Westlake	706,789	Aug. 12	1537	345	100	1446
Castings. Annealing-receptacle for	A. W. McClary	708,384	Sept. 2	689	155	100	2121
Castings. Apparatus for marking	J. J. Carroll	691,442	Jan. 21	2046	458	98	461
Castings. Forming	C. H. Veeder	698,593	Apr. 29	4109	906	99	929
Castings. Metal-mold for forming	W. R. Clark, H. and W. G. Bosworth	695,090	Mar. 11	1442	320	98	2034
Castings. Metal-mold for forming	W. R. Clark, H. and W. G. Bosworth	695,091	Mar. 11	1444	320	98	2034
Castings of alloys containing copper and zinc. Improving	E. S. Sperry	694,688	Mar. 4	678	98	1855	
Castings. Preparing sand molds for steel	H. B. Atha	698,889	Apr. 29	4776	99	1080	



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Castings. Producing soft-metal	G. H. Brabrook	697,072	Apr. 22	2951	650	99	677
Catamenial appliance	T. Minard	715,112	Dec. 2	360	190	101	3019
Catamenial bandage	H. Bauer	694,538	Apr. 1	262	61	99	2011
Catamenial bandages	J. F. James and R. M. Kippen	709,293	Sept. 16	2330	528	100	2491
Catamenial bandages. Suspending device for	E. L. Scott	706,457	Aug. 5	922	200	100	1802
Catamenial sack	M. M. Spaulding	708,993	Sept. 9	1727	400	100	2348
Catch	D. W. McClay	708,908	Sept. 9	1685	388	100	2340
Catgut ligature and suture and preparing same	C. E. Parker	701,501	June 3	397	90	99	2100
Catheter. Embalming	W. W. Harris	707,775	Aug. 26	457	78	100	1878
Catheter or like instrument	E. P. McCall	701,075	May 27	3811	874	99	2011
Cattle-guard	E. T. Meador	689,925	May 13	1536	358	99	1310
Cattle-guard	M. L. Miller	709,105	Sept. 16	2105	483	100	2444
Cattle-guard	J. M. McMannama and J. N. Ballou	714,940	Dec. 2	602	126	101	1955
Cattle-guard	E. B. Washburn	710,500	Dec. 23	3905	788	101	2635
Cattle-guard	J. J. Crane	716,672	Dec. 23	3951	864	101	2798
Cattle-guard gate	J. Jackson	711,864	Oct. 21	2828	636	101	621
Cattle-holder	J. E. and W. Terrell and F. M. Montgomery	689,988	May 13	1672	384	99	1532
Cattle-probe	A. Nüesch	703,296	June 24	3706	853	99	2023
Cattle-tie and stanchion	D. C. Markham	699,201	May 6	128	38	99	1202
Caustic. Producing	H. K. Moore	703,280	June 24	3697	852	99	2020
Cautery. Electric	W. E. Washburn	712,989	Nov. 4	983	230	101	1097
Cautery. Electric instrument for	W. B. Batcheller	703,369	July 1	10	3	100	4
Ceiling	J. Freckmann	690,646	Jan. 7	539	117	98	115
Ceiling-block	C. W. Dixon	699,914	May 13	1537	354	99	1507
Ceiling-plate attachment	A. H. Muus	704,562	July 15	2252	488	100	486
Ceiling-rosette for drop-lights	C. F. Lewis	710,787	Oct. 7	756	160	101	155
Ceiling structure composed of beton and iron	F. Hennebique	707,924	Aug. 26	3755	842	100	1387
Ceilings and walls. Construction of	A. Kincklake	693,905	Feb. 25	3318	710	98	1524
Celery-bunching device	L. P. Pappas and M. Weber	708,643	Aug. 12	1244	275	100	1285
Cel-box. Collapsible	W. H. Ferguson	717,069	Dec. 30	4851	1051	101	2034
Cells, vaults, &c. Lining for	D. F. Youngblood	714,349	Nov. 25	3679	811	101	1707
Celluloid articles. Manufacture of	J. Hackenberg	699,516	May 6	729	170	99	1936
Celluloid. Mounting stones, &c., in	M. H. Brown	714,447	Nov. 25	3859	838	101	1742
Cellulose acetate. Making	M. W. Boesch	708,456	Sept. 2	823	190	100	2148
Cellulose esters. Making	H. S. Mork, A. D. Little, and W. H. Walker	708,922	Sept. 30	3742	.....	100	2810
Cellulose esters. Purifying	B. W. Boesch	708,457	Sept. 2	824	.....	100	2148
Cellulose fabrics. Manufacturing improved	A. J. Hill	705,244	July 22	3651	.....	100	780
Cellulose lakes and making same	M. C. L. Althausse	692,775	Feb. 4	981	.....	98	998
Cellulose. Machine for separating and cleaning corn	B. G. Krapf	700,055	May 13	1788	414	99	1556
Cellulose. Making acetyl-	M. C. L. Althausse	692,497	Feb. 4	485	.....	98	898
Cellulose. Manufacture of threads, &c., from	M. Fremery and J. Urban	691,257	Jan. 14	1656	.....	98	301
Cellulose. Manufacturing filaments from	C. H. Stearn	716,778	Dec. 23	4139	.....	100	3749
Cellulose products. Manufacture of	M. Fremery and J. Urban	705,748	July 29	4709	.....	100	1011
Cellulose solutions. Obtaining threads from	E. Bronnert, M. Fremery, and J. Urban	698,254	Apr. 22	3503	.....	99	91
Cement	J. T. McKim	704,849	July 15	2764	.....	100	592
Cement. Adhesive	J. T. Slough	708,651	Sept. 23	3192	.....	100	2083
Cement and making same. Adhesive	R. H. Willis	693,045	Feb. 25	3512	.....	98	1382
Cement. Apparatus for the manufacture of	R. F. Wentz	714,843	Dec. 2	397	84	101	1915
Cement blocks. Core for making	R. B. Coltrin	715,986	Dec. 16	2580	570	101	2406
Cement. Casting	W. Perry	714,647	Nov. 25	4221	.....	101	1815
Cement clinker or other granular materials. Apparatus for cooling	C. L. Galschiöt	694,958	Mar. 11	1199	262	98	1983
Cement. Composition of matter for	J. D. MacDonell	691,397	Jan. 21	1973	.....	98	446
Cement fence-posts. Making	E. Davies	703,644	July 1	490	111	100	96
Cement-gravel crusher and separator	C. H. Ohm	695,076	Mar. 11	1422	312	98	2630
Cement. Making	O. Fritz	698,268	Apr. 22	3533	.....	99	798
Cement. Making	F. G. Jordan	702,009	June 10	1303	.....	99	2303
Cement. Manufacture of	J. Steiger	694,802	Mar. 4	890	.....	98	1902
Cement. Manufacturing	R. F. Wentz	714,842	Dec. 2	390	84	101	1913
Cement-mixing machine	T. W. Connolly	710,760	Oct. 7	697	147	101	143
Cement. Strengthened cast	J. Daime	690,840	Jan. 7	902	200	98	191
Cementing-machine	G. Julian	698,962	Apr. 29	4888	1080	99	1105
Center-iron and lap-ring	P. H. De Rochemont	701,168	May 27	3985	916	99	2050
Center. Temporary	J. O'Neil	710,506	Oct. 7	218	47	101	44
Centering-gage	I. A. White	715,445	Dec. 9	1503	323	101	2162
Centering-machine	L. E. Whiton	698,608	Apr. 29	4158	915	99	942
Centrifugal apparatus	A. Holland	716,711	Dec. 23	4019	880	101	2722
Centrifugal coupling	R. Pintsch	704,575	July 15	2270	492	100	490
Centrifugal extractor	H. A. Peterson	710,097	Oct. 7	406	84	101	81
Centrifugal machine	J. J. Berrigan	695,184	Mar. 11	1579	353	98	2045
Centrifugal machine	W. J. Berrigan	696,130	Mar. 25	3370	761	98	2465
Centrifugal machine	A. Kaczorowski	697,255	Apr. 8	1631	366	99	367
Centrifugal machine	O. Ohlsson	699,003	Apr. 29	4958	1098	99	1118
Centrifugal machine	H. McCormack	699,217	May 6	152	38	99	1206
Centrifugal machine	L. Hirt	691,321	May 6	365	86	99	1218
Centrifugal machine	A. Holland	708,729	July 6	655	145	100	131
Centrifugal machine	H. P. Lafferty	695,184	Aug. 19	2884	686	100	1745
Centrifugal machine	H. B. Wolf	712,628	Nov. 4	317	74	101	964
Centrifugal machines. Froth-condenser for	J. L. Bergh	715,947	Dec. 16	2511	553	101	2392
Centrifugal mill	O. Gaiser	715,473	Dec. 9	1561	339	101	2173
Centrifugal separator	P. E. Siedel	698,332	Apr. 22	3629	802	99	817
Centrifugal separator	J. L. Kimball	702,441	June 17	2096	477	99	2575
Centrifugal separator	I. V. Holmes	702,795	June 17	2764	696	99	2715
Centrifugal separator	A. Ten Winkel	703,680	July 1	459	105	100	90
Centrifugal separator	C. Friesleben	705,066	July 23	3254	704	100	708
Centrifugal separator	H. McCormack	706,087	Aug. 5	163	33.31	100	1150
Centrifugal separator	J. P. Hultgren	708,643	Sept. 9	1161	264	100	2228

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Centrifugal separator	W. B. Smith	710,626	Oct. 7	445	93	101	80
Centrifugal separator	P. L. Kimball	712,310	Oct. 28	3670	801	101	806
Ceramic products. Manufacture of	M. Buchner	700,673	May 20	3014		99	1830
Ceramic-ware kiln	W. E. Rivers	693,155	Feb. 11	1762	387	98	1185
Chafe-iron. Antifriction	J. B. Gaston	693,699	Feb. 18	2821	620	98	1425
Chafe-iron. Roller	T. H. Brady	695,631	Mar. 18	2439	550	98	2257
Chaffer or sieve. Adjustable	F. Hixson	694,148	Feb. 25	3077	813	98	1616
Chaffing-dish heater and support	L. M. Taylor	713,531	Nov. 11	2082	465	101	1340
Chain	L. D. Howard	702,874	June 17	2910	673	99	2746
Chain	C. W. Levalley	713,120	Nov. 11	1243	283	101	1170
Chain belts. Machine for assembling links in making	J. C. Howe	705,842	July 29	4862	1056	100	1044
Chain. Conveyor	G. W. Cross	694,533	Mar. 4	386	85	98	1794
Chain. Conveyor	J. G. Scott and J. C. Brecker	708,924	Sept. 9	1714	396	100	2345
Chain. Drive	C. W. Levalley	694,870	Mar. 4	1030	328	98	1930
Chain. Drive	C. W. Levalley	706,427	Aug. 5	856	188	100	1287
Chain. Drive	C. W. Hunt	713,102	Nov. 11	1211	277	101	1163
Chain. Drive	J. M. Dodge	715,562	Dec. 9	1744	385	101	2948
Chain. Driving	A. H. Grandjean and E. J. Bouvier	709,149	Sept. 16	2180	499	100	1460
Chain. Endless conveyor	J. Dick	690,334	Jan. 14	1060	240	98	240
Chain. Halter	S. M. Wells, Jr.	690,801	Jan. 7	839	185	98	177
Chain hook. Ornamental	J. H. Swift	717,470	Dec. 30	5566	1208	101	3074
Chain-jack	H. S. Phillips	693,668	Feb. 18	2759	608	98	1413
Chain-link	A. Palmros	697,165	Apr. 8	1469	329	99	331
Chain-link	T. G. Aultman	697,190	Apr. 8	1518	339	99	342
Chain-machine	H. R. Fenner	715,775	Dec. 16	2144	480	101	2312
Chain-making apparatus	J. Giriot	704,185	July 8	1545	333	100	321
Chain-making machine	W. L. Judson	699,760	May 13	1218	284	99	1438
Chain-making machine	L. Wirtz	707,750	Aug. 26	3401	767	100	1896
Chain-making machine	A. S. Standish	717,462	Dec. 30	5547	1205	101	3071
Chain or guard. Watch	J. J. Rice	692,547	Feb. 4	587	138	98	1918
Chain protection. Driving	E. Catchpool	702,775	June 17	2731	627	99	2708
Chain retaining and releasing means	J. J. Galway	702,549	June 17	2291	522	99	2617
Chain-wheel	F. L. Morse	698,991	Apr. 29	4030	1093	99	1115
Chain wrench	G. Amborn, Jr.	698,779	Apr. 29	4511	997	99	1021
Chain wrench	G. W. Bufford	698,794	Apr. 29	4539	1014	99	1026
Chain wrench	J. J. Seeman	710,719	Oct. 7	615	129	101	126
Chain wrench	D. B. Brown and W. McDermott	712,253	Oct. 24	3573	781	101	786
Chains. Casting	F. Baldt, Sr.	703,170	June 24	3498	803	99	2878
Chains. Mechanism for securing lags to carrier	C. G. Carlson and A. Tunall	700,016	May 13	1710	393	99	1540
Chains or other traction means. Automatic tension device for	M. T. A. Kubierschky	706,962	Aug. 12	1847	413	100	1510
Chains, &c. Temporary coupling for	S. Smith	703,843	July 1	862	180	100	173
Chair:							
See Adjustable chair.	Railway-coach chair.						
Adjustable-back chair.	Reclining-chair.						
Barber-chair.	Revolving chair.						
Car-chair.	Revolving reclining and rocking chair.						
Combination-chair.	Rocking-chair.						
Convertible chair.	Rocking and reclining chair.						
Dental chair.	Rotary and folding chair.						
Folding chair.	Scaffold-chair.						
Hand-propelled chair.	Swinging chair.						
High chair.	Swiveled chair.						
Invalid reclining-chair.	Theater-chair.						
Knockdown chair.	Tilting-chair.						
Mine-cage chair.	Window-chair.						
Opera-chair.	Window-cleaning chair.						
Opera-chair.	Type-writer chair.						
Chair	R. Rodgers	693,323	Feb. 11	2033	455	98	1252
Chair	O. L. Beardsley	694,457	Mar. 4	231	50	98	1761
Chair	A. M. Smutz	697,372	Apr. 8	1820	408	99	407
Chair	A. J. Peddy	699,810	May 13	1312	305	99	1458
Chair	J. F. Moore	700,067	May 13	1807	419	99	1560
Chair	S. M. Hudson	701,728	June 3	812	179	99	2277
Chair	A. J. Morley	702,234	June 10	1712	386	99	2477
Chair	H. W. Bolens	702,768	June 17	2730	624	99	2706
Chair	H. P. Blackard	703,227	June 24	3606	829	99	2901
Chair	J. O'Connor	708,911	Sept. 9	1695	390	100	2341
Chair	G. F. Clingman	714,675	Dec. 2	41	9	101	1846
Chair	J. E. Gilson	715,258	Dec. 9	1162	248	101	2092
Chair	A. Brubaker	715,346	Dec. 9	1332	287	101	2128
Chair	O. L. Ostendorf	717,026	Dec. 30	4736	1027	101	2899
Chair and cradle. Combined	A. Nadeau	700,545	May 20	2804	641	99	1784
Chair attachment	A. H. Hunting	696,680	Apr. 1	536	123	99	116
Chair attachment	A. M. Richards	704,109	July 8	1392	300	100	293
Chair attachment	A. M. Shauk	710,526	Oct. 7	259	58	101	53
Chair attachment. Rocking	D. F. Clifford	702,632	June 17	2465	565	99	2653
Chair-brace	A. Gruenwald	704,187	July 8	1547	333	100	324
Chair fan attachment. Rocking	E. O. M. Haberacker	705,399	July 22	2983	683	100	855
Chair fan attachment. Rocking	J. S. McKeever	708,905	Sept. 9	1688	389	100	2340
Chair-fastening device	A. P. Barney	712,898	Nov. 4	819	190	101	1065
Chair foot-rest	W. D. Grosjean	710,321	Sept. 30	4495	1013	100	2970
Chair foot-rest	J. C. Garrett	713,628	Nov. 18	2271	505	101	1394
Chair foot-rest	J. S. Kenny	715,667	Dec. 9	1920	429	101	2215



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr-g.	Vol.	Page.
Chair foot-rest attachment	W. A. Eddy	694,598	Mar. 4	394	86	98	1796
Chair for therapeutic purposes	J. J. Stanger	692,554	Feb. 4	595	139	98	919
Chair head-rest	B. Pickering	711,259	Oct. 14	1661	358	101	360
Chair-seat and making it	H. B. Morris	714,730	Dec. 2	152	30	101	1868
Chair-seat-surfacing machine	C. A. Stark	714,529	Nov. 25	4005	886	101	1772
Chair-seats. Making	H. B. Morris	711,580	Oct. 21	2272	493	101	502
Chair-spider	H. W. Bolens	702,760	June 17	3732	625	99	2707
Chair-support	F. M. Mikkan	702,983	June 24	3143	723	99	2810
Chair-tip	G. C. Scott	698,228	Apr. 22	3458	759	99	782
Chair-truck	R. and F. E. Bigelow	695,368	Mar. 11	1950	434	98	2139
Chair wheel attachment. Child's high-	I. M. Clark	691,532	Jan. 21	2200	494	98	493
Chairs, cradles, &c. Attachment for	L. M. Sartain	694,426	Mar. 4	176	38	98	1750
Chairs. Fan for rocking	G. J. Peacock	716,469	Dec. 23	3545	775	101	2622
Chairs. Means for cutting saddle-seat bottoms for	F. O. Mechlin	706,070	Aug. 5	150	31	100	1147
Chalk, &c. Device for holding	F. R. C. Rutz	703,478	July 1	184	43	100	39
Chalk-line self-chalking holder	W. C. Filson	712,283	Oct. 28	3624	792	101	797
Champagne-freezer	J. Trafford	714,415	Nov. 25	3795	838	101	1730
Change-feed mechanism	J. Edgar	714,567	Nov. 25	4067	900	101	1785
Change-making machine	P. H. Stedman	709,521	Sept. 23	2980	654	100	2641
Change-receiver	C. V. Smith	697,108	Apr. 8	1375	305	99	312
Changer	J. Thomson	715,902	Dec. 16	2416	535	101	2371
Chancier	J. Thomson	715,738	Dec. 30	4943	1072	101	2343
Channeling-machine	A. B. Fowler	707,576	Aug. 26	3019	679	100	1778
Chaplet	J. P. McCoy and W. V. Lukens	713,571	Nov. 11	2158	482	101	1355
Charcoal-furnace. Fire-clay	C. J. Koch	715,392	Dec. 9	1409	304	101	2143
Charcoal-heater	T. O'Brien	700,228	May 20	2138	499	99	1657
Charcoal-manufacturing apparatus	C. J. T. Burcey	701,145	May 27	3948	909	99	2011
Charging-buggy	O. Sunlt	694,436	Aug. 26	3269	730	100	1840
Charging-switch	M. Hutchison	707,639	Aug. 26	3269	730	100	1840
Chart. Adjustable	H. S. Chandler	708,754	Sept. 9	1367	312	100	2272
Chart. Adjustable dress	J. H. Choquette	700,739	May 27	3185	726	99	1882
Chart. Dress	M. L. Avery	705,194	July 22	3520	764	100	763
Chart for recording ancestry	G. Guild	699,739	May 13	1296	309	99	1454
Chart. Graphic	J. M. Daly	715,198	Dec. 2	1049	226	101	2051
Chart. Reading	O. E. Cone	717,168	Dec. 30	5010	1087	101	2358
Chatelaine-bag hook	M. T. Goldsmith	693,264	Feb. 11	1982	431	98	1231
Chatelaine-catch	J. E. Ortnier	691,566	Jan. 21	2253	507	98	504
Chatelaine-clasp	J. Ritter	704,212	July 8	1585	342	100	332
Chatelaine-frame and lock or catch therefor	A. Weber	692,807	Feb. 4	1050	236	98	1010
Chatelaine-holder	T. H. Fishel	690,509	Jan. 7	386	79	98	84
Chatelaine-hook	L. B. Prahar	693,739	Feb. 18	2889	635	98	1440
Chatelaine-hook	L. B. Prahar	703,820	July 1	827	182	100	166
Chatelaine-hook	L. B. Prahar	703,821	July 1	829	182	100	166
Chatelaine-hook	L. B. Prahar	703,822	July 1	831	183	100	166
Check-hook	S. F. Hall	695,890	Mar. 18	2474	652	98	2348
Check-hook	E. Harrison and J. A. Platts	696,674	Apr. 1	526	121	99	114
Check-hook keeper	F. J. Hull	707,538	Aug. 23	2926	682	100	1770
Check-lock. Automatic	H. W. Demison	709,441	Sept. 16	2170	497	100	2458
Check-perforating machine	F. Avery	709,458	Sept. 23	2826	634	100	2607
Check-perforator	M. Keane	709,775	Sept. 23	3439	774	100	2734
Check-severing device	F. J. Hull	710,360	Sept. 30	4561	1029	100	2983
Checks, &c. Means for certifying	J. S. Alexander	707,891	Aug. 26	3693	830	100	1923
Checks, tickets, &c. Device for transferring	J. C. Wolfe	692,577	Feb. 4	627	148	98	626
Checker	F. R. Mease	711,930	Dec. 2	581	123	101	1532
Checking apparatus for restaurants or the like	A. Nelson	715,122	Dec. 2	907	194	101	2022
Checking-machine	F. R. Wainwright	705,494	July 22	4159	905	100	890
Checkrein	C. B. Henry	704,636	July 15	2364	514	100	509
Checkrein	G. McElroy	714,014	Nov. 18	3000	668	101	1549
Checkrein-holder	W. Gates	692,132	Jan. 28	3329	754	98	741
Checkrein-hook	G. W. Begole	691,836	Jan. 28	2798	629	98	634
Checkrein-hook	J. P. Ketteringham	709,778	Sept. 23	3443	774	100	2734
Checkreins. Elastic connection for	J. M. Chaffin	707,388	Aug. 19	2644	597	100	1685
Check-expanding pad	T. C. Best	712,354	Oct. 28	3749	820	101	623
Cheese-box	M. B. Robins	693,505	Feb. 18	2844	636	98	1372
Cheese-box	W. A. Simister	694,798	Mar. 4	805	199	98	1901
Cheese-box trimmer	H. W. Quade	697,885	Apr. 15	2792	618	99	626
Cheese-cutter	A. McIntosh	693,424	Feb. 18	2236	501	98	1316
Cheese-cutter	W. J. Spillman	701,098	May 27	3853	886	99	2020
Cheese-cutter	E. Niggli	701,924	June 10	1142	262	99	2362
Cheese-cutter	F. May	706,328	Aug. 5	653	142	100	1247
Cheese-cutter	W. G. Doty	710,672	Aug. 19	3208	650	101	107
Cheese-cutter	W. G. Templeton	713,532	Nov. 11	2083	466	101	1340
Cheese-cutter	E. Niggli	717,446	Dec. 30	5521	1199	101	3065
Cheese-hoop	E. J. Piggott	706,104	Aug. 5	187	39	100	1155
Cheese-knife	M. W. Miracle	711,908	Oct. 21	2927	644	101	640
Cheese. Manufacture of	F. A. Hurd	707,698	Aug. 26	3268	730	100	1840
Cheese-marker	J. W. Offinger	707,528	Aug. 19	3208	650	100	1748
Cheese-press	M. McKinnon	690,985	Jan. 14	1170	265	98	260
Cheese-press	M. McKinnon	698,728	Apr. 29	4430	977	99	1008
Chemical apparatus	R. A. Wesener	700,268	May 20	2256	515	99	1674
Chemical apparatus	J. C. Robinson	706,784	Aug. 12	1528	339	100	1445
Chemicals in electric furnaces. Producing	E. R. Taylor	702,117	June 10	1505	339	99	2435
Chenille-cloth-cutting machine	P. McDonald	714,646	Nov. 25	4230	933	101	1815
Chenille-spotting machine	L. O. Trivett and F. Randall	709,587	Sept. 23	3085	687	100	2662
Chenille. Woven	T. F. and A. Naylor	704,083	July 8	1328	289	100	278

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Invention.	Name.	No.	Date.	Monthly Volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Cherries or other single-stoned fruit. Machine for removing stones from	W. P. Harris	704,876	July 15	2809	609	100	601
Cherry-stoner	C. P. Mosher	690,983	Jan. 14	1168	264	98	250
Chests and ranges. Locking device for mess	G. E. Donavin	692,639	Feb. 4	744	172	98	952
Child's safety-harness	C. J. Schreck	703,483	July 1	191	46	100	40
Child's seat	J. Clarin	711,824	Oct. 21	2751	608	101	603
Chilian mill	G. F. Waddell and W. J. Evans	709,689	Sept. 23	3260	730	100	2607
Chimney	J. B. Kenison, M. F. Burk, and J. A. Perkins	692,304	Feb. 4	149	35	98	820
Chimney	G. Steidl	693,755	Feb. 18	2912	640	98	1444
Chimney and ventilator	W. Davis	696,724	Apr. 1	626	140	99	135
Chimney-cap	A. T. Cox	693,951	Feb. 25	3306	726	98	1541
Chimney-cap	C. J. Quinn	695,170	Mar. 11	1602	355	98	2068
Chimney-cap. Revolving	A. E. and F. J. Cook	702,779	June 17	2736	029	99	2709
Chimney-cowl	C. O. Hine and F. G. Waters	711,497	Oct. 21	3114	459	101	469
Chimney-cowl or ventilator	J. F. Lyman	700,588	May 20	2888	651	99	1791
Chimney or other curved fireproof structure	P. Brander	709,869	Sept. 30	3615	817	100	2785
Chimney-thimble	C. F. Schroth	690,778	Jan. 7	791	176	98	167
Chimney-top	C. J. Quinn	706,450	Aug. 5	912	198	100	1300
Chimney-top	R. C. Duggan	713,409	Nov. 11	1829	412	101	1289
Chimney-top. Adjustable	C. E. Burriss	693,539	Feb. 18	2508	551	98	1361
Chimney-ventilator	C. D. Smith	697,180	Apr. 8	1494	334	99	337
Chimneys, walls, &c. Construction of.	J. F. Lyman	716,446	Dec. 23	3501	705	101	2613
Chisel. Bush	J. W. McClure	703,950	July 1	1056	229	100	210
Chloranisidin	P. Julius and F. M. Jahrmarkt	695,812	Mar. 18	2750	.....	98	2321
Chlorates and perchlorates. Electrolytic manufacture of	P. L. E. Lederlin	693,035	Feb. 11	1499	.....	98	1135
Chlorates. Manufacturing	R. Threlfall	716,789	Dec. 23	4159	912	101	2752
Chlorin and alkali. Electrolytic apparatus for the production of	J. Maetear	705,364	July 22	3700	802	100	797
Chlorin and alkaline hydrates electrolytically. Production of	E. D. Chaplin and H. G. Halloran	695,033	Mar. 11	1342	205	98	2013
Chock	R. A. Bockhoop	702,180	June 10	1630	364	99	2461
Chocolate-coating machine	J. L. Derr	691,610	Jan. 21	3346	527	98	521
Chocolate coating or dipping machine	G. J. Hicks	707,777	Aug. 26	3459	779	100	1878
Chocolate-cutter	J. F. Wynkoop	713,270	Nov. 11	1551	781	101	1230
Chopper. See Cotton-chopper. Plant-chopper. Food-chopper. Stalk-chopper. Neat-chopper.							
Chopping-knife. Culinary	E. C. Phillips	697,167	Apr. 8	1474	330	99	333
Chopping-knife. Hand	A. A. Flagg	697,615	Apr. 15	3294	513	99	519
Christmas-tree holder	F. H. Crum	703,554	July 1	321	72	100	65
Christmas-tree holder	J. C. Kimsey	711,217	Oct. 14	1593	342	101	346
Christmas-tree stand	W. Cook	710,762	Oct. 7	700	147	101	143
Chromatrope. Automatic	G. Wells	693,317	Feb. 11	2071	453	98	1250
Chuck	Z. T. Furbush	693,256	Feb. 11	1908	428	98	1229
Chuck	J. Hartness	696,634	Apr. 1	431	101	99	94
Chuck	C. H. Reid	706,735	Sept. 9	1330	303	100	2264
Chuck	F. A. Errington	715,252	Dec. 9	1152	247	101	2089
Chuck and countersink. Combined	J. J. Bell	716,177	Dec. 16	2955	649	101	2484
Chuck. Bur-	T. R. Tierce	706,703	Aug. 12	1349	301	100	1408
Chuck. Drill	J. A. Craig	691,449	Jan. 21	2056	460	98	463
Chuck. Drill	A. S. Davis	692,988	Feb. 11	1427	210	98	1118
Chuck. Drill	W. I. Jacobs	709,014	Sept. 16	1919	440	100	2404
Chuck. Drill	A. J. Studnicka	709,061	Sept. 16	2013	459	100	2423
Chuck. Drill and lathe	O. M. Mowat	713,478	Nov. 11	1946	440	101	1314
Chuck. Friction drill	C. C. Roberts	715,298	Dec. 9	1238	264	101	2109
Chuck. Lathe	J. C. Potter and J. Johnston. (Re-issue.)	12,068	Dec. 23	4391	951	101	2811
Chuck. Magnetic	O. S. Walker	691,828	Jan. 28	2784	626	98	631
Chuck. Nail	691,725	Jan. 21	5557	572	98	568	
Chuck. Nipple	W. G. Leas	698,718	Apr. 29	4416	974	99	1000
Chuck operating and feeding device	B. M. W. Hanson	714,895	Dec. 2	514	107	101	1938
Chuck-operating device	J. C. Potter and J. Johnston	694,189	Feb. 25	3773	834	98	1634
Chuck. Planer	S. E. Walling	715,326	Dec. 9	1292	277	101	2120
Chuck. Punch	H. O'Brien	696,745	Apr. 1	605	151	98	143
Chuck. Rock-drill	W. E. Brien	691,985	Jan. 29	3059	437	98	687
Chuck. Rock-drill	R. H. Hamill	695,388	Jan. 11	1979	443	98	2145
Chuck. Rock-drill	M. McHale and J. Trainner	704,081	July 8	1326	289	100	278
Chuck. Rock-drill	F. E. Forster	695,921	Mar. 25	2957	670	98	2378
Chuck. Rock-drill	J. S. Fitzhugh	692,182	Jan. 28	3412	773	98	758
Chuck. Rock-drill	S. P. A. Andersson	694,126	Feb. 25	3640	805	98	1609
Chuck. Rock-drill	N. Boren	695,190	Mar. 11	1628	361	99	1731
Chuck. Rock-drill	O. A. Kitch	696,396	Mar. 25	2962	674	98	2383
Chuck. Rock-drill	C. Highers	696,042	Mar. 25	3186	719	98	2425
Chuck. Rock-drill	F. W. Lippold	697,152	Apr. 8	1448	334	99	327
Chuck. Rock-drill	J. Groendyke	697,204	Apr. 8	1543	345	99	347
Chuck. Rock-drill	J. M. Harper	697,715	Apr. 15	2486	555	99	557
Chuck. Rock-drill	O. Heinrichs	699,521	May 6	737	172	99	1328
Chuck. Rock-drill	M. M. Sweetman	700,385	May 20	2504	574	99	1521
Chuck. Rock-drill	O. A. Dahl	701,304	June 3	41	9	99	2117
Chuck. Rock-drill	J. W. Powell	702,905	June 24	3161	727	99	2814
Chuck. Rock-drill	J. Dempster and W. S. Bradley	705,219	July 23	3587	776	100	776
Chuck. Rock-drill	A. Close	706,023	Aug. 5	35	7	100	1123
Chuck. Rock-drill	J. B. Riggins and H. Gordan	708,665	Sept. 9	1199	273	100	2335
Chuck. Rock-drill	A. Mitchell	709,497	Sept. 23	2917	650	100	2627
Chuck. Rock-drill	E. E. Dail	710,436	Oct. 7	67	16	101	16
Chuck. Rock-drill	P. S. Henthorn	711,106	Oct. 14	1355	294	101	295
Chuck. Rock-drill	A. C. Enoch	713,293	Nov. 11	1626	367	101	1245
Chuck. Rock-drill	H. C. Meeker	716,566	Dec. 23	3759	817	101	2667



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Page.	Vol.	Page.
Churn and butter-worker. Combined	T. J. Howe	700,775	May 27	3269	749	99	1901
Churn. Centrifugal.	W. B. Chalfant	709,137	Sept. 16	2164	496	100	2457
Churn-cover	T. H. B. Van Hoozer	701,234	May 27	4101	944	99	2672
Churn-dasher. Double reciprocating	E. M. Kyle	713,801	Nov. 18	2767	615	101	1500
Churn-power	J. A. Maddox	704,044	July 8	1987	270	100	371
Churn. Rotary	W. D. Carson	699,101	Apr. 29	5115	1131	99	1151
Churn-shield	I. H. Whitely and J. R. Yocom	691,222	Jan. 14	1588	362	98	346
Churns. Mechanism for operating vibrating	M. Cooper	696,044	Apr. 8	1080	239	99	249
Chute	C. Law	691,279	Jan. 14	1695	385	98	398
Chute	W. L. McCabe	695,329	Mar. 11	1886	419	98	1114
Chute	V. B. Johnson	696,083	Apr. 1	540	234	99	117
Chute	C. Law	705,365	July 22	3933	892	100	844
Chute	F. L. Sackett	708,081	Sept. 2	151	36	100	212
Chute	F. L. Sackett	708,082	Sept. 2	153	36, 37	100	212
Chute. Adjustable loading	L. Rosenfeld	709,609	Sept. 23	3123	696	100	2670
Chute and automatically opening or closing door for air-tight chambers.	S. P. Stevenson	714,619	Nov. 25	4177	924	101	1806
Chute and discharge gate	H. L. Dunn	712,661	Nov. 4	373	86	101	976
Chute and trap-door. Ore	J. A. Lindall and N. Mattson	700,189	May 27	3290	755	99	1905
Chute. Coal	W. H. Simms	701,227	May 27	4089	941	99	3670
Chute. Coal	W. H. Taylor	709,373	Sept. 16	2649	504	100	2559
Chute for buildings. Dust	J. C. Kimsey	691,149	Jan. 14	1453	331	98	318
Chute for loading wheat or flour on ships	F. W. Brink	707,297	Aug. 19	2479	557	100	1690
Chute. Swinging animal	E. Myers	705,118	July 22	3963	729	100	730
Cider and fruit press	H. Bender	692,228	Feb. 4	10	23	98	800
Cider-mill apple-crusher	J. F. McDonald	690,219	May 6	154	38, 39	99	1207
Cigar	J. D. Tynen	694,217	Feb. 25	3819	845	98	1613
Cigar	E. A. Kline	711,250	Oct. 14	1650	355	101	338
Cigar and cigarette holding device	W. Baumeister and S. Adler	710,057	Oct. 7	500	1104	101	101
Cigar-band	M. Regensburg	715,512	Dec. 9	1631	353	101	2186
Cigar-box lid-holder	E. C. Young	710,749	Oct. 7	301	65	101	90
Cigar-box. Moisture-proof	F. A. Morten	704,962	July 15	2835	619	100	112
Cigar-box-opening implement	F. R. Diaz	695,672	Mar. 18	2501	568	98	2270
Cigar-bunch-rolling machine	G. W. Arnold and W. M. Cranston	707,536	Aug. 26	2929	663	100	1779
Cigar-bunch-shaping device	E. Pisko	693,430	Feb. 18	2366	506	98	1082
Cigar-bunch-wrapping machine	F. L. Herrington	698,835	Apr. 29	4675	1030	99	1062
Cigar-bunching machine	A. Gordon	693,205	Feb. 11	1983	431	98	1230
Cigar-bunching machine	G. H. Tingley	693,535	Feb. 18	2498	550	98	1360
Cigar-bunching machine	M. M. Gardner	694,625	Mar. 4	549	121	98	1829
Cigar-bunching machine	P. H. Fratz	696,292	Mar. 25	3578	800	98	2505
Cigar-bunching machine	M. M. Gardner	692,674	May 13	1049	245	99	1405
Cigar-bunching machine	M. M. Gardner	704,742	July 15	2558	551	100	1099
Cigar-bunching machine	J. H. Schmidt	705,440	July 22	4060	885	100	874
Cigar-bunching machine	W. Weierbach and E. S. Dickson	707,742	Aug. 26	3360	759	100	1860
Cigar-bunching machine	J. R. Williams	707,748	Aug. 26	3386	763	100	1864
Cigar-bunching machines. Tobacco-conveying device for	J. R. Schmitt	710,018	Sept. 30	3925	889	100	2848
Cigar-case	J. C. Burkholder	712,647	Nov. 4	352	81	101	971
Cigar-clipper and match-lighter	R. E. Jack	700,331	May 29	2393	547	99	1699
Cigar-cutter	J. C. F. Dick	709,209	Sept. 16	2296	525	100	2486
Cigar-cutter	J. H. Bowen	710,693	Oct. 7	514	105	101	104
Cigar-cutter	K. Stecke	715,315	Dec. 9	1274	229	101	2117
Cigar-cutter and match-igniter	A. R. T. Miller	710,792	Oct. 7	763	103	101	156
Cigar-cutter and match-safe	J. P. Taylor	698,132	Apr. 22	3319	725	99	752
Cigar exhibiting and vending apparatus. Coin-controlled	D. M. Winans	701,978	June 10	1240	282	99	2383
Cigar gage and butt-cutter	W. Hedley	700,036	Aug. 12	1799	462	100	1501
Cigar-holder	L. Muller	692,026	Jan. 28	3132	705	98	700
Cigar-holder and ash-receiver	C. D. Ross	717,281	Dec. 30	5237	1132	101	3485
Cigar-lighter	W. F. Kessler	702,438	June 17	2762	477	99	2575
Cigar-lighter. Electric	J. M. Althouse	694,311	Feb. 25	4052	900	98	1684
Cigar-lighter. Electric	W. F. Kessler	702,437	June 17	2660	476	99	2574
Cigar-machine	H. A. Schneekloth	693,626	Feb. 18	2682	592	98	1396
Cigar-machine	J. S. Winget	696,607	May 6	905	212	99	1362
Cigar-machine	T. E. Carpenter	703,179	June 24	3507	807	99	2881
Cigar-machine	H. A. Schneekloth	705,872	July 29	4017	1170	100	1605
Cigar-machine	W. A. Turner	709,943	Sept. 30	3779	833	100	2817
Cigar-maker's board	A. C. Cambridge	704,235	July 8	1622	351	100	339
Cigar-making machine. Automatic	B. H. Snively and T. H. Keller	706,367	Aug. 5	513	112	100	1220
Cigar-marking machine	F. H. Richards	703,360	Sept. 16	2507	885	100	2548
Cigar measuring and cutting gage	D. Palmgren	711,673	Oct. 21	2460	540	101	543

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Cigar-moistener and price and brand ticket.	S. Strauss	696,512	Apr. 1	206	50	99	48
Cigar-mold	G. M. Williams	694,507	Mar. 4	312	70	98	1779
Cigar-mold	G. M. Williams	694,508	Mar. 4	314	71	98	1779
Cigar or cigarette holder	C. M. Bragdon	702,182	June 10	1632	365	99	2462
Cigar or cigarette holder. Paper-rolled	H. Heisler	714,580	Nov. 25	4096	906	101	1790
Cigar or cigarette lighting device	R. Wilson	704,163	July 8	1497	321	100	314
Cigar or cigarette mouthpiece	J. H. Raacke	701,613	June 3	598	131	99	2393
Cigar or cigarette pocket-case.	B. Rapaport	698,621	Feb. 18	2073	590	98	1395
Cigar-package	E. A. Wilcox	700,395	May 20	2522	577	99	1724
Cigar-packing machine.	J. G. Gabel	696,808	Apr. 1	887	204	99	188
Cigar-perforating machine	N. P. Pearson	699,809	May 13	1312	304	99	1456
Cigar-perforator	S. Mountford	706,679	Aug. 12	1315	291	100	1401
Cigar-piercer	E. Todd, Jr	703,162	June 24	3485	801	99	2876
Cigar-pocket. Paper	O. L. Farmerter	706,998	Aug. 12	1903	426	100	1521
Cigar-pressing apparatus.	R. Woerner	694,082	Feb. 25	3570	788	98	1595
Cigar-shaper	C. G. Singley	708,085	Sept. 2	157	37	100	2013
Cigar-stand	T. Hughes	716,713	Dec. 23	4022	881	101	2723
Cigar-storage case	J. S. Conwell	703,114	June 24	3380	777	99	2856
Cigar-tip cutter	E. Walker	694,591	Mar. 4	489	106	98	1817
Cigar-tip cutter and lighter. Combined	F. L. Miller	711,171	Oct. 14	1494	322	101	325
Cigar-tray	H. A. Trenholm	699,259	May 6	240	56	99	1323
Cigar-trimming and marking machine	A. W. Waldmann and F. E. Kaiser	703,026	June 24	3208	739	99	2823
Cigar-wrapper cutter	C. and L. J. Du Brul	694,259	Feb. 25	3894	864	98	1658
Cigar-wrapper-cutting machine	G. H. Follows	693,253	Feb. 11	1963	426	98	1228
Cigar-wrapper-cutting machine	J. A. Peepels	714,736	Dec. 2	161	32	101	1869
Cigar-wrapper-cutting-machine guide-plate	N. Du Brul	697,706	Apr. 15	2470	551	99	154
Cigar-wrapping machine	J. J. Ryan	693,669	Feb. 18	2760	608	98	1413
Cigar-wrapping machines. Cutting and pasting device for	E. Fisko	701,388	June 3	187	40, 41	99	2146
Cigar-wrapping table	N. H. Borgfeldt	712,114	Oct. 28	3329	729	101	738
Cigar-wrapping-table suction-valve	N. H. Borgfeldt	712,115	Oct. 28	3330	730	101	738
Cigars, cheroots, &c. Implement used in the manufacture of	C. Millhiser.	714,728	Dec. 2	150	30	101	1808
Cigars. Machine for boxing little.	G. M. Williams	708,789	Sept. 9	1437	329	100	2288
Cigars. Machine for preparing leaf-tobacco for manufacture into	P. H. Ertheiler	714,289	Nov. 25	3583	788	101	1688
Cigarette-cartridge and blank for making same	A. Leblanc	716,339	Dec. 16	3276	716	101	2550
Cigarette-former	G. S. Hammond	706,931	Aug. 12	1791	401	100	1500
Cigarette forming, wrapping, and ironing appliance	F. J. Ludington	711,986	Oct. 28	3089	677	101	691
Cigarette-machine	C. R. Spencer	690,887	Jan. 7	979	222	98	208
Cigarette-machine	F. D. May	700,010	May 13	1702	392	99	1538
Cigarette-machine	J. C. Hansen-Ellehammer	700,040	May 13	1766	408	99	1551
Cigarette-machine	J. C. Hansen-Ellehammer	702,206	June 10	1665	374	99	2468
Cigarette-machine	H. C. Heckendorn	702,209	June 10	1670	376	99	2469
Cigarette-machine	G. Ferrari	707,766	Aug. 26	3431	773	100	1872
Cigarette-machine	O. Bergstraesser, H. L. Händel, and J. D. Mues.	715,744	Dec. 16	2076	775	101	2298
Cigarette-machine automatic stop mechanism	G. Ferrari	707,768	Aug. 26	3443	775	100	1875
Cigarette-machine. Continuous	F. J. Ludington	700,958	May 27	3594	827	99	1965
Cigarette-machine feeder.	T. Moesinger	709,920	Sept. 20	3737	841	100	2809
Cigarette-machine tobacco-measuring mechanism.	G. Ferrari	707,767	Aug. 26	3441	775	100	1874
Cigarette-machines. Device for feeding tobacco in.	J. Paul.	709,507	Sept. 23	2950	658	100	2634
Cigarette-making machine	H. E. Grabau	692,270	Feb. 4	101	24	98	819
Cigarette-making machine	F. Sticker.	700,253	May 20	2327	509	99	1667
Cigarette-making machine	J. Macdonald	716,449	Dec. 23	3507	766	101	2614
Cigarette-making machine. Individual	F. J. Ludington	705,591	July 29	4413	957	100	953
Cigarette-mouthpieces. Producing	L. H. Sondheim	709,369	Sept. 16	2642	592	100	2557
Cigarette-mouthpieces. Rewinding mechanism for.	H. Harnisch	716,534	Dec. 23	3684	804	101	2649
Cigarette or cigar box	S. Goldfaden	716,705	Dec. 23	4010	878	101	2720
Cigarette or cigar pocket-case.	G. H. Cressler	695,914	Mar. 25	2944	667	98	2376
Cigarette-packing machine	W. R. Landfear	692,789	Feb. 4	1011	229	98	1004
Cigarette-paper. Applying cork strips to	G. Nast	714,601	Nov. 25	4132	914	101	1799
Cigarette-paper book	J. C. Drucklieb	712,914	Nov. 25	480	197	101	1071
Cigarette-roller	J. G. Halapleus	703,915	July 1	995	217	100	148
Cigarette-tube	K. Harnisch	716,536	Dec. 23	3691	804	101	2652
Cigarette-tube-forming machine	K. Harnisch	716,537	Dec. 23	3692	805	101	2652
Cigarette-tubes. Machine for filling paper	G. A. Hagelberg and L. Lindelöf	695,640	Mar. 18	2451	555	98	2260
Cigarettes from continuous cigarette-rods. Making	F. J. Ludington	711,987	Oct. 28	3096	678	101	693
Cinder-hopper	M. Laux	703,608	July 1	400	94	100	79
Cinder or spark arrester	S. L. Langdon	693,281	Feb. 11	2010	437	98	1237
Cinematograph	H. Schmidt and W. Haensch	691,411	Jan. 21	1992	446	98	450
Cinematographic apparatus	F. Alberini, C. Anchise, and L. Ganucci-Cancellieri.	690,815	Jan. 7	866	190	98	138



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Cinematographic apparatus	A. Rosenberg	691,493	Jan. 21	2134	478	98	480
Cineol arsenate and making same	W. Smith	705,345	July 22	4924	479	98	922
Cinnamic ether of cinchona alkaloids	H. Thron	697,032	Apr. 8	1261	.....	99	267
Cinnamyl-quinin and making same. Hydrochlorid of	G. Fuchs	692,437	Feb. 4	378	.....	98	877
Circle-cutting device	E. O. Cartwright	703,538	July 1	290	66	100	58
Circuit-breaker	F. A. Merrick and J. D. Forrer	693,116	Feb. 18	2273	497	98	1313
Circuit-breaker	C. C. Badeau	695,124	Mar. 11	1544	498	98	2655
Circuit-breaker	W. E. Pimlott	697,332	Apr. 15	2145	477	99	498
Circuit-breaker	H. P. Ball	698,096	Apr. 22	3195	699	99	728
Circuit-breaker	B. P. Rucker	701,621	June 3	696	133	99	2235
Circuit-breaker	F. Benzinger	707,952	Aug. 26	3796	853	100	1945
Circuit-breaker	E. M. Hewlett	708,710	Sept. 9	1284	298	100	2252
Circuit-breaker	F. A. Merrick	700,232	Sept. 16	2848	332	100	2494
Circuit-breaker	C. J. Reed	710,367	Sept. 30	4574	1031	100	2985
Circuit-breaker	T. J. Johnston	713,887	Nov. 18	2759	613	101	1499
Circuit-breaker	E. A. Stevens	716,649	Dec. 23	3917	855	101	2702
Circuit-breaker. Automatic	C. Reynolds	692,475	Feb. 4	446	104	98	800
Circuit-breaker. Automatic	B. Ballantyne	704,496	July 15	2120	458	100	459
Circuit-breaker. Automatic	C. D. Haskins	710,056	Sept. 30	3994	901	100	2893
Circuit-breaker. Automatic magnetic	W. M. Scott	704,974	July 15	3968	659	100	655
Circuit-breaker reverse-current device	H. P. Ball	708,608	Sept. 2	15	4	100	1984
Circuit-breaker. Rotary	A. R. Luschka	690,973	Jan. 14	1145	259	98	255
Circuit-breaker. Time-limit	H. M. Hobart	706,055	Aug. 5	104	22	100	1138
Circuit-breaker time-limit device.	H. P. Ball	709,007	Sept. 2	13	3	100	1998
Circuit-breaking device	A. J. Higgs	696,172	Mar. 25	3467	777	98	2494
Circuit-closer	D. F. Mulkey	706,435	Aug. 6	886	191	100	1294
Circuit-closer safety device	P. Mackintosh	697,734	Apr. 15	2517	561	99	564
Circuit-closer. Thermostatic	A. M. Butz	705,379	July 22	3949	856	100	848
Circuit-closer. Time	696,319	Mar. 25	3775	841	98	2548	
Circuit-closer. Trolley-signal	W. M. Chapman	711,036	Oct. 14	1215	267	101	207
Circuit-closing device	A. B. Chance	707,761	Aug. 26	3422	771	100	1870
Circuit-closing mechanism. Self-adjusting electro-magnetic	G. W. Gillespie	693,292	Feb. 11	1977	430	98	1231
Circuit-controller	E. M. Hewlett	697,144	Apr. 8	1433	320	99	335
Circuit-controller	J. J. Ghegan	697,834	Apr. 15	2694	598	99	694
Circuit-controller	R. Herman	699,052	May 13	1612	369	99	1521
Circuit-controller	E. W. Vogel	703,022	June 24	3263	738	99	2823
Circuit-interrupter	M. S. Walker	708,182	Sept. 2	343	81	82	2951
Circuit-interrupter. Automatic	D. M. Moore	702,318	June 10	1848	421	99	2594
Circuit making and breaking handle	R. E. Leve	691,557	Jan. 21	3238	594	98	370
Circuit-tester	A. E. Khotinsky	696,144	Mar. 25	3420	798	98	2475
Circuits. Device for overcoming alternating-currents in direct-current	H. Brockelt	708,121	Sept. 2	221	53	100	2027
Circuits. Regulator for alternating-current	C. P. Steinmetz	700,847	May 27	3403	782	99	1927
Cistern device. Automatic	C. H. Asling	691,290	Jan. 14	1602	365	98	349
Cistern, tank, or reservoir cleaner	T. S. Murray and E. E. Jackson	715,408	Dec. 9	1132	309	101	2148
Cisterns. Form or pattern for cement	S. L. Dunlap	695,804	Mar. 18	2737	624	98	2318
Clamp:							
See Ax-handle clamp.	Rail-clamp.						
Basin-clamp.	Rail block clamp.						
Beam-clamp.	Rail-joint clamp.						
Bedstead-clamp.	Rock-drill clamp.						
Bench-clamp.	Roof-clamp.						
Bookbinder's clamp.	Rope-clamp.						
Cloth-clamp.	Rope or cable clamp.						
Conduit-clamp.	Safety-clamp.						
Drapery-frame clamp.	Sash-cord clamp.						
Floor-clamp.	Saw-clamp.						
Foundry pattern-clamp.	Saw-handle clamp.						
Furniture-clamp.	Screw-clamp.						
Hose-clamp.	Shoe-tip clamp.						
Hose-clamp.	Show-case corner-clamp.						
Hose-clamp.	Skate-clamp.						
Hose-coupling clamp.	Staging-clamp.						
Keying-clamp.	Suspension-clamp.						
Leather-setting-frame clamp.	Suture-clamp.						
Leather-stretching clamp.	Trousers-clamp.						
Pedestal-clamp.	Tube-clamp.						
Pipe-clamp.	Wheel-clamp.						
	Wire-clamp.						
	Woodworking-clamp.						
	Wringer-clamp.						
Clamp.	C. T. Swaffield	692,381	Feb. 4	286	70	98	858
Clamp.	C. R. Davis	699,911	May 13	1530	351	99	1505
Clamp.	J. Fellows	702,416	June 17	2652	467	99	2566
Clamp.	T. De Worth	707,680	Aug. 26	3227	724	100	1892
Clamp.	J. A. Smith	707,803	Aug. 26	3517	794	100	1890
Clamp.	S. H. Ellis	710,049	Sept. 30	3980	898	100	2899
Clamp applicable as a clothes-peg	S. T. Ellis	717,367	Dec. 30	5375	1109	101	3037
Clamp for filing shaft-keys	B. Holland	695,686	Mar. 18	2528	572	98	2275
Clamp for ropes, straps, chains, &c.	E. S. Duffy	714,144	Nov. 25	3259	719	101	1623
Clamp for washbowls, &c.	L. M. Chapman	696,422	Apr. 1	55	13	99	15
Clamping-band.	J. H. Cole	712,765	Nov. 4	546	126	101	1010
Clamping device	H. O. Evans	694,953	Mar. 11	1186	259	98	1980
Clamping device for work-benches	H. Gükel	697,473	Apr. 15	2043	451	99	469
Clamping-finger	W. L. R. Emmet	714,881	Dec. 2	492	103	101	1934
Clamping-wrench.	R. A. Breul	696,405	Apr. 1	22	6	99	7
Clarifier	L. Litty	694,871	Mar. 4	1033	228	98	1331
Clarifying fecal matter. Apparatus for	F. W. Dittler	691,365	Jan. 21	1913	430	98	433

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Clarinet.....	W. Meinel.....	691,646	Jan. 21	2413	543	98	537
Clarinet.....	W. Heckel.....	706,557	Aug. 12	1089	241	100	1351
Clasp:							
See Chatelaine-clasp.	Pin-clasp.						
Corset-clasp.	Pocket-clasp.						
Garment-clasp.	Pocket-book clasp.						
Garment-supporter	Rope-clasp.						
clasp.	Skirt-clasp.						
Hair-clasp.	Spring-clasp.						
Handle-clasp.	Suspension-clasp.						
Clasp.....	N. Crane.....	690,904	Jan. 7	1010	298	98	212
Clasp.....	G. B. Adams.....	699,120	May 6	1	1	99	1177
Clasp.....	C. A. Bryant.....	702,771	June 17	2723	625	99	2707
Clasp.....	C. W. Stimson.....	706,272	Aug. 5	543	117	100	1225
Clasp.....	C. A. Bryant.....	706,522	Aug. 12	1084	228	100	1339
Clasp.....	F. E. Schenker and E. F. Aubry	715,611	Dec. 9	1819	403	101	2224
Clasp.....	J. Ritter.....	716,280	Dec. 16	3156	691	101	2526
Clasp or buckle.....	J. Sulzbacher.....	707,877	Aug. 26	3658	823	100	1916
Clasp or buckle.....	C. M. Berry.....	710,412	Oct. 7	26	7	101	8
Clasp or fastener.....	J. L. Thomson.....	711,746	Oct. 21	2601	572	101	573
Clasp or fastener.....	N. Crane.....	705,823	July 29	4831	1049	100	1038
Clasp or fastener.....	N. Crane.....	709,536	Sept. 23	3004	669	100	2646
Clavier. Practice.....	A. C. Bergman.....	712,900	Nov. 4	822	191	101	1065
Claw-bar.....	A. Brassington.....	698,779	Feb. 18	2955	051	98	1453
Claw-bar.....	T. Woodhouse.....	690,392	Mar. 25	3686	825	98	2528
Clay, &c. Apparatus for molding hollow articles in	W. W. Kettler and E. Britton.....	704,833	July 15	2825	611	100	605
Clay, &c. Apparatus for molding the exterior of articles in	W. B. Rowley.....	692,361	Feb. 4	255	61	98	851
Clay, &c. Apparatus for separating coarse and fine particles of	M. J. Adams.....	709,181	Sept. 16	2153	494	100	2454
Clay, &c. Apparatus for separating coarse and fine particles of	M. W. Phillips.....	715,212	Dec. 2	1074	231	101	2057
Clay conduits. Die for making multiple-orificed..	W. L. McCarell.....	696,377	Mar. 25	3902	86	98	2570
Clay hydraulic pipe, vases, crockery-ware, &c. Strengthening	L. Millet.....	697,642	Apr. 15	2349	524	99	529
Clay-mixer.....	D. Appleby, Jr.....	692,774	Feb. 4	980	222	98	997
Clay or other insoluble materials. Treating.....	M. W. Phillips.....	717,118	Dec. 30	4901	1061	101	2394
Clay-pan-emptying device.....	J. P. Wynn.....	694,903	Mar. 4	1087	239	98	1942
Clay-press.....	W. D. Ferichs.....	718,562	Nov. 11	2141	479	101	1352
Clay pulverizer and separator.....	J. Elliott.....	713,051	Oct. 28	3203	701	101	713
Clay Working.....	R. H. Staley.....	701,957	June 10	1204	274	99	2376
Cleaner:							
See Baking-cup cleaner.	Grain-cleaner.						
Beer-pipe cleaner.	Gun-cleaner.						
Boiler-cleaner.	Headlight-cleaner.						
Boiler-pipe cleaner.	Orange or lemon cleaner.						
Boiler-tube cleaner.	Paper-cleaner.						
Bolting-cloth cleaner.	Pipe-cleaner.						
Boot or shoe cleaner.	Pipe and flue cleaner.						
Bottle-cleaner.	Razor-cleaner.						
Cane-stubble cleaner.	Road-cleaner.						
Car-seat cleaner.	Seed-cleaner.						
Comb-cleaner.	Sewer-cleaner.						
Cotton-cleaner.	Shoe-cleaner.						
Dish-cleaner.	Sieve-cleaner.						
Eraser-cleaner.	Spinning-machine cleaner.						
Feed-water cleaner.	Stovepipe-cleaner.						
Fish-cleaner.	Tire-cleaner.						
Floor or sidewalk cleaner.	Tobacco-pipe cleaner.						
Flue-cleaner.	Tube-cleaner.						
Foot-cleaner.	Turbine flue-cleaner.						
Glove-cleaner.	Type-cleaner.						
Window-cleaner.							
Cleaning and polishing composition.....	P. Levi.....	698,556	Feb. 18	2332	-----	98	1366
Cleaning and polishing composition.....	I. Stern.....	708,743	Sept. 9	1344	-----	100	2267
Cleaning and waxing pad.....	A. Bing.....	715,951	Dec. 16	2517	555	101	2393
Cleaning implement.....	H. G. Huntington.....	695,315	Mar. 11	1866	415	98	2120
Cleaning-paste and making same.....	W. G. 790.....	706,790	Aug. 12	1538	-----	100	1447
Cleat. Sheet-metal fastening.....	F. E. Heinig.....	699,311	May 6	345	80	99	1244
Cleat. Sheet-metal fastening.....	F. E. Heinig.....	701,267	May 27	4169	957	99	2084
Clevis.....	B. Gotter.....	691,902	Jan. 28	3307	655	98	657
Clevis.....	W. L. Hudson.....	695,643	Mar. 18	2460	558	98	2262
Clevis.....	J. H. Chidester and W. Turk	701,540	June 3	462	104	99	2203
Clevis.....	W. M. Griswold.....	703,060	June 24	3282	755	99	2387
Clevis for plows, &c.....	E. Hall.....	698,937	Apr. 29	4851	1070	99	1097
Climbing apparatus and support. Aerial	H. Rodde.....	716,109	Dec. 16	2835	623	101	2461
Clip:							
See Bicycle toe-clip.	Shovel-clip.						
Cable-clip.	Singletree-clip.						
Detector-bar clip.	Slide-loop clip.						
Display-clip.	Spring-clip.						
Fence-fastening clip.	Springwork-clip.						
Paper-clip.	Toe-clip.						
Pencil-clip.	Upholstering-clip.						
Whiffletree-clip.							
Clip.....	P. H. Yawman.....	702,523	June 17	2252	513	99	2610
Clip.....	L. F. Bogia, Jr.....	711,817	Oct. 21	2741	606	101	601
Clip and lap-link. Combined.....	P. H. De Rochemont.....	701,803	June 3	927	206	99	2302
Clipper.....	R. F. Werk.....	701,653	June 3	682	159	99	2250
Clipper.....	R. F. Werk.....	714,543	Nov. 25	4029	891	101	1777
Clipper. Hair.....	C. H. Redman.....	698,054	Apr. 22	3105	683	99	708
Clipper. Hair.....	E. E. McKeidley.....	701,601	June 3	580	127	99	2229
Clipper. Hair.....	G. H. Coates.....	708,464	Sept. 2	838	191	100	2151
Clipper. Horse.....	M. Bohnert.....	693,223	Feb. 11	1915	416	98	1217



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Clipper. Mane- Clipper or shearing-tool.	J. A. McCollum	701,371	June 3	157	34	99	2140
Clock.	J. K. Stewart	698,973	Apr. 22	3135	690	99	715
Clock. Automatic.	G. W. Adams	691,887	Jan. 28	2879	648	98	632
Clock. Automatic call-bell.	R. S. Wiesenfeld	715,226	Dec. 2	1104	235	101	2063
Clock beat-adjuster. Pendulum.	W. A. Hirschfield	693,647	Feb. 18	2723	601	98	1406
	T. Rottler	716,481	Dec. 23	3574	781	101	2628
Clock. Calendar.	J. I. Peatfield.	704,916	July 15	2923	627 628 629	100	639
Clock-chime.	G. M. Stevens	710,084	Sept. 30	4051	912	100	2874
Clock chiming mechanism.	T. J. Fox	699,303	May 6	327	75.76	99	1241
Clock. Electric.	W. W. Frantz	691,356	Jan. 14	1654	377	98	399
Clock. Electric.	F. Frick	692,654	Jan. 23	3190	230	98	711
Clock. Electric.	M. Fischer.	692,506	Feb. 4	345	118	98	982
Clock. Electric.	M. Hoef	696,236	Mar. 25	3587	893	98	2506
Clock. Electric.	E. Meyer.	698,985	Apr. 29	4030	1090	99	1113
Clock. Electric.	F. Frick	702,299	June 10	1814	414	99	2498
Clock. Electric.	J. Butcher.	705,558	July 20	4353	942 943	100	941
Clock. Electric.	H. Gillette.	706,817	Aug. 12	1583	1359	100	1457
Clock. Electric.	H. E. Andersson	708,112	Sept. 2	205	49	100	2024
Clock. Electric.	A. F. Poole	708,253	Sept. 2	472	108 109 110	100	2077
Clock. Electric.	C. J. Moberg.	709,294	Sept. 16	2354	533 534	100	2496
Clock. Electric.	N. Harrison	709,818	Sept. 23	3320	793	100	2751
Clock. Electric.	W. F. Winslow	710,829	Oct. 7	830	180	101	170
Clock. Electric.	C. M. Crook	711,944	Oct. 28	3015	663	101	676
Clock. Electric.	M. Fischer.	716,996	Dec. 30	4688	1016	101	2880
Clock. Electric alarm.	Z. H. Kevorkian	703,425	July 1	108	24	100	24
Clock. Electric alarm.	W. E. Throp and W. S. Ingraham.	703,854	July 1	884	195	100	177
Clock. Electric alarm.	W. C. Bethel.	704,733	July 15	2533	547 548	100	545
Clock. Electric alarm.	A. V. Strait.	710,927	Oct. 7	963	219	101	262
Clock. Electric alarm.	T. E. Heeter	711,568	Oct. 21	2234	489 490	101	499
Clock. Electric program.	J. O. Lyman.	702,808	June 17	2796	648	99	2722
Clock. Electromechanical.	S. H. Hoggson	711,905	Dec. 2	537	115	101	1943
Clock escapement. Electromagnetically-controlled.	A. H. Grenfell	704,874	July 15	2806	607	100	690
Clock frame.	W. H. Stevens	703,354	June 24	3823	878	99	2948
Clock. Geographical.	C. E. Davis	693,514	Feb. 18	3019	667	98	1466
Clock. Geographical.	C. E. Davis	693,953	Feb. 25	3308	727	98	1541
Clock. Geographical.	A. J. Day	694,256	Feb. 25	3889	861 862 863	98	1658
Clock. Geographical.	H. Schumacher.	712,729	Nov. 4	483	114	101	998
Clock-key holder. Watchman's.	A. Beyer.	697,066	Apr. 8	1310	289	99	297
Clock-movements for starting or stopping machinery. Apparatus actuated by	J. S. Sunderland	702,662	June 17	2557	587	99	2672
Clock-pendulum	D. W. Thompson	703,620	June 24	3201	737	99	2822
Clock pendulum-regulator	J. Butcher.	709,594	Sept. 23	3100	691	100	3696
Clock. Program.	C. D. Rice	704,198	July 8	1380	360	100	290
Clock. Repeating.	J. Kienle	708,394	Sept. 2	663	19	100	2115
Clock. Secondary electric.	S. P. Thrasher	709,154	May 20	2623	600	99	1747
Clock. Secondary electric.	J. J. Stockall, Sr.	711,649	Oct. 21	2402	529	101	529
Clock. Self-winding.	C. Hurst	704,323	July 8	1795	392	100	377
Clock. Self-winding.	C. Hour.	698,886	Sept. 9	1651	379 380	100	2332
Clock. Self-winding electric.	M. Hoef and E. Schultz	694,546	Mar. 4	408	80	98	1799
Clock. Self-winding electric.	C. M. Crook	703,953	July 1	1058	230	100	211
Clock. Self-winding electric.	C. M. Crook	704,620	July 15	2838	508	100	594
Clock striking mechanism	H. M. Hunt	699,387	May 6	403	115	99	1277
Clock striking mechanism.	A. Tomek	700,456	May 20	2627	691	99	1748
Clock striking mechanism.	F. W. Inlen	708,769	Sept. 9	1398	321	100	2279
Clock striking mechanism.	A. C. Schuman	713,696	Nov. 18	2393	534	101	1419
Clock-synchronizer. Electric.	C. F. Mears	702,666	June 17	2523	578	99	2665
Clock. Watchman's.	A. Beyer.	711,712	Oct. 21	2529	555	101	557
Clock. Watchman's.	A. Huberty	714,908	Dec. 2	541	110	101	1944
Clock-winding mechanism. Electric.	A. Tuerk	698,158	Apr. 22	3328	726 727	99	734
Cloth fender	E. B. Shambaugh	695,000	Mar. 11	1274	281	98	1909
Closet-basins. Device for securing seats and lids of	N. Rubenstein	711,127	Oct. 14	1389	302	101	308
Closet-bowls. Waste-pipe connection for	A. Dellamora	699,407	May 6	701	163	99	1321
Closure.	C. Puddefoot	701,096	May 27	3836	880	99	2017
Cloth-blank-folding machine	C. H. Knapp	699,192	May 6	114	30	99	1199
Cloth-board. Registering	J. W. Currier.	694,091	Feb. 25	3419	739	98	1564
Cloth-clamp for textile machinery	I. F. Peck	710,799	Oct. 7	780	166 167	101	169
Cloth. Clamping device for cutting	A. W. Curtis.	715,642	Dec. 9	1867	414	101	2234
Cloth-cleaning device	F. O. Carlson and B. J. Haaland	704,615	July 15	2231	506	100	502
Cloth-cutter.	R. E. Leve	699,390	May 6	521	119	99	1282
Cloth-cutter.	S. Gezyński	702,788	June 17	2753	634	99	2713
Cloth-cutting machine.	F. Dodge	698,908	Apr. 29	4806	1059	99	1087
Cloth-cutting machine.	J. R. Baird	703,036	June 24	3234	744	99	2827
Cloth-cutting machine.	J. G. and H. H. Grosheim	708,784	July 1	749	106	100	150
Cloth-cutting machine.	J. B. Gury	712,683	Oct. 7	345	114	101	111

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Cloth-cutting machine.....	M. Langman.....	715,092	Dec. 2	858	183	101	2012
Cloth-cutting machine. Long-knife.....	E. M. Waring.....	691,090	Jan. 14	1354	307	98	297
Cloth, &c. Device for unrolling.....	H. L. Rosenthal.....	702,832	June 17	2816	647	99	2736
Cloth-finishing machine.....	F. Stiner.....	712,209	Oct. 28	3495	766	101	769
Cloth-finishing machine.....	F. Stiner.....	712,210	Oct. 28	3499	767	101	770
Cloth-finishing machines. Electric alarm for.....	J. F. Bannon.....	701,248	May 27	4128	949	99	2077
Cloth folding and rolling machine.....	I. Cohen.....	698,458	Apr. 29	3860	854	99	883
Cloth holding and shipping board.....	J. Lonke.....	695,062	Mar. 11	1395	306	95	2024
Cloth, leather, &c. Means for cutting.....	H. E. Musgrave and G. A. Barnes.....	698,994	Apr. 29	4042	1094	99	1115
Cloth manufacturing. Brushing-machine for.....	G. W. Voelker.....	706,132	Aug. 5	244	51	100	1108
Cloth. Means for cutting corduroy.....	M. G. Chace.....	692,504	Feb. 4	496	116	98	900
Cloth muling-machine.....	J. C. Tinker and J. H. Arran.....	716,147	Dec. 16	3303	639	101	2474
Cloth or sponge holder.....	L. E. Whitaker.....	696,125	Mar. 25	3358	758	98	2462
Cloth-steaming apparatus.....	W. Heddon.....	711,399	Oct. 14	1922	418	101	415
Cloth-steaming machine.....	A. T. Sarfert.....	707,725	Aug. 26	3315	742	100	1850
Clothes-drainer.....	H. Blenkhorn.....	706,887	Aug. 12	1717	884	100	1485
Clothes-drier.....	D. T. Brown.....	695,535	Mar. 18	2232	506	98	2518
Clothes-drier.....	T. M. Anderson.....	696,128	Mar. 25	3365	759	98	2464
Clothes-drier.....	H. C. and J. F. Evered.....	701,692	June 3	745	164	99	2264
Clothes-drier.....	K. C. Moore.....	704,561	July 15	2249	487	100	486
Clothes-drier.....	F. S. MacDougall.....	714,001	Nov. 18	2977	663	101	1544
Clothes-drier. Collapsible wall.....	H. Dickson.....	695,379	Mar. 11	1967	440	98	2142
Clothes-drier. Ventilated.....	L. F. H. Gundlach.....	703,653	July 1	509	114	100	100
Clothes-drying apparatus.....	J. Williams.....	701,977	June 10	1239	283	98	2382
Clothes-drying attachment for range-boilers.....	S. L. Richards.....	705,395	July 22	3754	815	100	510
Clothes-hanger.....	S. W. Van Demark.....	707,880	Aug. 26	3674	826	100	1920
Clothes-hanging apparatus.....	M. H. Gornston.....	696,234	Mar. 25	3581	802	98	2505
Clothes-hook.....	C. Salmond.....	703,742	July 1	677	150	100	135
Clothes-hook.....	A. H. Cobb.....	707,824	Aug. 26	3557	804	100	1898
Clothes-hook.....	O. Gagnon.....	716,214	Dec. 16	3052	666	101	2505
Clothes-horse.....	S. G. MacMillan.....	694,706	Mar. 4	888	184	98	1880
Clothes-line.....	A. A. Woodyatt.....	699,736	May 13	1171	272	99	1428
Clothes-line.....	E. Imhof.....	702,952	June 24	3077	708	99	2705
Clothes-line.....	W. S. Harnden.....	714,797	Dec. 2	295	64	101	1897
Clothes-line and detachable support.....	H. R. Johnson.....	693,401	Feb. 18	2248	492	98	1308
Clothes-line and peg holder or clamp. Combined safety.....	T. Grundy.....	697,404	Apr. 8	1906	426	99	424
Clothes-line apparatus.....	H. Pedreaux.....	694,414	Mar. 4	152	94	98	1745
Clothes-line attachment.....	J. Johnson.....	695,397	Mar. 11	1997	417	98	2149
Clothes-line fastener.....	F. Raub.....	694,891	Mar. 4	1065	236	98	1937
Clothes-line fastener.....	J. D. Muller.....	698,992	Apr. 29	4040	1093	99	1115
Clothes-line holder.....	T. Lemaire.....	705,101	July 23	3331	723	100	724
Clothes-line holder.....	A. H. Jones.....	707,847	Aug. 26	3609	814	100	1907
Clothes-line holder.....	G. W. McDonald.....	710,205	Sept. 30	4301	917	100	2929
Clothes-line holder.....	A. K. Rosenbeck.....	716,937	Dec. 30	4555	989	101	2861
Clothes-line. Pinless.....	B. W. Knight.....	692,308	Feb. 4	158	37	98	831
Clothes-line prop.....	W. O. Dayton.....	698,393	Apr. 29	3738	826	99	840
Clothes-line prop.....	S. Day.....	714,102	Nov. 18	3180	703	101	1587
Clothes-line prop-head.....	J. G. Mole.....	704,073	July 8	1316	287	100	276
Clothes-line reel.....	P. Krex.....	690,588	Jan. 7	422	90	98	92
Clothes-line reel.....	I. I. Edgerly.....	698,477	Apr. 29	3369	861	99	889
Clothes-line reel.....	M. H. Kemper.....	710,585	Oct. 7	367	77	101	74
Clothes-line reel and stretcher.....	C. O. Anderson.....	700,003	May 13	1692	389	99	1536
Clothes-line support.....	M. T. Gordon and F. Davis.....	704,026	July 8	1218	263	100	258
Clothes-line supporter. Metallic.....	J. B. Jackson.....	714,704	Dec. 2	102	20	101	1858
Clothes-line supporting and operating apparatus.....	C. J. Lantz.....	692,864	Feb. 11	1149	256	98	1060
Clothes-line tightener and adjuster.....	D. T. Blevins and D. H. Taylor.....	690,890	Jan. 7	955	223	98	207
Clothes-pin.....	A. K. and J. Bradley.....	692,223	Feb. 4	21	5	98	802
Clothes-pin.....	S. G. MacMillan.....	711,513	Oct. 21	2148	467	101	477
Clothes-pin.....	A. McKee.....	716,924	Dec. 30	4536	983	101	2857
Clothes-pin.....	J. W. Tillman.....	716,961	Dec. 30	4611	999	101	2872
Clothes-pin. Wire.....	L. Lafa and W. Tirrill.....	700,208	May 20	2130	488	99	1646
Clothes-pins. Machine for scoring, riveting, and printing.....	C. Carr.....	713,285	Nov. 11	1603	363	101	1241
Clothes-pounder.....	S. B. Tadlock.....	702,506	June 17	2227	507	99	2605
Clothes-pounder.....	P. F. Flynn.....	704,680	July 15	2356	512	100	507
Clothes-pounder.....	K. D. McLay.....	709,109	Sept. 16	2112	484	100	2446
Clothes-rack.....	S. East.....	691,368	Jan. 21	1919	431	98	434
Clothes-rack.....	O. P. Callahan.....	701,789	June 3	908	203	99	2298
Clothes-rack.....	J. M. Downing.....	716,398	Dec. 23	3396	741	101	3559
Clothes-rack.....	W. Bages.....	716,614	Dec. 23	3354	840	101	288
Clothes-wringer.....	C. F. Searles.....	703,009	June 24	3179	733	99	2817
Clothes-wringer.....	F. H. Perkins.....	707,974	Aug. 26	3841	863	100	1953
Clothes-wringer.....	E. B. Gay.....	709,628	Sept. 23	3154	703	100	2676
Clothes-wringer.....	M. P. Janisch.....	715,077	Dec. 2	832	176	101	2006
Clothes-wringer.....	A. V. Ackerman.....	715,734	Dec. 16	2051	459	101	2239
Clover-huller self-feeder.....	C. Clark.....	713,963	Nov. 18	2909	647	101	1529
Clutch.....	W. Moon.....	691,820	Jan. 14	1734	407	98	238
Clutch.....	C. Johnson.....	691,548	Jan. 21	2223	500	98	498
Clutch.....	H. Bardsley.....	693,318	Feb. 11	2073	453	98	1250
Clutch.....	H. I. Illingworth.....	694,550	Mar. 4	416	90, 91	98	1801
Clutch.....	J. MacCallum, Jr.....	695,407	Mar. 11	2011	451	98	2152
Clutch.....	J. Turnbull.....	695,769	Mar. 18	2660	604	98	2302
Clutch.....	A. E. Vivinus.....	696,284	Mar. 25	3672	821	98	2325
Clutch.....	H. L. Henderson.....	697,206	Apr. 8	1544	346	99	348
Clutch.....	F. L. Smith.....	697,683	Apr. 15	2423	539	99	544
Clutch.....	W. H. Corbett.....	697,913	Apr. 15	2831	626	99	639
Clutch.....	E. Dysterud.....	699,461	May 6	641	147	99	1308



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Clutch.	M. C. Johnson	699,874	May 13	1462	336	99	1491
Clutch.	M. H. Fischer	700,412	May 20	2550	584	99	1730
Clutch.	D. L. Winters	700,875	May 27	3449	792	99	1935
Clutch.	H. Moon	705,273	July 32	3714	895	100	800
Clutch.	W. D. Cookson	706,391	Aug 5	787	171	100	1273
Clutch.	F. W. Jones	707,593	Aug. 26	9049	686	100	1795
Clutch.	P. A. Houghtaling. (Reissue)	12,030	Sept. 9	1837	423	100	2370
Clutch.	P. A. Houghtaling	709,771	Sept. 23	3429	772	100	2731
Clutch.	G. E. Medley	710,593	Oct. 7	380	80	101	76
Clutch.	F. S. Hawkins	712,133	Oct. 28	3372	739	101	746
Clutch.	M. Langman	715,093	Dec. 2	862	184	101	2013
Clutch.	P. A. Houghtaling	716,041	Dec. 16	2683	593	101	2428
Clutch.	W. S. Graham	716,219	Dec. 16	3059	1667	101	2507
Clutch and stop mechanism	J. French	699,379	May 6	471	111	99	1271
Clutch. Automatic.	G. S. and J. J. Huff	620,583	Jan. 7	412	85, 86	98	90
Clutch. Automatic.	J. W. Kellogg	714,916	Dec. 2	559	119	101	1947
Clutch. Cone.	A. C. Krebs	693,551	Feb. 18	2527	556	98	1305
Clutch for driving machinery	J. W. Fries	692,130	Jan. 28	3935	754	98	739
Clutch for induction-motors.	A. Schwartz	706,117	Aug. 5	212	44	100	1101
Clutch. Free-wheel or like	W. H. Gurney and S. L. Taylor	709,000	Sept. 3	3700	894	100	1146
Clutch.	C. M. Wheaton	691,221	Jan. 14	1582	361	98	845
Clutch. Friction.	C. Ridderhof	691,488	Jan. 21	2126	476	98	478
Clutch. Friction.	C. Upton	691,507	Jan. 21	2161	484	98	485
Clutch. Friction.	J. A. Smith	691,817	Jan. 28	2764	622	98	627
Clutch. Friction.	G. H. Farman	693,507	Feb. 18	2446	536	98	1340
Clutch. Friction.	F. G. Hampson	694,270	Feb. 25	3917	870	98	1663
Clutch. Friction.	J. Harrington	694,472	Mar. 4	252	58	98	1765
Clutch. Friction.	A. E. Norris	697,271	Apr. 8	1656	371	99	372
Clutch. Friction.	J. Hall	698,112	Apr. 22	3240	708	99	736
Clutch. Friction.	M. Campbell	699,447	May 6	607	139	99	1301
Clutch. Friction.	H. Smith	701,953	June 10	1196	273	99	2374
Clutch. Friction.	R. E. Olds	704,911	July 15	3911	934	100	627
Clutch. Friction.	L. P. Mooers	706,490	Aug. 5	803	175	100	1376
Clutch. Friction.	E. Huber	706,660	Aug. 12	1279	282	100	1392
Clutch. Friction.	G. M. Bennett	709,194	Sept. 16	2282	518	100	2480
Clutch. Friction.	A. Mill	709,918	Sept. 30	3734	840	100	2808
Clutch. Friction.	L. J. Harris	710,685	Oct. 7	551	114	101	113
Clutch. Friction.	H. Muir	710,988	Oct. 14	1112	245	101	244
Clutch. Friction.	M. F. McMahon	712,575	Nov. 4	282	54	101	944
Clutch. Friction.	T. S. Casner	713,556	Nov. 11	2128	476	101	1349
Clutch. Friction.	M. Pivert	716,754	Dec. 23	4089	897	101	2738
Clutch. Magnetic	F. L. Sessions	700,839	May 27	3387	777	99	1923
Clutch. Magnetic	H. W. Buck	701,290	June 3	32	5	99	2113
Clutch mechanism	J. Harding, Jr.	693,271	Feb. 11	1993	433	98	1284
Clutch mechanism	C. M. Day	693,954	Feb. 25	3399	727	98	1541
Clutch mechanism	C. M. Day	693,955	Feb. 25	3311	728	98	1542
Clutch mechanism	G. Ferrari	707,769	Aug. 26	3445	776	100	1875
Clutch mechanism	F. W. Montgomery	710,494	Oct. 7	179	38	101	38
Clutch mechanism	J. T. Cyr	714,872	Dec. 2	466	99	101	1930
Clutch mechanism	H. Wynnan	714,990	Dec. 2	687	143	101	1973
Clutch mechanism	E. M. Couch	715,640	Dec. 9	1863	414	101	2232
Clutch mechanism. Reversible	W. J. Wright	715,727	Dec. 9	2037	456	101	2271
Clutch-operating device	G. L. Holmes	696,973	Apr. 8	1136	253	99	261
Clutch-operating mechanism	H. N. Covell	700,622	May 20	2985	674	99	1912
Clutch-operating mechanism	E. Turney	709,567	Sept. 23	3053	650	100	3655
Clutch-operating mechanism for winding drums.	S. Barton	712,242	Oct. 28	3554	778	101	733
Clutch or coupling	H. P. Lora	714,209	Nov. 25	3418	753	101	1635
Clutch. Pneumatic-hammer	A. C. Murphy	698,538	Apr. 29	4000	884	99	910
Clutch. Power-press	W. Klocke	710,199	Sept. 30	4282	964	100	2925
Clutch. Reversing	C. R. Alsop	692,754	Feb. 4	940	214	98	991
Clutch. Reversing	A. M. Sweder	706,479	Aug. 5	957	209	100	1309
Clutch. Reversing friction	A. M. Sweder	706,277	Aug. 5	556	121	100	1222
Clutch. Shaft and pulley	A. C. Pessano	713,341	Nov. 11	1705	386	101	1263
Clutch. Speed-regulating	H. S. Creidlebaugh	701,157	May 27	3996	913	99	2046
Clutch. Traction-engine friction.	P. Swenson	690,636	Jan. 7	324	65	99	70
Clutch. Tug sheave.	H. B. Harding	707,321	Aug. 19	2526	568	100	1669
Clutch. Variable-speed	W. A. Wood	707,890	Aug. 26	3690	829	100	1923
Coach-equalizing suspender	W. N. Best	694,246	Mar. 4	11	8	99	1715
Coach or go-cart. Baby.	A. R. Lamplugh	699,881	May 13	1479	340	99	1494
Coach or go-cart. Baby.	A. R. Lamplugh and H. Levi	699,882	May 13	1480	340	99	1495
Coach or go-cart. Baby.	A. R. Lamplugh and H. Levi	699,883	May 13	1481	340	99	1495
Coal, &c. Apparatus for handling.	J. Campbell	717,161	Dec. 30	4987	1082	101	2953
Coal, &c. Apparatus for handling.	J. Campbell	717,162	Dec. 30	4994	1083	101	2955
Coal-hagger	H. B. Sackett	707,358	Aug. 19	2589	585	100	1683
Coal-breaking machine	L. de Bertier de Sauvigny	707,945	Aug. 26	3787	849	100	1943
Coal, coke, &c. Apparatus for washing	C. Burnett	700,735	May 27	3178	724	99	1890
Coal-crusher	A. W. F. Steckel	702,889	June 17	2942	678	99	2752
Coal-flats, &c. Device for unloading	H. N. Hughes	710,194	Sept. 30	4267	962	100	2290
Coal heater. Slack-	E. B. Gosline	693,700	Feb. 18	2823	621	99	1425
Coal, &c. Machine for washing	F. R. Willson, Jr.	702,897	June 17	2956	681	99	2755
Coal ramming and transfer apparatus	J. F. Wilcox	710,643	Oct. 7	470	108, 39	101	94

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Invention.	Name.	No.	Date.	Monthly volume.		Vol.	Official Gazette.
				Spec.	Dr'g.		
Coal-separator	W. J. Hamilton	708,254	June 24	3645	838	99	2909
Coal-stamping machine	R. Kuhn	695,567	Mar. 18	2325	525	98	2235
Coal-tipple	F. W. Willis	714,082	Nov. 18	3137	694	101	1578
Coal-unloading apparatus	C. D. Day	706,222	Aug. 5	423	90, 91	100	1202
Coal-washer and ore-concentrator	A. C. Campbell	695,700	Mar. 18	2708	615	98	2312
Coaster-brake	C. Glover	691,541	Jan. 21	2214	498	98	496
Coaster-brake, &c.	C. Hanriot and H. O. Seyd.	685,685	Mar. 18	2526	572	98	2274
Coaster-brake	C. Glover	696,036	Mar. 25	3178	717	98	2424
Coaster-brake	C. Glover	706,549	Aug. 12	1077	238	100	1849
Coaster-brake	C. Glover	709,479	Sept. 23	2888	645	100	2622
Coaster-brake	G. F. Barton	710,556	Oct. 7	311	68	101	62
Coaster-brake	C. Glover	716,407	Dec. 23	3427	748	101	296
Coaster-brake, Vehicle	R. E. Hammer	697,387	Apr. 8	1, 67	99	100	396
Coaster, Lawn	H. G. Ralva	699,567	May 6	820	193	99	1345
Coasting and brake mechanism	G. J. Gastonguay	692,131	Jan. 28	3327	754	98	740
Coat	J. De Mayo	699,498	May 6	702	163	99	1321
Coat	H. Wolf	705,007	July 15	3132	677	100	668
Coat and hat lock	G. E. Allen	710,400	Oct. 7	3	1	101	3
Coat-hanger	H. L. Wright	711,145	Oct. 14	1431	310	101	313
Coat-hanger	O. Crawford	711,477	Oct. 21	2177	449	101	469
Coat-hanger	I. F. Baer	713,376	Nov. 11	1781	400	101	1279
Coat-hook, Safety	O. C. Schulz	697,753	Apr. 15	2550	567	99	571
Coat-hook, Safety	W. C. Barton and C. F. Hanson	697,781	Apr. 15	2601	577	99	582
Coated chemically-active substance and making same.	F. J. Smith	714,960	Dec. 2	635	—	101	1963
Coating composition. Insoluble	J. A. Just	713,309	Nov. 11	1658	—	101	1252
Coating for brick or stone. Moisture-proof	A. A. Tucker	705,625	July 29	1417	—	100	966
Coating irregular surfaces	G. D. Coleman	717,495	Dec. 30	5610	—	101	3084
Coating-machine	G. A. Breeze	699,612	May 6	915	213	99	1364
Coating-machine	G. Carlson	708,125	Sept. 2	234	54, 55	100	2030
Coating-machine	M. A. Smith	708,267	Sept. 2	499	114	100	2082
Coating, Metal	J. V. Brauch and B. Hemann	712,758	Nov. 4	536	—	101	108
Coating metal plates. Apparatus for	J. H. Williams	697,909	Apr. 15	2826	625	99	632
Coating metal plates. Apparatus for	G. B. Hammond and T. Dennis	706,408	Aug. 10	181	179	100	1279
Coating metals preparatory to being heated	H. Wachwitz	708,788	Sept. 2	1437	—	100	2288
Coating metallic articles. Apparatus for	J. Hroneck	714,697	Dec. 2	91	18	101	1856
Coating of copper, bronze, or like surfaces. Iridescent	D. Sinclair	705,456	July 22	4090	—	100	877
Coating one metal with another metal	S. H. Thurston	706,702	Aug. 12	1349	—	100	1408
Coating preparation	H. A. Bentley	690,915	Jan. 14	1035	392	98	233
Coating-tray	P. E. Taylor	704,592	July 15	2205	499	100	495
Coatings. Machine for applying	F. B. McKeown	707,620	Aug. 26	3099	698	100	1805
Cocaine. Sterilizing and preserving	W. C. Riley	704,758	July 15	2584	558	100	555
Cock	G. L. Bates	713,838	Nov. 18	2652	591	101	1475
Cock adjuster for air-brakes. Angle	W. S. De Camp	696,803	Apr. 1	773	175	99	164
Cock and safety-valve. Combined gage	A. C. Calder	708,327	Sept. 9	956	216	100	2187
Cock, Angle	J. A. Helm	704,964	July 15	3049	635	100	691
Cock attachment. Gas	E. E. Kraeger	711,113	Oct. 14	1368	297	101	297
Cock, Ball	F. Flagg	700,316	May 20	2369	541	99	1604
Cock, Ball	C. Birkey	703,521	July 1	266	60, 61	100	54
Cock, Ball	A. W. Murray	703,805	July 1	793	175	100	159
Cock, Ball	D. W. Gorman	713,426	Nov. 11	1856	420	101	1296
Cock, Basin	J. P. Farley	714,684	Dec. 2	62	13	101	1850
Cock, Float-operated	R. M. Paul	717,018	Dec. 30	4721	1093	101	2805
Cock for air-brake mechanism. Angle	M. L. Heuder	706,069	Aug. 5	117	24	100	1141
Cock for gas-burners. Stop	G. D. Gibbs	704,315	July 8	1766	385	100	371
Cock for liquids. Measuring and registering	E. W. Hughes and L. Campbell	697,844	Apr. 15	2713	603	99	608
Cock for multiple-light gaseliers. By-pass stop	W. H. W. Fährdrich	704,678	July 15	2434	526	100	524
Cock for water-heaters. Combined gas and water	W. B. Folger	690,413	Jan. 7	44	11	98	12
Cock, Gage	W. I. Staaf	708,785	Sept. 9	1425	328	100	2285
Cock, Gage	F. D. Leidecker	711,983	Oct. 28	3085	677	101	691
Cock, Gas-fixture	J. D. Sturges	691,502	Jan. 21	2154	483	98	484
Cock, Gas stop	M. R. Colvin	699,659	May 13	1022	238	99	1399
Cock, Hydrant	J. H. Kidder	707,119	Aug. 19	2138	478	100	1588
Cock or faucet	W. H. Douglas	704,522	July 15	2177	471	100	472
Cock or faucet	R. F. Lindsay	706,573	Aug. 12	1111	246	100	1556
Cock, Plug	L. J. Bordo	710,744	Oct. 7	667	139	101	136
Cock, Plug	L. J. Bordo	713,052	Nov. 11	1102	254	101	1129
Coffee-hulling machine	L. N. Glaser	698,007	Apr. 22	3025	665	99	692
Cock safety attachment. Gas	A. M. Merrill	705,419	July 22	4022	872	100	864
Cock, Self-closing	P. Schwegel	704,121	July 8	1417	304	100	298
Cock, Spring compression	E. G. Hedges	696,434	Apr. 1	76	18	99	21
Cock, Stop	D. B. Whitehill	692,394	Feb. 4	305	74	98	863
Cock, Stop and waste	E. Munger	694,880	Mar. 4	1050	232	99	1204
Cock, Waste	H. H. Butler and W. A. Dailey	696,091	Mar. 25	3276	741	98	2443
Cocoanut-cutting machine	F. Baker, Jr., and E. J. Fritsch	709,811	Sept. 23	3511	791	100	2749
Coffee and tea pot. Combination	W. Rohrbacher and R. Weddell	695,173	Mar. 11	1607	356	98	2069
Coffee, &c. Apparatus for making	F. W. Dallinger	699,495	May 6	694	161	99	1320
Coffee. Apparatus for the treatment of	H. S. Maxim	701,750	June 3	843	186	99	2285
Coffee-berry-cleaning apparatus	W. A. Hastings and N. J. Harrington	700,327	May 20	2386	545	99	1697
Coffee-hulling machine	A. H. Hopkins	690,429	Jan. 7	51	17, 18	98	20
Coffee. Machine for the torrefaction of	F. Thiel	699,426	May 6	577	131	99	1294
Coffee-maker	T. K. Baker	710,132	Sept. 30	4157	936	100	2897
Coffee-maker	T. K. Baker	710,133	Sept. 30	4158	937	100	2897
Coffee. Means for roasting	E. Boyes	697,129	Apr. 8	1403	312	99	319
Coffee or tea pot	S. J. Freeman	691,652	Jan. 14	1300	313	98	286
Coffee or tea pot attachment	W. R. Montgomery	693,413	Feb. 18	9277	499	98	1314
Coffee-pot	J. E. Bickel	692,761	Feb. 4	250	217	98	994
Coffee-pot	F. N. Wilcox and J. S. Gaiennie	699,604	May 6	901	210	99	1361
Coffee-pot	C. E. Ziegler	702,122	June 10	1517	342	99	2438
Coffee-pot	M. H. Sexton	704,586	July 15	2388	497	100	494



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Coffee-pot.....	H. Nutrizio.....	707,937	Aug. 26	3776	847	100	1940
Coffee-roaster.....	E. Linaberry.....	693,873	Feb. 25	3146	696	98	1510
Coffee-roaster.....	T. M. Ward.....	703,508	July 1	230	54, 55	100	47
Coffee-roaster.....	F. Krux.....	706,571	Aug. 12	1109	246	100	1355
Coffee-roasting apparatus.....	E. Bennett.....	698,246	Apr. 23	3493	708	99	789
Coffee substitutes. Obtaining.....	H. S. Maxim.....	698,662	Feb. 18	2743	769	98	1410
Coffee, tea, &c. Means for maintaining in heated condition decoctions of.....	E. Boyes.....	695,141	Mar. 11	1551	844	98	2057
Coffee-torrefying apparatus.....	V. C. Burel, G. Randou, and G. Remy.....	698,445	Apr. 29	3844	847	99	878
Coffin.....	T. A. Smith.....	716,122	Dec. 16	2856	629	101	2465
Coffin-lining. Metallic.....	W. W. Grocott.....	717,391	Dec. 30	5414	1177	101	3046
Coffin-protector.....	S. L. Black and H. P. Bunker.....	696,707	Apr. 1	596	154	99	139
Coffin-rest.....	J. L. Brannock.....	714,663	Dec. 2	17	4	101	1840
Coffin sides. Apparatus for making.....	L. G. Kregel.....	711,054	Oct. 14	1259	274	101	275
Coffin sides. Making.....	L. G. Kregel.....	711,055	Oct. 14	1261	274	101	276
Cog-wheel.....	F. Saxon.....	702,747	June 17	2674	615	99	2306
Coherer.....	H. Shoemaker.....	691,815	Jan. 28	2761	622	98	626
Coherer.....	H. Shoemaker.....	700,708	May 20	3107	706	99	1850
Coherer.....	G. W. Pickard.....	708,070	Sept. 2	1223	31	100	2008
Coil-taping machine.....	W. H. Bangs.....	715,941	Dec. 16	2496	550	101	2389
Coin-actuated machine.....	P. S. Gattolliat.....	704,312	July 8	1758	384	100	370
Coin-actuated mechanism for newspaper-delivery boxes.....	W. S. Conner.....	693,640	Feb. 18	2709	598	98	1408
Coin alarm and registering apparatus.....	A. Barrett.....	704,954	July 15	3026	650	100	648
Coin-assorter.....	K. J. Backsack.....	695,080	Mar. 11	1127	313	98	2031
Coin card or mailer.....	L. R. Lindley.....	691,950	Jan. 28	3007	679	98	175
Coin-case.....	B. B. Anderson.....	709,656	Sept. 23	3198	714	100	2085
Coin-controlled apparatus.....	J. H. Champ.....	691,746	Jan. 28	2624	588	98	599
Coin-controlled apparatus.....	H. G. Sweeney.....	694,693	Mar. 4	686	149	98	1856
Coin-controlled apparatus.....	B. F. Fowler.....	695,922	Mar. 25	2959	670	98	2378
Coin-controlled apparatus.....	A. W. Havens.....	703,062	June 24	3286	757	99	2838
Coin-controlled apparatus.....	A. Baumgarten.....	705,017	July 22	3164	683	100	691
Coin-controlled apparatus.....	S. L. Long.....	713,779	Nov. 18	2543	566	101	1453
Coin-controlled apparatus.....	J. A. Williams.....	716,505	Dec. 23	3616	730	101	2637
Coin-controlled apparatus. Brake mechanism for.....	G. W. Rowse.....	691,181	Jan. 14	1513	341	98	330
Coin-controlled-apparatus contact-disk.....	C. A. Yale.....	692,966	Feb. 11	1384	300	98	1110
Coin-controlled apparatus. Fraud-preventing device for.....	O. E. Sorg.....	690,476	Jan. 7	191	38, 39	98	41
Coin-controlled-apparatus motor.....	C. A. Yale.....	692,965	Feb. 11	1381	300	98	1109
Coin-controlled case for fans, &c.....	F. A. Cammann.....	716,803	Dec. 30	4416	958	101	2834
Coin-controlled device.....	H. G. Sweeney.....	703,621	July 1	440	102	100	86
Coin-controlled device.....	J. D. Kneidler.....	705,362	July 22	3324	850	100	843
Coin-controlled machine.....	W. W. Rosenfield.....	701,940	June 10	1172	268	99	2309
Coin-controlled machine.....	F. J. Hall and P. S. Stauffer.....	707,773	Aug. 26	3451	778	100	1877
Coin-controlled mechanism.....	A. C. Roebuck and F. McMillan.....	693,157	Feb. 11	1765	388	98	1185
Coin-counter.....	J. W. Davis.....	715,247	Dec. 9	1144	245	101	2087
Coin counting, registering, and wrapping machine.....	C. S. Batdorf.....	691,495	Jan. 21	2032	456	98	458
Coin-delivery apparatus.....	J. H. Albert and F. A. Wiggins.....	715,735	Dec. 16	2052	459	101	2293
Coin-delivery device.....	J. M. Butcher.....	697,396	Apr. 8	1888	421	99	420
Coin-delivery device.....	J. M. Butcher and W. G. Hartwig.....	707,065	Aug. 12	2030	453	100	1549
Coin-delivery machine.....	A. M. Crothers.....	700,306	May 20	2351	535	99	1691
Coin-delivery machine.....	E. J. Brandt.....	703,174	June 24	3501	804	99	2879
Coin-delivery machine.....	E. J. Brandt.....	703,175	June 24	3504	805	99	2880
Coin-depositing apparatus.....	G. F. Lehrke.....	714,587	Nov. 25	4111	909	101	1794
Coin-freed apparatus for delivering sweets, &c.....	E. A. Jeffreys.....	697,148	Apr. 8	1440	322	99	326
Coin-freed apparatus for sale of stamps, tickets, &c.....	K. Uchermann.....	696,611	Apr. 1	392	92	98	86
Coin-holder.....	J. Williams.....	690,806	Jan. 7	847	187	98	178
Coin-holder.....	T. O. Miller.....	693,047	Feb. 11	1526	332	98	1140
Coin-holder.....	A. Anderson.....	704,731	July 15	2529	547	100	544
Coin-holder.....	S. Ray.....	708,783	Sept. 9	1338	303	100	2363
Coin-holder.....	C. W. McCarter.....	715,500	Dec. 9	1615	349	101	2183
Coin-holder or bank. Pocket.....	E. E. English.....	702,293	June 10	1803	412	99	2496
Coin-operated machine.....	C. L. Hurd.....	694,282	Feb. 25	3938	877	98	1669
Coin or metal detector.....	F. E. J. Litot and A. Mayer.....	692,318	Feb. 4	179	41	98	836
Coin-receptacle.....	F. H. Haley.....	693,515	Feb. 18	2457	539	98	1351
Coin-receptacle.....	W. J. and G. S. O'Neill.....	712,087	Oct. 28	3285	720	101	729
Coin-receptacle safety device.....	A. C. Rogers.....	696,194	Mar. 25	3504	785	98	2490
Coin-receptacle safety device.....	A. C. Rogers.....	715,609	Dec. 9	1815	403	101	2224
Coin weighing and counting machine.....	C. W. Reeves.....	690,876	Jan. 7	956	215	98	201
Coins, &c. Receptacle for.....	C. B. Pike.....	708,731	Sept. 9	1325	302	100	2262
Coke and the recovery of gases therefrom. Apparatus for the manufacture of.....	T. S. C. Lowe.....	711,904	Oct. 21	2909	642	101	637
Coke. Apparatus for the manufacture of.....	P. Naef.....	701,219	May 27	4072	937	99	2067
Coke-drawer.....	D. Ferguson.....	707,686	Aug. 26	3239	727	100	1833
Coke-handling apparatus.....	E. N. Trump.....	695,970	Mar. 25	3037	689	98	2393
Coke-loading apparatus.....	S. T. and C. H. Wellman, J. W. Seaver, and T. R. Morgan.....	698,235	Apr. 23	3474	764	99	785
Coke. Making.....	P. Naef.....	706,443	Aug. 5	903	195	100	1298
Coke-making plant.....	W. Kennedy.....	691,148	Jan. 14	1451	380	98	317

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Coke. Manufacturing.....	J. W. Seaver.....	707,325	Aug. 19	2896	655	100	1747
Coke. Manufacturing.....	T. S. C. Lowe.....	711,905	Oct. 21	2916	1642	101	638
Coke-oven.....	R. D. Martin.....	690,718	Jan. 7	745	166	98	157
Coke-oven.....	M. E. Rothberg.....	705,446	July 22	4065	1882	100	873
Coke-oven.....	W. T. Gates.....	707,914	Aug. 26	3735	837	100	1391
Coke-oven.....	J. M. Hunker.....	711,500	Oct. 21	2122	461	101	470
Coke-oven.....	H. Kennedy.....	713,648	Nov. 18	2303	513	101	1491
Coke-oven-charging device.....	A. Ernst.....	713,413	Nov. 11	1833	1413	101	1290
Coke-oven. Retort.....	J. F. Wilcox and D. E. Wagener.....	711,268	Oct. 14	1676	1360	101	362
Coke-oven unloading mechanism.....	G. H. McCracken.....	717,440	Dec. 30	5511	1190	101	3063
Coke-ovens. Combined charging and discharging device for.....	S. T. and C. H. Wellman and J. W. Seaver.....	692,746	Feb. 4	927	211	98	988
Coke-ovens or other kilns tight. Making the interior of.....	R. Kuhn.....	705,681	July 29	4576	994	100	986
Coke-ovens, &c. Wall construction for.....	H. Koppers.....	714,195	Nov. 25	3388	746	101	1650
Coke quenching or cooling apparatus.....	L. Bertrand.....	707,379	Aug. 19	2626	1592	100	1690
Coking coal. Continuous process of.....	J. Hemingway.....	705,926	July 29	5017	1092	100	1075
Colander.....	M. C. Jenkins.....	692,296	Feb. 4	138	33	98	827
Collapsible box.....	H. H. Kinsey.....	696,451	Apr. 1	104	24	99	27
Collapsible box.....	A. Silbiger.....	698,568	Apr. 23	1344	805	99	919
Collapsible box.....	O. Peil.....	707,962	Aug. 26	3818	838	100	1948
Collapsible box.....	G. O. Crawford.....	715,026	Dec. 2	737	156	101	1985
Collapsible reel.....	F. English.....	701,317	June 3	70	15	99	2123
Collapsible seat.....	A. E. Brockett.....	695,426	Mar. 11	2039	457	98	2157
Collar.....	S. W. Woodbury.....	692,098	Jan. 25	3274	740	98	729
Collar.....	E. F. Brown.....	709,074	Sept. 16	2040	465	100	2480
Collar and necktie fastener.....	W. Ferguson.....	713,418	Nov. 11	1816	416	101	1293
Collar attachment.....	G. A. Redhead.....	693,442	Feb. 13	2312	507	98	1322
Collar-blanks, &c. Folding-machine for.....	R. D. Viele, E. M. Walker, and T. D. Robinson.....	693,931	Feb. 25	3264	719	98	1533
Collar-blanks, &c. Machine for folding.....	W. W. and W. L. Dixon.....	694,844	Mar. 4	963	215	98	1916
Collar-blanks, &c. Machine for folding.....	M. J. Locke.....	701,964	June 10	1110	254	99	2256
Collar-blanks, &c. Machine for folding.....	C. J. Dormandy.....	708,030	Sept. 2	58	14	100	1993
Collar-blanks, &c. Machine for folding.....	C. H. Knapp.....	713,112	Nov. 11	1297	289	101	1166
Collar-blanks, &c. Machine for folding.....	J. Maitland and W. J. Beattie.....	713,230	Nov. 11	1454	329	101	1213
Collar-blanks, &c. Machine for folding.....	G. J. Dormandy.....	714,787	Dec. 2	263	54	101	1891
Collar-blanks, &c. Machine for folding.....	G. J. Dormandy.....	714,788	Dec. 2	272	57	101	1892
Collar-blocking machine. Horse.....	R. Dodson.....	694,733	Mar. 4	765	170	98	1873
Collar-blocking machine. Horse.....	J. M. Hjermstad.....	701,880	June 10	1066	240	99	2346
Collar casing. Horse.....	A. G. Couch.....	699,151	May 6	44	12	99	1185
Collar-fastener.....	G. H. Wilson.....	699,050	Apr. 29	5036	1114	99	1135
Collar-fastener.....	N. G. Deaton.....	703,046	June 24	3254	748	99	2681
Collar-fastener. Interlocking.....	H. Dalgety.....	705,212	July 22	3574	773	100	774
Collar for horses or the like.....	J. Ahrendt.....	707,514	Aug. 26	3537	798	100	1893
Collar-foundation.....	B. S. Nichols.....	699,847	May 13	1400	323	99	1476
Collar-foundation.....	A. A. Dieter.....	714,461	Nov. 25	3552	857	101	1747
Collar. Horse.....	H. J. Breeze.....	690,632	Jan. 7	509	111	98	109
Collar. Horse.....	F. Maussner.....	691,569	Jan. 21	2242	505	98	503
Collar. Horse.....	E. L. Brundage.....	699,143	May 6	31	9	99	1182
Collar. Horse.....	B. Allen, Jr.....	715,333	Dec. 9	1310	280	101	2124
Collar. Pneumatic horse.....	C. S. Boehm.....	694,339	Feb. 25	4111	914	98	1696
Collar-shaper.....	A. J. Underhill.....	691,023	Jan. 14	1245	251	98	275
Collar. Split.....	E. H. Sexton.....	709,366	Sept. 16	2637	591	100	2557
Collar stuffing. Horse.....	B. H. Rueter.....	694,198	Feb. 25	3788	837	98	1638
Collar-support and necktie-retainer.....	W. J. Graham and H. Goddard.....	711,659	Oct. 21	2419	532	101	532
Collar sweat-pad. Horse.....	W. H. Osmer.....	691,729	Jan. 21	2564	575	98	569
Collar turner and edger.....	E. Weber.....	691,029	Jan. 14	1255	284	98	276
Collar turning and ironing machine.....	C. C. Gridley.....	705,666	July 29	4543	988	100	981
Collars, cuffs, &c. Stiffening and making impervious to water starch-filled and ironed laundry-finished substance of bodies of.....	H. A. Mann.....	700,793	May 27	3297	99	1906	
Collars. Drying.....	R. Cluett.....	707,823	Aug. 26	3555	803	100	1897
Collars, &c. Machine for reinforcing.....	J. H. Shepherd.....	713,247	Nov. 11	1496	339	101	1218
Collars, &c. Machine for shaping.....	A. R. Gustafson.....	701,716	June 3	785	174	99	2272
Collars, &c. Machine for shaping and smoothing.....	A. R. Gustafson.....	701,715	June 3	782	173	99	2272
Collars. Making.....	W. W. Searle.....	713,807	Nov. 18	2596	578	101	1464
Collating-machine.....	T. C. Dexter.....	691,333	Jan. 25	2958	666	98	667
Collection-form.....	A. F. Sanford.....	702,487	June 17	2190	499	99	2596
Colliery waste. Utilizing carboniferous.....	C. Dörr.....	703,696	July 1	601	500	100	119
Collisions at sea. Apparatus for preventing.....	N. Gherassimoff.....	693,855	Feb. 25	3112	689	98	1504
Color and making same. Ferro-chrome.....	A. Haagen.....	693,703	Feb. 18	2827	98	1426	
Color and making same. Indigo.....	H. S. A. Holt.....	715,074	Dec. 2	828	101	2005	
Color-holder.....	S. A. White.....	692,040	Jan. 28	3159	713	98	706
Colors. Making mordant.....	M. Lange and T. Emilewicz.....	702,445	June 17	2102	99	2577	
Coloring apparatus. Yarn.....	A. Fornander.....	705,394	July 22	3869	887	100	832



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date	Monthly volume		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Coloring-matter. Compound suitable for producing	P. Julius and F. Günther	713,447	Nov. 11	1890		101	1301
Coloring-tool	H. Schickler	691,184	Jan. 14	1520	343	98	332
Colter	S. A. Ingersoll	710,395	Sept. 30	4625	1043	100	2996
Colter-bearing	T. R. Wallis	714,070	Nov. 18	3121	690	101	1574
Colter-fastening device. Plow	C. C. Chappel	694,351	Mar. 4	18	4	98	1716
Colter. Plow	A. H. Johnson	714,192	Dec. 2	551	118	101	1946
Column. Built-up	W. M. Beard	690,188	Mar. 25	3498	788	98	2188
Column capital and attachment	C. H. Howland-Sherman	712,299	Oct. 28	3053	707	101	803
Column for architectural purposes. Sectional	F. A. Spencer	714,251	Nov. 25	3494	769	101	1670
Column-joint	W. H. Fenwick, Jr.	714,886	Dec. 2	500	104	101	1936
Column-step	T. J. Younglove	697,310	Apr. 8	1727	385	99	387
Columns. Compo cap for mantel	E. S. Kennedy	691,635	Jan. 21	2398	539	98	534
Columns. Forming compo caps for	E. S. Kennedy	691,704	Jan. 21	2319	564	98	530
Columns. Mold for compo caps for mantel	E. S. Kennedy	691,636	Jan. 21	2359	539	98	534
Comb							
See Currycomb.							
Fountain-comb.							
Tuck-comb.							
Comb	E. B. Kingman	691,946	Jan. 28	2990	672	98	673
Comb	A. B. Durgin	707,563	Aug. 26	2983	673	100	1781
Comb	A. B. Durgin	707,564	Aug. 26	2984	673	100	1781
Comb	W. Kronheim	707,598	Aug. 26	3057	688	100	1796
Comb	J. A. Clinton	713,402	Nov. 11	1822	410	101	1288
Comb	F. Mosterts	715,837	Dec. 16	2371	505	101	2339
Comb and brush. Combined	E. T. Robinson	691,873	Jan. 28	2855	643	98	646
Comb and hat fastener. Combination	B. Leu and V. Sjöström	712,691	Nov. 4	117	98	101	984
Comb-cleaner	H. Hess	691,378	Jan. 21	1995	435	98	437
Comb-cleaner	A. and C. Syverson	694,040	Feb. 25	3516	772	98	1581
Comb-cleaner	S. L. Kistler	705,597	July 1	990	91	100	78
Comb for spacing the mesh of woven fabrics	G. O. Redpath	692,347	Feb. 4	230	55	98	846
Combs. Manufacturing celluloid	C. Bensinger. (Reissue)	11,976	Mar. 25	3939	872	98	2579
Combing and shearing machine. Combined	S. W. Kaplan	699,470	May 6	653	151	99	1311
Combing-machine	A. Wenning and C. H. Gégauff	712,222	Oct. 28	3520	771	101	775
Combing-machine comb	I. Hey	702,302	June 10	1820	415	99	2499
Combing wool, &c. Machine for	I. Hey	702,301	June 10	1818	415	99	2499
Combination-chair	C. F. G. Behr	710,409	Oct. 7	22	5	101	7
Combination draft-furnace	O. D. Orvis	709,174	Sept. 16	2239	509	100	2471
Combination-drill	L. Sack	716,764	Dec. 23	4106	901	101	2742
Combination-lock	W. J. Neidl	697,651	Apr. 15	2367	527	98	532
Combination-lock	W. H. S. Moore	699,845	May 13	1397	322	99	1476
Combination-lock	W. J. Carroll	709,078	Sept. 16	2047	468	100	2431
Combination-lock	J. W. Gonce	710,449	Oct. 7	91	20, 21	101	20
Combination-lock	H. C. Lowrie	711,325	Oct. 14	1790	387	101	388
Combination-wrench	C. J. Barnes	690,688	Jan. 7	615	134	98	130
Combination wrench	G. E. R. Rothenbuecher	708,741	July 1	675	150	100	135
Combined or laminated material	J. T. Johnson	696,567	Apr. 1	314	73	99	71
Combustion. Fluid for promoting	T. Battistini	700,888	May 27	3472	99	1940	
Combustion. Means for promoting	F. W. Werner	709,948	Sept. 30	3790	855	100	2819
Combustion process	J. Tatham	709,372	Sept. 16	2646	593	100	2558
Combustion-producing apparatus	L. D. West	698,607	Apr. 29	4155	914	99	941
Combustion promoting and controlling device	E. Baumgartner	705,635	July 23	4491	975	100	969
Commutating-machine	C. E. Geiger and J. E. Turney	695,878	Mar. 18	2870	631	99	2347
Commode	J. B. Frost	690,415	Jan. 7	47	12	98	13
Commode. Sanitary	L. R. Damon	709,305	Sept. 16	2500	563	100	2327
Commode stand and seat. Folding	J. H. Prentice	694,890	Mar. 4	1064	235	98	1937
Commode-stool	W. H. Young	703,690	July 1	591	131	100	117
Communication with the aid of electromagnetic devices.	I. Kitsee	715,817	Dec. 16	2234	498	101	2331
Communionservice. Individual	C. P. Harris	697,247	Apr. 8	1607	361	99	360
Commutator	E. D. Priest and G. L. Schermerhorn	696,488	Apr. 1	171	41	99	41
Commutator-brush	C. G. Curtis	690,516	Jan. 7	289	58	98	63
Commutator-brush	W. B. Potter	712,591	Nov. 4	248	61	101	949
Commutator-brush holder	W. J. Richards	708,064	Sept. 9	1197	273	100	2335
Commutator. Electric	E. Batault	691,730	Jan. 28	2612	586	98	597
Commutator-forming apparatus	A. F. Petch	691,869	Jan. 28	2850	642	98	645
Commutator-leads. Means for attaching	W. F. Dawson	712,046	Oct. 28	3194	698	101	712
Commutator oil-guard	W. F. Dawson	714,158	Nov. 25	3314	732	101	1635
Commutator-segment	W. H. Windle	702,372	June 10	1774	405	99	2490
Commutator-trimming apparatus	J. Phillips	696,479	Apr. 1	156	37, 38	99	38
Commutators. Suppressing sparking of	R. H. Read	716,476	Dec. 32	3560	777	101	2625
Comparing handwritings or other objects. Apparatus for	J. de Bruyn. (Martinus G. Zoon)	706,297	Aug. 5	595	129	100	1235
Compartment-box	P. Diehl	716,003	Dec. 16	2618	576	101	2415
Compartment-box for checks or the like	J. T. Hicks	707,325	Aug. 19	2337	570	100	1672
Compass and great-circle-course projector. Stellar	R. T. Lawless	703,130	June 24	3438	788	99	2408
Compass. Binnacle	J. Paoli	701,927	Nov. 10	1146	263	99	288
Compass errors. Device for correcting	J. Christensen	699,450	May 9	612	140	99	1392
Compass-light	O. E. Eaton and F. C. Burrill	705,050	July 22	3218	696	100	702
Compass. Pocket	C. C. Rueger	709,046	Sept. 16	1982	433	100	2416
Compasses	C. Brandell	699,738	Sept. 23	3340	753	100	2715
Compasses. Beam	G. Tucker	691,837	Jan. 28	2783	625	98	631
Compasses. Extension	G. E. Gove	714,575	Nov. 25	4083	903	101	1788
Compasses. Needle	J. Bossart-Bächli	710,242	Sept. 30	4393	980	100	2941
Compensating system	J. F. Kelly	716,429	Dec. 23	3463	755	101	2605
Composing-machine keyboard attachment	D. W. Fratcher	704,183	July 8	1543	332	100	323
Composing-machines. Differential letter-space register for	G. A. Goodson	696,732	Apr. 1	637	143	99	138
Composing tabular matter. Machine for	M. C. Indahl	700,330	May 20	2390	546	99	1603

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Composite material.	E. C. Hegan	695,309	Mar. 11	1859	414	98	2119
Composite material.	G. Kelly	1,963,343	Mar. 25	3812	850	98	2555
Composition of matter	H. A. Hughes, Jr.	691,383	Jan. 21	1941		98	438
Composition of matter	F. Jones and C. L. Pennell	695,730	Mar. 18	2599		98	2299
Composition of matter	G. L. de Lenchères	702,140	June 10	1544		98	2444
Composition of matter	T. O. Pause	703,151	June 24	3450		98	2872
Composition of matter	J. Murphy	707,788	Aug. 26	3488		100	1883
Composition of matter	E. L. Livingstone and W. A. Vandercook	708,774	Sept. 9	1405		100	2280
Composition of matter	O. Russell	714,039	Nov. 18	3059		101	1503
Composition of matter	J. Poliakoff	714,235	Nov. 25	3470		101	1665
Composition of matter	J. W. Brown	715,751	Dec. 16	2093		101	2303
Composition of matter and manufacturing same	A. Ramsdell	716,276	Dec. 16	3151		101	2525
Composition of matter and preparation of same	W. Prampolini	702,678	June 17	2549		99	2671
Compound engine.	W. Hopkins	700,930	May 27	3553	1817	99	1957
Compound engine	J. H. Wescott	710,910	Oct. 7	961	212	101	196
Compound engine and valve therefor	S. M. Vauchain	694,702	Mar. 4	703	153	98	1860
Compound engine. Telescopic.	W. Schneider	690,620	Jan. 7	489	105	98	104
Compound or multiple-cylinder engine	I. Kling	700,508	May 20	2743	627	99	1771
Compress	M. M. Kerr	707,426	Aug. 19	2721	616	100	1711
Compress and packer	J. B. Griffin and S. C. Anderson	702,201	June 10	1659	371	99	2467
Compressed-air drill	F. Weimar	692,393	Feb. 4	304	74	98	863
Compressor	F. W. Parsons	693,434	Feb. 18	2303	504	98	1320
Compressor	F. W. Parsons	704,914	July 15	2919	626	100	628
Compressor	J. Stumpf	706,276	Aug. 5	554	120	100	1227
Compressor	F. Wittenmeier	711,689	Oct. 21	2491	546	101	550
Compressor-valve mechanism	J. A. Coombs	711,939	Oct. 28	2997	547	101	674
Computing-chart	L. B. Manley	710,288	Sept. 30	4437	1001	100	2958
Computing-machine	E. Roenius	704,114	July 8	1401	301	100	295
Computing-machine	A. C. Schuman	709,363	Sept. 16	2618	588	100	2553
Computing-machine	J. M. Daly	715,461	Dec. 9	1536	590	101	2168
Computing-machine. Gravity-	J. M. Daly	715,460	Dec. 9	1533	333	101	2167
Concentrating-table	J. A. B. Wesley	692,495	Feb. 4	480	113	98	897
Concentrating-table-operating device	A. W. Johnson	712,984	Nov. 4	885	207	101	1078
Concentrator	B. W. Traylor	695,969	Mar. 25	3035	688	98	2303
Concentrator	J. A. Lebrunner	696,058	Mar. 25	3212	726	98	2430
Concentrator	W. H. Sullivan	696,913	Apr. 1	1001	223	99	2111
Concentrator	M. D. Rochford	698,737	Apr. 29	4444	982	99	1006
Concentrator	J. A. Holmes and J. F. Wood	709,770	Sept. 23	3425	769	100	2730
Concentrator	A. Ten Winkel	713,814	Nov. 18	2605	580	101	1465
Concrete and masonry structures. Building	W. C. Parmley	712,841	Nov. 4	710	164	101	1044
Concrete and metal skeleton for building purposes.	O. Ruhl	700,443	May 20	2608	596	99	1744
Concrete-body-molding machine	M. A. Winget	694,123	Feb. 25	3636	803	98	1608
Concrete column.	O. W. Norcross	701,377	June 3	170	37	99	2143
Concrete-conductor	W. W. Montgomery	702,372	June 10	1951	443	99	2325
Concrete construction	E. L. Ransome	694,580	Mar. 4	470	101	98	1813
Concrete construction. Reinforced	E. L. Ransome	694,577	Mar. 4	467	100	98	1812
Concrete. Coupling metal bars in reinforced	E. L. Ransome	694,576	Mar. 4	467	100	98	1812
Concrete joint	E. L. Ransome	694,578	Mar. 4	469		98	1812
Concrete-mixer	E. L. Ransome	694,575	Mar. 4	465	100	98	1812
Concrete-mixer	H. J. Phillips and M. F. Guiney	711,524	Oct. 21	2171	474	101	481
Concrete-mixing apparatus	C. T. Drake	699,668	May 13	1037	242	99	1402
Concrete-mixing machine	C. Otis	702,881	June 17	2923	674	99	2748
Concrete, &c. Mixing-machine for	W. B. Cavin	701,465	June 3	329	72	99	2176
Concrete or the like. Machine for mixing.	W. J. Judd	705,676	July 29	4564	992	100	984
Concrete preparing and laying machine	J. T. Dempsey	693,844	Feb. 25	3093	684	98	1500
Concrete structures. Mold for	C. F. Lancaster	699,625	May 6	943	218	99	1369
Concrete troughs or other articles. Mold for forming	I. Haws	710,391	Sept. 30	4618	1042	100	2995
Condenser	F. Sargent	697,666	Apr. 15	2394	532	99	537
Condenser	E. Josse	703,793	July 1	775	169	100	155
Condenser	F. Lamplough	713,776	Nov. 18	2539	565	101	153
Condenser and water-heater. Tubular	C. P. Horton	690,729	Jan. 7	314	694	101	1577
Condenser for explosive motors or engines. Exhaust-	R. Whitson	714,080	Nov. 18	3134	694	101	1577
Condenser for steam motor-carriages	F. W. Turner	699,726	May 13	1147	268	99	1424
Condenser for steam-propelled cars or vehicles. Air-	E. R. Bridson and H. Brough	714,445	Nov. 25	3855	852	101	1741
Condenser. Fractional	V. Slavicek	696,206	Mar. 25	3526	789	98	2495
Condenser. Induction	L. Schutte	704,585	July 15	2915	497	100	493
Condenser or exhaust tube for steam-engines	A. P. and H. Smith	691,978	Jan. 28	3043	684	98	684
Condenser. Steam	W. E. Partridge	691,170	Jan. 14	1197	338	98	327
Condenser. Steam-motor	A. P. Dodge	711,387	Oct. 14	1904	414	101	412
Condenser. Steam surface	J. R. Richmond	716,760	Dec. 23	4101	900	101	2741
Condenser system	C. C. Worthington and L. R. Alberger	692,810	Feb. 4	1054	237	98	1011
Condensing apparatus.	E. R. Edson	699,793	May 13	1282	296	99	1451
Condensing apparatus. Atmospheric steam-	F. R. Brandt	707,081	Aug. 19	2070	462	100	1573
Condensing apparatus. Surface-	J. R. Richmond	719,801	Nov. 18	2385	570	101	1462



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Pr'g.	Vol.	Page.
Condensing-coil .....	A. Siebert .....	694,797	Mar. 4	894	198	98	1901
Condensing or cooling apparatus .....	C. C. Hill .....	708,712	Sept. 9	1290	294	100	2254
Condensing or cooling fluids. Apparatus for .....	W. S. Colwell .....	716,383	Dec. 23	3370	736	101	2584
Condensing steam or cooling fluids .....	T. M. Colwell .....	705,321	July 22	3812	827	100	821
Condensing system. Steam .....	J. D. McRae .....	700,223	May 20	2162	495	99	1652
Conduit .....	T. L. Healy .....	701,037	May 27	3759	99	2001	
Conductor-carrier .....	A. H. Stewart .....	695,504	Mar. 18	2176	491	98	2204
Conductor for electromagnetic induction apparatus .....	H. H. Wait .....	693,578	Feb. 18	2591	573	98	1378
Conductor system. Multiple .....	A. D. Lunt .....	697,733	Apr. 15	2516	561	99	563
Conductors from non-conductors. Apparatus for separating .....	W. G. Swart and L. I. Blake .....	701,417	June 3	238	53	99	2156
Conductors. Manufacturing contact pieces between first and second class .....	W. Boehm .....	695,600	Mar. 18	2377	98	2246	
Conduit .....	P. A. McGeorge .....	695,478	Mar. 18	2130	480	98	2195
Conduit .....	V. H. Yarnall .....	695,594	Mar. 18	2368	537	98	2244
Conduit .....	W. Houghton .....	697,485	Apr. 15	2064	456	99	473
Conduit .....	C. D. Budd .....	698,902	Apr. 29	4796	1056	99	1085
Conduit .....	T. J. Milner .....	701,214	May 27	4064	934	99	2065
Conduit .....	W. L. McGowan .....	708,446	July 1	139	32	100	30
Conduit .....	W. L. McGowan .....	708,447	July 1	142	32	100	31
Conduit .....	W. L. McGowan .....	709,504	Sept. 23	2944	657	100	2633
Conduit and conductor .....	P. A. McGeorge .....	696,072	Mar. 25	3241	733	98	2435
Conduit-bushing .....	H. Ill .....	698,398	Feb. 18	2240	491	98	1306
Conduit-clamp .....	F. O. Wellington .....	705,984	July 29	5118	1116	100	1096
Conduit for electric or like cables .....	C. A. W. Hultman .....	697,845	Apr. 15	2714	603	99	608
Conduit for underground conductors .....	F. Jones .....	696,737	Apr. 1	647	146	99	139
Conduit or tube. Flexible .....	G. A. Lutz .....	706,076	Aug. 5	146	30	100	1146
Conduit outlet-box. Interior .....	W. F. Bossert .....	696,710	Apr. 1	601	135	99	130
Conduit outlet-box. Interior .....	W. F. Bossert .....	705,026	July 22	3176	686	100	694
Conduit outlet-box. Interior .....	F. W. Erickson .....	712,514	Nov. 4	91	23	101	916
Conduit outlet-box. Interior .....	H. D. Betts and R. M. Thomas .....	713,386	Nov. 11	1798	404	101	1282
Conduit outlet-boxes. Making .....	W. F. Bossert .....	698,709	Apr. 1	599	135	99	130
Conduit-rod coupling .....	J. F. Greaves .....	698,916	Sept. 23	3408	705	100	2377
Conduit. Sectional .....	W. L. McGowan .....	712,839	Nov. 4	106	164	101	1043
Conduit-sections. Machine for cutting recesses in .....	R. W. Lyle .....	709,025	Sept. 16	1945	446	100	2408
Conduits. Means for inserting cords or the like into underground .....	L. J. Bergdoll .....	697,315	Apr. 8	1736	387	99	389
Conduits with rubber in cement or liquid form. Apparatus for covering flexible .....	J. T. Dickey .....	701,472	June 3	344	76	99	2180
Confectioner's molder or printer. Shear-motion .....	H. O. Kellogg .....	699,687	May 13	1081	252	99	1411
Confectionery-cutter .....	M. A. Smith .....	698,667	Apr. 29	4726	1041	99	1071
Confectionery-cutting machine .....	R. Snedden .....	691,499	Jan. 21	2148	482	98	483
Confectionery-depositing machine .....	G. Carlson .....	712,649	Nov. 4	353	82	101	971
Confectionery-machine .....	W. S. Dillon .....	695,801	Mar. 18	2731	622	98	2317
Confections. Making frozen .....	P. Marine .....	692,323	Feb. 4	189	43	98	839
Confections. System for heating liquid or semi-liquid .....	F. P. Ziegler .....	715,189	Dec. 2	1080	223	101	2046
Connecting device .....	J. R. Carter .....	694,459	Mar. 4	233	51	98	1762
Connecting device .....	J. R. Carter .....	696,519	Apr. 1	280	65	99	63
Connecting device .....	I. Larsen .....	699,398	May 6	518	119	99	1282
Connecting-rod .....	H. M. McCall .....	711,732	Oct. 21	2571	565	101	567
Connecting-rod key. Automatic .....	E. J. Brewster .....	711,241	Oct. 14	1634	352	101	355
Connector .....	G. W. Cravens .....	714,693	Dec. 2	459	98	101	1628
Consecutive-view apparatus .....	W. K. L. Dickson .....	695,916	Mar. 25	2351	698	98	2377
Contact structure. Surface .....	W. B. Potter .....	713,015	Nov. 4	1027	240	101	1106
Continuous downdraft-kiln .....	W. Radford .....	714,742	Dec. 2	172	34,35	101	1872
Continuous kiln .....	W. A. Butler and A. Kunze .....	708,533	July 1	282	64	100	57
Continuous kiln .....	F. E. Swift .....	708,848	July 1	870	191	100	174
Contribution-box .....	E. A. Burns .....	697,231	Apr. 8	1585	354	99	355
Control-sheet .....	M. Kuhn .....	705,254	July 22	3668	792	100	794
Control system. Multiple .....	H. W. Leonard .....	696,247	Mar. 25	3605	808	98	2510
Controller .....	G. J. Klein .....	698,841	Apr. 22	4687	1033	99	1063
Controller .....	T. von Zweigbergk .....	701,455	June 3	305	68	99	2172
Controller .....	T. von Zweigbergk .....	701,456	June 3	310	69	99	2173
Controller-handle latch .....	F. B. Corey .....	713,686	Nov. 18	2691	590	101	1483
Controlling actions at a distance. Apparatus for .....	J. Gardner .....	693,597	Feb. 18	2632	581	98	1387
Controlling device .....	W. H. Payne .....	691,968	Jan. 28	3031	681	98	681
Controlling device .....	T. P. Ford .....	701,701	June 3	762	169	99	2268
Controlling device .....	T. P. Ford .....	711,843	Oct. 21	2778	615	101	608
Controlling mechanism .....	H. Rose .....	705,302	July 22	3765	917	100	812
Controlling system .....	T. von Zweigbergk .....	691,692	Jan. 21	2499	560	98	555
Converter .....	J. S. Klein .....	695,737	Mar. 18	2611	592	98	2292
Converter .....	W. J. Knox .....	710,580	Oct. 7	373	78	101	75
Converter .....	G. C. Carson .....	714,449	Nov. 25	3861	853	101	1743
Converter. Continuous .....	G. C. Carson .....	714,451	Nov. 25	3865	854	101	1748
Converter or furnace lining .....	W. J. Knox .....	710,016	Oct. 7	975	215	101	158
Converters, &c. Means for winding .....	E. R. Gill .....	708,220	Sept. 2	419	96	100	2067
Converters or furnaces. Forming the lining of .....	W. J. Knox .....	710,588	Oct. 7	371	78	101	75
Converters. Regulating rotary .....	E. J. Berg .....	712,639	Nov. 4	339	79	101	968
Converters. Regulating rotary .....	E. J. Berg .....	712,991	Nov. 4	985	230	101	1008
Converters. Starting rotary .....	B. G. Lamme .....	710,363	Sept. 30	4566	1030	100	2384
Converters. Starting rotary .....	W. B. Potter .....	714,395	Nov. 25	3758	829	101	1722
Convertible chair .....	T. W. Washburn .....	708,278	Sept. 2	322	110	100	2087
Conveyance. Passenger and freight .....	J. H. Marsh .....	714,592	Nov. 25	4116	910	101	1795
Conveyer .....	A. J. Frith .....	690,518	Jan. 7	201	59	98	63
Conveyer .....	J. Roger .....	696,273	Mar. 25	3656	818	98	2521

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Conveyer.....	J. Oldham	697,874	Apr. 15	2773	615	99	622
Conveyer.....	G. W. Cross	698,822	Apr. 29	4625	1020	99	1048
Conveyer.....	R. A. Zwoyer	699,278	May 6	277	64	99	1290
Conveyer.....	G. A. Bronder	701,885	June 10	982	219	99	2331
Conveyer.....	M. C. Schwab	702,115	June 10	1503	338	99	2435
Conveyer.....	J. H. Cook	702,408	June 17	2030	463	99	2561
Conveyer.....	A. J. Webster	702,894	June 17	2951	680	99	2754
Conveyer.....	A. M. Acklin	702,905	June 24	2978	685	99	2777
Conveyer.....	R. S. Hill	704,540	July 15	2215	479	100	479
Conveyer.....	H. L. St. James	705,474	July 22	4116	894	100	893
Conveyer.....	F. Beck	706,204	Aug. 5	588	128	100	1234
Conveyer.....	M. Bradfield	709,737	Sept. 23	3338	753	100	2714
Conveyer.....	J. Roger	712,335	Oct. 28	3716	812	101	817
Conveyer.....	S. B. Peck	712,585	Nov. 4	238	58	101	947
Conveyer.....	M. Bradfield	714,279	Nov. 25	3556	782	101	1683
Conveyer.....	B. H. Alvey	714,432	Nov. 25	3829	848	101	1737
Conveyer.....	C. A. Gabrielsen	714,889	Dec. 2	503	105	101	1936
Conveyer.....	J. H. Hahn	715,371	Dec. 9	1373	296	101	2136
Conveyer.....	F. R. Willson, Jr	715,449	Dec. 9	1513	328	101	2164
Conveyer.....	J. D. Buchanan	716,375	Dec. 23	3356	733	101	2581
Conveyer.....	C. W. Hunt	716,423	Dec. 23	3453	753	101	2603
Conveyer.....	C. J. Allen	717,063	Dec. 30	4806	1042	101	2915
Conveyer apparatus.....	G. S. Baker	694,519	Mar. 4	347	76.77	98	1786
Conveyer apparatus.....	M. Bradfield	714,278	Nov. 25	3551	781	101	1683
Conveyer. Automatically-controlled	A. Grossmann	710,574	Oct. 7	398	72	101	68
Conveyer. Bucket	L. A. Brigel, Jr	694,245	Feb. 25	3861	856	98	1653
Conveyer. Bucket	R. W. Christian	711,555	Oct. 21	2231	485	101	494
Conveyer bucket. Endless	P. B. Clarke	709,203	Sept. 16	2299	522	100	2484
Conveyer. Chain	C. W. Levalley	700,342	May 20	2418	552	99	1704
Conveyer-chute. Self-registering	C. H. Spence	695,957	Mar. 25	3015	683	98	2389
Conveyer discharge device	J. M. Dodge	703,903	July 1	979	100	101	190
Conveyer driving mechanism	W. J. Sweetser	711,913	Oct. 21	2936	646	101	642
Conveyer end support. Spiral	J. C. Van Arsdell	701,969	June 10	1226	279	99	2380
Conveyer. Endless	W. L. McCabe	707,613	Aug. 26	3086	695	100	1802
Conveyer. Endless	J. M. Dodge	708,759	Sept. 9	1382	316	100	2275
Conveyer. Endless-belt	P. M. De Jong	706,395	Aug. 5	794	173	100	1275
Conveyer feeding mechanism	J. M. Dodge and A. D. Shaw	702,347	June 10	1908	496	99	2310
Conveyer. Horizontal	J. M. Dodge	702,906	June 24	2978	686	99	2777
Conveyer. Pneumatic	J. M. Akers	696,531	Apr. 1	247	56	99	527
Conveyer. Pneumatic	J. W. Seifert	705,310	July 22	3787	821	100	815
Conveyer. Portable	W. L. McCabe	705,778	July 29	4754	1030	100	1021
Conveyer safety-stop	P. B. Clarke	709,202	Sept. 16	2297	522	100	2483
Conveyer. Screw	J. A. Mitchell	710,879	Oct. 7	912	198	101	185
Conveyer-shaft hanger	F. R. Willson, Jr	715,448	Dec. 9	1512	327	101	2163
Conveyer. Spiral	C. G. Williams	710,387	Sept. 30	4612	1040	100	2993
Conveyer supporting-roller	W. I. Mann and N. C. Neemes	714,812	Dec. 2	321	70	101	1902
Conveyer system	M. Garland	690,943	Jan. 14	1081	243	98	242
Conveyer system	E. W. McKenna	684,067	Feb. 25	3542	781	98	1589
Conveyers. Driving mechanism for portable electric	H. W. Blaisdell	714,857	Nov. 25	3697	814	101	1711
Conveyers. Hanger coupling-bearing for screw	W. L. McCabe	707,614	Aug. 26	3087	695	100	1803
Conveyers. Reversing-cam for endless	R. G. Smith and J. H. Mathis	701,636	June 3	652	142	99	2245
Conveying and hoisting machines. Cable-carrier for	P. B. Clarke	714,149	Nov. 25	3267	720	101	1624
Conveying apparatus.....	G. E. Titcomb	711,137	Oct. 14	1409	304	101	308
Conveying apparatus.....	T. S. Miller	691,911	Jan. 28	2021	658	98	660
Conveying apparatus.....	J. G. Delaney and T. S. Miller	694,355	Mar. 4	26	6	99	1718
Conveying apparatus.....	O. B. Stillman	696,115	Mar. 25	3344	754	98	2458
Conveying apparatus.....	F. R. French	700,321	May 20	2378	542	99	1665
Conveying apparatus.....	J. W. Foreman	707,688	Aug. 26	3245	737	100	1835
Conveying apparatus.....	T. S. Miller	710,492	Oct. 7	177	38	101	38
Conveying apparatus.....	F. R. French	715,471	Dec. 9	1537	337	101	2172
Cooker.....	S. W. Richardson	713,154	Nov. 11	1298	298	101	1181
Cooker and turner. Cake	H. W. Arner and C. M. Goodwin	702,525	June 17	2255	513	99	2010
Cooker. Steam	A. B. Hoyer	691,380	Jan. 21	1936	435	98	487
Cooker. Steam	E. W. McKenna	694,943	Mar. 11	1166	735	98	1978
Cooker. Steam	C. H. Amidon	710,532	Oct. 7	804	66	101	61
Cooker. Steam	C. A. Breun and B. Couch	712,760	Nov. 4	537	125	101	1008
Cooking and canning machine. Combined corn	L. S. Fleckenstein	706,401	Aug. 5	804	175	100	1277
Cooking apparatus.....	S. Szentjanossy	706,206	Aug. 5	393	84	100	1197
Cooking apparatus.....	A. E. Harris	713,635	Nov. 18	2382	508	101	1396
Cooking apparatus. Electrical	M. W. Mayo	716,366	Dec. 23	3346	735	101	2578
Cooking apparatus. Portable	C. Widmer	695,979	Mar. 23	3056	693	98	2398
Cooking apparatus. Steam	W. C. Salmon	702,597	June 17	2401	549	99	2639
Cooking apparatus. Steam	H. Sieling	717,037	Dec. 30	4755	1031	101	2904
Cooking-boiler	W. H. Taylor	694,805	Mar. 4	902	201	98	1902
Cooking-cabinet	H. Faschian	709,476	Sept. 23	2861	643	100	2614
Cooking-crane	T. J. Baskett	699,066	Apr. 29	5064	1120	99	1141
Cooking desiccating, or seasoning purposes. Apparatus for	H. Higgins	692,516	Feb. 4	532	125	98	906
Cooking eggs. Means or apparatus for	L. H. Stocks	704,140	July 8	1162	313	100	308
Cooking foods for poultry, game, &c., by steam. Apparatus for	G. J. Hutchings	703,269	June 24	3671	844	99	2914
Cooking utensil	E. S. Oliver	690,760	Jan. 7	763	170	98	161



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Cooking utensil	M. A. K. C. Lambert	692,313	Feb. 4	166	39	98	893
Cooking utensil	H. Giesse	697,472	Apr. 15	2939	450	96	468
Cooking utensil	G. P. Coyle	711,385	Oct. 14	1901	411	101	411
Cooking utensil	A. E. Bronson, Jr.	711,466	Oct. 21	2060	445	101	457
Cooking utensil	J. F. Ferry	711,841	Oct. 21	2776	615	101	608
Cooking utensil. Steam.	G. F. Edmiston	707,217	Aug. 19	3229	521	100	1629
Cooking vessel	A. A. Brandenburg and W. C. Knoblock	706,014	Aug. 5	19	5	100	1120
Cooking vessel	W. G. Henis and F. C. Jamison	712,793	Nov. 4	611	141	101	1024
Cooking-vessel ventilator.	A. D. Bentley	699,068	Apr. 29	5067	1120	99	1141
Cooler:							
See Beer-cooler.	Syrup-cooler.						
Candy-cooler.	Water-cooler.						
Cream-cooler.	Wine-cooler.						
Liquid-cooler.	Wort-cooler.						
Milk-cooler.							
Cooler	H. H. Buffum	703,177	June 24	3505	806	99	2880
Cooler	C. F. Conover	707,905	Aug. 26	3721	834	100	1928
Cooler	M. A. Simmons	714,248	Nov. 25	3490	768	101	1669
Cooler or condenser.	J. Schneible	710,810	Oct. 7	801	172	101	164
Cooling and aerating device	J. C. Miller	700,531	May 20	2782	636	99	1779
Cooling and condensing apparatus.	W. A. Maybach	709,476	Sept. 15	3266	619	101	2575
Cooling and ventilating apparatus	J. and W. Titus	690,485	Jan. 7	211	42	98	46
Cooling and ventilating system	J. E. Lawrence	706,327	Aug. 5	651	142	100	1246
Cooling apparatus	W. Griesser	710,857	Oct. 7	880	191	101	178
Cooling apparatus	J. W. Billings	713,590	Nov. 18	2194	488	101	1378
Cooling apparatus	J. E. Haarmann	715,574	Dec. 9	1759	389	101	2212
Cooling appliance	T. S. Armstrong	700,005	May 13	1694	390	99	1537
Cooling-can	E. S. Cushman. (Reissue)	11,496	Feb. 4	1058	237	98	1012
Cooling coil and tank	J. Levey	691,786	Jan. 28	2704	675	98	616
Cooling or condensing coil.	W. O. Worth and W. R. Donaldson	692,962	Feb. 11	1378	809	98	1109
Cooling or refrigerating apparatus	G. Allegritti	692,044	Jan. 28	3170	715	98	707
Cooling safe or chamber.	R. Menz	691,401	Jan. 21	1978	443	98	447
Cooling-tower	W. H. A. Halsall and S. Lapham	698,013	Apr. 22	3033	667	99	693
Cooling-tub	H. T. Myers	698,735	Apr. 29	4427	977	99	1002
Coop and nest. Combined	P. D. Cullum	714,871	Dec. 2	463	98, 99	101	1929
Coop. Folding	W. Bird	712,992	Nov. 4	988	231	101	1008
Coop. Folding chicken	F. M. Steuterman	697,037	Apr. 6	1254	379	99	285
Coop. Poultry.	J. V. Mitchell	694,376	Mar. 11	1235	270	98	1391
Coop. Poultry.	M. M. Fawcett	713,756	Nov. 18	2505	557	101	1446
Cop-tube carrier	S. W. Wardwell	690,493	Jan. 7	242	49	98	53
Coping. Grave sectional.	E. T. Owen	691,169	Jan. 14	1496	338	98	327
Coping-machine	J. T. Zika	702,044	June 10	1370	311	99	2406
Coping tool or chisel	E. Beam	695,783	Mar. 18	2695	612	98	2310
Copper and nickel. Electrolytic separation of.	D. H. Browne	714,861	Dec. 2	435	98	101	1922
Copper and nickel from sulfid compounds. Extracting	C. Hoepfner	704,640	July 15	2374	100	101	511
Copper by wet method. Extraction of	T. A. Irvine	699,326	May 6	371	.....	99	1249
Copper, &c. Electrometallurgic treatment of ores of	C. J. Tossizza	710,346	Sept. 30	4537	.....	100	2979
Copper from copper precipitate. Recovering metallic	D. McKechnie	711,173	Oct. 14	1500	323	101	327
Copper from water. Precipitating	A. J. Polmeteer	699,009	Apr. 29	4968	784	99	1121
Copper. Hardening	C. Renstrom	696,271	Mar. 25	3654	.....	98	2521
Copper. Hardening	S. L. Walter and F. W. Keiner	701,429	June 3	259	.....	99	2161
Copper matte to refined copper. Reducing	G. Mitchell	705,109	July 22	3348	.....	100	727
Copper-nickel-sulfid ores. Treating	D. P. Shuler	697,370	Apr. 8	1817	.....	99	406
Copper or copper alloys. Manufacture of various articles from	G. A. Dick	715,353	Dec. 9	1351	291	101	2132
Copper ores. Apparatus for treating	R. Seeman	702,490	June 17	2193	501	99	2508
Copper ores. Treating	W. J. Knox	692,310	Feb. 4	160	38	98	831
Copper-water. Precipitant for treatment of	A. J. Polmeteer	702,234	June 10	1727	.....	99	2480
Copy-holder	F. S. Towle	694,446	Mar. 4	210	46	98	1757
Copy-holder	J. H. McBride	701,599	June 3	577	126	99	2229
Copy-holder	W. R. Fox	701,048	July 8	1193	259	100	253
Copy-holder	J. C. Whitescarver	707,662	Aug. 26	3301	718	100	1827
Copy-holder	T. P. Chandler	708,203	Sept. 2	321	90	100	2461
Copy-holder	E. F. Pittman	716,577	Dec. 23	3775	821	101	2671
Copy-holder	C. B. Towers and W. A. Cameron	716,790	Dec. 23	4161	912	101	2752
Copying apparatus. Autographic	L. Martin	692,324	Feb. 4	190	43, 44	98	839
Copying-bath	J. M. Nicholas	714,512	Nov. 25	3968	879	101	1763
Copying cloth and frame. Letter-press	L. Biersach	707,753	Aug. 26	3409	768	100	1867
Copying documents, drawings, &c. Apparatus for	E. Sinclair	701,499	June 3	231	50	99	2133
Copying models. Apparatus for	W. A. Selke	706,459	Aug. 5	924	290	100	1392
Copying-press	E. E. Koken	705,067	July 22	3332	721	100	792
Copying-press. Roller	P. H. Yawman	701,147	June 3	288	64	99	2167
Copying-press. Roller	D. E. Hunter	705,352	July 22	3905	845	100	839
Cord-adjuster	I. M. Carr	710,666	Oct. 7	519	168	101	105
Cord and pulley brake	D. D. Nugent	692,540	Feb. 4	577	135	98	915
Cord-holding device	F. H. Knapp	707,241	Aug. 19	2964	530	100	1637
Cord or rope machine	T. W. Norman	693,887	Feb. 25	3176	702	98	1515
Cord or rope making machine	T. W. Norman	691,798	Jan. 28	2728	615	98	620
Cords, &c. Fastener for ends of	M. Bernhard and R. T. Vent	698,247	Apr. 22	3494	769	99	790
Core-baking apparatus	A. M. Hewlett	712,533	Nov. 4	135	34	101	926
Core-bar. Collapsible	J. D. Harless	697,083	Apr. 8	1343	297	99	304

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Core-box cutter	B. L. Clover and A. Grabowski	699,285	May 6	292	67, 68	99	1234
Core-making apparatus	G. J. Hoskins	699,175	May 6	185	52	99	1193
Core-making machine	I. B. Thomas and P. Clare	698,758	Apr. 29	443	300	99	1014
Core-making machine	G. H. Wadsworth and E. J. Sherwin	698,707	Apr. 29	4494	993	99	1017
Core-oven	T. L. Griffith	705,065	July 29	4547	987	100	981
Core-setter	G. A. Johnson	716,237	Dec. 16	3095	677	101	2514
Corer and cutter. Fruit	W. T. Acree	703,331	June 24	3769	868	99	2036
Corer and parer. Apple	J. P. Magney	706,428	Aug. 5	858	188	100	1288
Corer and seeder. Fruit	E. Nyswonger	699,235	May 6	169	41	99	1209
Cork and dropper. Combined	W. Keuffel	710,587	Oct. 7	399	478	101	74
Cork cutting and tapering machine	A. Fabre	713,865	Nov. 18	2702	604	101	1485
Cork-disk-cutting machine	R. S. Anderson	691,432	Jan. 21	2029	454	98	357
Cork-extractor	G. C. Ferguson	694,466	Mar. 4	246	55	98	1764
Cork-extractor	F. Riolet	695,235	Mar. 11	1720	381	98	2091
Cork-extractor	A. Baumgarten	696,399	Apr. 1	12	4	99	5
Cork-extractor	R. J. Williamson	697,587	Apr. 15	2238	499	99	507
Cork-extractor	H. H. Ham	702,001	June 10	1293	395	99	2301
Cork-extractor	W. T. Fox	713,422	Nov. 11	1850	418	101	1294
Cork-fastener	R. Bleizinger	709,531	Sept. 23	2997	668	100	2644
Cork-puller bottle-neck-clamping mechanism	E. Walker	713,540	Nov. 11	2097	469	101	1844
Corkscrew	R. Runnalls	708,667	Sept. 9	1201	274	100	2236
Corkscrew. Automatic	R. B. Andros	701,791	June 3	911	203	99	2298
Corn. Apparatus for separating silk from green	E. Houston	694,017	Feb. 25	3449	761	98	1570
Corn. Apparatus for the degermination and decoration of Indian	T. T. Gaff and J. F. Gent	707,057	Aug. 12	2015	451	100	1546
Corn-binder packer-arms. Means for preventing clogging of	J. B. Shaw	696,203	Mar. 25	3523	788	98	2494
Corn-crib	J. M. Brokaw	703,529	July 1	278	63	100	56
Corn-cutter	E. A. Stare	692,940	Feb. 11	1333	290	98	1100
Corn-drill and manure-distributor. Combined	C. M. Wells	692,232	Jan. 28	3498	624	98	775
Corn from the cob. Machine for cutting green	C. M. Fenton and A. Wode, Jr	695,806	Mar. 18	2740	625	98	2319
Corn gathering and husking machine	A. Asper	717,153	Dec. 30	4973	1079 1080	101	2951
Corn-holder	C. R. Lemon	693,284	Feb. 11	2014	438	98	1298
Corn-husker	W. H. Stoner	692,088	Jan. 28	3260	737	98	726
Corn-husker	L. R. Loomis	705,770	July 29	4741	1091	100	1018
Corn-husker	A. W. Richards	707,013	Aug. 12	1391	432	100	1527
Corn-husker and fodder-shredder	J. Crosby	702,344	June 10	1902	435	99	2514
Corn husker and shredder and ensilage-cutter	A. Rosenthal	701,397	June 3	200	48, 44	99	2149
Corn-husking and fodder-shredding machine	J. L. and W. E. Alexander	705,311	July 22	3731	832 823	100	817
Corn-husking and fodder-shredding machine	B. H. Lawter	716,905	Dec. 30	4497	976 226	101	2849
Corn husking and shredding machine	A. Van Ness	712,982	Nov. 4	971	237	101	1096
Corn-husking and stalk-cutting machine	J. Kölling, H. and H. Koelling	717,220	Dec. 30	5131	1112 519	101	2985
Corn-husking machine	R. C. Johnson	695,561	Mar. 18	2296	520 521	98	2328
Corn-husking machine	W. H. Gernand	702,720	June 17	2623	603 203	99	2686
Corn-husking machine	J. K. Smith	708,500	Sept. 2	899	204 938 939	100	2164
Corn-husking-machine separating mechanism	O. Boyer	710,137	Sept. 30	4164	987 989	100	2899
Corn or grain dump and elevator	J. Mabius and F. L. Hay	695,528	Apr. 29	3978	879 880	99	906
Corn-pad	I. Duckworth	707,069	Aug. 19	2084	465	100	1576
Corn-parer	E. Dellwig	712,658	Nov. 4	368	85	101	974
Corn-popper	T. G. Melish	694,657	Mar. 4	615	134	98	1843
Corn-popper	J. R. Winters	715,229	Dec. 2	1168	236	101	2064
Corn-sheller	S. Stroup	693,080	Feb. 11	1591	347	98	1153
Corn-sheller	O. E. Davidson	710,848	Oct. 7	865	187 139	101	176
Corn-sheller feed-drag	W. C. Rowe	694,667	Mar. 4	633	138 146	98	1846
Corn-shock carrier	N. W. Lyon	708,377	Sept. 2	680	153	100	2119
Corn-shock-compressing device	R. W. R. R., and B. E. Joslin	716,050	Dec. 16	2699	597	101	2432
Corn-shock compressor	I. B. Tryon	702,165	June 10	1599	361	99	2455
Corn-shock loader for vehicles	W. A. Tea	707,280	Aug. 19	2451	550	100	1055
Corn-shock-loading device	W. A. Tea	701,645	June 3	666	145 146	99	2248
Corn-shock mover	A. G. Keck	713,989	Nov. 18	2959	657	101	1540
Corn-shocker	J. F. Steward	702,602	June 17	2411	550	99	2041
Corn-shocker	B. R. Benjamin and J. W. Pridmore	714,999	Dec. 2	699	147	101	1976
Corn-silking machine	J. H. Magee	691,707	Jan. 21	2523	565	98	561
Corn-thinner's vehicle	W. T. Mitchell and C. S. Sewell	716,735	Dec. 23	4055	888	101	2730
Cornstalk-cutter	B. C. Roberts	695,581	Mar. 18	2347	532	98	2240
Cornstalk-cutter	N. C. Rouss	697,210	Apr. 8	1519	347	99	348
Corns, &c. Device for removing	S. A. Allison	702,170	June 10	1613	363	99	2458
Corns. Protector-pad for	S. A. Level	694,762	Mar. 4	821	182	98	1886
Corner-piece-trimming machine	F. Latulip	697,728	Apr. 15	2510	590	99	563
Corner-post, transom-bar, or mullion	J. Godsmith	697,714	Apr. 15	2485	555	99	557
Corner-shield	R. L. Wheeler	695,184	Mar. 11	1620	360	98	2071
Corner-strip	W. N. McDonald	710,890	Oct. 7	913	198	101	136
Corse-coller	A. J. Ketcher	705,749	July 29	4710	347	99	1019
Corse-cooler	S. A. Boucher	710,745	Oct. 7	669	140	101	136
Corset	D. Kops	694,160	Feb. 25	3711	819	98	1623
Corset	D. Kops	694,161	Feb. 25	3713	820	98	1624
Corset	A. E. Decker	696,227	Mar. 25	3570	799	98	2503
Corset	P. J. Menahan	696,465	Apr. 1	132	32	99	34
Corset	J. C. Andrews	698,166	Apr. 22	3340	730	99	756
Corset	L. S. Foerster	700,317	May 23	2371	541	99	1694
Corset	E. Parsons	700,556	May 30	2818	647	99	1788
Corset	N. Temple	703,852	July 1	881	194	100	176
Corset	J. E. Doolittle	704,007	July 8	1177	256	100	250
Corset	C. A. O'Loan	706,096	Aug. 5	177	36	100	1153
Corset	E. Farcy	706,307	Aug. 5	613	134	100	1239



## Alphabetical list of inventions.—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Corset	J. Lindauer	708,773	Sept. 9	1404	332	100	2280
Corset	S. G. McClain	709,298	Sept. 16	2368	537	100	2408
Corset	C. W. Stimson	710,220	Sept. 30	4323	372	100	2593
Corset	D. Kops	712,312	Oct. 28	3673	802	101	867
Corset	J. Bowers	715,544	Dec. 9	1713	378	101	2262
Corset. Abdominal	C. M. Burks	712,646	Nov. 4	350	81	101	971
Corset and bust-form. Combined	C. H. Schopbach	697,669	Apr. 15	2401	533	99	539
Corset and gown stay	D. P. McKenney	714,322	Nov. 25	3633	890	101	1958
Corset. Apparel	C. H. Schopbach	690,695	Jan. 7	571	124	98	1122
Corset attachment and stocking supporter	L. B. Ingham	708,867	Sept. 9	1654	380	100	2432
Corset-busk	C. F. de Grasse	704,191	June 24	3539	814	99	2887
Corset-clasp	C. E. Devine	712,773	Nov. 4	566	131	101	1014
Corset-clasp	E. M. Brigham	717,333	Dec. 30	5313	1156	101	3024
Corset-cover	J. M. Van Ordeu	705,725	July 29	4662	1010	100	1003
Corset-cover	W. Golding	707,916	Aug. 26	3737	898	100	1932
Corset. Extensible	F. C. Smith	690,898	Jan. 7	1092	28	98	210
Corset-fastener	J. Britnell	705,641	July 29	4497	970	100	1264
Corset-fastening	J. H. Wolcott	699,359	May 6	498	100	99	154
Corset-shaping machine	S. Kops	690,740	Jan. 7	734	162	98	154
Corset-stay-tipping machine	M. D. Watrous	690,599	May 6	891	206	99	1359
Corset-steel	A. A. Harvey	700,918	May 27	3532	810	99	1932
Corset-steels, &c. Socket for	N. F. Hunt	702,559	June 17	327	527	98	1122
Corset-stiffener	H. Torley	708,563	Sept. 23	30679	100	2654	
Corset-stiffeners. Machine for making	J. H. Holden and A. A. Ackerman	715,267	Dec. 9	1177	251	101	2496
Cot and stretcher. Convertible	E. B. Clifton	646,353	Jan. 4	21	5	98	1717
Cot and tent. Combined folding	D. I. Kuhn	702,567	June 17	2336	531	99	2626
Cot. Folding	J. Davidoff	708,869	Sept. 9	1616	370	100	2325
Cot. Folding	S. Pellettieri and J. Poncioni	712,203	Oct. 28	3484	764	101	767
Cot. Folding	I. Stanley	690,898	Nov. 25	3654	805	101	1702
Cotter-pin	R. S. Pickering	691,730	Jan. 21	2565	575	98	569
Cotter-pin-making machine	N. W. Kirkpatrick and M. Henry	692,528	Feb. 4	554	130	98	911
Cotton. Apparatus for unbaling raw	S. Ecroyd and E. E. Marsden	697,459	Apr. 15	2020	446	99	464
Cotton-chopper	G. Berringer	691,102	Jan. 14	1371	311	98	300
Cotton-chopper	A. L. Hockett	694,474	Mar. 4	351	57	98	1766
Cotton-chopper	J. T. James	694,475	Mar. 4	352	58	98	1768
Cotton-chopper	A. D. Ezzell	696,321	Mar. 25	3779	842	98	2548
Cotton-chopper	R. F. Lowrey	696,348	Mar. 25	3823	852	98	2557
Cotton-chopper	J. M. Grant	699,165	May 6	69	18	99	1190
Cotton-chopper	W. R. Wilkinson	700,109	May 13	1879	437	99	1573
Cotton-chopper	L. W. Wooten	701,446	June 3	287	64	99	2167
Cotton-chopper	F. M. and L. E. Sharp	701,768	June 3	873	194	99	2291
Cotton-chopper	J. H. Forister	705,746	July 29	4795	108	100	1011
Cotton-chopper	J. T. Boyet	706,889	Aug. 12	1720	384	100	1486
Cotton-chopper	L. P. Fay	709,147	Sept. 16	2178	499	100	2460
Cotton-chopper	W. B. Castles	711,417	Oct. 14	1949	421	101	420
Cotton-chopper	A. R. Johnson	713,224	Nov. 11	1442	327	101	1209
Cotton-chopper	T. N. Mayfield	713,898	Nov. 18	2781	618	101	1593
Cotton-chopper and clod-crusher	M. E. Goring	714,822	July 15	2720	589	101	582
Cotton chopper and cultivator	W. C. Eisey	694,055	Feb. 25	3528	777	98	1586
Cotton chopper and cultivator	H. C. Foster	716,696	Dec. 23	3995	873	101	2717
Cotton chopper and cultivator. Combined	J. M. Bass, Sr	692,227	Feb. 4	7	2	98	800
Cotton-chopper and cultivator. Combined	L. A. Miller	714,505	Nov. 25	3956	877	101	1769
Cotton-chopper scraper attachment	A. L. Hockett	694,475	Mar. 4	255	57, 58	98	1766
Cotton-cleaner	J. T., W. R., and G. B. Rodgers	690,614	Jan. 7	469	102	98	101
Cotton-cleaner	E. B. Ham and J. W. Shipley	712,298	Oct. 28	3652	797	101	802
Cotton-compress	J. L. Denton	707,679	Aug. 26	3225	724	100	1831
Cotton-compress	J. L. Sheppard	711,353	Oct. 14	1846	401	101	399
Cotton-compress	T. J. Griffin	715,787	Dec. 16	2172	486	101	2318
Cotton-compressor	F. L. White	704,998	July 15	3117	671	100	664
Cotton elevator and separator	C. R. Benefield	705,374	July 22	3941	854	100	847
Cotton elevator. Seed-	G. P. Harris	714,691	Dec. 2	75	15, 16	101	1853
Cotton-fiber condenser	J. M. Gardner	709,090	Sept. 16	2083	477	100	2439
Cotton-gin	R. B. Lumpkin	700,347	May 20	2125	553	99	1706
Cotton-gin	J. T. Fuller	707,096	Aug. 19	2096	468	100	1575
Cotton-gin	S. D. Murray	695,815	Mar. 18	2773	589	99	2925
Cotton-gin feeder and cleaner	J. W. Seifert	715,699	Dec. 9	1990	443	101	2252
Cotton-gin. Roller	C. J. McPherson	701,814	June 3	946	210	99	2307
Cotton-gin. Roller	C. J. McPherson. (Reissue)	12,042	Oct. 7	1006	222	101	205
Cotton. Machine for handling lint	P. Kolb	691,865	Jan. 28	2844	640	98	644
Cotton-machines. Covered roller for	O. H. Hathaway and W. H. Spencer	701,286	May 27	4169	957	99	2081
Cotton-picker for forming mattress-bats	J. W. Morgan	698,535	Apr. 29	3997	883	99	304
Cotton-picker's sack	J. H. Holmes	699,324	May 6	369	87	99	1248
Cotton-press	S. M. Neely	698,043	Apr. 22	3079	678	99	703
Cotton-press	A. D. Thomas	699,935	May 13	1571	361	99	1513
Cotton-press	A. D. Thomas	699,937	May 13	1580	362	99	1515
Cotton-press	W. H. Meeson	710,913	Oct. 7	1913	221	101	304
Cotton-stalk cutter	W. Qualls	713,241	Nov. 11	1472	333	101	1215
Cotton-sweep	J. J. McManmon	710,640	Oct. 7	390	82	101	78
Cotton-sweep	B. J. Brown	716,662	Dec. 23	3938	860	101	2706
Couch	C. F. Thayer	709,939	Sept. 30	3773	852	101	2816
Couch and folding bed. Combined	D. T. Owen	707,628	Aug. 26	3114	701	100	1869
Couch-frame	J. Watkins	701,112	May 27	3866	93	99	3028
Couch or other receptacle. Wardrobe sofa	L. C. Le Count	695,818	Mar. 18	2764	699	98	2323
Couch. Rocking	J. Gluck	712,372	Oct. 28	3776	826	101	839
Couch-roll	H. Parker	693,894	Feb. 25	3196	705	98	1520
Couch-roll	B. B. Farnham	694,951	Mar. 11	1187	260	98	1981
Couch-roll guard-board	J. A. Connelly	700,133	May 13	1947	448	99	1385

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Couch-rolls. Guard-board and cleaner for.....	H. C. Willmott and C. W. Lovett	714,548	Nov. 25	4037	898	101	1779
Counter.....	H. R. Heal	690,424	Jan. 7	71	16	98	18
Counter.....	J. S. Huey	691,142	Jan. 14	1441	328	98	315
Counter.....	N. Johnson	712,935	Nov. 4	887	208	101	1078
Counter. Electrically-actuated.....	H. Hollerith	695,938	Mar. 25	2974	673	98	2381
Counter-guard-wall telescoping wicket.....	R. B. Browne	696,546	Apr. 1	377	64	99	63
Counter-skiving machine.....	J. R. Scott	703,617	July 1	428	99	100	85
Counter. Word.....	C. W. Price	710,890	Oct. 7	930	203	101	189
Counter. Word.....	T. A. Smith	711,359	Oct. 14	1856	405	101	402
Counterbalance for lift-bridges, &c.....	J. D. Wilkens	691,035	Jan. 14	1294	287	98	278
Counterbalancing the momentum of reciprocating elements. Means for.....	M. N. Forney	701,477	June 3	354	78	99	2182
Counting and registering machine.....	C. D. Grimes, W. W. Sunderland, and B. F. Eilerman.	706,652	Aug. 12	1256	278	100	1388
Counting apparatus.....	R. W. Jorres	703,275	June 24	3677	846	99	2915
Counting-machine.....	T. W. Graham	706,048	Aug. 5	90	19	100	1135
Counting-machine.....	S. E. Heineman	707,062	Aug. 12	2026	453	100	1548
Counting-machine.....	J. B. Sleeman and E. M. Africa	714,958	Dec. 2	631	133	101	1902
Coupling.							
See Air-brake coupling. Junction-box coupling.							
Bed-coupling. Pilot-coupling.							
Bicycle-coupling. Pipe-coupling.							
Bicycle-pump coupling. Pipe, &c., coupling.							
ling. Pipe, shaft, &c., coupling.							
Buffer-coupling. ling.							
Car-coupling. Pipe T-coupling.							
Car side coupling. Pitman-coupling.							
Centrifugal coupling. Pump-rod coupling.							
ling. Pump-tube coupling.							
Conduit-rod coupling. Railway-coupling.							
ling. Railway-carriage coupling.							
Detachable coupling. ling.							
Drill-coupling. Reach-coupling.							
Electric coupling. Rod-coupling.							
Electric-motor coupling. Shaft-coupling.							
Engine-coupling. Strap-coupling.							
Flexible coupling. Thill-coupling.							
Fluid-pressure coupling. Thill or pole coupling.							
Furniture-coupling. Universal coupling.							
Hose-coupling. Vehicle-coupling.							
Hose or pipe coupling. Wagon-coupling.							
ling. Water-closet coupling.							
Intermediate coupling. Whiffletree-coupling.							
Wire-coupling.							
Coupling.....	J. L. Frazier	693,505	Feb. 18	2629	580	98	1386
Coupling.....	J. R. Carter and J. E. Hausfeld	707,674	Aug. 26	3218	722	100	1830
Coupling.....	F. A. Wareham	707,991	Aug. 26	3873	870	100	1959
Coupling.....	E. Vogel	714,266	Nov. 25	3528	776	101	1678
Coupling and nipple for outlet or junction boxes.	M. F. Whiton	701,114	May 27	3891	893	99	2029
Coupling device.....	M. A. Brown	691,109	Jan. 14	1583	315	98	303
Coupling device.....	J. G. Kanouse	704,645	July 15	3223	481	100	480
Coupling device.....	G. J. Scott	710,524	Oct. 7	455	56	101	52
Coupling for cables, ropes, &c.....	T. Darling	706,393	Aug. 5	789	172	100	1274
Coupling for tenders, &c.....	W. Wright	715,728	Dec. 9	2039	456	101	2271
Coupling-frame.....	S. C. Rock	691,179	Jan. 14	1510	340	98	390
Coupling-pit. Spring.....	E. Dodd	710,489	Oct. 7	867	188	101	176
Couplings. Yoke and draft-bar for.....	R. Morris	700,357	May 20	2441	557	99	1210
Cover blanks. Assembling device for forming straws into.....	M. Van den Heuvel	717,476	Dec. 30	5576	1210	101	3076
Cover. Cooking-utensil.....	H. E. Hardy	700,764	May 27	3244	748	99	1894
Cover. Cooking-vessel.....	J. H. Wilson	710,548	Oct. 7	300	65	101	60
Cover for tumblers, &c.....	F. L. Jobson	700,653	May 20	2982	684	99	1822
Cover-forming machine.....	A. P. Down	712,660	Nov. 4	371	85	101	975
Cover-lifting device for pails, &c.....	R. L. Baker	708,293	Sept. 2	551	135	100	2093
Cover reciprocating and oscillating mechanism. Vessel.....	J. Gibson	693,258	Feb. 11	1971	428	98	1230
Cover-retaining device for pots or kettles.....	C. D. Brown	690,828	Jan. 7	888	196	98	188
Cover-wrench.....	J. B. Erwin	700,732	May 27	3228	739	99	1891
Covers for pots, &c. Attachment for.....	M. J. Cameron	710,950	Oct. 14	1039	280	101	228
Covers. Securing swivel-plates to perforated cow-tail holder.....	C. E. Williams	695,424	Mar. 11	2037	457	98	2157
Cow-tail holder.....	W. H. Osburn	699,227	May 6	171	41	99	1210
Cow-tail holder.....	J. D. Sturges	709,337	Sept. 30	3768	851	100	2814
Cracker, biscuit, or cake machine attachment.....	F. S. Weed	711,602	Oct. 21	2323	507	101	513
Cracker. Filamentous.....	D. W. Mannie	698,035	Apr. 22	3067	675	99	700
Cracker-machine.....	H. D. Perky	713,795	Nov. 18	2574	574	101	1460
Cracker-machine.....	J. Rosborough	697,663	Apr. 15	2389	531	99	536
Cracker-machine.....	A. W. Copland	705,040	July 22	3197	691	100	689
Cracker-machine.....	A. W. Copland	705,041	July 22	3202	691	100	698
Cracker-stacking machine.....	B. Prouty and W. H. Budd, Jr.	708,255	Sept. 2	482	110	100	2079
Cradle and baby-jumper. Combined.....	J. W. Blackledge	704,774	July 15	2611	565	100	560
Cranberry-sorting apparatus.....	A. E. Nightingale	702,583	June 17	2372	541	99	2833
Cranberry-picker.....	C. M. Blydenburgh	700,165	May 20	2049	468	99	1629
Crane.....	S. L. Batzel	692,596	Feb. 4	676	157	98	937
Crane.....	H. O. Baldry	710,555	Oct. 7	309	67, 68	101	62
Crane and hoisting apparatus.....	T. D. Hollick	711,400	Oct. 14	1923	418	101	415
Crane and scaffolding.....	S. T. Wellman, J. W. Seaver, and C. H. Wellman.	698,423	Apr. 22	3792	837	99	852
Crane. Charging.....	C. L. Taylor	717,052	Dec. 30	4785	1037	101	2910
Crane. Charging or discharging.....	C. L. Taylor	717,053	Dec. 30	4788	1038	101	2910



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Crane. Electric locomotive.	G. M. Brill	703,985	July 8	1137	246	100	341
Crane for handling lumber, &c.	H. Brooke	690,513	Jan. 7	283	57	98	62
Crane. Hydraulic	E. C. Wiley	700,102	May 13	2017	461	99	1600
Crane. Lifting.	T. Kauffman	704,836	July 15	2739	462	100	586
Crane. Metallurgical	D. W. Blair	697,788	Apr. 15	2618	581	99	585
Crane. Portable	G. F. Speer	697,686	Apr. 15	2429	540	99	545
Crane. Traveling	J. G. Fairbanks	717,370	Dec. 30	5380	1170	101	3038
Crank. Adjustable	H. Janssen	711,724	Oct. 21	2553	561	101	562
Crank-hanger	W. B. Spencer	704,138	July 8	1462	313	100	307
Crank-pin-connection take-up device	J. E. Janssen	693,402	Feb. 18	2248	492	98	1308
Crate.	A. von Schluembach	694,794	Mar. 4	800	197	98	1900
Crate.	R. De Wright	706,908	Aug. 12	1756	303	100	1493
Crate.	A. Klumpp	716,247	Dec. 16	3114	681	101	2518
Crate. Animal.	H. N. Backus	698,782	Apr. 29	4519	990	99	1022
Crate. Banana.	C. A. Doud	691,845	Mar. 4	972	216	98	1919
Crate. Banana.	J. A. Davidson	706,336	June 24	3780	871	99	2933
Crate. Banana.	W. H. Simpson	706,207	Aug. 5	304	84	100	1197
Crate. Banana.	W. R. Montgomery	708,654	Sept. 9	1174	268	100	2231
Crate. Banana.	C. A. Doud and C. B. Shouse	710,353	Sept. 30	4548	1026	100	2081
Crate. Banana-shipment	M. Lombardo	709,166	Sept. 16	2228	506	100	2468
Crate. Collapsible	H. D. Bokop	698,435	Apr. 29	3825	843	98	874
Crate. Dog.	J. C. Porterfield	700,817	May 27	3346	708	99	1915
Crate. Egg.	H. J. Hagestad	698,935	Apr. 29	4849	1070	99	1096
Crate. Egg.	G. E. Palmer and J. N. Lake	705,286	July 22	3733	811	100	804
Crate-fastener	C. W. Hillenbrand	690,107	Apr. 29	5127	1134	99	1153
Crate. Folding	A. J. Noltz	697,355	Apr. 8	1796	402	99	402
Crate. Folding	B. J. Castorline	697,804	Apr. 15	2654	588	99	566
Crate. Folding	E. B. Christofen	699,078	Apr. 27	3071	1123	99	1143
Crate. Folding	W. C. Holmes	700,774	May 27	3268	748	99	1000
Crate. Folding	C. R. McCullough	702,237	June 10	1717	388	99	2478
Crate. Folding	H. J. Schrock	706,692	Aug. 12	1337	297	100	1405
Crate. Folding	S. Greer and J. H. Gore	707,919	Aug. 26	3743	839	100	1933
Crate. Folding	C. W. Heller and E. A. Jones	709,542	Sept. 23	3013	671	100	2647
Crate. Folding	F. G. Otter	715,132	Dec. 2	933	201	101	2027
Crate for bananas. Shipping	T. J. Lowther	690,657	Jan. 7	587	121	98	518
Crate for bottles or carboys. Swinging	E. G. Howe	693,020	Feb. 11	1471	321	98	1129
Crate for poultry. Folding	A. F. Dice	702,411	June 17	2040	465	99	2564
Crate for rolls	J. F. Budke	693,104	Feb. 11	1647	359	98	1163
Crate. Fruit.	H. T. Miller	695,471	Mar. 18	2122	478	98	2193
Crate. Knockdown	B. K. Boyd	701,834	June 10	981	219	99	2330
Crate. Knockdown	H. E. Clement	705,626	Aug. 5	94	7	100	1123
Crate. Knockdown banana-shipment	J. Conrad	710,252	Sept. 30	4380	983	100	2945
Crate. Knockdown shipping	J. F. Lay	708,651	Sept. 9	1169	266	100	2230
Crate or box	E. E. Johnston	696,243	Mar. 25	3599	805	98	2509
Crate. Shipping.	W. B. Williams	700,996	May 27	3664	841	99	1978
Crate. Shipping.	E. E. Williams	707,065	Aug. 26	3205	719	100	1828
Crate. Shipping.	C. Kempf, E. and C. Baur	711,664	Oct. 21	2440	537	101	537
Crates. Supporting-frame for the construction of open cylindrical	F. Schmitz	698,060	Apr. 22	3115	685	99	710
Crayon. Fountain.	J. F. Kasnicka	692,524	Feb. 4	548	128	98	910
Crayon-sharpener.	A. P. Peterson	704,365	July 8	1873	406	100	385
Cream, &c. Apparatus for tempering	D. T. Sharples	711,009	Oct. 14	1151	254	101	253
Cream-cooler. Automatic	M. B. Miller	700,148	May 13	1990	457	99	1595
Cream-elevator	A. P. Laursen	710,280	Sept. 30	4424	997	100	2655
Cream-separator	W. J. Gould	693,512	Feb. 18	2453	538	98	1351
Cream-separator	A. D. Ellis	697,613	Apr. 15	2291	512	99	518
Cream-separator	C. L. Morris	697,645	Apr. 15	2254	525	99	530
Cream-separator	J. Seither	707,023	Aug. 12	1952	438	100	1531
Cream-separator	C. B. Phillips	708,730	Sept. 9	1323	302	100	2262
Cream-separator	M. A. Comstock	708,866	Sept. 9	1610	369	100	2324
Cream-separator	C. W. Parks	709,035	Sept. 16	1962	450	100	2412
Cream-separator	G. Klay	710,471	Oct. 7	128	3	101	128
Cream-separator	I. P. B. Knudsen	712,390	Oct. 28	3818	833	101	840
Cream-separator	A. Klay and T. G. Scheid	714,194	Nov. 25	3287	746	101	1640
Cream-separator	C. E. Potts	715,692	Dec. 9	1964	439	101	2255
Cream-separator and churn	J. Klein	705,361	July 22	3923	819	100	843
Cream-separator liner. Centrifugal	C. J. Lundstrom	715,493	Dec. 9	1602	1346	101	2181
Creamer. Centrifugal	H. Reck and A. Borsu	697,170	Apr. 8	1477	331	99	333
Creaming-can	F. J. Sleezer	698,569	Apr. 29	4048	895	99	920
Cree for salvage-pools on slashers	D. M. Sullivan	709,833	Sept. 23	3542	798	100	2756
Cremating or incinerating human bodies. Furnace for	H. O. Kuehne	697,946	Apr. 15	2899	639	99	616
Cremator. Refuse.	R. Robinson	699,635	May 6	961	222	99	1373
Crematory	F. L. Decarie. (Reissue)	12,059	Nov. 25	4240	937	101	1819
Crematory and heating system. Combined	I. D. Smead	691,328	Jan. 14	1806	410	98	392
Crib. Smead	C. S. Friedman	693,697	Feb. 18	2819	588	98	1425
Crib and table. Combined	H. Neuman	710,115	Sept. 30	4113	928	100	2886
Crib. Infant's	H. G. Doran	704,443	July 8	2010	485	100	421
Croquette-mold	T. H. Churchill	713,398	Nov. 11	1818	469	101	1287
Cross-tie	R. L. Porter	704,920	July 15	2938	630	100	632
Cross-tie	J. E. Burns	706,523	Aug. 12	1036	228	100	1340
Cross-tie-cutting machine	C. A. Hege	715,477	Dec. 9	1568	1340	101	2174
Cross-tie. Metallic	J. J. Wagoner	697,399	Apr. 8	1707	1381	99	383
Cross-tie, track-fastening, and rail-joint. Combined	G. L. Kimberly	696,979	Apr. 8	1147	255	99	293

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. p.	Vol.	Page.
Crossing-gate	M. C. Barry	703,754	July 1	699	155	100	140
Crown and bridge work. Porcelain facing for	W. H. Mosley and H. G. Robb	712,705	Nov. 4	439	103	101	988
Croze-cutting machine	B. G. Jayne	709,419	Aug. 5	843	184	100	1283
Crucible	A. Elmer	716,680	Dec. 29	3881	848	101	2694
Crucibles from furnaces. Means for lifting	L. Laird	714,394	Dec. 2	308	67	101	1900
Crucibles. Recharging smelters'	G. B. Brown	711,468	Oct. 21	2062	446	101	457
Crucibles. Shield and funnel for recharging	G. B. Brown	711,467	Oct. 21	2061	446	101	457
Crupper	G. Schneider	707,868	Aug. 26	3644	821	100	1913
Crupper-dock-forming machine	C. H. Rudge	704,969	July 15	3059	657	100	653
Crusher:							
See Cement-gravel crusher.	Olive-crusher.						
Coal-crusher.	Ore-crusher.						
Grain-crusher.	Rock-crusher.						
Ice-crusher.	Stone-crusher.						
Crusher	A. G. Morris	698,990	Apr. 29	4988	1092	99	1114
Crushing and pulverizing machine	L. Hernan	706,655	Aug. 12	1269	280	100	1390
Crushing and pulverizing mill	J. F. Sanders	705,870	July 29	4912	1068	100	1054
Crushing-machine	M. G. Bunnell	691,593	Jan. 21	3312	520	98	516
Crushing-mill	T. L. and T. J. Sturtevant	690,534	Jan. 7	320	64	98	69
Crushing-roll drive mechanism	A. M. Acklin	607,311	Apr. 8	1729	385	99	388
Crutch. Adjustable.	W. F. Drew	705,741	July 29	4098	1017	100	1010
Crutch, cane, &c.	P. W. Pratt	710,074	Sept. 30	4078	908	100	2870
Cue. Game.	W. S. Lyon	711,906	Oct. 21	2924	643	101	640
Cue. Game.	A. J. Gray	690,945	Jan. 14	1085	244	98	243
Cuff-holder.	A. J. Gray	701,264	May 27	4163	956	99	2083
Cuff-holder.	M. S. Goldman	694,739	Mar. 4	777	172	98	1876
Cuff-holder.	P. Cumming	607,328	Apr. 8	1755	393	99	393
Cuff-holder.	E. Sneider	698,149	Apr. 22	3906	724	99	749
Cuff-holder.	W. C. Portelyou	699,267	May 6	205	69	99	1385
Cuff-holder.	W. Thurman. (Reissue)	711,993	May 20	3139	713	99	1486
Cuff-holder.	F. J. Roberts	704,111	July 8	1307	300	100	294
Cuff-holder.	C. E. Hultquist	704,644	July 15	2379	515	100	513
Cuff-holder.	J. F. Smith and J. S. Hull	704,765	July 15	2598	562	100	557
Cuff-holder.	W. C. Kewin	707,427	Aug. 19	2722	616	100	1711
Cuff-holder.	S. McCay	707,615	Aug. 26	3089	696	100	1803
Cuff-holder.	G. C. Armstrong	710,734	Oct. 7	541	133	101	131
Cuff-holder.	H. C. Frank	713,968	Nov. 18	2746	605	101	1486
Cuff-holder.	F. I. Long	716,728	Dec. 23	4044	886	101	2728
Culinary appliance	S. Worley and W. A. Sullenbarger	714,430	Nov. 25	3826	847	101	1736
Culinary article.	A. N. Stonedahl	696,278	Mar. 25	3065	819	98	2523
Culinary device	L. H. Griste	703,783	July 1	748	165	100	150
Culinary utensil	H. von Uffel	713,575	Nov. 11	2167	484	101	1336
Culinary vessel	L. Ambler	700,398	May 20	2327	578	99	1725
Culinary vessel	C. Grothe	710,681	Oct. 7	542	113	101	111
Culinary vessel	F. A. Johnson and W. I. Borell	714,488	Nov. 25	3919	867	101	1754
Culm drier and separator	J. W. Perry	696,841	Apr. 1	839	193	99	177
Cultivation apparatus. Steam	R. H. Fowler and T. Benstead	714,570	Nov. 25	4073	901	101	1786
Cultivator	P. J. Nelson	690,758	Jan. 7	760	169	98	161
Cultivator	J. C. Tunnichliff	691,022	Jan. 14	214	281	98	274
Cultivator	S. L. Allen	692,410	Feb. 4	339	80	98	868
Cultivator	G. W. Henry	692,660	Feb. 4	781	178	98	959
Cultivator	R. H. Avery	694,819	Mar. 4	921	205	98	1907
Cultivator	J. T. Bender	696,623	Apr. 1	417	97	99	91
Cultivator	G. T. Willis and J. Porteous	697,059	Apr. 8	1325	286	99	292
Cultivator	G. G. Jones	697,490	Apr. 15	2173	450	99	475
Cultivator	T. D. Perry	698,153	Apr. 22	3321	725	99	733
Cultivator	R. W. Henry	698,196	Apr. 22	3405	749	99	770
Cultivator	W. G. Scott	698,563	Apr. 29	4039	893	99	918
Cultivator	O. R. Baldwin	698,783	Apr. 29	4521	999	99	1022
Cultivator	W. C. Evans	698,913	Apr. 29	4816	1062	99	1089
Cultivator	J. A. McClung	698,996	Apr. 29	4946	1095	99	1116
Cultivator	J. A. Bettis	699,138	May 6	22	7	99	1181
Cultivator	E. Children	699,449	May 6	610	139	99	1301
Cultivator	M. J. Todd	700,579	May 20	2854	655	99	1794
Cultivator	W. J. Wiswall	700,876	May 27	3450	792	99	1936
Cultivator	J. B. Bartholomew	701,003	May 27	3682	845	99	1982
Cultivator	J. B. Bartholomew	701,004	May 27	3656	845	99	1983
Cultivator	J. B. Bartholomew	701,005	May 27	3692	846	99	1985
Cultivator	J. B. Bartholomew	701,006	May 27	3694	846	99	1985
Cultivator	J. B. Bartholomew	701,007	May 27	3697	847	99	1986
Cultivator	J. B. Bartholomew	701,008	May 27	3700	848	99	1987
Cultivator	J. M. Talbert	701,419	June 3	243	54	99	2157
Cultivator	M. Shew	701,950	June 10	1191	272	99	2373
Cultivator	T. S. Warner	701,972	June 10	1232	281	99	2381
Cultivator	E. H. Bonebrake	703,039	June 24	3241	745	99	2929
Cultivator	C. W. Sleeter	704,131	July 8	1441	308	100	303
Cultivator	J. D. Riddle	704,376	July 8	1869	410	100	399
Cultivator	A. Harmon	704,384	July 15	2213	479	100	479
Cultivator	S. C. Cobb	705,208	July 22	3566	772	100	772
Cultivator	W. F. Cahoon	706,383	Aug. 5	765	167	100	1269
Cultivator	A. J. Comstock	706,726	Aug. 12	1392	310	100	1417
Cultivator	F. G. Hoag	706,942	Aug. 12	1810	405	100	1503
Cultivator	J. A. McKinnon	708,064	Sept. 2	120	28	100	2006
Cultivator	A. H. Kopperud	708,150	Sept. 2	120	28	100	2006
Cultivator	J. Franklin	710,353	Sept. 30	4267	994	100	2849
Cultivator	J. W. Alexander	711,371	Oct. 14	1876	409	101	406
Cultivator	S. Rodriguez	712,096	Oct. 23	3297	723	101	731
Cultivator	S. L. Allen	712,232	Oct. 23	3540	775	101	780
Cultivator	J. E. Gamalielson	714,168	Nov. 25	3342	736	101	1640



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Cultivator.	J. O. Lawrence	714,493	Nov. 25	3927	870	101	1755
Cultivator.	A. C. Baker	714,993	Dec. 2	691	144	101	1974
Cultivator.	G. W. Toler	715,178	Dec. 2	1066	118	101	2042
Cultivator.	E. Haftman	716,412	Dec. 23	3434	749	101	2358
Cultivator.	F. L. Lee	716,725	Dec. 23	4041	885	101	2728
Cultivator and weed-cutter.	J. H. Thompson	698,586	Apr. 29	4076	901	99	926
Cultivator and weeder.	W. M. Fenn	713,866	Nov. 18	2704	604	101	1486
Cultivator-arch. Adjustable.	C. Christensen	699,077	Apr. 29	5077	1123	99	1143
Cultivator attachment.	J. Stine	692,729	Feb. 4	900	205	98	983
Cultivator attachment.	F. D. Cook	699,454	May 6	627	143	99	1305
Cultivator. Beet.	J. W. Shields	697,098	Apr. 8	1241	277	99	282
Cultivator blade and standard attachment.	S. W. Solomon	695,178	Mar. 11	1613	357	98	2020
Cultivator. Corn.	C. M. Carlson	700,017	May 13	1710	393	99	1540
Cultivator fertilizer-distributing attachment.	S. Tannahill, Jr.	697,113	Apr. 8	1381	306	99	813
Cultivator. Hand.	J. R. Williams	699,733	May 13	1165	271	99	1427
Cultivator. Lister.	A. M. Weston	693,474	Feb. 18	2387	592	98	1387
Cultivator. Lister.	A. Lindgren	700,665	May 20	3002	688	99	1827
Cultivator. Lister.	W. S. Graham	708,509	Sept. 2	920	209	100	2168
Cultivator. Lister.	C. A. Brostrom	715,637	Dec. 9	1858	413	101	2332
Cultivator. One-horse.	S. Smith	715,388	Dec. 16	2388	519	101	2305
Cultivator or harrow.	M. Collins	692,890	Feb. 11	1092	271	98	1048
Cultivator or plow replanting attachment.	W. Harstids	690,948	Jan. 14	1090	245	98	244
Cultivator plant-guard attachment.	M. Christianson	706,160	Aug. 5	312	66	100	1180
Cultivator plow attachment.	R. W. Haulbrook	703,656	July 1	514	115	100	101
Cultivator. Riding.	S. H. Tinsman	711,747	Oct. 21	2602	572	101	573
Cultivator. Rotary.	J. Scott	701,512	June 3	413	94	99	2133
Cultivator-seat.	B. F. Clark and W. Smith	704,515	July 15	2164	468	100	469
Cultivator-shovel.	H. M. Phillips	694,417	Mar. 4	160	36	98	1746
Cultivator-shovel.	T. H. Smith	697,897	Apr. 15	2807	621	99	629
Cultivator standard or shank.	I. S. Perkins	695,078	Mar. 11	1425	312	98	2030
Cultivator. Straddle-row.	M. L. Ball	693,680	Feb. 18	2783	612	98	1418
Cultivator. Three-row disk.	W. W. Bott	714,442	Nov. 25	3846	851	101	1740
Cultivator-tooth. Adjustable.	F. G. Hoag	714,648	Nov. 25	4214	932	101	1813
Cultivator-treble-guide.	S. F. Hughes	692,517	Feb. 4	534	126	98	1008
Cultivator. Two-row.	L. Kirlin	700,337	May 20	2409	549	99	1703
Cultivator. Two-row.	J. Clausen	710,183	Sept. 30	4252	958	100	2917
Cultivator weeder attachment.	E. P. Clapp	701,844	June 10	1062	223	99	2384
Culvert. Metallic.	C. Wolcott and P. Ma Girl	691,926	Jan. 28	2946	663	98	664
Culvert. Sectional.	F. A. Sickelsteel	694,796	Mar. 4	893	198	98	1901
Cup.							
See Drinking-cup.	Oil-feed cup.						
Grease-cup.	Shaving-cup.						
Oil-cup.	Test-cup.						
Cup.	J. Bräuninger	710,138	Sept. 30	4169	989	100	2900
Cupellation-furnace.	D. Laird	704,198	July 8	1567	338	100	329
Cupola-furnace.	P. Bacher	712,472	Nov. 4	1	2	101	898
Curb and conduit. Combined.	F. Lappin	714,716	Dec. 2	126	25	101	1863
Curb and gutter block. Combined.	J. R. Jecklin	707,115	Aug. 19	2133	476	100	1587
Curb and gutter. Combined.	S. B. Morris	691,794	Jan. 28	2718	611	98	618
Curb mold. Cement or concrete.	J. T. Harrop	706,410	Aug. 5	823	180	100	1280
Curbstone.	J. E. Bedell	696,792	Apr. 1	753	171	99	160
Curbing and paving.	W. White	704,999	July 15	8118	672	100	665
Curd-cutter.	J. Lemire	702,105	June 20	1436	382	99	2872
Curd-knife and whey-strainer. Combined.	J. T. Hankins	709,319	Sept. 16	2526	569	100	2533
Curd-mill.	J. W. Frazer	712,187	Oct. 28	3462	759	101	763
Curette.	C. W. Spaulding	707,031	Aug. 12	1965	441	100	1534
Curier. Hair.	H. E. M. and D. J. L. Steiner	698,578	Apr. 29	4062	898	99	922
Curier. Hair.	A. G. B. Scuri	704,390	July 8	1911	414	100	403
Curier. Hair.	A. Sheridan	716,295	Dec. 16	3180	697	101	2532
Curling-iron heater.	C. S. Burrington	715,242	Dec. 9	1136	244	101	2086
Curling-iron heater case.	M. J. Maloof	716,315	Dec. 30	4516	979	101	2853
Curling-tongs, &c. Heater for.	W. H. Stimpson	692,037	Jan. 28	3155	712	98	705
Current collecting or trolley poles. Pivot connection of.	P. McCullough, T. Blaney, and R. Baron.	700,544	May 20	2803	640	99	1784
Current-director.	J. Reid, Jr.	717,451	Dec. 30	5529	1201	101	3067
Current-interrupter.	W. Scheidel	716,583	Dec. 23	3790	824	101	2074
Current-interrupter.	C. O. Schuler	716,584	Dec. 23	3792	824	101	2075
Current-limiting device.	S. L. G. Knox	696,065	Mar. 25	3208	725	98	2429
Current-meter.	G. L. Gowlland	706,406	Aug. 5	813	177	100	1278
Current meter. Alternating.	F. Schrottke	697,671	Apr. 15	2404	534	99	540
Current meter. Alternating.	G. Stern	697,755	Apr. 15	2555	568	99	572
Current meter. Alternating.	G. Stern	697,756	Apr. 15	2556	568	99	572
Current meter. Alternating.	T. Duncan	698,654	Apr. 29	4253	941	99	960
Current meter. Alternating.	T. Duncan	698,665	Apr. 29	4279	947	99	967
Current meter. Alternating.	T. Duncan	698,666	Apr. 29	4284	947	99	968
Current meter. Alternating.	T. Duncan	698,670	Apr. 29	4293	949	99	970
Current meter. Alternating.	T. Duncan	698,671	Apr. 29	4295	949	99	971
Current meter. Alternating.	T. Duncan	698,672	Apr. 29	4297	950	99	971
Current meter. Alternating.	T. Duncan	698,674	Apr. 29	4302	950	99	972
Current meter. Alternating.	E. Thomson	712,742	Nov. 4	508	119	101	1002
Current meter. Direct.	T. Duncan	698,653	Apr. 29	4250	940	99	959
Current meter. Induction alternate.	O. T. Blathy	716,372	Dec. 23	3350	731	101	2580
Current-motor.	W. L. Walter	701,430	June 3	280	58, 59	99	2161
Current-motor.	W. L. Walter	703,355	June 24	3825	879	99	2448
Current-motor.	L. Sprague	706,698	Aug. 12	1344	299	100	1407
Current-motor.	C. Campbell	714,778	Dec. 2	247	49	101	1887

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Current motor. Alternating.....	D. E. Coulson.....	692,121	Jan. 28	3307	749	98	735
Current motor. Alternating.....	B. G. Lamme.....	695,938	Mar. 25	2985	675	98	2384
Current motor. Alternating.....	F. Schrottkie.....	697,670	Apr. 15	2402	534	99	539
Current-motor. Automatic.....	J. Roeh.....	705,967	July 29	5089	1109	100	1090
Current-motor meter. Alternating.....	H. Brockelt.....	693,491	Feb. 18	2414	329	98	1343
Current motor. Synchronous alternating.....	A. Churchward.....	707,389	Aug. 19	2644	598	100	1695
Current motor. Synchronous alternating.....	A. Churchward.....	707,390	Aug. 19	2647	598	100	1695
Current motors. Controlling alternating.....	C. P. Steinmetz.....	714,111	Nov. 25	3787	836	101	1729
Current motors. Controlling alternating.....	C. P. Steinmetz.....	714,617	Nov. 25	4172	924	101	1806
Current motors. Starting alternating.....	T. J. Johnston.....	713,445	Nov. 11	1885	427	101	1301
Current motors. Starting alternating.....	T. J. Johnston.....	713,567	Nov. 11	2149	481	101	1353
Current-operated receiver for electromagnetic waves.	R. E. Fessenden.....	715,043	Dec. 2	702	162	101	1990
Current protection. System of strong- current-protective device.....	F. B. Cook.....	707,051	Aug. 12	1999	448	100	1342
Current-protective device.....	W. A. Taylor.....	717,300	Dec. 30	5261	1142	101	3013
Current regulator. Alternating.....	T. E. Adams.....	699,055	Apr. 29	5014	116	99	1137
Current-switching apparatus. Alternating.....	E. M. Hewlett.....	716,540	Dec. 23	3702	807	101	2054
Current transformer. Constant.....	A. R. Everest.....	700,050	Sept. 30	3981	898	100	2850
Current-wheel.....	J. A. Wells and J. D. Sumrall.....	703,871	July 1	912	200	100	183
Currents. Apparatus for determining the frequency of alternating.....	H. S. Carr.....	691,441	Jan. 21	2044	458	98	461
Currents from symmetrical alternating electromotive forces. Apparatus for producing asymmetrical.....	M. I. Pupin.....	713,045	Nov. 4	1078	251	101	1116
Currents from symmetrical alternating electromotive forces. Producing asymmetrical.....	M. I. Pupin.....	713,044	Nov. 4	1076	250	101	1116
Currents. Generating alternating.....	C. S. Bradley.....	715,545	Dec. 9	1714	379	101	2303
Currents. Generating alternating.....	C. S. Bradley.....	715,546	Dec. 9	1715	379	101	2303
Currents in alternating systems. Increasing the number of phases of.....	A. G. Davis.....	714,638	Nov. 25	4207	930	101	1812
Currents. Instrument for indicating the phase and frequency relations of alternating.....	F. Conrad.....	695,913	Mar. 25	2941	696	98	2375
Currents. Means for changing the tension of.....	W. M. Fairfax.....	704,453	July 8	2027	440	100	427
Currents. Means for transforming alternating.....	J. E. Woodbridge.....	717,518	Dec. 30	5648	1236	101	3091
Currents. Producing multiphase currents from single-phase.....	A. G. Davis.....	714,639	Nov. 25	4207	931	101	1812
Currents. Rectifier for single or polyphase alternating.....	A. Nodon.....	715,126	Dec. 2	916	197	101	2024
Currents. Transformer for polyphase alternating.....	E. Ziehl.....	715,930	Dec. 16	2470	546	101	2385
Currents. Transforming alternating.....	J. E. Woodbridge.....	717,488	Dec. 30	5598	1215	101	3081
Currycomb.....	S. B. Felty.....	690,712	Jan. 7	669	148	98	141
Currycomb.....	J. E. Gilbert.....	693,259	Feb. 11	1972	429	98	1290
Currycomb.....	R. T. Gillespie.....	693,200	Feb. 11	1974	429	98	1290
Currycomb.....	C. E. Herschberger.....	693,946	Apr. 29	4862	1073	99	1090
Currycomb.....	C. P. Breining.....	699,486	May 6	680	158	99	1317
Currycomb.....	A. Tepfer and O. M. Heltner.....	708,597	Sept. 9	1065	241	100	2208
Currycomb.....	F. L. Greene and S. D. Wood.....	711,423	Oct. 14	1959	426	101	423
Currycomb.....	J. Herfert.....	712,530	Nov. 4	129	31	101	925
Currycomb or card cleaner.....	C. E. Flanders.....	717,377	Dec. 30	5392	1172	101	3239
Currying device.....	H. J. Bretzel.....	713,281	Nov. 11	1974	360	101	1239
Curtain.....	E. H. Burrows.....	693,107	Feb. 11	1655	360	98	1165
Curtain.....	E. H. Duchemin.....	716,208	Dec. 16	3038	668	101	2503
Curtain and drapery bracket.....	D. and W. H. McCarthy.....	698,846	Apr. 29	4696	1035	99	1065
Curtain and shade holder.....	G. Palmblad.....	692,472	Feb. 4	441	103	98	888
Curtain and shade support. Window.....	J. Gale.....	704,532	July 15	2198	476	100	476
Curtain-bracket.....	E. L. Burns.....	698,735	Apr. 29	4540	1004	99	1225
Curtain-bracket.....	J. F. Seibert.....	712,858	Nov. 4	743	172	101	1051
Curtain-bracket. Adjustable.....	L. A. Watts.....	708,280	Sept. 2	523	119	100	2088
Curtain-bracket. Adjustable.....	L. A. Watts.....	708,507	Sept. 2	917	208	100	2167
Curtain-bracket. Window.....	A. C. Miller.....	708,881	Sept. 2	686	154	100	2120
Curtain-fastener.....	A. M. Shauck.....	701,630	June 3	643	141	99	2243
Curtain-fixture.....	M. Jolliffe.....	690,437	Jan. 7	97	21	98	23
Curtain-fixture.....	O. L. Schanbacher.....	690,681	Jan. 7	98	21	98	23
Curtain-fixture.....	C. A. Oberchain.....	691,799	Jan. 23	2734	617	98	621
Curtain-fixture.....	W. E. Matthews.....	693,296	Feb. 11	2039	445	98	1243
Curtain-fixture.....	C. E. Baur.....	696,303	Mar. 25	3709	839	98	2532
Curtain-fixture.....	W. H. Bongart.....	696,404	Apr. 1	21	6	99	7
Curtain-fixture.....	A. E. W. Duffield.....	697,832	Apr. 15	2674	594	99	599
Curtain-fixture.....	A. Leach.....	700,951	May 27	3584	824	99	1693
Curtain-fixture.....	J. Jordan, Jr., and P. J. Egan.....	701,570	June 3	521	115	99	2316
Curtain-fixture.....	J. Burley.....	702,537	June 17	3294	518	99	2614
Curtain-fixture.....	E. Fheck.....	703,955	July 1	1072	231	100	213
Curtain-fixture.....	S. T. Nakashjian.....	704,205	July 8	1577	340	100	330
Curtain-fixture.....	C. J. Wiltzie.....	710,644	Oct. 7	471	99	101	95
Curtain-fixture.....	H. E. Keeler.....	714,110	Nov. 18	3189	705	101	1590
Curtain-fixture.....	W. Wegner.....	714,980	Dec. 2	660	140	101	1969
Curtain-fixture.....	F. Hofmann.....	715,660	Dec. 9	1908	427	101	2243
Curtain-fixture.....	C. B. Lakin.....	716,060	Dec. 16	2727	602	101	2438
Curtain-fixture and curtain-support. Combined.....	C. B. Jacoby.....	709,578	Sept. 23	3077	684	100	2660
Curtain-fixture. Window.....	L. Strickler and C. H. Fisk.....	710,577	Sept. 30	4590	1035	100	2988
Curtain-hanger.....	A. F. Goshorn.....	702,420	June 17	2058	468	99	2568
Curtain-holder.....	C. Heyer.....	700,142	May 13	1979	454	99	1592
Curtain-holder and pole-ring.....	E. Marsky.....	691,155	Jan. 14	1461	333	98	320
Curtain-holding device. Spring-actuated.....	F. H. Milans.....	690,980	Jan. 14	1164	263	98	258
Curtain or shade fixture.....	F. E. Sircolomb.....	702,387	June 17	2825	650	99	2729
Curtain or shade holding fixture.....	J. H. Milans.....	695,692	Mar. 18	2539	574	98	2277
Curtain-pole.....	A. M. H. Culp.....	691,605	Jan. 21	2335	525	98	530
Curtain-pole.....	J. Jacoby.....	693,715	Feb. 18	2847	630	98	1430
Curtain-pole.....	D. L. Altman.....	694,710	Mar. 4	715	157	98	1862
Curtain-pole.....	E. S. Strömquist.....	696,379	Mar. 25	3666	820	98	2523



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. G.	Vol.	Page.
Curtain-pole .....	J. Assel .....	696,534	Apr. 1	252	57	99	57
Curtain-pole .....	G. Poschmann .....	699,971	May 13	1641	376	99	1526
Curtain-pole .....	L. J. Graft .....	702,723	June 17	2634	606	99	2688
Curtain-pole .....	T. C. Richards .....	705,296	July 22	3755	815	100	810
Curtain-pole .....	A. A. White .....	712,163	Oct. 28	3420	749	101	755
Curtain-pole .....	A. O'Sullivan .....	716,747	Dec. 23	4079	893	101	2735
Curtain pole and hanger .....	H. P. Roberts .....	701,817	June 3	954	211	99	2308
Curtain pole and hanger .....	S. G. Greene .....	706,315	Aug. 5	627	137	100	1243
Curtain-pole and shade-fixture .....	E. H. Callen .....	710,352	Sept. 30	4548	1026	100	2980
Curtain-pole and shade-roller bracket .....	G. L. Lyons .....	704,351	July 8	1850	400	100	391
Curtain pole. Lace .....	J. R. Stilwell .....	715,704	Dec. 9	1989	445	101	2260
Curtain pole or rod .....	E. C. Phillips .....	703,214	June 24	3581	822	99	2806
Curtain-pole ring .....	A. Hothan .....	695,313	Mar. 11	1864	415	98	2120
Curtain-pole ring .....	G. Erich .....	699,507	May 6	715	166	99	1324
Curtain-pole. Ringless .....	H. H. Edgely .....	706,530	Aug. 12	1061	234	100	1345
Curtain-poles, &c. Means for connecting orna- mental heads or knobs to .....	F. K. Phillips .....	714,231	Nov. 25	3466	762	101	1664
Curtain-rod .....	M. P. Creahan .....	702,707	June 17	2599	598	99	2681
Curtain rod. Sash .....	L. Prideaux .....	698,223	Apr. 22	3451	738	99	781
Curtain. Storm .....	J. W. Simmons .....	706,461	Aug. 5	927	191	100	1303
Curtain-stretcher .....	F. Violette .....	697,695	Apr. 15	2448	545	99	549
Curtain-stretcher .....	H. E. Howard .....	699,685	May 13	1075	251	99	1410
Curtain-stretcher .....	C. G. Carlson .....	701,014	May 27	3717	852	99	1991
Curtain-stretcher .....	W. A. Mayr .....	705,857	July 29	4894	1064	100	1051
Curtain-stretcher easel-leg .....	C. G. Carlson and W. A. Mayr .....	692,826	Feb. 11	1064	243	98	1046
Curtain-stretching frame .....	J. C. Wagner .....	714,059	Nov. 18	3120	690	101	1574
Curtain support. Adjustable window .....	C. P. H. Cook .....	702,285	June 10	1793	410	99	2494
Curtains. Device for holding spring-actuated .....	J. H. Milans .....	707,609	Aug. 26	3079	693	100	1801
Curtains or valances. Adjustable chain-heading for chain or rope .....	W. S. Hepburn and A. G. Morrison .....	704,799	July 15	2669	577	100	571
Cushion: See Air-cushion. Pneumatic cushion. Billiard-table cush- Spring-cushion. ion. Valve air-cushion.							
Cushion-machine .....	J. C. Linder .....	717,103	Dec. 30	4872	1055	101	2928
Cushion-making machine .....	G. Buckman .....	702,340	June 10	1897	433	99	2513
Cushion-stuffing device .....	E. E. Berry .....	703,038	June 24	3239	745	99	2828
Cushion, water-bag, and fountain-syringe. Com- bined .....	J. P. Schan .....	698,861	Apr. 29	4719	1089	99	1069
Cuspidor .....	O. L. Sues .....	691,414	Jan. 21	1995	447	98	450
Cuspidor .....	E. L. and W. H. Cadwell .....	701,291	June 3	23	5	99	2113
Cuspidor .....	R. A. Yochum .....	703,884	July 1	935	204	100	188
Cuspidor .....	J. Booth .....	705,375	July 22	3945	855	100	847
Cuspidor .....	S. H. Duncan .....	706,538	Aug. 12	1060	233	100	1345
Cuspidor .....	A. Lindsay .....	700,165	Sept. 16	2227	506	100	2468
Cuspidor holder and cleaner .....	L. and J. Tessier .....	691,415	Jan. 21	1996	448	98	450
Cuspidor-rack .....	F. F. Ball .....	708,294	Sept. 2	552	125	100	2094
Cut-off and strainer. Rain-water .....	C. T. Childers .....	710,668	Oct. 7	521	109	101	106
Cut-off. Down-spout .....	M. C. Harrison .....	693,009	Feb. 11	1456	316	98	1125
Cut-off. Drain-pipe .....	F. J. Louis .....	713,466	Nov. 11	1927	436	101	1310
Cut-off. Variable .....	A. D. and J. H. Gillett .....	694,057	Feb. 25	3532	778	98	1587
Cut-out .....	J. W. Howell .....	717,201	Dec. 30	5098	1105	101	2977
Cut-out. Automatic .....	A. A. Seeley and C. Silet .....	695,437	Mar. 18	2162	489	98	2201
Cut-out. Automatic .....	C. P. Steinmetz .....	701,958	June 10	1206	274	99	2376
Cut-out. Automatic .....	G. E. Andrews .....	707,894	Aug. 26	3700	831	100	1924
Cut-out. Thermal .....	M. O. Troy .....	712,107	Oct. 28	3315	727	101	734
Cutter: See Axle-spindle cutter, Grass or grain cutter. Band-cutter, Groove-cutter. Bean-cutter, Harvester-cutter. Boiler-tube cutter, Kraut-cutter. Bolt-cutter, Lawn-cutter. Bolt and nut cutter, Leather-lace cutter. Bread-cutter, Linoleum-cutter. Butter-cutter, Mat-cutter. Buttonhole-cutter, Meat-cutter. Cane-cutter, Milling-cutter. Cheese-cutter, Milling-machine cutter. Chocolate-cutter, Mold-cutter. Cigar-cutter, Nail-cutter. Cigar-tip cutter, Paper-cutter. Cloth-cutter, Peg-cutter. Confectionery-cut-ter, Pipe-cutter. ter, Potato-cutter. Corn-cutter, Rotary cutter. Cornstalk-cutter, Spoke-cutter. Cotton-stalk cutter, Stalk and weed cutter. Curd-cutter, Thread-cutter. Dado-cutter, Tobacco-cutter. Disk cutter, Tube-cutter. Dough-cutter, Twine-cutter. Dredger-cutter, Vegetable-cutter. Flue-cutter, Vegetable or meat cut- ter, Flue-cleaning cut- ter. Food-cutter, Vine-cutter. Fruit or vegetable cutter, Washer and gasket cut- ter. Gear-cutter, Wedge-cutter. Gear-tooth cutter, Wire-cutter. Glass-cutter.							
Cutter .....	F. L. Levy .....	701,061	May 27	3793	869	99	2008

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Pr. g.	Vol.	Page.
Cutter.....	N. Johnson.....	710,583	Oct. 7	364	76	101	73
Cutter-bar.....	D. E. White.....	697,050	Apr. 8	1273	283	99	280
Cutter-guard doffer.....	H. E. Irwin.....	700,933	May 27	3562	820	99	1959
Cutter-head.....	G. Johnson, Jr.....	691,269	Jan. 14	1677	382	98	365
Cutter-head.....	S. M. Langston.....	692,155	Jan. 28	3365	762	98	748
Cutter-head.....	N. Bly.....	696,794	Apr. 1	758	172	99	161
Cutter-head.....	E. S. Shimer.....	698,331	Apr. 22	3628	801	99	317
Cutter-head.....	G. O. Johnson, Jr.....	703,272	June 24	3971	845	99	2915
Cutter-head bit.....	F. O. Mechlin.....	706,078	Aug. 5	149	31	100	1147
Cutter-head. Expandible.....	H. A. Pardoe and E. S. Shimer.....	700,552	May 20	2811	644	99	1786
Cutter-head extension.....	E. S. Shimer.....	691,191	Jan. 14	1532	346	98	334
Cutter-head-setting gage.....	C. E. Hawley.....	694,060	Feb. 25	3535	770	98	1588
Cutter-head-setting gage.....	S. F. Wise.....	691,331	Jan. 14	1843	417	98	403
Cutter mechanism. Traveling.....	E. E. Slick.....	704,941	July 15	2997	642	100	642
Cutter or tool gage.....	J. P. Hayes.....	715,377	Dec. 9	1381	297	101	2137
Cutting and collating machine. Combined.....	W. and A. Robertson.....	710,010	Sept. 30	3911	883	100	2345
Cutting apparatus.....	G. H. Peterson.....	690,767	Jan. 7	772	172	98	163
Cutting device.....	A. A. Low.....	710,109	Sept. 30	4104	826	100	2884
Cutting edges, &c. Means for preserving and rendering sharp.....	O. Newhouse.....	693,146	Feb. 11	1743	382	98	1182
Cutting edges of implements. Rendering sharp and even.....	O. Newhouse.....	697,529	Apr. 15	2139	476	99	487
Cutting irregular surfaces. Machine for.....	A. Johnston.....	694,386	Mar. 4	99	22	98	1734
Cutting-machine.....	O. Zucker.....	691,883	Jan. 28	2873	647	98	650
Cutting-machine.....	E. H. Kimball.....	693,404	Feb. 18	2252	493	98	1309
Cutting-machine.....	T. D. Robinson and R. D. Vile.....	716,479	Dec. 23	3566	773	101	2626
Cutting-machine and cutting-table and pattern therefor.....	G. Scott and E. D. Weyburn.....	698,064	Apr. 22	3122	687	99	712
Cutting-machine. Hydraulic.....	W. J. Bridger.....	710,837	Oct. 7	844	184	101	172
Cutting mechanism.....	F. Herb.....	690,521	Jan. 7	304	60	98	66
Cutting-off tool.....	C. W. Grant.....	713,001	Nov. 4	1062	235	101	1101
Cutting-tool.....	S. Welter and J. Armstrong.....	700,865	May 27	3432	787	99	1932
Cutting-tool.....	W. Branckowitch.....	716,184	Dec. 16	2992	654	101	2494
Cutting-tool. Pneumatic.....	J. W. Birkenstock.....	691,334	Jan. 14	1848	418	98	404
Cutting worm threads. Machine for.....	J. P. Brophy.....	703,986	July 8	1143	248	100	243
Cyanid compound and making same.....	G. Erlwein and A. Frank.....	708,333	Sept. 2	619	100	2107	
Cyanid-tank.....	J. J. Hervey.....	698,016	Apr. 22	3037	667	99	694
Cyanids. Making.....	J. D. Darling.....	698,463	Apr. 29	3876	868	99	884
Cyanids. Making.....	G. Ottermann.....	701,604	June 3	586	129	99	2230
Cycle.....	A. Sharp.....	692,078	Jan. 28	3240	732	98	722
Cycle.....	R. Wittmann.....	693,202	Feb. 11	1872	405	98	1208
Cycle.....	C. L. Horack.....	706,058	Aug. 5	107	23, 24	100	1139
Cycle-race.....	F. S. Willoughby.....	712,165	Oct. 28	3425	750	101	755
Cycle-brake.....	W. Branckowitch.....	708,197	Sept. 2	382	89	100	2060
Cycle-brake-operating handle.....	A. Sharp.....	711,443	Oct. 14	2000	434	101	431
Cycle coaster and brake mechanism.....	G. T. Warwick.....	693,472	Feb. 18	2382	521	98	1336
Cycle driving-gear.....	J. B. Forster.....	713,867	Nov. 18	2705	604	101	1486
Cycle driving-gear. Motor.....	D. Macdonald.....	713,467	Nov. 11	1928	437	101	1310
Cycle driving mechanism.....	J. W. Edbild.....	690,411	Jan. 7	13	11	98	12
Cycle frame. Motor.....	V. H. Bendix.....	696,001	Mar. 25	3094	701	98	2405
Cycle. Motor.....	H. H. Peirce.....	690,602	Jan. 7	452	97	98	97
Cycle. Motor.....	E. S. Strickland.....	692,942	Feb. 11	1336	291	98	1101
Cycle. Motor.....	W. H. Muzzy.....	700,151	May 13	1994	458	99	1505
Cycle. Motor.....	F. Thourout.....	713,538	Nov. 11	2086	466	101	1341
Cycle motor attachment.....	L. M. Meyrick-Jones.....	709,549	Sept. 23	3026	673	100	2649
Cycle motor attachment.....	L. M. Meyrick-Jones.....	709,550	Sept. 23	3026	673	100	2649
Cycle-motor driving apparatus.....	H. J. Lawson.....	700,309	May 20	2131	488	99	1647
Cycle propelling mechanism.....	C. Olson.....	701,761	June 3	860	190	99	2288
Cycle-rest.....	H. U. von Troschke.....	709,588	Sept. 23	3089	688	100	2663
Cycle-saddle.....	W. Eximptor.....	695,142	Mar. 11	155	244	98	2058
Cycle-saddle.....	J. B. Brooks and J. Holt.....	698,367	Apr. 22	3691	815	99	830
Cycle saddle attachment.....	J. B. Brooks and J. Holt.....	703,891	July 1	950	208	100	191
Cycle-seat.....	E. J. G. Goerke.....	712,059	Oct. 28	3239	709	101	720
Cycle. Separable and reversible.....	F. Ishöy.....	693,521	Feb. 18	2473	512	98	1355
Cycle spring-frame. Motor.....	E. Y. White.....	716,604	Dec. 23	3890	831	101	2683
Cycle-stand.....	C. W. L. Schmidt.....	694,030	Feb. 25	3479	766	98	1576
Cycle-support.....	R. F. Cornell.....	711,717	Oct. 21	2558	558	101	550
Cycle-support.....	R. F. Cornell.....	711,922	Oct. 21	2556	651	101	646
Cycle. Water.....	S. R. Perry.....	691,805	Jan. 28	2739	618	98	622
Cycle-wheel-hub cleaning device.....	R. Klein.....	712,809	Nov. 4	650	150	101	1031
Cycle wind-shield.....	E. Stevens.....	695,960	Mar. 25	3024	685	98	2391
Cycles. Clamp particularly adapted for securing fittings to the frames of.....	P. B. H. Seabrook.....	702,160	June 10	1586	359	99	2452
Cycles, &c. Means for propelling.....	S. Smith.....	715,889	Dec. 16	2389	529	101	2365
Cycles, motor-cars, &c. Brake mechanism for.....	G. E. Bennett.....	702,337	June 10	1890	432	99	2311
Cycles. Two-speed driving-gear for.....	A. Pellant.....	704,663	July 15	2409	521	100	520
Cycling. Construction of courses or tracks for.....	C. H. Jones.....	701,348	June 3	128	36	99	2135
Cyclometer and register mechanism.....	L. J. Burdick.....	695,536	Mar. 18	2243	507	98	2218
Cylinder-lock.....	H. G. Voigt and W. E. Parker.....	712,024	Oct. 28	3162	691	101	705
Cylinders and valve-chests to saddles. Means for securing.....	S. M. Vaucelain.....	711,886	Oct. 21	2870	635	101	630
D-handle.....	T. W. Wright.....	710,389	Sept. 30	4614	1041	100	2394
Dado-cutter.....	C. H. Archer.....	708,751	Sept. 9	1362	310	100	2271



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Damper.....	J. W. Anderson.....	691,736	Jan. 28	2587	580	98	580
Damper.....	R. G. Latham.....	697,358	Apr. 8	1635	366	99	366
Damper.....	E. M. McCleary.....	698,995	Apr. 29	4945	1095	99	1116
Damper.....	R. Winter.....	700,396	May 20	2524	578	99	1725
Damper.....	C. Loeffler.....	708,995	Sept. 9	1799	414	100	2361
Damper attachment Stove.....	J. R. Stover.....	707,366	Aug. 19	3392	588	100	1685
Damper. Automatic stovepipe.....	R. G. Smith and J. H. Mathis.....	710,901	Oct. 7	946	207	101	192
Damper-controller.....	D. H. Darrin.....	697,705	Apr. 15	2408	550	99	533
Damper. Fireplace.....	S. Shaw.....	697,893	Apr. 15	2803	620	99	628
Damper for stovepipes. Ventilating.....	G. W. Bowen.....	705,199	July 22	3532	766	100	766
Damper for stoves, ranges, &c.....	N. Burdick.....	711,653	Oct. 21	3410	531	101	531
Damper-locking means.....	J. Schuessler.....	715,336	May 2	1379	292	101	1228
Damper mechanism.....	F. G. Cooper.....	713,066	Nov. 11	1134	260	101	1145
Damper mechanism. Time.....	S. S. Colt.....	690,337	Jan. 7	517	113	98	111
Damper mechanism. Time.....	G. E. Archer.....	706,373	Aug. 5	737	160	100	1265
Damper-operating apparatus.....	G. Grobet and C. Bernasconi.....	708,807	Sept. 9	1483	340	100	2297
Damper-operating mechanism.....	E. R. Cahoone.....	698,808	Apr. 29	4591	1013	99	1042
Damper-regulator.....	S. Coats.....	708,319	Sept. 2	593	135	100	2162
Damper-regulator.....	G. F. Patterson.....	715,136	Dec. 2	132	89	101	1328
Damper-regulator for hot-water heaters.....	D. C. Humphreys.....	714,699	Dec. 2	95	18	101	1875
Damper-regulator. Stove.....	B. J. Casterline.....	694,460	Mar. 4	231	52	98	1762
Damper-regulator. Time.....	T. E. Hunt.....	716,548	Dec. 23	3718	809	101	2658
Damper. Stove.....	W. G. Montgomery.....	702,313	June 10	1835	419	99	2502
Damper. Stove.....	E. M. Gleason.....	704,319	July 8	1772	387	100	372
Damper. Stovepipe or drum.....	C. C. McCurley.....	711,066	Oct. 14	1290	279	101	280
Damper. Time-controlled.....	R. A. Kerr.....	699,030	Oct. 14	1251	385	100	1251
Damping apparatus.....	G. Staber.....	703,062	June 24	3351	770	99	2851
Dams. Building.....	A. D. Foote.....	704,181	July 8	1530	330	100	323
Dandy-roll.....	F. H. Bills.....	694,717	Mar. 4	727	161	98	1805
Dandy-roll cleaner.....	W. W. Weaver and L. H. Sanford.....	697,302	Apr. 8	1716	383	99	386
Dark room. Portable.....	A. Werner.....	694,221	Feb. 25	3384	847	98	1644
Dash fastening. Vehicle.....	D. W. Connell.....	712,501	Nov. 4	66	17	101	911
Dash-pot.....	W. A. Heywood.....	697,145	Apr. 8	1435	321	99	325
Dash-pot.....	M. R. Moore.....	697,644	Apr. 15	2351	525	99	529
Dashboard.....	G. C. Bushnell.....	704,812	July 15	2704	585	100	578
Dashboard frame. Vehicle.....	P. J. Timberlake.....	692,945	Feb. 11	1343	292	98	1102
Dashboard frame. Vehicle.....	P. J. Timberlake.....	692,946	Feb. 11	1346	293	98	1102
Dauber for holding and applying paste or liquid substances.....	Q. G. Parvin.....	698,305	Feb. 11	5053	449	98	1426
Davit or boat-lowering device. Ship's.....	P. C. Johnson.....	701,049	May 27	3777	865	99	2004
Dead-centers. Device for overcoming.....	C. Reeves.....	710,512	Oct. 7	228	50	101	46
Dead-centers. Device for overcoming.....	A. B. Grider.....	711,494	Oct. 21	2100	457	101	468
Deaerator.....	H. Shoemaker.....	710,372	Sept. 30	1581	1034	100	2987
Decorating apparatus. Surface.....	W. E. Gard.....	704,627	July 15	2311	511	100	506
Decorative artwork and producing same.....	T. N. Swinnerton.....	695,010	Mar. 11	1298	286	98	2003
Decorative material. Manufacturing.....	W. E. Coleman.....	713,497	Nov. 18	2234	496	101	1387
Decoupling attachment.....	L. Boivin.....	716,857	Dec. 30	4462	955	101	2820
Decoy.....	J. Coulon.....	694,732	Mar. 4	764	170	98	1873
Decoy-duck.....	J. Coulon.....	710,433	Oct. 7	62	14	101	15
Deflector.....	D. J. Maloney.....	716,450	Dec. 23	3513	768	101	2615
Deflector and screen. Combined.....	C. R. McCluer.....	706,440	Aug. 5	803	193	100	1296
Dehorning instrument.....	J. G. Brown.....	700,168	May 20	2562	469	99	1630
Delinting-machine.....	J. Kasmeier.....	691,272	Jan. 14	1082	382	98	366
Delivering comminuted solids. Machine for.....	H. Treadwell.....	693,465	Feb. 18	2361	517	98	1331
Delivery mechanism.....	G. F. Read.....	700,238	May 20	2194	502	99	1659
Delivery mechanism.....	W. Scott.....	708,836	Sept. 9	1551	354	100	2310
Delivery mechanism.....	W. Scott.....	709,180	Sept. 16	2354	513	100	2474
Delivery mechanism.....	H. A. W. Wood.....	717,487	Dec. 30	5594	1214	101	3080
Demagnetizer.....	G. Boettger.....	699,803	May 13	1429	330	99	1482
Demi-john-covering.....	J. G. Bahr.....	705,895	July 29	4959	1079	100	1036
Demi-john-covering.....	F. S. and L. Thomas.....	708,427	Sept. 2	757	172	100	2163
Demi-john-holder.....	A. B. Park.....	711,048	June 24	181	306	101	308
Dental amalgam. Means for producing.....	A. A. Shaw and R. A. Stevens.....	715,216	Dec. 2	1082	232	101	2053
Dental apparatus.....	L. Eliertsen.....	709,973	Sept. 30	3856	868	100	2841
Dental apparatus. Switch for electromotors for driving.....	E. Schreier and H. Dümmler.....	701,627	June 3	638	140	99	2242
Dental appliance.....	G. H. Claude.....	697,326	Apr. 8	1748	390	99	392
Dental appliance.....	H. E. Lindas.....	702,805	June 17	2731	611	99	2721
Dental articulator.....	J. Tiffin and C. E. Bentley.....	696,774	Apr. 1	723	161	99	154
Dental articulator.....	J. Tiffin and C. E. Bentley.....	698,964	Apr. 29	4801	1080	99	1115
Dental-band-fitting instrument.....	E. L. Townsend.....	713,041	Nov. 4	1072	250	101	1105
Dental bridges. Machine for forcibly casting.....	M. W. Hollingsworth.....	708,811	Sept. 9	1492	342	100	2299
Dental bridgework.....	J. L. Kelly.....	709,410	Sept. 16	2717	609	100	2572
Dental bridgework.....	E. L. Townsend.....	713,040	Nov. 4	1071	249	101	1115
Dental bridgework. Securing device for.....	W. E. Griswold.....	702,871	June 17	2004	672	99	2745
Dental bur.....	C. F. Hawkins.....	703,074	Aug. 24	181	306	100	2829
Dental-cement-injecting tube. Collapsible.....	H. L. Crutenden.....	716,677	Dec. 23	3357	865	101	2709
Dental-cement injector.....	H. L. Crutenden.....	716,676	Dec. 23	3356	865	101	2709
Dental chair.....	A. W. Browne.....	713,382	Nov. 11	1505	361	101	1229
Dental-chair back-rest.....	G. Shibley.....	694,683	Mar. 4	669	146	98	1853
Dental-chair head-rest.....	G. Shibley.....	694,684	Mar. 4	670	146	98	1854
Dental-crown-slitting tool.....	G. W. Teufel.....	696,772	Apr. 1	721	163	99	154
Dental cuspidor.....	J. E. Van Nostran.....	704,601	July 15	2313	502	100	499
Dental cuspidor.....	J. E. Van Nostran.....	704,638	Oct. 7	463	97	101	93
Dental-device holder.....	J. A. Mead.....	694,621	Feb. 25	3454	762	98	1571
Dental engine.....	A. W. Schramm.....	704,937	July 15	2886	640	100	640
Dental engine.....	O. H. and A. F. Pieper.....	712,716	Nov. 4	462	110	101	940
Dental engine.....	F. Hurlbut.....	713,713	Nov. 11	1213	277	101	1163
Dental-engine chip-blowing attachment.....	W. W. Burgin.....	694,528	Mar. 4	369	81	98	1791

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &c.	Vol.	Page.
Dental-engine guard attachment.....	I. N. Williams.....	696,155	Mar. 25	3438	772	98	2478
Dental-engine handpiece.....	F. W. Dean.....	691,753	Jan. 28	2643	591	98	602
Dental-engine handpiece.....	A. W. Schramm, E. B. Wilford, and E. Fulton.....	714,613	Nov. 25	4138	919	101	1803
Dental-engine wall-bracket.....	A. W. Browne.....	696,545	Apr. 1	275	64	99	62
Dental fastening and bridgework.....	W. E. Griswold.....	702,857	June 17	2888	666	99	2741
Dental filling-tool.....	P. C. Hammersmith.....	712,526	Nov. 4	119	20	101	923
Dental flask.....	F. A. Brewer, Jr., and G. W. Harvey.....	706,016	Aug. 5	21	5	100	1120
Dental flask.....	W. Waegel.....	715,182	Dec. 2	1020	221	101	2044
Dental flasks. Closing and locking device for.....	D. A. Baker.....	702,276	June 10	1780	406	99	2461
Dental floss-holder.....	A. Baumeister.....	691,581	Jan. 21	2287	514	98	511
Dental floss-holder.....	J. W. Cowan.....	695,092	Mar. 11	1447	321	98	2034
Dental forceps.....	S. H. B. Cochrane.....	705,320	July 22	3811	826	100	820
Dental forceps.....	W. T. Martin.....	713,470	Nov. 11	1996	438	101	1312
Dental form for holding teeth.....	R. J. Wenker.....	707,810	Aug. 26	3530	797	100	1892
Dental furnace. Electrical.....	A. M. Hewett and J. C. Smith.....	714,373	Nov. 25	3725	820	101	1717
Dental gage.....	C. R. Vanderpool.....	696,120	Mar. 25	3354	758	98	2461
Dental gage.....	C. R. Vanderpool.....	700,834	Sept. 23	3543	738	100	2757
Dental-gold annealer.....	C. F. Lauderdale.....	708,772	Sept. 9	1403	322	100	2379
Dental handpiece.....	J. D. Wilkens.....	713,826	Nov. 18	2637	586	101	1470
Dental heater.....	G. Evans.....	714,105	Nov. 18	3182	704	101	1588
Dental impression-cup.....	W. E. Griswold.....	702,645	June 17	2439	571	99	2658
Dental impression-tray.....	E. L. Townsend.....	699,776	May 13	1252	230	99	1445
Dental instrument.....	W. E. Harper.....	691,763	Jan. 28	2659	596	98	606
Dental instrument.....	N. T. Yager.....	692,582	Feb. 4	647	151	98	931
Dental instrument.....	J. W. McConnell.....	698,997	Apr. 23	4947	1095	99	1116
Dental instrument.....	J. F. O. McMath.....	712,576	Nov. 4	225	54	101	944
Dental instrument.....	C. P. Wilson.....	714,983	Dec. 2	675	141	101	1971
Dental-instrument case.....	A. J. and H. Aderer.....	691,695	Jan. 21	2507	561	98	557
Dental instruments. Support and switch for electric.....	E. O. Pieper.....	702,073	June 10	1443	324	99	2423
Dental lamp.....	H. J. Jaeger.....	692,294	Feb. 4	136	32	98	827
Dental lathe.....	J. J. Brown.....	696,713	Apr. 1	605	136	99	131
Dental mallet.....	J. W. Thatcher.....	700,160	May 13	2013	461	99	1600
Dental mandrel.....	B. Robinson.....	692,713	Feb. 4	879	200	98	979
Dental mandrel.....	G. J. Paynter.....	711,340	Oct. 14	1825	396	101	305
Dental matrix.....	W. Crenshaw.....	701,709	June 3	921	205	99	2391
Dental matrix-crown.....	I. H. Alexander.....	713,273	Nov. 11	1577	357	101	1235
Dental mouth-mirror.....	J. Kupfer.....	703,729	July 1	657	145	100	131
Dental mouth-mirror.....	G. S. Bennett and J. W. Thatcher.....	700,812	Sept. 23	3513	792	100	2750
Dental mouth prop and mirror.....	W. Hare.....	692,281	Feb. 4	119	28	98	823
Dental obturator.....	A. F. Merriman, Jr.....	696,552	Apr. 1	465	108	99	100
Dental occlusor.....	C. L. Stocks.....	716,781	Dec. 23	4147	901	101	2750
Dental oven.....	J. A. McClelland.....	714,938	Dec. 2	597	125	101	1954
Dental plate air-chambers. Former for.....	L. Arndt.....	691,092	Jan. 14	1358	308	98	296
Dental plates. Casting.....	W. Streetman.....	700,855	May 27	3419	785	99	1930
Dental pliers.....	A. J. and H. Aderer.....	691,694	Jan. 21	2506	561	98	557
Dental plugger.....	F. W. Korb.....	712,813	Nov. 4	657	152	101	1032
Dental plugger.....	J. D. Wilkens.....	715,447	Dec. 9	1308	327	101	2163
Dental purposes. Electric heater for.....	J. Cook and J. M. Pumerville.....	711,827	Oct. 21	2757	611	101	2658
Dental tool.....	W. E. Griswold.....	702,646	June 17	2400	571	99	604
Dental tool for slitting cap-crowns.....	C. J. Reynolds.....	701,616	June 3	600	132	99	2334
Dental tool-holder.....	C. A. Lundberg.....	713,319	Nov. 11	1672	376	101	1255
Dental vulcanizer.....	J. S. Campbell.....	699,653	May 13	1012	235	99	1397
Dentifrice.....	M. H. Fletcher.....	693,349	Feb. 11	2139	598	98	1266
Dentist's electrical annealing-furnace.....	N. K. Garhart.....	712,057	Oct. 23	3236	708	101	719
Dentists' or other uses. Composition of materials for.....	S. J. Spence.....	716,491	Dec. 23	3590	801	101	2632
Dentistry.....	G. G. Martin.....	713,469	Nov. 11	1935	438	101	1312
Dentistry. Mechanical.....	H. A. Littig.....	715,492	Dec. 9	1601	346	101	2181
Denture. Artificial.....	A. F. Cogswell.....	695,796	Mar. 18	2725	621	98	2315
Denture. Artificial.....	S. H. B. Cochrane.....	697,983	Apr. 23	2973	657	99	682
Denture. Artificial.....	J. E. Dunn.....	703,720	July 1	641	142	100	128
Denture. Artificial.....	T. P. Lacy.....	711,324	Oct. 14	1780	387	101	387
Dentures. Rotary scraper for finishing artificial.....	T. P. Boyce.....	706,013	Aug. 5	17	4	100	1120
Deodorizer. Milk or cream.....	H. B. Howe.....	709,093	Sept. 16	2087	478	100	2440
Deodorizing.....	F. M. Pratt.....	705,787	July 29	4770	1034	100	1025
Deodorizing.....	F. M. Pratt.....	707,351	Aug. 19	2583	583	100	1682
Deodorizing milk or cream.....	H. B. Howe.....	709,094	Sept. 16	2089	479	100	2441
Depilating compound.....	H. S. Blinn.....	707,953	Aug. 26	3797	808	100	1945
Depilating compound.....	H. S. Blinn.....	707,955	Aug. 26	3799	810	100	1945
Depilating process.....	H. S. Blinn.....	707,954	Aug. 26	3798	808	100	1945
Depositor. Double-stroke.....	D. M. Holmes.....	707,590	Aug. 26	3045	685	100	1794
Depth and inclination indicator and recorder.....	H. S. Lathrop.....	715,095	Dec. 2	865	185	101	2014
Derailer.....	G. L. Mansfield.....	709,101	Sept. 16	2101	481	100	2443
Derailing device.....	S. W. Hayes and T. E. Lutz.....	693,544	Feb. 18	2515	554	98	1363
Derailing-switch.....	J. C. Hare.....	711,308	Oct. 14	1765	382	101	382
Derrick.....	C. A. Bills.....	691,349	Jan. 21	1875	423	98	424
Derrick.....	E. E. Weaver.....	701,975	June 10	1236	282	99	2382
Derrick.....	A. Hodgson.....	706,943	Aug. 12	1812	406	100	1504
Derrick.....	W. Heckart.....	712,676	Nov. 4	395	93	101	980
Derrick and hoisting mechanism. Hoisting.....	A. Zastrow.....	693,940	Feb. 25	3284	723	98	1536
Derrick for loading or unloading vessels.....	N. E. Porter.....	714,338	Nov. 25	3645	803	101	1700
Derrick for vessels. Coal.....	O. Eliason and P. C. Nelson.....	714,465	Nov. 25	3888	858	101	1748
Derrick-frame and joint-coupling therefor.....	A. J. Lohner.....	702,227	June 10	1700	383	99	2475
Derrick. Portable.....	L. H. Lohner.....	701,906	June 10	1113	255	99	2357
Derrick swinging and controlling device.....	H. N. Covell and C. A. Baechtold.....	715,991	Dec. 16	2559	572	101	2408
Designator or enumerator.....	N. L. Collamer and W. F. Mahony.....	694,730	Mar. 4	759	169	98	1702
Designs. Apparatus for producing repeat.....	H. Mackintosh.....	696,877	Apr. 1	906	209	99	191
Designs. Transferring.....	C. Kraut.....	705,590	July 29	4411	956	100	953
Desk.....	W. J. McDevitt.....	697,266	Apr. 8	1646	369	99	370



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Desk	C. F. Deplanty	704,473	July 8	2069		100	435
Desk and seat. Adjustable	C. H. Woodruff	699,939	May 13	1585	368	99	1515
Desk-bracket	A. E. Fergusson	711,621	Oct. 21	2354	515	101	519
Desk, Cabinet	R. J. Copeland	704,174	May 20	2060	473	99	1624
Desk furniture	E. Oldenbusch	693,426	Feb. 18	2291	502	98	1317
Desk-leaf support	J. F. Dietz	695,545	Mar. 18	2263	512	98	2232
Desk-lid support	W. Holt	711,315	Oct. 14	1776	384	101	384
Desk-lock. Detachable-cylinder	J. Roche	713,244	Nov. 11	1483	336	101	1217
Desk-lock. Detachable-cylinder	J. Roche	713,245	Nov. 11	1485	336	101	1217
Desk-support	E. Gullick	692,373	Feb. 4	107	25	98	820
Desk. Table	V. M. Arana	695,132	Mar. 11	1539	340	98	2054
Despatch apparatus. Tubular	W. A. H. Bogardus, L. Collis, and G. G. Powell	709,434	Sept. 16	2754	1620	100	2581
Despatch system. Tubular	L. Collis and G. G. Powell	714,865	Dec. 2	443	95, 96	101	1924
Despatch systems and especially to receiving apparatus for intermediate stations. General class of tubular	B. H. Blood	693,366	Feb. 18	2176	478	98	1292
Despatch-tube	F. R. Taisey	690,675	Jan. 7	586	127	98	125
Detachable coupling	H. M. Sturgis	696,513	Apr. 1	208	50	99	49
Detachable handle for caskets, boxes, &c	C. Young	707,669	Aug. 26	3210	720	100	1828
Detachable handle for cooking vessels	F. Dronne	691,050	Jan. 14	1298	294	98	286
Detector:							
See Electric-circuit							
Ground-detector.							
Time-detector.							
Wave-detector.							
Gas-detector.							
Detector-bar clip	J. P. Coleman	714,365	Nov. 25	3711	817	101	1714
Detector-bar clip and link	W. H. B. Lavarack	691,640	Jan. 21	2404	541	98	535
Detector-bar clip and stop	J. Chalmers, Jr.	698,451	Apr. 29	3860	852	99	880
Detergent	D. Rouse-Jones	692,358	Feb. 4	250		98	851
Detergent and making same	N. Pease and M. E. McDonnell	690,458	Jan. 7	137		98	362
Detergents. Making	G. Bamberg	700,602	May 20	2892		99	1801
Detonating composition	H. von Dahnem	702,357	June 10	1925		99	2520
Detonating compound	U. Alvisi	707,493	Aug. 19	2833		100	1734
Detonating device	J. H. Bevington	709,197	Sept. 16	3288	519	100	2481
Detonating device	R. H. Ope	715,130	Dec. 2	930	200	101	2026
Detonator	J. W. Fowler	714,469	Nov. 25	3803	860	101	1749
Detonator and outpult	A. Delgrande	710,956	Oct. 14	1051	233	101	381
Developing-trays. Device for supporting rolls in	G. Bamberg	694,116	Feb. 25	3022	801	98	1605
Devulcanizing apparatus	L. A. Stelzer	697,688	Apr. 15	2434	541	99	546
Dextrine, glucose, and alcohol. Converting wood, wood shavings, &c. into	P. Magnier and P. A. Brangier	695,573	Mar. 18	2334	528	98	2237
Diacetyl-diamin and making same	F. Ach	708,512	Sept. 9	927		100	2181
Dial. Three-handed	W. H. Newby	695,074	Mar. 11	1418	311	98	2029
Diamond	D. C. Townsend	693,084	Feb. 11	1556	348	98	1154
Diamond-cross-cutting machine	G. Armeny	697,330	Apr. 8	1583	354	99	835
Diamond-cutting	W. D. Seddon	712,155	Oct. 28	3409	747	101	758
Diamond-cutting machine	J. H. G. Stuurman	692,380	Feb. 4	284	690	98	858
Diamond-cutting tool	E. Mahy	709,229	Sept. 16	3343	531	100	2493
Diamonds. Cutting	J. H. G. Stuurman	694,215	Feb. 25	3816	844	98	1643
Diamonds in metal. Machine for setting	J. Brejcha	700,132	May 13	1947	448	99	1585
Diaphragm meter and exerciser	J. E. Ruebsam	715,697	Dec. 9	1976	443	101	2257
Dice-cup	H. L. Haskell	709,633	Sept. 23	3165	706	100	2678
Die:							
See Brick-machine die.							
Screw-cutting die.							
Building-block die.							
Tube-covering die.							
Fork-making die.							
Vamp-throating die.							
Printing-die.							
Welding-die.							
Roller-die.							
Wire-cutting die.							
Die	A. Rogers	691,666	Jan. 21	2451	550	98	545
Die	J. Dewes	695,544	Mar. 18	2262	511	98	2221
Die-block	A. A. Dickson	692,992	Feb. 11	1434	311	98	1119
Die or stamp holder	W. J. Buchanan	705,877	July 22	3947	855	100	847
Die-press	E. W. Silsby	710,621	Oct. 7	436	91	101	87
Die-stock reaming attachment	J. L. Thompson	712,445	Oct. 23	3932	860	101	893
Dies or forms. Apparatus for cleaning	S. Mueller	716,463	Dec. 23	3325	771	101	2618
Diffusing vaporizable substances. Apparatus for	J. D. Campbell and W. H. Yates	699,652	May 13	1011	235	99	1307
Diffusion apparatus	C. Steffen	710,533	Oct. 7	270	69	101	55
Diffusion. Continuous	F. Kessler	706,669	Aug. 12	1296	285	100	1396
Digester	A. Giesler	712,127	Oct. 28	3862	737	101	744
Digger:							
See Beet-digger.							
Potato-digger.							
Digging device. Ditch-	O. Peterson and J. H. Clark	708,395	Sept. 2	713	159	100	2126
Digging machine. Root-	E. Sandstrom	691,292	Jan. 14	1727	393	98	375
Digging or cultivating land. Implement for	T. C., T. A., and S. C. Darby	715,030	Dec. 2	744	157	101	1986
Dikes. Protecting	W. S. Keyes	690,395	May 6	514		99	1281
Dilator	C. G. Gibson	702,789	June 17	2756	634	99	2713
Dilator	J. R. Hamilton	705,346	July 22	3897	843	100	837
Dilator	E. Beist	708,452	Sept. 2	811	185	100	2146
Dimethylene tartrate and making same	W. Sternberg	690,423	May 6	574		99	1293
Dipping-milk	F. J. Keis	708,050	Sept. 2	100	33	100	2922
Dipping-tank	G. M. Henderson	702,135	June 10	1536	347	99	2442
Dipping-tank	J. Muller	715,682	Dec. 9	1948	436	101	2252
Dipping-vat	G. W. Clark	712,496	Nov. 4	57	15	101	909
Direct-acting engine	T. Wrightson and J. Morison	698,094	Apr. 22	3191	698	99	727
Direct-acting engine	A. E. Johnson	716,842	Dec. 23	4371	947	101	2807
Directory-board. Changeable	F. B. Mosher, M. J. Scheel, and E. H. H. Marting	705,275	July 22	3718	806	100	801
Directory. Cabinet-	G. W. Maxwell	697,377	Apr. 8	1833	410	99	409

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Directory, &c. Mechanical.....	G. W. Maxwell.....	697,376	Apr. 8	1826	409 410	99	408
Directory. Mechanical.....	G. W. Maxwell.....	697,378	Apr. 8	1836	411 412	99	410
Directory. Mechanical.....	G. W. Maxwell.....	697,379	Apr. 8	1841	412 413	99	411
Directory. Mechanical.....	G. W. Maxwell.....	697,380	Apr. 8	1844	413 414	99	413
Directory. Mechanical.....	G. W. Maxwell.....	697,381	Apr. 8	1848	413 414	99	413
Directory. Mechanical.....	G. W. Maxwell.....	697,382	Apr. 8	1849	414 415	99	414
Directory or indicator for offices. Registering.....	E. and F. E. Walker.....	691,989	Jan. 28	3064	688	98	688
Directory. Vestibule.....	F. De Silva.....	703,560	July 1	333	76	100	67
Diseases. Apparatus for treatment of.....	W. T. Wells.....	712,605	Oct. 21	2326	508	101	513
Diseases by vacuum and air pressure. Apparatus for treating.....	R. Watson.....	711,342	Nov. 25	3668	808	101	1708
Dish-cleaner.....	J. W. and B. C. Read.....	711,000	Oct. 14	1135	251	101	249
Dish-cloth. Chain.....	C. D. Hunt.....	717,004	Dec. 30	4699	1019	101	2891
Dish-cloth holder.....	H. F. Knapp.....	712,810	Nov. 4	651	150	101	1081
Dish-cutting machine.....	L. W. Tinkham.....	715,439	Dec. 9	1493	227	101	2160
Dish-making machine.....	C. Anderson.....	696,922	Apr. 8	1022	228	99	236
Dish-washer.....	A. Dierkes.....	691,453	Jan. 21	2068	463	98	465
Dish-washer.....	I. Ervin.....	696,556	Apr. 1	295	70	99	66
Dish-washer.....	J. Pettengill.....	703,460	July 1	159	37	100	34
Dish-washing apparatus.....	J. D. Morley.....	707,443	Aug. 19	2746	621	100	1715
Dish-washing machine.....	E. Shaw.....	693,746	Feb. 18	2901	98	98	1442
Dish-washing machine.....	C. B. Knott.....	695,400	Mar. 11	2000	447 448	98	2150
Dish-washing machine.....	C. W. Arnot.....	704,494	July 15	2114	457 458	100	457
Dish-washing machine.....	H. F. Low.....	706,473	Aug. 5	948	286 287	100	1307
Dish-washing machine.....	G. S. Blakeslee.....	713,842	Nov. 18	2656	592 593	101	1476
Dishes or trays. Machine for making.....	L. S. Shear.....	693,572	Feb. 18	2575	569 570 571	98	1374
Disinfectant.....	A. W. Nelson.....	696,105	Mar. 25	3325	474	98	2454
Disinfectant-holder for water-closet bowls.....	G. Deinel.....	715,762	Dec. 16	2115	207	101	2307
Disinfectant-powder. Making.....	J. Rother.....	701,620	June 3	906	99	99	2285
Disinfectants. Making.....	W. T. Kendrick and G. W. Dixon.....	701,352	June 3	132	99	99	2136
Disinfectants or perfumery to water-closets. Apparatus for applying liquid.....	G. S. Gallagher.....	713,977	Nov. 18	2939	652	101	1535
Disinfectants to water-closets. Apparatus for applying.....	G. S. Gallagher.....	713,978	Nov. 18	2941	652	101	1536
Disinfecting apparatus.....	E. Fournier.....	698,109	Apr. 22	3235	706	99	735
Disinfecting apparatus.....	C. J. Walz.....	702,041	June 10	1361	810	99	2404
Disinfecting apparatus.....	W. H. Francis.....	704,182	July 8	1541	331 332	100	323
Disinfecting apparatus.....	B. M. Davis and C. E. Cook.....	714,785	Dec. 2	258	53	101	1890
Disinfecting-cabinet for barbers' use, &c.....	W. E. Sewell.....	694,676	Mar. 4	653	143	98	1850
Disinfecting compound.....	W. Martin.....	690,867	Jan. 7	942	84	98	198
Disinfecting device.....	L. E. Jones.....	701,485	June 3	374	99	99	2185
Disinfecting device.....	E. L. Briggs.....	704,777	July 15	2816	566	100	1510
Disinfecting device for sink-drains.....	J. F. Seabury and C. Lutz.....	699,982	May 13	1663	389	99	1531
Disinfecting fluids. Device for automatically distributing.....	F. A. Martin.....	703,287	June 24	3695	851	99	2919
Disinfecting sewer-vaults. Apparatus for.....	W. Martin.....	690,866	Jan. 7	941	210	98	198
Disinfecting water-closets and the seats thereof.....	F. Gardner.....	716,335	Dec. 16	3270	714	101	2548
Disintegrating-machine.....	A. A. Dickson.....	690,628	Apr. 1	425	98	99	92
Disintegrating-machine.....	J. M. MacDonald.....	693,762	May 13	1228	286	99	1440
Disintegrator.....	E. R. Sutcliffe.....	705,796	July 29	4785	1038 1039	100	1029
Disintegrator attachment.....	C. J. Samuelson and E. M. Johnson.....	708,972	Sept. 9	1820	419	100	2365
Disk cutter.....	J. Brooks.....	714,359	Nov. 25	3702	815	101	1712
Disk-implement-cleaning attachment.....	W. L. Walton.....	715,910	Dec. 16	2429	537	101	2374
Dispensing-apparatus drip attachment.....	G. W. Boyd.....	699,481	May 6	673	137	99	1316
Dispensing-apparatus drip attachment.....	G. W. Boyd.....	702,181	June 10	1631	364	99	2461
Dispensing-can.....	F. M. Furber.....	705,336	July 22	3874	838	100	833
Dispensing device. Coin-controlled.....	D. Sullivan.....	712,740	Nov. 4	503	119	101	1002
Display article.....	A. H. Trimpi.....	714,975	Dec. 2	659	138	101	1967
Display-bench for dog-shows.....	R. B. Hansell.....	706,316	Aug. 5	629	137	100	1243
Display-board for seed-packages.....	W. D. Ross.....	712,724	Nov. 4	479	113	101	927
Display-box.....	E. F. Carr.....	692,618	Feb. 4	713	165	98	945
Display-box.....	B. Budweiser.....	709,663	Sept. 23	3214	717	100	2688
Display-box.....	H. Wertz.....	714,544	Nov. 25	4030	892	101	1777
Display-box.....	P. A. Becker.....	714,855	Dec. 2	426	91	101	1920
Display-box.....	T. L. Sturtevant.....	716,139	Dec. 16	2888	635	101	2471
Display-box and support for neckties.....	J. H. Louder.....	690,864	Jan. 7	939	210	98	197
Display-box. Folding.....	A. Bauer.....	710,407	Oct. 7	19	5	101	101
Display-box or tray. Folding.....	C. S. Morris.....	708,490	Sept. 2	886	200	100	2161
Display-cabinet.....	A. M. Owens.....	691,800	Jan. 28	2735	617	98	621
Display-cabinet.....	A. L. Johnson.....	696,341	Mar. 25	3810	849	98	2554
Display-cabinet and adjustable shelf.....	S. E. Briggs.....	715,967	Dec. 16	2542	561	101	2398
Display-cabinet for packets.....	A. W. M. Martin.....	708,057	Sept. 2	110	36	100	2004
Display-card for hooks and eyes.....	H. A. Francis.....	716,698	Dec. 23	3997	874	101	2717
Display-card support.....	E. J. Templar.....	692,385	Feb. 7	29	71	98	859
Display-case.....	F. B. Deiter.....	704,005	July 8	1175	256	100	249
Display-case. Folding.....	C. S. Morris.....	717,433	Dec. 30	5502	1193 1194	101	3062
Display case. Sample.....	C. S. Morris.....	695,326	Mar. 11	1882	419	98	2123
Display clip. Hat.....	A. Martin.....	711,253	Oct. 14	1655	356	101	358
Display device.....	J. K. Oney.....	699,557	May 6	804	189	99	1341
Display device.....	S. L. Campbell.....	704,513	July 15	2159	468	100	462



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. k.	Vol.	Page.
Display device. Article.....	E. Gutmann .....	712,189	Oct. 28	3463	760	101	763
Display device. Necktie.....	H. Runtz .....	699,715	May 13	1126	264	99	1419
Display device or exhibitor.....	I. T. Bell.....	701,250	May 27	4131	950	99	2077
Display device. Portable.....	T. E. Stark .....	694,690	Mar. 4	681	148	98	1855
Display holder. Jewelry.....	F. Kauffman.....	712,806	Nov. 4	646	140	101	1080
Display holder. Necktie.....	H. Runtz .....	701,942	June 10	1178	269	99	2371
Display holder. Necktie.....	H. Runtz .....	705,149	July 22	3434	746	100	745
Display-light.....	O. A. Mygatt.....	705,426	Dec. 22	4033	874	100	866
Display of goods. Utensil for.....	C. N. Heinz.....	698,943	Apr. 29	4859	1072	99	1098
Display-rack.....	G. W. Barnett.....	692,509	Feb. 4	491	115	98	999
Display-rack.....	W. A. H. Winter.....	694,121	Feb. 25	3638	804	98	1699
Display-rack.....	G. C. Moore.....	702,232	June 10	1709	385	99	2477
Display-rack.....	W. White.....	704,157	July 8	1489	319	100	313
Display-rack.....	B. N. Grimshaw.....	706,929	Aug. 12	1788	400	100	1499
Display-rack.....	B. N. Grimshaw.....	706,930	Aug. 12	1790	401	100	1500
Display-rack.....	L. Feldmann, Jr., and C. A. Haas.....	713,417	Nov. 11	1843	416	101	1293
Display-rack.....	J. L. Kragle.....	715,394	Dec. 9	1412	305	101	2144
Display-rack.....	W. H. Blandin.....	717,157	Dec. 30	4982	1081	101	2352
Display-rack. Adjustable.....	C. E. Perrin.....	691,484	Jan. 21	2119	473	98	376
Display-rack and advertising device. Combined.....	G. D. Snell.....	701,818	June 3	955	212	99	2308
Display rack. Curtain.....	M. J. Bebb and E. G. Eaton.....	710,408	Oct. 7	20	5	101	7
Display rack for hats.....	R. C. Taggart.....	695,964	Mar. 25	3029	686	98	2392
Display rack or stand. Collapsible.....	F. C. Johnston and G. N. Merrill.....	704,341	July 8	1821	395	100	384
Display-stand.....	B. Zimmer.....	711,690	Oct. 21	2493	547	101	550
Display-stand.....	H. Stahmer.....	716,127	Dec. 16	2864	631	101	2467
Display-stand.....	A. J. Merton.....	716,332	Jan. 16	3139	585	101	385
Display-stand for foot-gear.....	G. C. Sweet.....	694,694	Mar. 4	689	150	98	1857
Display-stand. Revolving.....	C. T. Childers.....	693,497	Feb. 18	2423	520	98	1844
Display-table.....	C. A. Shaffer.....	702,035	June 10	1351	308	99	2402
Display-tray.....	W. Brand.....	710,093	Sept. 30	4072	918	100	2879
Display tray and case.....	E. F. Winters.....	714,427	Nov. 25	3822	847	101	1736
Display tray. Jewelry.....	J. P. Angell.....	702,853	June 17	2873	95	99	2738
Displaying apparatus. Sample.....	C. Olsen.....	695,831	Mar. 18	2790	635	98	2329
Displaying cards, price-tickets, &c. Device for.....	J. S. Cushman.....	716,389	Dec. 23	3391	740	101	2588
Displaying merchandise. Cabinet for.....	J. W. Morgan.....	695,473	Mar. 18	2123	478	98	2193
Displaying samples of carpet, &c. Apparatus for.....	F. Ames.....	691,431	Jan. 21	2024	452	98	457
Distillation. Retort for wood.....	W. B. Chapman.....	705,906	July 29	4977	1083	100	1067
Distillers' spent residues. Apparatus for the treatment of.....	C. G. Sudre and C. V. Thierry.....	712,343	Oct. 28	3720	815	101	819
Distilling apparatus.....	J. S. Roake.....	690,611	Jan. 7	464	100	98	100
Distilling apparatus.....	I. H. Jewell.....	692,788	Feb. 4	1007	228	98	1003
Distilling apparatus.....	E. Jester.....	698,958	Apr. 29	4883	1078	99	1103
Distilling apparatus.....	J. S. Roake.....	700,373	May 20	2481	569	99	1717
Distilling apparatus.....	J. S. Roake.....	700,374	May 20	2483	569	99	1717
Distilling apparatus.....	H. Hirzel.....	710,974	Oct. 14	1983	239	101	236
Distilling apparatus.....	W. F. M. Goss.....	713,297	Nov. 11	1633	368	101	1246
Distilling apparatus. Liquor.....	J. C. Bertsch.....	714,438	Nov. 25	3840	849	101	1738
Distilling apparatus. Water.....	A. J. Chase.....	697,912	Apr. 15	3929	626	99	693
Distilling apparatus. Water.....	E. E. Murphy.....	698,724	Apr. 29	4425	976	99	1002
Distilling liquids.....	W. F. M. Goss.....	713,298	Nov. 11	1637	369	101	1247
Distilling oil.....	J. A. Dubbs.....	694,621	Mar. 4	545	119	98	1829
Distilling oil.....	J. A. Dubbs.....	694,622	Mar. 4	546	119	98	1829
Distress-signal.....	T. Coates.....	701,153	May 27	3962	911	99	2044
Distributing and dispensing device.....	W. A. Freise.....	710,963	Oct. 14	1064	235	101	233
Distributing-tank.....	K. G. Barkhausen.....	690,390	Jan. 7	12	3	98	6
Distribution system.....	J. L. Creveling.....	704,694	July 15	2460	532	100	530
Distribution system.....	J. F. Kelly.....	707,334	Aug. 19	2552	575	100	1674
Distribution system.....	C. P. Steinmetz.....	714,055	Nov. 18	3993	683	101	1569
Distribution system.....	C. P. Steinmetz.....	714,116	Nov. 18	3200	707	101	1593
Ditch-roller.....	S. D. McGuire.....	690,808	Jan. 7	993	225	98	208
Ditching and dredging machine.....	C. E. Wilson.....	695,258	Mar. 11	1758	390	98	2099
Ditching-jack.....	C. E. and J. E. Dixon.....	706,807	Aug. 12	1570	352	100	1455
Ditching-machine.....	D. J. Hoffman and J. W. Helm.....	691,141	Jan. 14	1440	327	98	315
Ditching-machine.....	T. Bearman.....	708,616	Sept. 9	1104	248	100	2216
Ditching-machine.....	C. Chapman.....	716,378	Dec. 23	3361	735	101	2582
Divider. Multiple.....	I. Stuhlman.....	716,494	Dec. 23	3594	785	101	2633
Dividing apparatus.....	J. Guilmarin.....	696,560	Apr. 1	329	61	99	167
Diving apparatus.....	W. B. Petrie.....	711,312	Oct. 14	1899	397	101	396
Dock. Floating.....	J. E. Blackwell.....	711,552	Oct. 21	2227	484	101	498
Dock. Floating dry.....	A. C. Cunningham.....	710,765	Oct. 7	703	148	101	144
Dock. Floating dry.....	G. A. Bronder.....	713,947	Nov. 18	2881	640	101	1523
Dock. Land-reclaiming.....	E. Chaquette.....	702,627	June 17	2458	592	99	2651
Dock. Marine.....	D. F. Weindorf.....	710,170	Sept. 30	4229	954	100	2912
Dredging-machine. Steam.....	A. S. Hill.....	702,727	June 17	2638	607	99	2689
Doll novelty.....	W. G. Flint.....	712,786	Nov. 4	603	138	101	1022
Doll. Walking.....	E. U. Steiner.....	695,121	Mar. 11	1512	396	98	2047
Domestic boiler.....	J. A. Bernardi.....	706,886	Aug. 12	1716	383	100	1485
Door.....	C. H. Pope.....	693,440	Feb. 18	2310	506	98	1321
Door.....	F. F. Low.....	704,887	July 15	2833	613	100	607
Door.....	J. L. Young.....	712,449	Oct. 28	3936	861	101	864
Door and frame for air-tight chambers.....	S. P. Stevenson.....	697,689	Apr. 15	2435	542	99	540
Door attachment. Grain.....	C. T. Docter.....	705,655	July 29	4522	982	100	975
Door attachment. Screen.....	M. Rommel.....	692,711	Feb. 4	876	200	98	978
Door. Automatically-operating.....	J. H. Whitaker.....	698,885	Apr. 29	4770	1049	99	1079

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Door bar or fastener	B. Schwab	698,326	Apr. 22	3621	800	99	815
Door-bolt	F. Pilling	691,870	Jan. 28	2831	642	98	646
Door-bolt	E. Fages	704,179	July 8	1536	329 330	100	322
Door bracket. Sliding	J. J. Hennessey	705,081	July 22	3280	711	100	713
Door buffer and catch. Combined	F. L. Terrell	693,187	Feb. 11	1842	399	98	1202
Door-catch	C. R. Mervin	701,631	July 15	2392	517	100	516
Door-catch	G. G. Smith	700,057	Sept. 16	2006	457	101	2422
Door-catch and buffer	F. E. Ransdell and H. C. Muddiman	708,401	Sept. 2	724	163	100	2128
Door-catch and lock	R. C. Secker	695,888	Mar. 18	2889	655	98	2351
Door-check	F. J. Miller	690,600	Jan. 7	451	96	98	97
Door-check	J. Horsfield	693,021	Feb. 11	1472	322	98	1129
Door-check	W. H. Taylor	696,116	Mar. 25	3345	754 755	98	2459
Door-check	J. Watts	701,431	June 3	265	39	99	2163
Door-check	O. Tschieky. (Reissue)	12,014	July 15	3150	680	100	673
Door-check	J. R. Beck	711,463	Oct. 21	2054	445	101	455
Door-check	H. G. Voight and H. K. Jones	711,598	Oct. 21	2317	506	101	511
Door-check	S. P. Watt	711,685	Oct. 21	2478	545	101	546
Door-check	S. P. Watt	711,686	Oct. 21	2484	546	101	548
Door-check	F. J. Sullivan	714,355	Nov. 25	3501	770	101	1072
Door-check	W. H. Dunbar	716,009	Dec. 16	2631	573	101	1417
Door-check	J. D. Humphrey	716,044	Dec. 16	2630	594	101	2430
Door-check and burglar-alarm. Combined	W. F. Grimes	708,344	Sept. 2	636	144	100	2110
Door check and closer	M. Klingler	701,054	May 27	3786	866	99	2006
Door check and closer	X. Reichlin	708,586	Sept. 9	1043	238	100	2214
Door check and closer	F. H. Rolfe	711,591	Oct. 21	2296	500	101	507
Door check and closer. Combined	E. Cluff	693,588	Feb. 18	2690	577	98	1381
Door check and spring	V. Beauregard	703,371	July 1	13	4	100	5
Door-check. Liquid	H. G. Voight	696,776	Apr. 1	728	164	99	155
Door-check. Liquid	H. G. Voight	703,681	July 1	570	127	100	118
Door-check. Liquid	H. K. Jones	706,240	Aug. 5	459	98	100	1209
Door-checking device. Sliding	W. H. Cook	695,035	Mar. 11	1346	296	98	2014
Door closer and check	F. A. Winslow	695,987	Mar. 25	3071	696	98	2401
Door closing and holder	C. F. Sullivan	715,175	Dec. 2	1002	217	101	2411
Door-closing apparatus	E. 698,339	698,339	Apr. 29	3851	1071	99	1097
Door-closing apparatus	J. W. Tripp	704,984	July 15	3090	665	100	659
Door. Double	O. Francke	698,380	Apr. 22	3714	821	99	835
Door-fastener	G. W. Cramer	704,619	July 15	2337	508	100	503
Door-fastener	A. E. Mendenhall	707,858	Aug. 26	3620	818	100	1910
Door-fastener. Screen	W. B. Cochrane	692,119	Jan. 28	3301	747	98	734
Door-fastener. Sliding	J. H. Kinter and W. H. Romig	696,980	Apr. 8	1140	325	99	264
Door-fastener. Sliding	J. T. Hicks	705,529	July 22	4271	924	100	913
Door, &c., fastening	J. H. Hoyer	698,282	Apr. 22	3554	783	99	802
Door fastening. Sliding	W. R. Russell and E. R. Mead	716,284	Dec. 16	3168	694	101	2528
Door. Flexible	J. S. Blake	705,553	July 29	4347	940	100	940
Door. Folding	E. H. McCloud	702,146	June 10	1533	352	99	2446
Door for banks, &c. Trap	J. H. Castleman	717,164	Dec. 30	4908	1085	101	2356
Door. Grain	T. Stark	704,449	July 15	3009	646	100	645
Door. Grain	C. A. and J. J. House	716,546	Dec. 23	3715	809	101	2657
Door-guard	D. C. Meeker	700,436	May 20	2592	593	99	1740
Door-guiding attachment	W. N. G. Place	698,052	Apr. 22	3102	683	99	708
Door-hanger	J. H. Cook	692,241	Feb. 4	44	10	98	807
Door-hanger	G. Wideman	694,044	Feb. 25	3511	773	98	1582
Door-hanger	M. E. Kanaly	695,057	Mar. 11	1385	304	98	2022
Door-hanger	A. S. Hook	696,142	Mar. 25	3415	767	98	2474
Door-hanger	J. J. Rexroth	697,218	Apr. 8	1561	350	99	351
Door-hanger	W. Loudon	700,211	May 20	2125	490	99	1648
Door-hanger	P. G. Minier	701,597	June 3	375	126	99	2228
Door-hanger	J. J. Hennessey	705,080	July 22	3278	711	100	713
Door-hanger	J. F. Lydon	705,262	July 22	3608	302	100	797
Door-hanger	P. H. Lutink	707,131	Aug. 19	2153	483	100	1591
Door-hanger	W. Loudon	707,853	Aug. 26	3622	817	100	1909
Door-hanger	G. G. Meyer	708,060	Sept. 2	115	27	100	2005
Door-hanger	J. F. Clift	708,205	Sept. 2	392	91	100	2062
Door-hanger	E. F. Lawrence	713,115	Nov. 11	1234	281	101	1168
Door-hanger	G. Lane and J. M. Janes	713,315	Nov. 11	1066	374	101	1254
Door-hanger	J. Handey andmacher	715,373	Dec. 9	1378	296	101	2136
Door-hanger. Adjustable	D. S. Watson	716,152	Dec. 16	2910	640	101	2475
Door-hanger loop	T. C. Prouty	699,564	May 6	813	191	99	1343
Door-hanger track	P. A. Myers	700,029	Sept. 16	1955	447	100	2410
Door-hanger track	H. L. Ferris	709,314	Sept. 16	2517	567	100	2531
Door-holder	A. J. Rosentreter	693,568	Feb. 18	2566	567	98	1372
Door-holder	D. S. Blaupied	701,136	May 27	3038	690	101	2038
Door-holder	C. Dillhey and M. F. Rock	712,270	Oct. 28	3602	787	101	793
Door holder or bolt	W. J. Chaffer	708,530	Sept. 9	960	217	100	2188
Door-holding device	L. H. Lucabaugh	708,238	Sept. 2	449	102	100	2073
Door-jamb, gate-post, &c.	J. Brenner	692,607	Feb. 4	691	161	98	940
Door-lock attachment	A. T. Hatfill and G. E. Lee	705,236	July 22	3630	788	100	787
Door lock. Sliding	A. Newell	700,227	May 20	2180	499	99	1657
Door lock. Sliding	F. J. Hanrahan	716,890	Dec. 30	4499	960	101	2844
Door-mat	G. 694,554	694,554	Mar. 4	429	92	98	1803
Door-mat. Metal	J. W. Horner. (Reissue)	11,985	May 13	2030	463	99	1603
Door-opener	G. Rischmuller	705,147	July 22	3431	745	100	744
Door opener or closer	W. H. Cook	695,036	Mar. 11	1347	296 297	98	2014
Door opening or closing apparatus. Automatic	J. S. Johnson	705,355	July 22	3945	848	100	841
Door opening or closing mechanism	J. C. Toner	712,511	Nov. 4	86	32	101	915
Door-operating device	G. W. Tobey	693,675	Feb. 18	2773	610	98	1416
Door-operating device	P. J. Beisel	703,372	July 1	15	4	100	5
Door-operating means	F. Macey	703,433	July 1	119	27	100	26
Door-operating mechanism	W. A. Braden and J. B. Smalley	700,404	May 20	2534	580 581	99	1727
Door-operating mechanism	E. Wigle	710,229	Sept. 30	4341	976	100	2937



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Door or window alarm.	J. G. Eberstein	708,327	Sept. 2	609	133	100	2105
Door or window fastening means.	J. W. Nippert	706,995	Aug. 12	1900	426	100	1521
Door or window frame.	G. Carr	706,157	Aug. 5	309	65	100	1180
Door-plate	C. D. Brooke	707,516	Aug. 26	2952	668	100	1776
Door. Right and left opening	F. Fischer and L. Kiefer	707,910	Aug. 26	3727	835	100	1929
Door. Screen	E. Lynch	716,447	Dec. 23	3503	765	101	2613
Door-securer	J. P. Wilder	692,575	Feb. 4	625	147	98	923
Door-securer	E. P. Raether	693,740	Feb. 18	2890	635	98	1440
Door-securer	C. F. Williams	694,812	Mar. 4	910	203	98	1904
Door-securer	D. J. Matheson	700,527	May 20	2777	635	99	1779
Door-securer	G. F. Hamilton	704,634	July 15	2362	513	100	509
Door-securer	H. Prud'homme	710,118	Sept. 30	4122	930	100	2888
Door-securer	W. N. Haring	716,707	Dec. 23	4012	870	101	2721
Door. Sidewalk trap	P. H. Jackson	699,468	May 6	150	99	1310	
Door signal or alarm.	H. C. Atkinson	706,578	Aug. 12	1700	380	100	1482
Door. Sliding	G. B. Pickop	698,852	Apr. 29	4705	1037	99	1066
Door. Sliding	J. F. Lydon	704,846	July 15	2758	596	100	590
Door. Sliding	G. A. Proctor and E. F. Carpenter	707,637	Aug. 26	3133	705	100	1813
Door-spring	W. Hargrove	693,389	Feb. 18	2220	487	98	1302
Door-spring. Adjustable	M. Schwartz	698,744	Apr. 29	4455	989	99	1066
Door-spring and check. Combined	J. Wolf	713,267	Nov. 11	1544	349	101	1228
Door-stop	W. V. Bléha	690,555	Jan. 7	362	73	98	79
Door-stop	A. S. Martin	692,687	Feb. 4	838	190	98	971
Door-stop	C. C. Burritt	704,855	July 15	2773	600	100	594
Door-stop	J. C. Winn	705,804	July 29	1799	1042	100	1031
Door stop and catch. Combined	J. Daniel	706,904	Aug. 12	1751	391	100	1492
Door stop and lock. Combined	G. H. Sawin	691,003	Jan. 14	1204	272	98	267
Door-strike	E. Bommer	702,696	June 17	2579	594	99	2677
Door-strip	J. W. Housberg	695,054	Mar. 11	1382	303	98	2021
Door structure. Revolving	T. Van Kannel	711,803	Oct. 21	2708	597	101	595
Door. Swinging	H. Meyer	708,969	Sept. 9	1801	414	100	2362
Door. Warehouse	W. A. Cross	693,952	Feb. 25	3306	737	98	1511
Door. Water-cooled	N. Houy, Jr.	712,675	Nov. 4	398	94	101	980
Doors. Means for automatically closing swinging	E. F. Huard	706,945	Aug. 12	1815	406	100	1504
Doors. Means for preventing dust, draft, and rain from entering under	J. Crowther	704,441	July 8	1998	435	100	420
Doors. Operating and latch-releasing mechanism for sliding	W. S. Lincoln	700,348	May 20	2420	552	99	1705
Doors, windows, &c. Frame for	J. B. d'Homergue	698,201	Apr. 22	3417	752	99	773
Doubling and shearing apparatus	C. W. Bray	695,873	Mar. 18	2864	649	98	2345
Doubling apparatus	C. W. Bray	698,438	Apr. 29	3831	844	99	876
Douche-bench	T. F. McCullough	692,061	Jan. 28	3205	723	98	715
Dough-cutter	G. F. Thompson	700,290	Sept. 16	2471	537	100	2521
Dough-cutting-machine scrapper	J. L. Causey	696,939	Apr. 8	1073	237	99	248
Dough-dividing machine	J. E. and C. E. Pointon	692,473	Feb. 4	443	103	98	889
Dough for bread. Making	W. S. and C. I. Corby	691,749	Jan. 28	2634	580	98	601
Dough, &c. Machine for mixing and kneading	J. Lee	696,575	Apr. 1	326	76,77	99	73
Dough-manipulating and loaf-forming machine	E. C. Chase and I. E. Rickey	698,814	Apr. 29	4606	1016	99	1045
Dough mixer and kneader	H. A. Duc, Jr.	698,911	Apr. 29	4811	1060	99	1088
Dough mixing and kneading apparatus	F. Brackett	706,890	Aug. 12	1732	385	100	1486
Dough-mixing apparatus	L. C. Sharpless	710,619	Oct. 7	432	90	101	146
Dough-mixing machine	R. L. MacHale	712,144	Oct. 28	3390	743	101	749
Dough-molding machine	C. A. Thomson	701,646	June 3	663	146	99	2248
Dough working and shaping machine	W. S. and C. I. Corby	708,116	June 24	3383	778	99	2857
Dovetailing machine	J. J. Blackman	697,787	Apr. 15	2614	580	99	585
Dovetailing-machine	J. and D. Sagar	703,002	June 24	3170	730	99	2816
Doweling-gage. Hand	J. Corliss	706,392	Aug. 5	788	171	100	1274
Doweling-machine	W. J. Edwards and W. M. Wauters	705,657	July 29	4524	983	100	1755
Draft and buffing rigging	R. D. Gallagher, Jr.	692,653	Feb. 4	764	175	98	956
Draft and buffing rigging	R. D. Gallagher, Jr.	693,699	Feb. 18	2931	580	138	2332
Draft apparatus. Forced	J. S. Chapman	703,539	July 1	291	66	100	59
Draft appliance	C. M. Arnold	710,833	Oct. 7	838	182	101	171
Draft attachment	N. Merches	706,248	Aug. 5	470	100	100	1211
Draft attachment	C. H. Falk	707,092	Aug. 19	2087	466	100	1576
Draft attachment. Doubletree	J. Dabus	698,178	Apr. 22	3822	736	99	761
Draft attachment. Spring	L. V. Warner	704,604	July 15	2316	603	100	499
Draft-controller. Automatic	C. T. Pfeiffer	693,437	Feb. 18	2307	505	98	1320
Draft device and spark-arrester	G. B. Rait	704,922	July 15	2942	631	100	632
Draft-equalizer	G. A. F. Labudde, Jr.	691,785	Jan. 28	2703	607	98	615
Draft-equalizer	J. J. Cox	693,840	Feb. 25	3078	679	98	1497
Draft-equalizer	A. Cogswell	694,000	Feb. 25	3417	753	98	1563
Draft-equalizer	J. L. Sutton	695,843	Mar. 18	2807	639	98	2332
Draft-equalizer	J. C. and J. Bell	695,855	Mar. 18	2830	643	98	2337
Draft-equalizer	H. Hendricks	696,323	Mar. 25	3800	847	98	2532
Draft-equalizer	J. D. Ingram	696,681	Apr. 1	537	123	99	161
Draft-equalizer	J. N. Schwalen	697,549	Apr. 15	2172	182	99	493
Draft-equalizer	G. Linhard	697,732	Apr. 15	2515	560	99	563
Draft-equalizer	H. J. Heider	697,841	Apr. 15	2706	601	99	606
Draft-equalizer	W. Schluter	698,059	Apr. 22	3113	684	99	710
Draft-equalizer	W. S. Emert	698,826	Apr. 29	4644	1024	99	1052
Draft-equalizer	T. F. and J. J. Folk	698,920	Apr. 29	4827	1065	99	1092
Draft-equalizer	J. Jones	699,184	May 6	103	25	99	1196
Draft-equalizer	W. C. Dysart	701,179	May 27	4006	921	99	2053
Draft-equalizer	B. Creplin	704,001	July 8	1171	255	100	248

## Alphabetical list of inventions—Continued.

Invention	Name	No.	Date	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Draft-equalizer	C. N. Troien	705,163	July 22	3454	752	100	749
Draft-equalizer	W. E. Rivers	706,342	Aug. 5	3288	789	100	1196
Draft-equalizer	T. W. Banta	707,539	Aug. 26	2933	664	100	1771
Draft-equalizer	A. Anderson	707,803	Aug. 26	3698	830	100	1924
Draft-equalizer	J. B. Hayden	709,662	Sept. 16	2086	478	100	2440
Draft-equalizer	W. D. Baxter	710,558	Oct. 7	314	68	101	63
Draft-equalizer	W. H. Shell	711,538	Oct. 21	2306	479	101	488
Draft-equalizer	H. Spunangle	712,015	Oct. 28	3149	689	101	703
Draft-equalizer	A. Roessler	712,598	Nov. 4	263	63	101	952
Draft-equalizer	J. S. Kemp	713,773	Nov. 18	2533	564	101	1451
Draft-elevator	E. Burns	709,290	May 20	2324	530	99	1686
Draft-elevator	M. W. Sleight	705,458	July 22	4094	890	100	878
Draft-elevator	H. A. Te Poel	711,799	Oct. 21	2699	594	101	593
Draft-gage	K. Bomhard	697,970	Apr. 22	2948	649	99	676
Draft-gear	C. F. Street	714,058	Nov. 18	3099	685	101	1570
Draft-gear	C. F. Street	714,059	Nov. 18	3101	685	101	1570
Draft-gear	J. F. Courson	715,990	Dec. 16	2586	571	101	2407
Draft-gear and buffing apparatus	J. F. Raders and H. D. Meier	711,345	Oct. 14	1833	308	101	397
Draft-gear and buffing apparatus	P. Hien	715,068	Dec. 2	304	171	101	1999
Draft-gear. Friction	J. Timms	711,914	Oct. 21	2338	646	101	643
Draft-gear. Friction	H. C. Buhoup	713,392	Nov. 11	1808	406	101	1285
Draft-preventer	C. Barnes and F. Mawer	712,240	Oct. 28	3552	778	101	782
Draft. Producing	C. Scott-Snell	710,370	Sept. 30	4578	1032	100	2986
Draft-regulating device. Automatic	J. A. McAtee	707,789	Aug. 26	3489	736	100	1883
Draft-regulating mechanism. Automatic	L. P. Taggart	714,259	Nov. 25	3514	772	101	1674
Draft-rigging	L. A. Hoerr	692,200	Jan. 28	3441	779	98	764
Draft-rigging	C. A. Fernald and G. Galley	693,250	Feb. 11	1959	426	98	1227
Draft-rigging	W. M. Piper	693,331	Feb. 11	2104	460	98	1257
Draft-rigging	W. M. Piper	693,332	Feb. 11	2104	460	98	1258
Draft-rigging	W. M. Piper	693,333	Feb. 11	2105	461	98	1258
Draft-rigging	W. M. Piper	693,334	Feb. 11	2106	461	98	1258
Draft-rigging	W. M. Piper	693,335	Feb. 11	2108	461	98	1259
Draft-rigging	B. Patterson	698,551	Apr. 29	4026	890	99	915
Draft-rigging	W. H. Cox	703,118	June 24	3389	779	99	2888
Draft-rigging	H. C. Priebe	703,607	July 1	409	95	100	51
Draft-rigging	J. E. Guinn	708,956	July 1	1073	932	100	213
Draft-rigging	W. H. Emerick	705,520	July 22	4217	917	100	901
Draft-rigging	W. E. Coffin	707,501	Aug. 19	2843	643	100	1736
Draft-rigging	P. M. Canty	711,822	Oct. 21	2748	698	101	602
Draft-rigging appliance. Friction	T. L. McKeen	698,215	Apr. 22	3441	755	99	779
Draft-rigging attachment. Tandem	T. L. McKeen	696,184	Mar. 25	3490	782	98	2487
Draft-rigging. Combined friction and direct-acting spring	J. J. Hennessey	702,426	June 17	2068	471	99	2370
Draft-rigging. Combined spring and friction	C. S. Shallenberger	701,514	June 3	314	94	99	2193
Draft-rigging. Friction	W. H. Emerick	715,040	Dec. 2	737	161	101	1989
Draft-spring yoke connection for draw-bars	R. D. Gallagher, Jr.	713,627	Nov. 18	2370	505	101	1394
Draft-timbers. Means for attaching	A. L. Turnipseed and S. T. Williams	691,065	Jan. 14	1347	304	98	236
Draft-tube. Double-stream	F. D. Green	696,320	Mar. 25	3792	845	98	2551
Drafting apparatus	H. S. Lydick	695,747	Mar. 18	3629	597	98	2295
Drafting-board and T-square attachment	A. Klitsche	694,389	Mar. 4	104	24	98	1735
Drafting device	W. F. Hochspeier	709,219	Sept. 16	2325	527	100	1490
Drafting garment-patterns	E. J. Curran	711,479	Oct. 21	2080	450	101	461
Drafting garments. Dress-cutting instrument for	G. V. Valentine	708,506	Sept. 2	913	207	100	2167
Drafting instrument	C. H. Quimby, Jr.	712,964	Nov. 4	947	220	101	1091
Drafting-plotter	R. L. Botts	709,736	Sept. 23	3337	752	100	2714
Draftsman's instrument	E. C. Loetscher	696,828	Apr. 1	814	187	99	172
Drag and harrow-pulverizer combined	F. B. Seaver	702,034	June 10	1349	307	99	2402
Drag-bar pressure-regulator	C. H. Pelton	693,307	Feb. 11	2055	450	98	1246
Drag-rake	H. Bornmann	715,344	Dec. 9	1329	286	101	2127
Drain hopper. Slop	H. H. Kendrick	693,972	Feb. 25	3346	726	98	1549
Drain-repairing apparatus	G. Rose	694,196	Feb. 25	3785	837	98	1637
Drain-tile protector	J. W. Cook, Sr.	706,395	Sept. 16	2698	603	100	2566
Drains and sewers. Mode of and means for venting, lating and flushing house or other	I. Shone and E. Ault	697,369	Apr. 8	1813	406	99	406
Drainer. Cellar	O. R. Erwin	714,682	Dec. 2	59	12	101	1849
Drainer. Cellar or cistern	W. D. Labadie	699,959	May 13	1624	372	99	1524
Draper, &c.	G. A. Bietenholz	704,823	July 15	2721	589	100	582
Drapery-frame clamp	J. J. Park	699,007	Apr. 29	4064	1099	99	1120
Drapery-hanger	C. Y. Whiter	691,684	Jan. 21	2482	556	98	552
Draw-bar and coupling	J. E. Liddle	692,156	Jan. 28	3366	762	98	748
Draw-bar attachment	W. F. Richards	701,618	June 3	603	133	99	2234
Draw-bar-mounting device	A. Kipp	691,947	Jan. 28	2901	672	98	674
Draw-bar rigging	R. W. Fox	714,689	Dec. 2	69	15	101	1352
Draw-bench	W. T. Gough	710,915	Oct. 7	973	214	101	198
Draw-bench	G. Baehr	715,740	Dec. 16	2067	465	101	2297
Draw-bench	E. E. Quimby	715,863	Dec. 16	2349	519	101	2357
Draw-bench and sizing-rolls	P. C. Patterson and J. J. Boax	715,633	Dec. 16	2322	515	101	2352
Draw-gear and buffing apparatus	P. Hien	702,946	June 24	3061	704	99	2792
Draw-gear. Triple spring	C. Wright	701,061	June 3	694	153	99	2532
Draw-off or stretching rollers for textile machinery	A. Bietenholz	709,694	Sept. 23	2272	732	100	2701
Draw-press	W. Langbein	711,926	Oct. 21	2963	652	101	648
Drawer attachment	J. T. Moyer	715,681	Dec. 9	1947	485	101	2252
Drawer for bins	J. M. Wilson	717,484	Dec. 30	5590	1213	101	3079
Drawer for furniture, &c.	C. Mayer	708,820	Sept. 9	1520	348	100	2304



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &c.	Vol.	Page
Drawer for sewing-machine stands, &c.	S. H. Wheeler	697,582	Apr. 15	2327	497	99	505
Drawer-guard or support.	M. O. Teel	701,232	May 27	1190	944	99	2072
Drawer-guide.	W. H. Gercke	697,471	Apr. 15	2038	450	99	408
Drawer-guide.	J. Schaad	710,523	Oct. 7	254	56	101	51
Drawer-opening device.	C. H. Bakeman.	695,432	Mar. 18	2050	401	98	2179
Drawer-support.	F. O. Anderson	702,389	June 17	1997	456	99	2555
Drawers foot-strap.	M. D. Wilcox	702,121	June 10	1516	342	99	2438
Drawers-supporter.	H. C. Smith	705,879	July 29	4933	1073	100	1658
Drawers.	H. M. Love	701,744	June 3	836	183	99	2283
Drawing and spinning frames. Drag device for bobbins of	S. Smith	705,133	July 22	3438	747	100	746
Drawing. Apparatus for facilitating	F. Aborn.	715,451	Dec. 9	1516	328	101	2164
Drawing-board	E. B. Jarvis.	697,848	Apr. 15	2723	604	99	610
Drawing board and appliances	P. Schlachter, Sr., and A. W. Allen.	707,165	Aug. 19	2326	500	100	1605
Drawing-frame	J. de Miniszewski	701,913	June 10	1628	353	99	2453
Drawing implement	F. A. Alteneder.	697,594	Apr. 15	2354	502	99	512
Drawing instrument.	M. C. Zange	699,738	May 13	1173	273	99	1424
Drawing machine. Railway-head or other similar fiber-	A. W. Mathewson	690,596	Jan. 7	435	94	98	95
Drawing-machine stop-motion.	J. T. Meats and C. R. McGowan	704,704	July 15	2478	535	100	534
Drawing-roll tension device	J. T. Covo	712,505	Nov. 4	72	19	101	912
Dredge	G. McKay	706,135	Aug. 5	374	89	100	1193
Dredge	R. R. Osgood	708,657	Sept. 9	1180	269	100	2232
Dredge	R. R. Osgood	708,658	Sept. 9	1183	270	100	2232
Dredge	A. Z. Boudreaux and O. F. Eschet.	712,356	Oct. 28	3751	820	101	824
Dredge and well-borer	C. Ehrenfeld	708,281	July 8	736	273	100	1275
Dredge-box	H. B. Williams	702,169	June 10	1612	363	99	2453
Dredge-bucket	A. W. Robinson	708,587	Sept. 9	1050	238	100	2205
Dredge. Clam-	E. Chaquette.	702,628	June 17	2459	562	99	2651
Dredge-clam.	E. Chaquette.	702,629	June 17	2461	563	99	2652
Dredge-clam	E. Chaquette	706,221	Aug. 5	421	564	100	1212
Dredge. Clam or oyster.	W. A. Thompson	705,975	July 29	5103	1112	100	1003
Dredge. Floating	E. Chaquette	702,705	June 17	2593	597	99	2680
Dredge. Hydraulic	L. W. Bates	692,973	Feb. 11	1401	303	98	1113
Dredge. Hydraulic	G. L. Cudner	700,406	May 20	2541	582	99	1729
Dredge. Hydraulic	C. W. Bates	704,281	July 8	1616	359	100	2318
Dredge. Hydraulic	L. W. Bates	707,293	Aug. 19	2473	553	100	1659
Dredge. Hydraulic	L. W. Bates	714,996	Dec. 2	686	145	101	1975
Dredge. Mining-	J. A. Swenson	692,557	Feb. 4	598	140	98	920
Dredge. Mining-	H. J. Barton and A. C. La Bud	709,793	Sept. 23	3382	739	100	2713
Dredge-mouthpiece. Suction-	L. W. Bates	692,815	Feb. 11	1066	751	98	1042
Dredge or grapple	A. Beckers	692,417	Feb. 4	340	84	98	870
Dredge. Sewer-	E. Chaquette	705,616	July 29	4507	978	100	973
Dredge. Suction-	L. W. Bates	716,173	Dec. 16	2947	647	101	2482
Dredges, excavators, &c. Boom for	A. W. Robinson	708,588	Sept. 9	1051	239	100	2205
Dredges, steam-shovels, &c. Hoisting-gear for dipper-buckets for use upon	A. W. Robinson	708,589	Sept. 9	1053	239	100	2205
Dredger	R. A. Perry	708,817	July 1	821	181	100	164
Dredger and excavator	I. B. Hammond	710,054	Sept. 30	3988	899	100	2861
Dredger cutter-head. Hydraulic-	L. W. Bates	709,861	Sept. 30	3589	800	100	2779
Dredger cutter. Hydraulic-	R. A. Perry	705,784	July 29	4764	1038	100	1024
Dredger excavating mechanism.	R. H. Postlethwaite	692,030	Jan. 28	3136	706	98	701
Dredger, excavator, and elevator. Hydraulic	G. L. Cudner	697,704	Apr. 15	2466	550	99	353
Dredging apparatus	P. E. Nolan and M. Mortenson	697,215	Apr. 8	1556	348	99	350
Dredging apparatus	G. G. Powell	708,583	Sept. 9	1042	236	100	2203
Dredging-bucket	C. Pay	709,420	Sept. 16	2732	613	100	2576
Dredging-scoop	H. G. Butler	708,753	Sept. 9	1365	311	100	2272
Dredging-scows. Hydraulic device for emptying	O. Frühling.	708,541	Sept. 9	976	221	100	2190
Dredging. Self-loading bucket for.	J. A. Mumford	696,581	Apr. 1	337	80	99	74
Dress and skirt adjuster	T. Bamford	693,361	Feb. 18	2163	475	98	1290
Dress-case. Traveler's	C. B. French	695,202	Mar. 11	1640	367	98	2078
Dress-fitting stand	E. Kunst	691,062	Jan. 14	1316	297	98	280
Dress-holder	M. L. Gumaer	692,743	Feb. 4	108	26	98	820
Dress-shield	M. B. Gault.	690,719	Jan. 7	696	132	98	147
Dress-shield	G. B. M. Seager	692,367	Feb. 4	266	64	98	854
Dress-shield	J. F. Murphy	702,667	June 17	2325	578	99	2665
Dress-shield	E. M. Cowles	706,802	Aug. 12	1561	349	100	1452
Dress-shield	A. T. Stevenson	709,035	Sept. 30	3766	851	100	2814
Dress-shield	M. M. Grant	712,188	Oct. 28	3462	700	101	703
Dress-shield	D. Bass	715,743	Feb. 14	3074	460	101	820
Dress shield fastener	J. Seligman.	711,234	Oct. 14	1621	348	101	332
Dress-shield holder.	J. F. Murphy	696,689	Apr. 1	552	126	99	120
Dress-shields. Making	T. Davis	715,353	Dec. 9	1343	289	101	2180
Dress-shields or other waterproof articles. Making.	T. Davis	712,507	Nov. 4	79	21	101	913
Dress-shields to waists. Means for attaching	D. Basch	713,193	Nov. 11	1383	311	101	1197
Dress-supporter	M. J. Caruthers	702,456	May 27	3353	610	99	2042
Dress-supporter	R. F. Montgomery	702,456	June 17	2129	484	99	2289
Dresser and bed. Combined	C. F. Streit	693,456	Feb. 18	2348	514	98	1328
Dressing. Bar-	A. L. Eaton.	691,935	Jan. 25	2964	667	98	668

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Dressing for fish, &c.	H. K. MacGregor	691,154	Jan. 14	1461		98	320
Drier.							
See Brick-drier.	Paint-drier.						
Clothes-drier.	Peat-drier.						
Culm-drier.	Rotary drier.						
Fruit-drier.	Rotary mechanical drier.						
Grain-drier.	Sand-drier.						
Hair-drier.	Skirt-drier.						
Hominy, meal, and	Steam-drier.						
grits drier.	Veneer-drier.						
Lead-drier.							
Drier	G. W. Trammell and W. McDuffie	690,796	Jan. 7	829	183	98	715
Drier	T. S. Wiles	692,750	Feb. 4	934	213	98	990
Drier	C. H. Casper	693,232	Feb. 11	1931	419	98	1221
					420		
					918		
					919		
					920		
					921		
					922		
					923		
Drier	F. E. Allen	698,617	Apr. 29	4175		90	945
					1188		
Drier	E. Storch	699,118	Apr. 29	5145	1189	99	1156
Drier	D. W. Elliot	707,765	Aug. 26	3428	772	100	1872
Drier	A. T. Welch	708,602	Sept. 9	1074	243	100	2210
					244		
Drier	A. T. Welch	708,603	Sept. 9	1082	243	100	2211
					244		
Drier	A. T. Welch	708,604	Sept. 9	1087	244	100	2212
Drier	A. Giesler	712,138	Oct. 28	3364	737	101	744
					738		
Drier	C. A. Ball	712,894	Nov. 4	812	188	101	1064
					616		
Drier and kiln.	A. E. Dowell and W. B. McHenry	700,482	May 20	2600		99	1760
Drier for cotton or other materials.	J. C. W. Stanley	693,455	Feb. 18	2946	513	98	1928
Drier for ores, &c.	A. G. Campbell	712,258	Oct. 28	3582	738	101	788
Drier for paper, cloth, &c.	C. H. Crowell	703,044	June 24	3247	747	99	2830
Dry-kiln	J. J. Curran	691,606	Jan. 21	2336	525	98	521
Dry-kiln	E. Gerrard	699,839	May 13	1376	318	99	1472
Drying apparatus.	L. Atwood	697,312	Apr. 8	1731	380	99	398
Drying apparatus.	H. Diedrich	698,635	Apr. 29	4212	929	99	952
Drying apparatus.	C. J. Seltzer	703,746	July 1	688	152	100	137
Drying apparatus.	J. C. Fleming	705,914	July 29	4999	1088	100	1071
Drying apparatus.	H. C. Baughman	708,516	Sept. 9	941	213	100	2184
Drying apparatus.	A. Schiff	712,007	Oct. 28	3137	686	101	700
Drying apparatus.	F. V. L. Hiorth	715,070	Dec. 2	811	172	101	3000
Drying can or cylinder	A. A. Hunting	700,776	May 27	3271	751	99	1901
Drying-chambers. Apparatus for carrying goods through	J. Keith and W. W. Wardle	709,639	Sept. 23	3173	708	100	2680
Drying-cylinder	R. U. Chadwick	693,233	Feb. 11	1933	420	98	1221
Drying-cylinder.	E. Fues	695,041	Mar. 11	1361	299	98	2017
Drying humid material. Apparatus for	A. Huillard	714,457	Nov. 25	3918	866	101	1733
Drying-kiln	A. Carey	704,814	July 15	2709	585	100	580
Drying or heating cylinders. Air-exhaust for revolving steam	T. H. Savery	705,305	July 22	2775	819	100	813
Drying or treating. Heating materials for the purpose of	A. T. Welch	708,946	Sept. 9	1750	404	100	2352
Drying-rack	J. H. Davis	701,546	June 3	470	106	99	2204
Drying-reel	C. D. Weaver	708,184	Sept. 2	346	82	100	2052
Drying vegetables, fruits, &c. Apparatus for	A. Prawatke	708,781	Sept. 9	1417	326	100	2282
					327		
Drill:							
See Combination-drill.	Ratchet-drill.						
Compressed-air drill.	Rock-drill.						
Corn-drill.	Seed-drill.						
Earth or rock drill.	Seed, grain, or fertilizer drill.						
Grain-drill.	Well-drill.						
Pneumatic drill.	Well-boring drill.						
Drill	W. M. Potter	691,488	Jan. 21	2121	476	98	476
Drill	R. Binnie	694,822	Mar. 4	932	207	98	1909
Drill	R. Binnie	694,823	Mar. 4	933	208	98	1910
Drill	E. E. Atkinson	701,792	June 3	912	204	99	2299
Drill	H. R. Jacobs	702,217	June 10	1688	380	99	2472
Drill	G. W. Griffiths	715,657	Dec. 9	1898	424	101	2241
Drill and fertilizer-distributor	C. W. Love	693,527	Feb. 18	2484	545	98	1357
Drill-bit	A. S. Jones	715,385	Dec. 9	1397	361	101	2141
Drill-bits. Means for shaping and sharpening	J. Wagner	708,135	Aug. 5	245	52	100	1163
Drill-braces. Attaching device for	J. F. Steckenreiter	690,669	Jan. 7	577	126	98	123
Drill-coupling	L. C. Preston	715,861	Dec. 16	2345	519	101	2356
Drill drag-bar	W. Fetzler	695,713	Mar. 18	2567	581	98	2283
Drill-engine. Valveless	R. L. Rickman	712,597	Nov. 4	260	63	101	951
Drill-press	A. Vik	709,568	Sept. 23	3055	680	100	2656
Drill reciprocating key-seating attachment	E. W. Kelley	698,709	Apr. 29	4402	971	99	998
Drill-rod grab	W. W. Campbell	702,283	June 10	1790	409	99	2494
Drill-rod grab	J. H. Adams	706,872	Aug. 12	1691	378	100	1480
Drill-rods, &c. Screw-joint fastener for	F. Wulff	694,514	Mar. 4	334	74	98	1733
Drill-shaper	D. Greenwalt and J. B. Dawson	707,584	Aug. 26	3034	682	100	1790
Drill-socket	O. A. Parnpart	690,764	Jan. 7	789	171	98	162



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Drill-socket	J. L. Cook	712,653	Nov. 4	369	83	101	973
Drill-stock. Machine	L. Gassard	711,563	Oct. 21	2248	488	101	497
Drill support. Hand-	F. P. Shek	693,166	Feb. 11	1782	396	98	1189
Drill work-holding attachment	G. E. Metcalf	700,964	May 27	3606	829	99	1967
Drills. Water attachment for power-	F. L. Whitehead	704,158	July 8	1490	320	100	313
Drilling device	L. A. Hardison	717,095	Dec. 30	4859	1053	101	2925
Drilling edges of boards. Machine for	W. J. Edwards and W. M. Wauters.	705,558	July 29	4531	981	100	978
Drilling-jig. Magnetic	A. L. De Leeuw	710,237	Sept. 30	4388	987	100	2947
Drilling-machine	C. S. Jones	690,965	Jan. 14	1128	255	98	251
Drilling-machine	C. A. Wessman	697,581	Apr. 15	2226	495	99	505
Drilling-machine	S. A. Baker	698,242	Apr. 22	3483	765	99	787
Drilling-machine	D. Warner	690,122	Apr. 29	5155	1122	99	1159
Drilling-machine	B. F. Kelley	699,535	May 6	762	189	99	1332
Drilling-machine	R. M. Downie	700,678	May 20	3022	691	99	1831
Drilling-machine	T. E. O'Brien	704,567	July 15	2360	489	100	488
Drilling-machine	F. N. Gardner	707,507	Aug. 19	2853	645	100	1738
Drilling-machine	W. E. Butler	708,995	Sept. 16	1870	430	100	2394
Drilling-machine	A. W. Wigglesworth	711,448	Oct. 14	2011	436	101	433
Drilling-machine	R. W. Frost	716,884	Dec. 30	4458	966	101	2841
Drilling-machine. Automatic	D. Ramsay	694,784	Mar. 4	870	192	98	1896
Drilling-machine drift-pin	F. Muenger	693,049	Feb. 11	1534	324	98	1142
Drilling-machine. Portable	J. Rourke	705,791	July 29	4775	1037	100	1026
Drilling-machine. Rotary	F. H. Davis and C. A. Terry	710,438	Oct. 7	70	16	101	16
Drilling machinery	C. E. Willey	701,115	May 27	3892	893	99	2029
Drilling, milling, and tapping machine. Turret-	A. D. Quint	694,783	Mar. 4	865	192	98	1894
Drilling or like machine	F. H. Pierpont	700,368	May 20	2468	566	99	1714
Drilling rivet-holes in wheel-hubs. Machine for	G. H. Everson	706,811	Aug. 12	1576	353	100	1156
Drink-shaker	R. Reed	712,095	Oct. 28	3296	722	101	731
Drinking-cup	B. B. Strobe	692,802	Feb. 4	1045	234	98	1090
Drinking-cup and shaving-mug. Combined traveler's	F. Finley	693,959	Feb. 25	3318	729	98	1544
Drinking-fountain for fowls	W. H. Busch	690,831	Jan. 7	892	197	98	189
Drinking-fountain. Poultry	F. Pohley	711,224	Oct. 14	1992	344	101	347
Drinking-fountain. Poultry	R. J. Beise	712,243	Oct. 28	3555	778	101	783
Drip-pan indicator device	F. E. Wiesner	717,309	Dec. 30	5278	1147	101	3016
Driving, braking, and coasting mechanism	F. B. Case	708,201	Sept. 2	386	90	100	2060
Driving mechanism	O. Wiblitzhauser	700,868	May 27	3437	790	99	1933
Driving mechanism	A. F. Spaulding	704,320	July 8	1598	346	100	334
Driving mechanism	A. M. Gloag and R. W. J. Fletcher	712,058	Oct. 28	3237	708	101	719
Driving mechanism control device	C. R. Otis and A. M. Coyle	713,674	Nov. 18	2345	523	101	1410
Driving mechanism. Reversible	C. S. Parcelis	702,243	June 10	1726	390	99	2480
Drop	G. Miles	708,736	Sept. 9	1317	300	100	2369
Drop-gate	A. List	711,827	Oct. 21	2382	523	101	525
Drop-light	J. Gardner	690,364	Mar. 25	3874	861	98	2565
Dropper:							
See Fertilizer-dropper. Seed-dropper.							
Medicine-dropper.							
Drum. Friction-	T. S. Miller	715,111	Dec. 2	888	188	101	2018
Drum. Heating	C. W. Davidson	705,217	July 12	3586	775	100	776
Drum. Heating	E. Graham	703,921	July 23	5008	1050	100	1073
Drum. Heating	W. Vogel	707,990	Aug. 26	3872	870	100	1958
Drum. Heating	E. Hinderer	711,969	Oct. 28	3062	672	101	686
Drum. Heating	W. J. Burton	713,055	Nov. 11	1114	256	101	1141
Drum. Heating and ventilating	A. W. Brock	701,286	June 3	14	3	99	2111
Drum or barrel head	J. L. Sheppard	697,027	Apr. 8	1239	276	99	282
Drum pedal and heater attachment. Bass-	A. F. Langenohl	716,487	Dec. 23	3463	760	100	2369
Drum-stand	A. B. Hellenkamp	706,997	Aug. 12	1801	403	100	1502
Drums and cymbals. Pedal device for bass-	W. C. L. Evans	704,308	July 8	1733	382	100	368
Dumb-bell, Indian club, and pulling or swinging bar. Combined	F. R. Buck	708,313	Sept. 2	585	132	100	2100
Dumb-waiter	H. A. Pool	696,368	Mar. 25	3649	817	98	2520
Dumb-waiter grip and friction-roller. Self-adjusting	F. Ackerman	705,010	July 22	3153	681	100	689
Dump-shovel. Hand	J. Felton	694,263	Feb. 25	3993	866	98	1699
Dump-shovel. Hand	J. Felton	712,126	Oct. 28	3360	737	101	743
Dumping apparatus	J. Egli	700,115	May 13	1892	439	99	1576
Dumping apparatus	B. Kelly	703,277	June 24	3673	847	99	2916
Dumping apparatus. Log or freight	T. Alexander	707,951	Aug. 26	3703	852	100	1944
Dumping device	B. F. Thomas	690,039	Apr. 29	5019	1110	99	1931
Dumping device	C. W. Howbert	713,230	Nov. 11	1431	324	101	1207
Duplex hook for hitching-straps, &c	E. H. Moorman	706,678	Aug. 12	1314	291	100	1490
Duplicating apparatus	J. W. Jones	714,707	Dec. 2	109	22	101	1899
Duplicating device	J. A. Lee	714,896	Dec. 2	311	98	101	1899
Duplicator	S. Case	699,075	Apr. 29	5075	1122	99	1143
Duplicator	A. H. Ferris and C. A. Kenworthy	707,571	Aug. 26	3012	677	100	1787
Dust-appliator	T. H. Hunt	705,089	July 22	3303	718	100	717
Dust-beater	S. J. Sims	698,005	Apr. 22	3124	687	99	712
Dust collecting and settling apparatus	C. H. Larson	701,898	June 10	1096	250	99	2353
Dust-collector	O. Porbeck	691,485	Jan. 21	2120	475	98	476
Dust-collector	J. H. Lane and E. B. Whitmore	699,194	May 6	118	31	99	1306

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Dust-collector	E. R. Draver	699,460	May 6	638	147	99	1308
Dust-collector	J. E. Mitchell	702,312	June 10	1833	419	99	2502
Dust-collector	P. Eberwein	703,124	June 24	3406	1781	99	2862
Dust-collector	L. R. Whitney	704,724	July 15	2519	544	100	542
Dust-collector	J. E. Mitchell	704,900	July 15	2852	1618	100	611
Dust-collector	J. E. Mitchell	705,944	July 29	5050	1100	100	1082
Dust-collector	W. W. Sly	710,624	Oct. 7	442	92	101	88
Dust-collector	E. R. Draver	711,760	Oct. 21	2629	579	101	578
Dust-collector and sweeper. Pneumatic	J. T. Hope	705,585	July 29	4398	951	100	951
Dust-collector or separator	W. S. Osborne and E. C. Bryant	710,605	Oct. 7	401	84	101	80
Dust-guard	O. E. McMeans	690,455	Jan. 7	132	28	98	30
Dust-guard	F. Martin	701,908	June 10	117	256	99	2357
Dust-guard	J. S. Patten	705,435	July 22	4052	870	100	870
Dust-guard	J. S. Patten	708,491	Sept. 2	887	201	100	2161
Dust-guard	J. S. Patten	708,492	Sept. 2	889	201	100	2162
Dust-guard	H. C. McCarty	711,641	Oct. 21	2987	524	101	526
Dust-guard	E. Harris	715,562	Dec. 9	1167	249	101	2093
Dust-pan	W. L. Harris	698,534	Apr. 29	4674	1029	99	1060
Dust-pan	W. E. Correll	704,861	July 15	2782	602	100	1706
Dust-pan	T. Clover	715,756	Dec. 16	2105	473	101	2305
Dust-pan and broom-holder. Combined	J. H. Ormsby	691,965	Jan. 28	3027	680	98	681
Dust-pan, broom, and dust-brush holder	J. M. Miller	698,987	Apr. 29	4931	1091	99	1114
Dust-pan handle attachment	F. C. Avery	717,315	Dec. 30	5287	1149	101	3019
Dust-spraying machine	C. H. Asling	699,485	May 6	589	133	99	1297
Duster. Feather	E. K. Warren and A. A. Ackerman	698,880	Apr. 29	4749	1046	99	1075
Duster for cleaning walls, &c.	G. M. Bell	693,100	Feb. 11	1630	356	98	1160
Dusting and cleaning garments. Apparatus for	W. Harbough	715,792	Dec. 16	2183	488	101	2320
Dye. Acridin	C. L. Müller and E. Schmid	716,264	Dec. 16	3134	488	101	2522
Dye and making same. Anthracene	O. Bally	707,373	Aug. 19	2616	100	1689	
Dye and making same. Anthracene	O. Bally	707,374	Aug. 19	2618	100	1689	
Dye and making same. Anthracene	M. H. Isler	715,662	Dec. 9	912	101	2244	
Dye and making same. Azo	W. Schraube and H. T. Bucherer	704,325	May 20	3854	90	1706	
Dye and making same. Black sulfur	J. Abel and F. Kalkow	692,174	Jan. 28	3391	98	753	
Dye and making same. Black sulfur	F. Reubold	695,835	Mar. 18	2795	98	2330	
Dye and making same. Black sulfur	W. Kelbe	701,051	May 27	3781	99	2005	
Dye and making same. Black sulfur	I. Levinstein and C. Mensching	702,369	June 10	1946	99	2524	
Dye and making same. Black sulfur	I. Levinstein and C. Mensching	706,969	Aug. 12	1857	100	1512	
Dye and making same. Blue	C. De la Harpe	707,832	Aug. 26	3554	100	1902	
Dye and making same. Blue	C. De la Harpe	707,833	Aug. 26	3554	100	1902	
Dye and making same. Blue	A. Weinberg and F. Klingemann	700,186	Sept. 16	2270	100	2477	
Dye and making same. Blue anthraquinone	C. Hartmann	704,798	July 15	2668	100	571	
Dye and making same. Blue sulfur	A. Weinberg and R. Herz	693,632	Feb. 18	2700	98	1401	
Dye and making same. Blue sulfur	J. Abel. (Reissue)	11,973	Mar. 4	1148	98	1955	
Dye and making same. Blue sulfur	C. Ris	696,751	Apr. 1	674	98	144	
Dye and making same. Blue sulfur	A. F. Poirrier	708,692	Sept. 9	1135	100	2254	
Dye and making same. Blue sulfur	H. Herz	709,151	Sept. 16	2182	100	2461	
Dye and making same. Blue sulfur	W. Dollfus	710,766	Oct. 7	706	101	144	
Dye and making same. Blue wool	A. Weinberg	703,105	June 24	3869	99	2854	
Dye and making same. Brown sulfur	M. Böniger	712,176	Oct. 28	3444	101	760	
Dye and making same. Brown-violet sulfur	A. Weinberg	701,435	June 3	273	99	2164	
Dye and making same. Dark sulfur	E. Culmann	711,038	Oct. 14	1229	101	329	
Dye and making same. Diazo	F. Julius and A. Tkatsch	692,675	Feb. 18	2762	98	967	
Dye and making same. Disazo	P. Julius	716,242	Dec. 16	3107	101	2516	
Dye and making same. Disazo wool	P. Julius and F. Günther	692,676	Feb. 4	817	98	967	
Dye and making same. Disazo wool	K. Schirmacher	693,670	Feb. 18	2762	98	1413	
Dye and making same. Green	J. Koetschet	709,160	Sept. 16	2221	100	2467	
Dye and making same. Green sulfur	C. Ris	698,555	Apr. 29	4031	99	916	
Dye and making same. Greenish-black sulfur	A. Pfenniger	698,220	Apr. 22	3447	99	780	
Dye and making same. Monoazo	O. Ernst	714,882	Dec. 2	493	101	1935	
Dye and making same. Orange-brown sulfur	A. Weinberg and O. Lange	714,542	Nov. 25	4028	101	1777	
Dye and making same. Orange-red	F. Scholl	695,238	Mar. 11	1723	98	2092	
Dye and making same. Orange-yellow azo	O. Ernst	714,883	Dec. 2	494	101	1935	
Dye and making same. Red	J. Ville	701,427	June 3	257	99	2161	
Dye and making same. Red cotton	E. Winter	697,765	Apr. 15	2568	99	574	
Dye and making same. Red disazo	C. Schraube and W. Voigtlaender-Tetzner	713,507	Nov. 11	2042	101	1333	
Dye and making same. Sulfur	A. Bonati	695,533	Mar. 18	2240	98	2218	
Dye and making same. Sulfur	A. Bonati	695,534	Mar. 18	2241	98	2218	
Dye and making same. Triphenyl-methane	F. Ach	707,813	Aug. 26	3535	100	1893	
Dye and making same. Yellow acridin	A. Weinberg	709,187	Sept. 16	2271	100	2477	
Dye and making same. Yellow acridin	O. Nastvogel	716,064	Dec. 16	2778	101	2449	
Dye and making same. Yellow sulfur	A. Weinberg and O. Lange	712,747	Nov. 4	318	101	1005	
Dye and making same. Yellow to red acridin	T. H. Bucherer	712,421	Oct. 28	3863	101	585	
Dye. Azo	C. Schraube, E. Schleicher, and H. T. Bucherer	716,289	Dec. 16	3175	101	2529	
Dye. Blue sulfonated	R. Bohn	692,762	Feb. 4	960	98	994	
Dye. Brown-violet azo	P. Julius	710,059	Sept. 30	3993	100	2864	
Dye. Making blue sulfur	A. Weinberg and R. Herz	693,633	Feb. 18	2762	98	1401	
Dye. Red azo	F. Julius and F. Günther	695,811	Mar. 18	2749	99	2321	
Dye. Red azo	W. Herzberg and O. Siebert	704,825	July 15	2729	100	583	
Dye. Red azo	W. Herzberg and O. Siebert	704,826	July 15	2729	100	583	
Dyes. Making extract	R. Lepetit and E. Tagliani	704,843	July 15	2753	100	589	
Dyes. Making lakes from sulfur	E. A. Fourneaux	714,687	Dec. 2	66	101	1851	
Dyes. Making phthalain	J. J. Brack	695,441	Mar. 18	2167	98	2172	
Dyes on indigo. Fixing	E. Lurati	700,521	May 20	2763	99	1786	
Dyeing	G. De Keukelaere	703,122	June 24	3403	780	99	2861
Dyeing acid colors	C. Engau	711,953	Oct. 28	3036	101	88	
Dyeing apparatus	J. Rhodes	693,443	Feb. 18	2314	507	98	1322
Dyeing apparatus	R. Hlusingworth, J. T. Mazey, and G. Naylor	695,727	Mar. 18	2593	587	98	2288
Dyeing apparatus	R. Weiss	704,191	July 8	1552	1334	100	325
Dyeing apparatus	R. Weiss	704,283	July 8	1715	874	100	360
Dyeing, &c., apparatus	D. Mattei	705,856	July 29	4892	1063	100	1050



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Dyeing apparatus.....	J. A. Willard.....	715,719	Dec. 9 2018	452		101	2366
Dyeing apparatus.....	J. O. Obermaier.....	716,926	Dec. 30 1538	984		101	2857
Dyeing, &c. Apparatus for.....	J. A. Sackville.....	693,446	Feb. 18 2335	510		98	1391
Dyeing, &c. Apparatus for.....	F. Schrip.....	700,892	May 27 3377	775		99	1921
Dyeing, &c. Apparatus for.....	E. Hindley, S. Walker, and M. Rose.....	706,657	Aug. 12 1276	281		100	1321
Dyeing, &c. Apparatus for.....	C. Corron.....	706,801	Aug. 12 1559	349		100	1452
Dyeing apparatus. Silver.....	C. M. Hanson.....	708,808	Sept. 9 1486	340		100	2298
Dyeing apparatus. Yarn.....	C. Wolf.....	701,444	June 3 285	63		99	2166
Dyeing apparatus. Yarn.....	J. C. Hamer.....	702,002	June 10 1293	295		99	2397
Dyeing enveloped yarns.....	S. W. Warbaull.....	719,967	Nov. 4 980	229		101	1667
Dyeing indigo.....	F. Peterhauser.....	710,800	Oct. 7 783			101	161
Dyeing-machine.....	W. H. Fletcher.....	706,171	Aug. 5 381	70, 71		100	1185
Dyeing sulfur colors.....	A. Kertesz.....	693,653	Feb. 18 2731			98	1407
Dyer's truck.....	J. H. Knott.....	716,640	Dec. 23 3899	852		101	2696
Dynamo.....	S. Hutchins.....	699,388	May 6 499	116		99	1279
Dynamo and driving-gear. Combined.....	J. L. Creveling.....	709,848	Sept. 23 3567	894		100	2762
Dynamo and magneto-electric machine.....	N. H. Edgerton.....	708,803	Sept. 9 1474	337		100	2295
Dynamo and magneto-electric machine.....	N. H. Edgerton.....	708,875	Sept. 9 1628	374		100	2328
Dynamo brush mechanism.....	W. L. Bliss.....	707,754	Aug. 26 3410	769		100	1868
Dynamo. Exciting.....	H. W. Buck.....	712,041	Oct. 26 3183	696		101	710
Dynamo. Exciting.....	H. W. Buck.....	712,451	Oct. 28 3930	862		101	865
Dynamo or motor brush-holding ring.....	F. B. Duncan.....	705,487	July 22 4147	907		100	888
Dynamo-regulator. Automatic.....	H. G. Reist.....	696,080	Mar. 25 3252	736		98	2438
Dynamo-spools. Connector for.....	J. L. Creveling.....	691,358	Jan. 21 1901	427		98	439
Dynamos from car-axes. Means for driving.....	J. L. Creveling. (Reissue).....	11,961	Jan. 21 2577	577		98	572
Dynamos or motors on their bed-plates. Means for adjusting.....	F. B. Duncan.....	697,998	Apr. 22 3013	661		99	689
Dynamos with trucks of railway-cars. Means for connecting.....	P. Kennedy.....	699,187	May 6 106	26, 27		99	1197
Ear-drum. Artificial.....	A. von Suchorzynski and M. Kohl.....	692,556	Feb. 4 597	140		98	929
Ear-drum. Artificial.....	U. Kleiner.....	702,800	June 17 2777	638		99	2717
Ear-drum. Device for protecting the.....	F. D. Macbeth.....	706,975	Aug. 12 1865	417		100	1514
Ear-muff.....	L. Wile.....	708,446	Sept. 2 796	182		100	2148
Ear-protector.....	E. E. Kiedler.....	694,159	Feb. 25 3710	819		98	1623
Ear-ring protector.....	M. Wolfberg.....	711,260	Oct. 14 1678	361		101	963
Earth or rock drill.....	F. H. Dannhardt.....	705,910	July 29 4988	1086		100	1669
Earthenware articles. Deposition of metals on.....	G. W. Laybourn.....	716,559	Dec. 23 3740			101	2663
Easel.....	E. Oldenbusch.....	693,427	Feb. 18 2292	502		98	1317
Easel.....	C. P. Mueller.....	694,979	Mar. 11 1244	272		98	1968
Easel.....	E. H. Stolz.....	700,849	May 27 3409	783		99	1928
Ease-back.....	H. W. Johns.....	692,857	Feb. 11 233			98	1056
Easement and point-protector. Combined.....	C. O. Anderson.....	696,220	Mar. 25 3558	706		98	2501
Eaves-trough.....	J. C. Carr.....	691,744	Jan. 28 2620	587		98	598
Eaves-trough hanger.....	C. E. Brown.....	693,492	Feb. 18 2416	528		98	1343
Eaves-trough hanger.....	H. Pope.....	707,941	Aug. 26 3783	848		100	1942
Eaves-trough hanger.....	J. Jacoby.....	716,841	Dec. 23 4369	947		101	2806
Eaves-trough miter-joint.....	T. Rye.....	702,156	June 10 1351	357		99	2452
Eaves-trough protector.....	W. L. Meuser.....	706,323	Aug. 5 662	144		101	1249
Eaves-troughs. Making.....	A. Necher.....	692,331	Feb. 4 200	47		98	840
Eccentric.....	C. W. Hollender.....	710,865	Oct. 7 891	194		101	181
Eccentric. Adjustable.....	H. Graff.....	708,223	Sept. 2 424	97		100	2968
Eccentric. Adjustable.....	W. D. Rundlett.....	717,282	Dec. 30 5228	1136		101	3005
Economizer.....	W. H. Vernon.....	694,590	Mar. 4 487	105		98	1817
Economizer system.....	F. Blossom and J. D. E. Duncan.....	712,490	Nov. 4 48			101	967
Edge-finishing machine.....	S. D. Tripp.....	701,425	June 3 252	57		99	2160
Edge-setting machine.....	H. A. Oldershaw.....	697,356	Apr. 8 1798	403		99	402
Edge. Straight.....	W. Paschall.....	713,141	Nov. 11 1278	289		101	1172
Edger. Gang.....	C. Johnson.....	700,203	May 20 2122	486		99	1645
Edger guard. Gang.....	E. E. Thomas.....	697,565	Apr. 15 2291	490		99	590
Edging device.....	J. Roser.....	707,441	Aug. 26 3142	707		100	1811
Educational apparatus.....	W. L. Smith.....	706,463	Aug. 5 932	204		100	1304
Educational appliance.....	L. C. Levy.....	690,446	Jan. 7 113	25		98	26
Educational appliance.....	W. A. Proctor.....	690,664	Jan. 7 569	124		98	122
Educational appliance.....	A. M. Catlin.....	691,113	Jan. 14 1388	316		98	304
Educational appliance.....	C. Kolshorn.....	692,019	Jan. 28 3121	703		98	698
Educational appliance.....	J. Flindall.....	713,085	Nov. 11 1171	299		101	1387
Educational appliance.....	C. M. Wiles.....	715,353	Feb. 2 1065	235		101	2061
Educational chart and support therefor.....	R. B. Anderson.....	710,653	Oct. 7 492	103		101	99
Educational device.....	J. E. Murray.....	696,690	Apr. 1 555	127		99	120
Educational device.....	F. W. Davenport.....	701,597	June 10 1288	294		99	2380
Educational device.....	C. Erwin.....	711,486	Oct. 21 2905	454		101	465
Educational device.....	C. S. Osborn.....	711,879	Oct. 21 2856	631		101	627
Egg-beater.....	E. R. Roberts.....	692,479	Feb. 4 122	105		98	891
Egg-beater.....	W. G. Browne. (Reissue).....	12,026	Aug. 26 3898	876		100	1965
Egg-beater holder.....	W. B. Smith.....	711,185	Oct. 14 1531	328		101	333
Egg-caudler.....	H. H. Holtan.....	700,048	May 13 1780	411		99	1554
Egg-case.....	H. Erickson.....	698,481	Apr. 29 3906	803		99	891
Egg-case.....	J. A. Bastle and H. H. Weber.....	708,011	Sept. 2 19	4		100	1985
Egg contents. Preserving.....	J. Fordred.....	692,288	Feb. 4 99			98	819
Egg-desiccating apparatus.....	P. B. Taylor.....	704,977	July 15 3072	661		100	656
Egg-filler.....	C. E. Staats.....	713,355	Nov. 11 1739	392		101	1270
Egg. Mite and louse killing nest.....	J. J. Cannon and J. M. Arnold.....	710,665	Oct. 7 518	108		101	105
Egg-opener.....	W. A. Kendrick.....	691,389	Jan. 21 1957	439		98	442
Egg-opener.....	H. S. Dotts.....	696,016	Mar. 25 3135	707		98	2414
Egg-opener.....	A. F. Gardanier.....	706,640	Aug. 12 1253	277		100	1387
Egg-packing compound.....	J. M. Stukes.....	699,258	May 6 240			99	1223
Egg-preserving apparatus.....	H. Glacken.....	693,598	Feb. 18 2636	581		98	1287
Egg-preserving apparatus.....	P. H. Treadway.....	694,501	Mar. 4 296	68		98	1775

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Egg-preserving compound	J. M. Stukes	694,890	Mar. 4	1082		98	1941
Egg-preserving safe	R. B. Sears	698,418	May 6	537	125	99	1280
Egg-separator	A. L. Walker	697,750	Apr. 15	2360	569	99	373
Egg-separator	C. Biernbaum	703,111	June 24	3877	776	99	2855
Egg-separator	M. E. Abrahams	708,791	Sept. 9	1449	331	100	2291
Egg-stand	J. Salomon	710,078	Sept. 30	4035	909	100	2871
Egg-tester	J. Carlen	717,343	Dec. 30	5331	1160	101	3028
Egg-tray	W. Darling	702,760	June 17	2738	630	99	2710
Egg-vermin-destroying nest	E. T. Stuart	695,892	Mar. 18	2897	657	98	2832
Eggs, Preserving	J. A. Rylander	696,495	Apr. 1	179		99	42
Eggs, Preserving	W. Schöning	709,583	Sept. 23	3082		100	2662
Eggs, Testing	C. Reinhardt	707,009	Aug. 12	1924	431	100	1526
Ejector	T. S. Smith	714,961	Dec. 2	636	133	101	1963
Ejector apparatus	M. T. Davidson and W. A. Drewett	708,757	Sept. 9	1376	314	100	2374
Elastic fabric and making same. Woven	A. M. Ziegler	698,777	Apr. 29	4507	815	99	1020
Elastic goods. Manufacturing molded	F. Daubitz and A. Loewy	715,462	Dec. 9	1339	99	101	2168
Elastic joint	C. La Dow	691,571	Jan. 21	2361	508	98	506
Elastic material and producing same	A. M. D. Clasen	710,564	Oct. 7	325		101	66
Elastic material which cannot be readily punctured. Manufacture of sheets of flexible	V. E. Belledin	707,752	Aug. 26	3408		100	1867
Elastic portion and a securing portion. Article of manufacture having an	J. G. Moomy	700,993	Sept. 30	3884	876	100	2839
Elastic tip	P. W. Pratt and R. E. Foster	710,073	Sept. 30	4026	908	100	2870
Elbow and pipe	H. K. Blyth	706,888	Aug. 12	1719	384	100	1485
Electric accumulator	C. P. Eliason and V. de Bobinsky	692,433	Feb. 4	371	91	98	876
Electric accumulator	H. Heinicke	704,744	July 15	2566	553	100	551
Electric accumulator	F. Loppé, H. P. Morin, G. J. A. Griner, and D. P. Martin	712,316	Oct. 28	3681	804	101	808
Electric accumulator-plate	A. Fischer	708,334	Sept. 2	620	139	100	2107
Electric accumulator-plates. Making	R. M. Hunter	703,420	July 1	98	21	100	22
Electric accumulator-plates. Separator for	R. Alexander-Katz	705,630	July 29	4484	973	100	967
Electric accumulator. Forming	D. Rosset	711,997	Oct. 28	3110	657	101	695
Electric alarm	D. Vial, fils	700,585	May 23	2865	657	99	1708
Electric alarm	G. M. Peyton	700,812	Oct. 27	3338	766	99	1914
Electric alarm	W. N. Haring	701,566	June 3	516	114	99	2315
Electric alarm and fastening device	H. G. Carleton	698,813	Apr. 29	4605	1016	99	1045
Electric and gas lighting system. Combined	F. C. Pickett	709,039	Sept. 16	1969	450	100	2413
Electric apparatus interrupter	H. Shoemaker	710,373	Sept. 30	4583	1034	100	2387
Electric arcs. Controlling	E. Thomson	715,901	Dec. 16	2414	534	101	2371
Electric arcs. Extinguishing	R. H. Read	716,475	Dec. 23	3536	777	101	3624
Electric arcs. Extinguishing	R. H. Read	716,448	Dec. 23	4381	950	101	2809
Electric attachment	J. C. Meloon	708,155	Sept. 2	289	69	100	2041
Electric battery	A. de Dion and G. Bouton	691,611	Jan. 21	2350	528	98	523
Electric battery	C. Hubert	700,497	May 20	2720	622	99	1766
Electric battery	P. Delafon	702,544	June 17	2285	520	99	2616
Electric battery	E. W. Robinson	705,148	July 22	3433	746	100	744
Electric battery	E. R. Gill	705,919	July 29	3006	1060	100	1073
Electric battery	E. A. G. Street	707,731	Aug. 26	3331	746	100	1853
Electric battery	T. H. Klinker, Jr., and R. Gabriel-sky	710,278	Sept. 30	4421	997	100	2955
Electric battery	A. J. Cook	710,953	Oct. 14	1046	232	101	229
Electric battery	D. H. Wilson	715,320	Dec. 16	2455	541	101	2381
Electric battery	H. Halsey	716,762	Dec. 23	4103		101	2741
Electric battery	H. Halsey	717,394	Dec. 30	5419	1178	101	3047
Electric battery and mounting same	H. Halsey	717,395	Dec. 30	5420	1178	101	3047
Electric battery	E. A. Sperry	703,673	July 1	550	125	100	109
Electric battery. Coin-controlled	F. Duve	712,781	Nov. 4	594	135	101	1021
Electric battery. Gravity	A. M. Friend	715,654	Dec. 9	1894	423	101	2240
Electric body appliance	P. J. Collins and C. G. Boland	710,429	Oct. 7	56	13	101	14
Electric brake	F. E. Case	695,144	Mar. 11	1554	345	98	2058
Electric brushes. Making	R. D. Laughlin	701,363	June 3	149	32	99	2139
Electric cable	T. Rosati	706,599	Aug. 12	1165	258	100	1367
Electric cable	J. H. West	716,155	Dec. 16	2914	641	101	2476
Electric cables. Covering means for joints in	C. Luke	701,209	May 27	4057	932	99	2064
Electric cables. Manufacture of	J. H. West	700,107	May 13	1876	437	99	1573
Electric carrier and hoisting device. Overhead	H. M. Harding	716,033	Dec. 16	2911	580	101	2426
Electric carriers. Reversing device for overhead	A. S. Clift	692,118	Jan. 28	3300	747	98	734
Electric-circuit breaker	H. W. Leonard and H. P. Ball	705,102	July 22	3332	723	100	724
Electric-circuit-closing device	F. Wilke	698,383	Apr. 22	3719	822	99	837
Electric circuit. Composite	M. H. Howell	706,318	Aug. 5	634	138	100	1244
Electric-circuit controller	C. J. Coleman	693,110	Feb. 11	1864	362	98	1167
Electric-circuit controller. Automatic	J. Sachs	711,790	Oct. 21	2684	591	101	389
Electric-circuit-controlling means	J. J. Wood	706,143	Aug. 5	275	58	100	1173
Electric-circuit ground-detector	F. Conrad	716,868	Dec. 30	4424	960	101	2385
Electric-circuit lead fuse	F. H. Krebs	709,334	Sept. 16	2549	574	100	2538
Electric circuit. Loaded	J. C. Lee and E. H. Colpitts	705,936	July 29	5034	1097	100	1078
Electric-circuit-protecting device	P. H. Thomas	712,618	Nov. 4	299	70	101	961
Electric-circuit protector	C. A. Rolfe	697,219	Apr. 8	1562	350	99	351
Electric-circuit-regulating device	G. P. McDonnell	697,158	Apr. 8	1457	323	99	329
Electric-circuit safety-fuse	D. G. Black	699,647	May 13	1002	328	99	1395
Electric-circuit switch	H. R. Stuart	713,712	Nov. 18	2419	540	101	1426
Electric-circuit thermal protector	F. B. Cook	704,439	July 8	1993	433	100	419
Electric-circuit wires so as to equalize induction. Apparatus for transposing	J. O'Brien and J. Mattimore	710,206	Sept. 30	4302	997	100	2390
Electric circuits. Apparatus for maintaining uniform resistance in	F. A. Gilbert and E. O. Lundin	710,052	Sept. 30	3985	899	100	2861
Electric circuits. Apparatus for the prevention of sparking and arcing in	H. H. Dow	692,432	Feb. 4	368	91	98	876
Electric circuits. Automatic regulator for	F. C. Newell	696,473	Apr. 1	146	35	99	36
Electric circuits. Automatic safety-switch for	O. L. Plumtree	697,273	Apr. 8	1660	372	99	373



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Electric circuits. Automatic switch for fuse-wires in	E. W. Pelton	712,204	Oct. 28	3486	765	101	768
Electric circuits. Composite transmission over loaded	E. H. Colpitts	712,766	Nov. 4	547	126	101	1010
Electric circuits. Device for locating breaks and grounds on	M. J. Myers	710,990	Oct. 14	1116	246	101	245
Electric coil	W. Spencer, Jr.	693,752	Feb. 18	2808	639	98	1444
Electric combustion-furnace	W. M. Carr	690,146	May 6	37	10	99	1193
Electric condenser and making same	H. P. Clausen	709,205	Sept. 16	2303	524	100	2485
Electric conducting-cables. Forming	R. Spaulding	715,313	Dec. 9	1272	271	101	2116
Electric conducting-wire	H. and E. Hammesfahr	702,725	June 17	2636	606	99	2680
Electric conductor and resistance support	H. W. Leonard	691,949	Jan. 28	2993	673	98	674
Electric conductor, telephone, telegraph, or like wire. Overhead	R. Hacking	712,060	Oct. 28	3240	709	101	730
Electric conductor. Underground.	C. Borel	711,414	Oct. 14	1944	428	101	420
Electric conductors and making cables. Covering.	H. W. Dover	699,458	May 6	635	145	99	1307
Electric conductors. Armor or sheathing for	E. Witzennann	692,900	Feb. 11	1376	298	98	1108
Electric conductors. Suspension-clamp for	S. S. Leonard	693,410	Feb. 18	2250	435	98	1303
Electric conductors with or without guard-wires. Automatic device for the safe operation of	E. E. Schuitz and C. Sintas y Orfila	699,025	Apr. 29	4990	1104	99	1135
Electric conduit	A. M. Lougee	713,123	Nov. 11	1249	284	101	1171
Electric conduits. Making	A. M. Lougee	713,122	Nov. 11	1246	284	101	1170
Electric conduits. Making	A. M. Lougee	717,009	Dec. 30	4705	1020	101	2482
Electric contact device	N. C. Cotabish	695,861	Mar. 18	2838	644	98	2340
Electric contact or current-taking device	E. Greiland E. Audiger. (Reissue).	11,968	Feb. 18	3038	671	98	1409
Electric contact or current-taking device	E. Greiland E. Audiger. (Reissue).	11,969	Feb. 18	3040	671	98	1470
Electric contact or current-taking device	E. Greiland E. Audiger. (Reissue).	11,970	Feb. 18	3042	672	98	1470
Electric controller	W. B. Potter	691,809	Jan. 28	2746	620	98	623
Electric controller	A. C. Eastwood	693,791	Feb. 18	2971	656	98	1456
Electric controller	F. E. Case	697,132	Apr. 8	1412	315	99	321
Electric controller	F. E. Case	697,445	Apr. 15	1998	441	99	459
Electric controller	A. C. Eastwood	699,506	May 6	712	166	99	1323
Electric controller	J. C. Henry	699,951	May 13	1610	309	99	1521
Electric controller	A. Phillips	701,608	June 3	589	129	99	2231
Electric controller	J. W. Brown, Jr.	703,234	June 24	3015	831	99	2903
Electric controller	E. C. Fellows	703,340	June 24	3597	873	99	2942
Electric controller	A. E. Hogrebe	704,893	July 15	3081	579	100	573
Electric controller	J. C. Henry	705,241	July 22	3047	730	100	738
Electric controller	W. H. Clarke	708,026	Sept. 2	43	10	100	1990
Electric controller	J. B. Linn	708,055	Sept. 2	43	10	100	2003
Electric controller	W. A. Carrell	710,096	Sept. 30	4078	920	100	2880
Electric controller. Automatic	A. McGary and P. Mellinger	697,267	Apr. 8	1648	369	99	371
Electric coupling	T. C. James	699,460	May 6	651	151	99	1310
Electric couplings. Face-plate for	N. Marshall	715,209	Dec. 2	1071	230	101	2056
Electric-current generating and distributing system. Alternating	B. G. Lammie	695,037	Mar. 25	2984	674	98	2383
Electric-current induction-machine. Alternating	E. Danielson	694,092	Feb. 25	3586	793	98	1598
Electric-current induction-motors. Device for starting alternating	K. A. Lindström	694,105	Feb. 25	3604	797	98	1601
Electric-current-rectifying apparatus	G. B. Batten	711,276	Oct. 14	1696	366	101	961
Electric-current regulator	J. W. Hammond	714,893	Dec. 2	508	106	101	1937
Electric currents. Breaking	W. L. R. Emmet	716,833	Dec. 23	4355	945	101	2804
Electric currents. Distributing	E. Arnold, O. S. Bragstad, and J. L. La Cour.	717,065	Dec. 30	4813	1043	101	2916
Electric currents. Electromagnetic regulator for	J. D. Ihlder	693,023	Feb. 11	1474	322	98	1120
Electric currents. Generating independent	E. Arnold, O. S. Bragstad, and J. L. La Cour.	717,152	Dec. 30	4972	1078	101	2950
Electric currents. Increasing the number of phases of	A. G. Davis	714,637	Nov. 25	4205	929	101	1811
Electric currents. Transmitting	A. A. E. Sterzing	691,298	Jan. 14	1738	396	98	377
Electric currents upon telegraph or other circuits. Means for impressing periodically-varying	H. A. Rowlands	704,930	July 15	2976	637	100	638
Electric cut-off switch	L. W. Richardson	699,633	May 6	957	221	99	1372
Electric cut-out	H. E. Loppert	691,394	Jan. 21	1969	441	98	445
Electric cut-out	G. N. Oehmen	704,361	July 8	1870	405	100	395
Electric cut-out	H. N. Potter	714,607	Nov. 25	4150	918	101	1842
Electric discharges. Rotary apparatus for the production of diffused	M. Otto	707,797	Aug. 26	3510	792	100	1888
Electric-distribution system	C. P. Steinmetz	697,035	Apr. 8	1232	278	99	285
Electric-distribution system	E. Thomson	698,156	Apr. 22	3325	726	99	733
Electric-distribution system	C. J. A. Michalke	704,484	July 8	2092	453	100	430
Electric-distribution system	H. F. Parshall	706,591	Aug. 12	1151	235	100	1364
Electric-distribution system	J. S. Peck	713,677	Nov. 18	2358	525	101	1412
Electric-distribution system	H. W. Buck	714,360	Nov. 25	3703	815	101	1712
Electric elevator	N. O. Lindstrom	693,038	Feb. 11	1505	328	98	1136
Electric elevator	A. M. Modry	696,994	Apr. 8	1170	262	99	268
Electric elevator	J. Chambers	700,676	May 20	3018	691	99	1830
Electric elevator	R. C. Smith	710,625	Oct. 7	448	92, 93	101	89
Electric elevator	H. Rowntree	715,299	Dec. 9	1241	265	101	2109
Electric elevator	F. J. Sprague	716,953	Dec. 30	4580	994	101	2866
Electric energy. Apparatus for transferring	E. Thomson	712,741	Nov. 4	505	119	101	1042
Electric exchange system. Automatic	W. R. Binkley	717,327	Dec. 30	5302	1153	101	3022
Electric furnace	M. R. Conley	697,810	Apr. 15	2659	589	99	596
Electric furnace	G. de Chalmot	690,654	May 13	1014	236	99	1338

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Electric furnace	W. R. Parks	700,808	May 27	3330	764	99	1911
Electric furnace	F. Morani	701,218	May 27	4070	936	99	2066
Electric furnace	A. Parker	706,099	Aug. 5	181	37, 38	100	1154
Electric furnace	E. R. Taylor	706,128	Aug. 5	232	49	100	1165
Electric furnace	A. A. Shade	713,923	Nov. 18	2823	627	101	1511
Electric furnace	H. N. Potter	715,505	Dec. 9	1621	628	101	2184
Electric furnace	H. N. Potter	715,506	Dec. 9	1623	351	101	2185
Electric furnace	H. N. Potter	715,508	Dec. 9	1625	352	101	2185
Electric furnace. Oscillating	P. L. T. Héroult	707,776	Aug. 26	3458	779	100	1878
Electric furnace. Tubular	H. N. Potter	715,507	Dec. 9	1624	352	101	2185
Electric generating systems. Controlling device for	J. H. Bickford	708,195	Sept. 2	370	87, 88	100	2057
Electric generator	E. C. Woodell	698,524	Mar. 18	2216	502	98	2213
Electric generator	E. M. Wilson	699,734	May 13	1167	272	99	1427
Electric generator	W. H. Cotton	704,956	July 15	3030	650	100	649
Electric generator. Dynamo	B. G. Lamme	702,658	June 17	2512	575	99	2603
Electric generators. Controlling device for	J. H. Bickford	710,414	Oct. 7	28	7	101	8
Electric hand-setting device	O. A. En Holm	713,854	Nov. 18	2740	603	101	1481
Electric heater	J. F. Bachmann and A. Vogt	692,413	Feb. 4	333	81	98	889
Electric heater	M. C. Burt	699,651	May 13	1010	235	99	1397
Electric heater	W. B. Hinman	700,494	May 20	2716	621	99	1766
Electric heater	W. S. Hadaway, Jr.	705,668	July 29	4551	988	100	981
Electric heater	J. H. Jenkins	716,048	Dec. 16	2696	596	101	2431
Electric indicating instrument	R. Fleming	696,427	Apr. 1	63	14	99	17
Electric interrupter	L. G. Nilsen	714,020	Nov. 18	3011	670	101	1551
Electric-light bulbs. Device for applying and removing	L. H. Ainsworth	697,961	Apr. 22	2990	646	99	673
Electric-light fixture. Marine	G. L. Martin	706,578	Aug. 12	1124	248	100	1358
Electric-light hanger	L. Poole	701,930	June 10	1152	264	99	2365
Electric-light support. Adjustable	E. E. Walters	694,810	Mar. 4	907	202	98	1904
Electric-light switch	H. W. Lawrence	710,473	Oct. 7	133	31	101	29
Electric lights in railway-carriages from the guard's van. Device for operating	E. J. Preston and A. B. Gill	699,412	May 6	546	126	99	1287
Electric lights. Water-tight fixture for	F. J. Russell	699,817	May 13	1327	308	99	1461
Electric lighting	P. C. Hewitt	690,953	Jan. 14	1100	248	98	246
Electric lighting and apparatus therefor. System of	P. Lapertot, G. Villard, and L. Pignaud	696,662	Apr. 1	501	115	99	109
Electric lighting, &c. Manufacture of braided cords or cables for	C. Schürmann	708,837	July 1	852	187	100	171
Electric-lighting system	E. Thomson and E. J. Houston	695,870	Mar. 18	2858	648	98	2344
Electric-lighting systems. Regulation of	J. L. Creveling	707,052	Aug. 12	2003	448	100	1543
Electric lock	R. Herman	695,724	Mar. 18	2857	585	98	2287
Electric machine and system of distribution. Alternating-current dynamo	W. Stanley and J. F. Kelly	712,613	Nov. 4	288	68, 69	101	959
Electric machine. Dynamo	C. P. E. Schneider	694,999	Mar. 11	1271	278	98	1999
Electric machine. Dynamo	E. J. Berg	697,783	Apr. 15	2604	577	99	583
Electric machine. Dynamo	J. Burke	706,017	Aug. 5	22	5	100	1121
Electric machine. Dynamo	H. G. Reist	706,108	Aug. 5	196	41	100	1157
Electric machine. Dynamo	A. Churchward	713,603	Nov. 18	2226	494	101	1385
Electric machine. Dynamo	A. Churchward	713,604	Nov. 18	2230	495	101	1386
Electric machine. Dynamo	O. F. Conklin	716,193	Dec. 16	3013	657	101	2498
Electric-machine frame. Dynamo	A. J. Churchward	710,425	Oct. 7	49	12	101	12
Electric machine or motor. Dynamo	W. R. V. Marshall	694,293	Feb. 25	3957	881	98	1673
Electric machine or motor. Dynamo	J. W. Blackledge	714,093	Nov. 18	3160	700	101	1553
Electric-machine-regulating device. Dynamo	C. W. Kragh	714,382	Nov. 25	3736	825	101	1719
Electric-machine regulator. Dynamo	C. M. Green	690,420	Jan. 7	56	13	98	15
Electric machine. Static	H. B. Todd	692,737	Feb. 4	912	208	98	985
Electric machines. Carbon-holder for dynamo	C. B. and W. Zabel	714,769	Dec. 2	231	46	101	1884
Electric machines. Compounding dynamo	E. B. Raymond	716,102	Dec. 16	2822	620	101	2458
Electric machines. Compounding dynamo	E. B. Raymond	716,345	Dec. 16	3290	718	101	2552
Electric machines. Cooling dynamo	H. G. Reist	716,278	Dec. 16	3154	690	101	2526
Electric machines. Maintaining synchronous rotation of dynamo	E. W. Mix	713,326	Nov. 11	1686	350	101	1259
Electric machines. Means for regulating the output of dynamo	J. L. Creveling	704,696	July 15	2464	532	100	531
Electric machines. Operating dynamo	F. H. Jeannin	713,307	Nov. 11	1655	372	101	1251
Electric machines. Regulating dynamo	A. D. Lunt	713,010	Nov. 4	1019	238	101	1104
Electric machines. Regulation of dynamo	T. W. Williams	697,057	Apr. 8	1282	285	99	291
Electric machines. Regulation of dynamo	A. D. Lunt	712,561	Nov. 4	197	16	101	938
Electric machines. Winding for dynamo	H. H. Wait	693,579	Feb. 18	2593	374	98	1278
Electric machinery. Control of dynamo	E. R. Carichoff	706,723	Aug. 12	1386	309	100	1416
Electric maximum-demand indicator	A. Wright	702,846	June 17	2860	661	99	2736
Electric meter	G. H. Meeker	690,450	Jan. 7	121	26	98	28
Electric meter	C. T. Claypoole	693,688	Feb. 18	2805	617	98	1422
Electric meter	C. T. Claypool	694,832	Mar. 4	947	211	98	1913
Electric meter	T. Bruger	695,143	Mar. 11	1553	344	98	2058
Electric meter	T. Duncan	698,637	Apr. 29	4214	930	99	952
Electric meter	T. Duncan	698,638	Apr. 29	4216	931	99	953
Electric meter	T. Duncan	698,639	Apr. 29	4220	932	99	953
Electric meter	T. Duncan	698,640	Apr. 29	4223	933	99	954



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Electric meter	T. Duncan	698,641	Apr. 29	4236	934	99	954
Electric meter	T. Duncan	698,642	Apr. 29	4239	934	99	955
Electric meter	T. Duncan	698,643	Apr. 29	4232	934	99	956
Electric meter	T. Duncan	698,644	Apr. 29	4234	935	99	956
Electric meter	T. Duncan	698,645	Apr. 29	4236	935	99	957
Electric meter	T. Duncan	698,646	Apr. 29	4238	936	99	957
Electric meter	T. Duncan	698,648	Apr. 29	4242	937	99	958
Electric meter	T. Duncan	698,649	Apr. 29	4245	938	99	958
Electric meter	T. Duncan	698,650	Apr. 29	4246	939	99	959
Electric meter	T. Duncan	698,651	Apr. 29	4248	939	99	959
Electric meter	T. Duncan	698,652	Apr. 29	4249	940	99	959
Electric meter	T. Duncan	698,662	Apr. 29	4273	945	99	965
Electric meter	T. Duncan	698,663	Apr. 29	4275	946	99	965
Electric meter	T. Duncan	698,667	Apr. 29	4289	948	99	969
Electric meter	T. Duncan	698,668	Apr. 29	4290	948	99	969
Electric meter	T. Duncan	698,669	Apr. 29	4291	949	99	969
Electric meter	T. Duncan	698,673	Apr. 29	4300	950	99	972
Electric meter	T. Duncan	698,675	Apr. 29	4307	951	99	974
Electric meter	T. Duncan	698,676	Apr. 29	4309	952	99	975
Electric meter	T. Duncan	698,677	Apr. 29	4314	953	99	976
Electric meter	T. Duncan	698,678	Apr. 29	4316	954	99	976
Electric meter	T. Duncan	698,693	Apr. 29	4355	960	99	998
Electric meter	G. A. Scheffer	699,899	May 13	1508	347	99	1501
Electric meter	H. Aron	701,280	June 3	1	1, 2	99	3109
Electric meter	C. D. Haskins	701,388	June 3	103	22	99	2132
Electric meter	E. Thomson	701,965	June 10	1219	278	99	2379
Electric meter	T. A. Edison	703,051	June 24	3262	750	99	2383
Electric meter	F. A. Brocq and A. Blanchet	703,179	June 24	3264	806	99	2382
Electric meter	C. D. Haskins	706,595	Aug. 12	1086	240	100	1350
Electric meter	E. Thomson	706,612	Aug. 12	1186	263	100	1372
Electric meter	G. Stern	710,083	Sept. 30	4049	912	100	2874
Electric meter	W. H. Pratt	712,090	Oct. 28	3290	721	101	730
Electric meter	E. Thomson	712,106	Oct. 28	3313	727	101	734
Electric meter	E. Thomson	712,023	Nov. 4	304	71	101	982
Electric meter	E. Thomson	713,023	Nov. 4	1043	243	101	1169
Electric meter	J. Harris	713,564	Nov. 11	2144	479	101	1352
Electric meter.	E. Batault	693,537	Feb. 18	2504	551	98	1361
Electric meter.	C. P. Steinmetz.	716,130	Dec. 10	2868	632	101	2468
Electric meter.	C. P. Steinmetz.	716,351	Dec. 16	3368	720	101	2554
Electric meter.	C. D. Haskins	712,023	Oct. 28	3245	710	101	721
Electric meter.	R. S. Stewart	715,170	Dec. 2	905	215	101	2040
Electric meter.	A. Wright	702,849	June 17	2806	662	99	2737
Electric meter.	G. L. Gowlland	706,047	Aug. 5	87	19	100	1134
Electric meters.	A. G. Davis	717,358	Dec. 30	5361	1165	101	3034
Electric motor	F. A. Pocock and C. W. Kennedy	694,075	Feb. 25	3558	785	98	1592
Electric motor	T. B. Hatch	694,639	Mar. 4	579	127	98	1835
Electric motor	O. F. Conklin and J. L. Milton	697,994	Apr. 22	2980	657	99	682
Electric motor	A. B. Holson	701,341	June 3	115	24	99	3132
Electric motor	H. Rowntree	702,155	June 10	1577	357	99	2451
Electric motor	J. H. Mason	703,144	June 24	3446	790	99	2870
Electric motor	A. B. Holson	706,317	Aug. 5	680	138	100	1243
Electric motor	G. H. Reynolds	710,716	Oct. 7	698	127	101	124
Electric motor	O. H. Pieper	712,717	Nov. 4	465	110	101	994
Electric motor and controlling means therefor.	R. Eickemeyer	700,310	May 20	2354	537	99	1691
Electric motor and controlling means therefor.	W. Küppers	699,193	May 6	117	30, 31	99	1199
Electric motor and dynamo-machine collectors.	F. A. Merrick and E. W. Stull	702,981	June 24	3137	722	99	2800
Electric motor control.	H. W. Leonard	704,915	Sept. 30	3726	840	100	2806
Electric motor control.	R. H. Read	695,118	Mar. 11	1502	334	98	2045
Electric motor controller	E. F. Dutton	696,017	Mar. 25	3137	707	98	2414
Electric motor controller	W. B. Potter	697,012	Apr. 8	1208	270	99	275
Electric motor controller	W. H. Chapman	707,300	Aug. 19	2484	558	100	1661
Electric motor controller	L. A. Tirrell	708,096	Sept. 2	175	41, 42	100	2017
Electric motor controller	F. A. Merrick and E. W. Stull	708,157	Sept. 2	292	70	100	2042
Electric motor controller	F. A. Merrick and E. W. Stull	708,158	Sept. 2	295	71	100	2043
Electric motor controller	E. W. Stull	709,182	Sept. 16	2259	514	100	2175
Electric motor controller	T. S. Perkins	713,678	Nov. 18	3359	525	101	1413
Electric motor controller	L. G. Nilson	714,921	Nov. 18	3412	670	101	1413
Electric motor controller	E. R. Carichoff	715,975	Dec. 16	2361	565	101	2402
Electric motor controller	H. B. Stuart	717,051	Dec. 30	4782	1036	101	2909
Electric motor.	M. W. Day	714,786	Dec. 2	259	53	101	1890
Electric motor-controlling apparatus	W. J. Richards	692,352	Feb. 4	237	57	98	848
Electric motor-controlling apparatus	F. F. Brush	692,779	Feb. 4	967	224	98	999
Electric motor-controlling apparatus	W. J. Richards	704,665	July 15	2413	522	100	320
Electric motor-controlling device	W. B. Potter	697,049	Apr. 15	2543	569	99	260
Electric motor coupling	F. E. Case	708,024	Sept. 2	40	10	100	1980
Electric motor for vehicles	H. G. Osburn	711,520	Oct. 21	2161	471	101	479
Electric motor or generator	J. A. Titzel, Sr.	710,541	Oct. 7	284	63	101	58
Electric motor power-transmitting device	H. S. Miller and G. C. Marx	703,942	July 1	1043	226	100	207
Electric motor regulation	O. H. and A. F. Pieper	704,099	July 8	1375	207	100	289

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Electric-motor speed-regulating means	B. G. Laume	702,657	June 17	2511	575	90	2603
Electric-motor-starting device	R. H. Read	697,016	Apr. 8	1319	272	99	377
Electric-motor-starting device	T. M. Pusey	710,882	Oct. 7	932	204	101	189
Electric-motor-supporting device	B. R. Van Kirk	712,981	Nov. 4	969	236	101	1095
Electric-motor switch mechanism	A. W. Schramm	691,187	Jan. 14	1522	1343	98	332
Electric motor. Variable-speed	A. G. Davis	713,861	Nov. 18	2696	1602	101	1484
Electric motors. Automatic controller for	N. A. Christensen	701,843	June 10	999	1222	99	2334
Electric motors. Automatic starter for	J. E. Putnam	699,566	May 6	819	193	99	1345
Electric motors. Controlling	M. W. Day	696,946	Apr. 8	1085	240	99	251
Electric motors. Controlling	J. C. Henry	708,960	Sept. 9	1786	412	100	3359
Electric motors. Controlling	J. C. Henry	708,961	Sept. 9	1790	412	100	2350
Electric motors. Controlling	H. W. Leonard	709,916	Sept. 30	3730	413	100	2807
Electric motors. Controlling	H. W. Buck	714,862	Dec. 2	437	94	101	1922
Electric motors. Controlling	M. W. Day	716,200	Dec. 16	3023	660	101	2500
Electric motors. Driving centrifugal or other machines by means of	G. Pott and R. Williamson	712,847	Nov. 4	723	167	101	1047
Electric motors. Means for regulating	A. W. Schramm	691,188	Jan. 14	1527	345	98	333
Electric motors. Means for regulating	R. Lundell	711,667	Oct. 21	2445	538	101	539
Electric motors. Means for regulating and protecting	R. Lundell	716,445	Dec. 23	3498	764	101	2612
Electric motors. Operating	J. Harris	712,673	Nov. 4	392	92	101	979
Electric motors or other electrical translating devices. Apparatus for controlling	G. T. Woods	690,809	Jan. 7	852	188	98	179
Electric motors or other electrical translating devices. Apparatus for controlling	G. T. Woods	690,810	Jan. 7	855	188	98	180
Electric motors or other electrical translating devices. Controlling	G. T. Woods	690,807	Jan. 7	849	187	98	178
Electric motors or other electrical translating devices. Controlling	G. T. Woods	690,808	Jan. 7	850	187	98	179
Electric motors. Protective operating device for	A. C. Eastwood	704,447	July 8	2010	437	100	423
Electric motors. Reversing-switch controller for	J. I. Ayer	715,235	Dec. 9	1125	242	101	2083
Electric or other motors. Means for controlling	E. R. Gill	694,369	Mar. 4	47	12	98	1721
Electric oscillator. Tuned	J. S. Stone	717,518	Dec. 31	5630	1224	101	3089
Electric pressure and current. Apparatus for indicating and recording	W. Thomson	696,117	Mar. 25	3346	755	98	2450
Electric protective device	W. P. Hardy	694,855	Mar. 4	997	221	98	1923
Electric recording instrument	W. C. Fish and F. P. Cox	717,376	Dec. 30	5390	1172	101	3040
Electric regulator	A. R. Everest	706,039	Aug. 5	73	16	100	1462
Electric regulator	C. P. Steinmetz	710,131	Dec. 16	2871	632	101	2138
Electric roller	C. J. Marius	715,677	Dec. 9	1941	435	101	2251
Electric roller for massage and therapeutical purposes.	J. W. Gibbs	707,508	Aug. 19	2856	647	100	1739
Electric signal	C. Budke, Jr	692,423	Feb. 4	352	86	98	872
Electric signal	A. J. Haycox	705,583	July 29	4395	953	100	950
Electric signal and telephone system. Combined	O. P. and R. H. Yurgae. (Reissue)	12,056	Nov. 18	3215	719	101	1596
Electric signal. Automatic	F. E. Weinle	691,683	Jan. 21	2480	1556	98	551
Electric signal device	T. J. Hoover	699,841	May 13	1383	319	99	1473
Electric snap-switch	L. W. Downes	708,211	Sept. 2	401	93	100	2003
Electric-spark generator	J. Struthers	712,739	Nov. 4	501	118	101	1001
Electric sweating-robe.	A. Phillips	701,009	June 2	592	130	99	2232
Electric switch	E. R. Storm	690,479	Jan. 7	198	40	98	43
Electric switch	E. M. Hewlett	691,766	Jan. 28	2064	597	98	607
Electric switch	J. D. Clay and F. A. La Roche	692,427	Feb. 4	360	88	98	874
Electric switch	H. J. Cogswell	692,429	Feb. 4	364	89, 90	98	875
Electric switch	J. and J. Jones, Jr	693,275	Feb. 11	2000	435	98	1235
Electric switch	H. P. Ball and L. Wintner	693,636	Feb. 18	2705	597	98	1402
Electric switch	T. H. Brady	693,995	Feb. 25	3408	750	98	1592
Electric switch	R. J. Foley	694,977	Mar. 11	1236	271	98	1991
Electric switch	C. D. Haskins	695,150	Mar. 11	1566	347	98	2060
Electric switch	N. Marshall	696,179	Mar. 25	3482	780	98	2486
Electric switch	N. Marshall	696,180	Mar. 25	3484	780	98	2486
Electric switch	G. W. Hart	696,963	Apr. 8	1123	250	99	250
Electric switch	E. M. Hewlett	696,969	Apr. 8	1132	251	99	260
Electric switch	G. B. Painter	697,163	Apr. 8	1452	320	99	331
Electric switch	C. H. Higginson	701,725	June 3	805	178	99	2276
Electric switch	J. J. Flint	702,264	June 10	1938	441	99	2532
Electric switch	A. P. Anderson	703,515	July 1	254	59	100	51
Electric switch	W. B. Potter	705,137	July 22	3414	742	100	740
Electric switch	E. R. Carichoff	706,527	Aug. 12	1040	223	100	1340
Electric switch	F. A. Merrick	706,581	Aug. 12	1129	249	100	1983
Electric switch	H. P. Bailey	708,066	Sept. 2	11	3	100	1983
Electric switch	F. H. Headley	710,188	Sept. 30	4260	960	100	2919
Electric switch	F. H. Hill	710,270	Sept. 30	4408	998	100	2951
Electric switch	C. J. Doran	710,455	Oct. 7	103	23	101	23
Electric switch	T. Muller	711,246	Oct. 14	1640	353	101	356
Electric switch	N. Marshall	713,133	Nov. 11	1206	287	101	1174
Electric switch	G. H. Whitingham	714,593	Nov. 25	4117	911	101	1796
Electric switch	W. M. Brown	717,071	Dec. 23	3613	790	101	2636
Electric switch and spark-blow-out mechanism. Combined	J. R. Thompson	692,735	Feb. 4	4822	1045	101	2918
Electric switch. Automatic	C. F. Butte	692,005	Jan. 28	3093	695	98	693
Electric switch-operating device	A. J. McCullough	699,218	May 6	153	38	99	1307
Electric switch or cut-out	J. A. Heany	707,843	Aug. 26	3603	813	100	1905
Electric switch. Ratchet-operated	W. Kingsland	713,992	Nov. 18	2964	659	101	1541
Electric switches. Constructing	G. H. Hill	712,335	Nov. 4	144	35	101	927



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Electric switches. Independent operating means for	J. H. Spangler	690,787	Jan. 7	813	173	98	173
Electric switches or circuit-breakers. Tripping	J. D. Hilliard, Jr.	714,181	Nov. 25	3368	741	101	1645
Electric synchronous apparatus	W. M. Miner	702,452	June 17	2121	482	99	2582
Electric synchronous apparatus	W. M. Miner	702,453	June 17	2123	482	99	2582
Electric synchronous apparatus	W. M. Miner	702,454	June 17	2126	483	99	2582
Electric testing apparatus	P. E. Chapman	706,798	Aug. 12	1554	348	100	1451
Electric time-switch	W. J. Carter	690,833	Jan. 7	894	198	98	189
Electric time-switch	E. H. Wright	703,033	June 24	3226	743	99	2826
Electric time-switch	C. F. Heath	703,128	June 24	3416	784	99	2864
Electric time-switch	W. B. Coulter	711,198	Oct. 14	1560	335	101	339
Electric time-switch	M. R. Hutchison	712,134	Oct. 28	3373	740	101	746
Electric time-switch	M. Rush	713,500	Nov. 11	2625	454	101	1330
Electric time-switch	W. B. Coulter	716,869	Dec. 30	4426	960	101	2835
Electric time-switch. Automatic	H. K. Gardner	710,146	Sept. 30	4182	942	100	2902
Electric traction	B. Cruvellier	691,360	Jan. 21	1906	428	98	431
Electric traction. Electromechanical device for	E. Cantono	692,236	Feb. 4	36	8	98	806
Electric-traction system	C. M. J. (dit Claudius) Limb	691,473	Jan. 21	2099	470	98	472
Electric-transformer current-regulator	F. R. M. Cutcheon	693,841	Feb. 23	3079	679	98	1407
Electric transmission of power	E. M. Fraser	697,832	Apr. 15	2688	598	99	693
Electric-tube lighting	D. M. Moore	702,314	June 10	1836	419	99	2503
Electric-tube lighting	D. M. Moore	702,315	June 10	1839	420	99	2503
Electric-tube lighting	D. M. Moore	702,316	June 10	1844	420	99	2504
Electric-tube lighting	D. M. Moore	702,317	June 10	1846	421	99	2504
Electric-tube lighting	D. M. Moore	702,321	June 10	1857	423	99	2505
Electric vapor-lighter	B. E. Wilder	698,237	Apr. 22	2478	765	99	286
Electric-wave forms. Recording	E. J. Murphy	713,479	Nov. 11	1947	441	101	1311
Electric-wire conduit	E. D. and H. N. Speer	693,916	Feb. 25	3237	713	98	1528
Electric-wire conduit	R. W. Lyle	706,974	Aug. 12	1803	417	100	1513
Electric-wire pole	B. McFarren	709,554	Sept. 23	3033	676	100	2651
Electric wires and conduits. Outlet-box for	J. M. G. Fullman	690,381	May 6	475	112	99	1272
Electric wires. Device for stringing	J. W. Seaman	706,786	Aug. 12	1530	339	100	1445
Electric wires in buildings. Junction-box for	B. W. Allen	704,424	July 8	1963	427	100	413
Electric wires in buildings. Junction-box for	B. W. Allen	704,425	July 8	1964	427	100	413
Electric wires or cables. Conduit for	R. W. Lyle	702,602	June 17	2517	577	99	2664
Electric wires or cables. Conduit for	R. W. Lyle	702,603	June 17	2519	577	99	2664
Electric wires. Safety contact-interrupter for	G. Bellange	705,020	July 22	3170	684	100	602
Electric wires. Wall-plate or shield for	B. W. Allen	704,423	July 8	1962	426	100	413
Electrical apparatus	T. H. Brady	699,483	May 6	677	157	99	1316
Electrical apparatus	A. Tzaut	701,647	June 3	672	147	99	2249
Electrical apparatus. Circuit-closer for portable	W. Roche	704,113	July 8	1399	301	100	291
Electrical apparatus. Means for extinguishing arcs in	G. W. Partridge	700,809	May 27	3331	765	99	1912
Electrical apparatus. Means for ventilating cores for	J. D. Keiley	700,335	May 20	2401	548	99	1701
Electrical apparatus. Therapeutic	I. E. Shaffer	706,602	Aug. 12	1172	260	100	1369
Electrical circuits. Device for closing and interrupting	S. Gleizes	696,169	Mar. 25	3463	776	98	2483
Electrical circuits. Terminal box for protected	F. B. Cook	707,049	Aug. 12	1992	447	100	1540
Electrical condenser	G. F. Mansbridge	697,507	Apr. 15	2097	465	99	480
Electrical condensers. Manufacture of	J. Coates	691,600	Jan. 21	2323	522	98	518
Electrical condensers. Manufacture of	E. Thomson	691,675	Jan. 21	2347	523	98	518
Electrical conductor	E. Thomson	716,311	Dec. 16	3218	703	101	2538
Electrical conductors. Junction-sleeve for	T. J. Donovan and E. G. Alderson	695,863	Mar. 18	2841	645	98	2640
Electrical conductors. Manufacturing	L. W. Downes	709,001	Sept. 16	1881	432	100	2396
Electrical-conduit bushing	M. Maurer and W. J. Billings	710,488	Oct. 7	172	37	101	37
Electrical conduits. Outlet member for	R. M. Thomas	694,806	Mar. 4	903	201	98	1903
Electrical connecting-cord	C. H. McEvoy	692,890	Feb. 11	1222	270	98	1070
Electrical connector	G. B. Thomas	696,215	Mar. 23	3347	703	98	2169
Electrical connector	A. J. Wayman	704,670	July 15	2423	524	100	522
Electrical-control system	G. T. and L. Woods	697,767	Apr. 15	2370	573	99	573
Electrical controller	J. L. Schureman, Jr.	715,428	Dec. 9	1477	319	101	2157
Electrical-controller contact-arm	E. H. Wise	712,882	Nov. 4	786	182	101	1658
Electrical controlling apparatus	R. F. Piatt	702,152	June 10	1573	336	99	2450
Electrical device for the treatment of diseases	W. J. Gavigan	693,257	Feb. 11	1969	428	98	1229
Electrical distributor	C. J. Springer	693,355	Feb. 11	2148	471	98	1267
Electrical distribution	J. S. Stone	717,467	Dec. 30	5538	1207	101	3673
Electrical distribution	J. S. Stone	717,515	Dec. 30	5643	1224	101	3690
Electrical distribution for car-lighting purposes. System of	J. L. Creveling	706,165	Aug. 5	320	68	100	1182
Electrical distribution. Phase-modifier and system of	A. G. Davis	714,156	Nov. 25	3304	730	101	1634
Electrical-distribution system	E. B. W. Reichel	692,348	Feb. 4	232	56	98	846
Electrical-distribution system	J. S. Peck	695,944	Mar. 25	2994	677	98	2385
Electrical-distribution system	N. W. Storer	695,962	Mar. 25	3026	686	98	2391
Electrical-distribution system	J. L. Creveling	704,869	July 15	2784	602	100	596
Electrical-distribution system	J. L. Creveling	704,864	July 15	2788	603	100	596
Electrical-distribution system	J. L. Creveling	704,865	July 15	2791	603	100	597
Electrical-distribution system	C. P. Steinmetz	706,123	Aug. 5	220	46	100	1192
Electrical-distribution system	R. Fleming	706,544	Aug. 12	1069	235	100	1347
Electrical-distribution system	C. P. Steinmetz	706,697	Aug. 12	1179	261	100	1370
Electrical-distribution system	C. P. Steinmetz	706,698	Aug. 12	1181	262	100	1370
Electrical-distribution system	C. P. Steinmetz	706,699	Aug. 12	1183	262	100	1371
Electrical-distribution system	W. S. Moody	707,150	Aug. 19	2200	493	100	1691
Electrical-distribution system	A. D. Lunt	710,067	Sept. 30	4009	905	100	2467
Electrical-distribution system	C. P. Steinmetz and W. L. R. Emmet	710,081	Sept. 30	4043	911	100	2473
Electrical-distribution system	C. P. Steinmetz and W. L. R. Emmet	710,082	Sept. 30	4047	911	100	2474

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Electrical-distribution system	B. G. Lamme	710,158	Sept. 30	4205	948	100	2907
Electrical-distribution system	H. Edwards	712,080	Oct. 28	3391	701	101	713
Electrical-distribution system	H. F. T. Erben and A. F. Knight	712,082	Oct. 28	3391	702	101	713
Electrical-distribution system	C. P. Steinmetz	712,104	Oct. 28	3310	726	101	733
Electrical-distribution system	C. P. Steinmetz	712,464	Oct. 28	3908	867	101	870
Electrical-distribution system	C. P. Steinmetz	713,356	Nov. 11	1740	329	101	1271
Electrical-distribution system	M. O. Troy	713,729	Nov. 18	2435	544	101	1429
Electrical-distribution system	M. O. Troy	713,721	Nov. 18	2437	544	101	1429
Electrical-distribution system	M. O. Troy	714,118	Nov. 18	3207	708	101	1594
Electrical-distribution system	M. O. Troy	714,119	Nov. 18	3209	708	101	1595
Electrical-distribution system	A. G. Davis	714,154	Nov. 25	3299	730	101	1682
Electrical-distribution system	A. G. Davis	714,155	Nov. 25	3302	730	101	1683
Electrical-distribution system	C. P. Steinmetz	716,305	Dec. 16	3206	701	101	2587
Electrical-distribution system	C. P. Steinmetz	717,398	Dec. 30	5257	1142	101	3012
Electrical-distribution system	C. P. Steinmetz	717,364	Dec. 30	5551	1246	101	3072
Electrical energy. Means for transmitting	J. E. Woodbridge	697,123	Apr. 8	1241	319	99	1416
Electrical flush switch	W. J. Newton	702,889	June 24	3150	724	99	2312
Electrical furnace for treating highly-refractory substances.	H. Maxim	704,649	July 15	2325	517	100	584
Electrical generating-machine	J. N. Phifer	692,901	Feb. 11	1245	276	98	1081
Electrical generation and distribution	W. Stanley and J. F. Kelly	712,614	Nov. 4	292	69	101	900
Electrical hood or reflector and clamp for same	L. L. Terhune	701,421	June 3	246	55	99	2159
Electrical indicator	H. S. Tuttle	709,386	Sept. 23	3494	758	100	2745
Electrical instruments. Shunt for	M. A. Rybinski	696,757	Apr. 1	1887	156	99	147
Electrical knife-switch	L. J. Smith and W. F. Bossert	698,417	Apr. 22	3777	839	99	848
Electrical lighting and power system	M. Moskowitz	706,085	Aug. 5	159	33	100	1149
Electrical machine	T. B. Hatch	705,238	July 22	3642	788	100	787
Electrical-machine collector-ring	R. Siegfried	702,369	June 17	2405	549	99	2642
Electrical machines and plants. Protecting apparatus for	P. Rudhardt	703,153	June 24	3459	792	99	2870
Electrical machines. Winding for	B. G. Lamme	692,622	Jan. 28	3127	704	98	690
Electrical outlet-box	E. W. Müller	699,215	May 6	151	38	99	1206
Electrical outlet-box	H. Krantz	700,340	May 20	2415	551	99	1704
Electrical-panel-board attachment	E. W. Müller	705,424	July 22	4031	874	100	866
Electrical position-indicator	A. S. Hubbard	708,478	Sept. 2	336	135	100	2155
Electrical press	O. Kammerer	696,053	Mar. 25	3209	724	98	2428
Electrical protector	C. A. Rolfe	701,326	June 3	197	43	99	2148
Electrical protector set	F. B. Cook	707,050	Aug. 12	1996	448	100	1542
Electrical receptacle	P. H. Fielding	714,290	Nov. 25	3585	788	101	1689
Electrical receptacle	P. H. Fielding	714,291	Nov. 25	3587	789	101	1689
Electrical-service wires. Overhead conduit for	F. C. Locke	714,718	Dec. 2	130	26	101	1864
Electrical sparking device	A. C. Brown	703,759	July 1	708	157	100	142
Electrical storms. Apparatus for demonstrating the phenomena of	G. J. and D. C. Moore	700,536	May 20	2789	637	99	1781
Electrical switch	C. J. Kintner	691,780	Jan. 28	2691	604	98	614
Electrical switch	R. L. Border	695,440	Mar. 18	2065	465	98	2182
Electrical switch	E. G. Kastenhuber	696,447	Apr. 1	99	23	99	26
Electrical switch	L. L. Elden	707,505	Aug. 19	2849	615	100	1738
Electrical switch	C. D. Platt	715,699	Dec. 9	1958	438	101	2354
Electrical switch	A. H. Gibbings	716,406	Dec. 23	3424	747	101	2596
Electrical switch	H. and R. Lomax and J. Tomlinson	717,327	Dec. 30	5143	1115	101	2988
Electrical switch mechanism	H. Krantz	693,550	Feb. 18	2526	556	98	1365
Electrical switch or cut-off	P. Kennedy	706,759	Aug. 12	1480	328	100	1435
Electrical switches operated by electromagnets. Controlling	F. Bourne	706,011	Aug. 5	11	4	100	1119
Electrical switchboards. Connecting-plug for	A. T. M. Thomson	705,161	July 22	3453	752	100	748
Electrical tap-socket	E. B. Meyrowitz	699,205	May 6	136	34, 35	99	1203
Electrical traction system	W. S. Hill	711,107	Oct. 14	1356	295	101	295
Electrical-transformer winding	J. S. Peck	712,584	Nov. 4	237	58	101	947
Electrical translating devices. Controlling the energy delivered to	H. W. Leonard	709,714	Sept. 23	3302	742	100	2707
Electrical transmission. Composite system of	F. Bedell	715,537	Dec. 9	1685	368	101	2217
Electrical-transmission system	F. Bedell	695,529	Mar. 18	2228	504	98	2195
Electrical transportation system	H. F. Freed	704,019	July 8	1194	260	100	253
Electrically-controlled switch	W. L. R. Emmet	706,540	Aug. 12	1062	234	100	1345
Electrically-heated apparatus	V. Monath	693,144	Feb. 11	1725	378	98	1179
Electrically-operated switch	E. V. R. Kitchum	698,563	Mar. 18	2958	522	98	2291
Electrically-protected structure.	H. M. Sutton, W. L. Steele, and M. Coerver.	708,093	Sept. 2	169	39	100	2016
Electrically winding up driving-springs. Apparatus for	H. Aron	700,597	May 20	2884	662	99	1801
Electrician's tool	I. W. Heysinger	708,639	Sept. 9	1153	260	100	2226
Electricity. Chemical generator of.	E. L. Anderson	706,631	Aug. 12	1219	270	100	1378
Electricity. Means for dissipating static	R. O. Vandercook	705,490	July 22	4153	904	100	889
Electricity-meter	E. G. Holm	702,213	June 10	1681	379	99	2471
Electricity-meter	A. Wright	702,844	June 17	2855	659	99	2735
Electricity-meter	A. Wright	702,848	June 17	2864	661	99	2737
Electricity-meter	P. Rouget	717,123	Dec. 30	4909	1063	101	2336
Electricity-meter. Direct or continuous current.	A. Wright	702,845	June 17	2859	670	99	2735
Electricity-meter. Electrolytic	O. O. Easton	698,216	Feb. 11	1906	413	98	5251
Electricity-meter of the electrolytic type	A. Wright	702,850	June 17	2868	662	99	2737
Electricity-metering	A. Wright	702,847	June 17	2863	661	99	2736
Electricity on running cars. Device for generating.	R. Pintsch	704,573	July 15	2267	491	100	489
Electricity-supply purposes. Cable-terminal box for	G. Wilkinson	705,802	July 29	4795	1041	100	1031
Electrochemical apparatus.	C. C. Clark	706,529	Aug. 19	1045	230	100	1342
Electrochemical generator	H. S. Amwake	702,760	June 17	2705	621	99	2703
Electrochemical generator	H. S. Amwake. (Reissue)	12,019	Aug. 12	2043	456	100	1551
Electrochemical generator	H. S. Amwake	707,372	Aug. 19	2614	590	100	1689



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.
				Spec	Dr &	
Electrode	K. A. Wilde	700,869	May 27	3498	790	99 1933
Electrode. Accumulator	R. Alexander-Katz	715,332	Dec. 9	1308	1279	101 2123
Electrode. Arc-lamp	R. Hopfelt	700,495	May 20	2717	621	99 1766
Electrode. Arc-lamp	R. Hopfelt	700,649	May 20	2976	683	99 1821
Electrode. Arc-lamp	H. Bremer	710,943	Oct. 14	1027	101	101 225
Electrode. Battery	T. A. Edison	704,305	July 8	1746	381	100 367
Electrode. Electric accumulator	V. Cheval and J. Lindeman	704,859	July 15	2778	601	100 595
Electrode envelop. Battery	E. A. Sperry	696,209	Mar. 25	3534	791	98 2496
Electrode for accumulators with constant electrolyte. Positive	E. W. Jungner	692,298	Feb. 4	141	98	98 827
Electrode for arc-lamps. Composite	A. Blondel	714,277	Nov. 25	3550	781	101 1682
Electrode for electric accumulators	E. J. Clark	700,898	May 27	3495	801	99 1945
Electrode for purifying liquids by electrolysis	W. R. Chipman	694,933	Mar. 4	1145	98	98 1954
Electrode for storage batteries	C. W. Kennedy	706,568	Aug. 12	1104	245	100 1354
Electrode. Secondary-battery	A. H. Bainville	696,157	Mar. 25	3440	772	99 1478
Electrode-separator. Battery	A. W. Harrison	708,708	Sept. 9	1382	293	100 2252
Electrode. Storage-battery	F. H. Long	701,389	June 3	188	41	99 2146
Electrode. Storage-battery	H. Woodward	707,666	Aug. 26	3207	719	101 1828
Electrodes. Forming secondary-battery	W. Morrison	701,915	June 10	1130	258	99 2360
Electrodes. Graphitizing	E. G. Acheson	702,758	June 17	2701	621	99 2703
Electrodes. Manufacture of carbon	C. M. Hall	705,076	July 22	3269	708	100 712
Electrodeposition. Forming bodies by	C. Steinweg	693,918	Feb. 25	3241	714	98 1528
Electrolysis. Apparatus for fused-bath	C. W. Roepper and G. P. Scholl	699,851	May 13	1406	325	99 1477
Electrolytic apparatus	F. McDonald	697,157	Apr. 8	1455	327	99 329
Electrolytic apparatus	C. J. Reed	699,415	May 6	552	126	99 1287
Electrolytic apparatus	J. Matthews and W. Davies	715,281	Dec. 9	1198	256	101 2100
Electrolytic apparatus for manufacturing certain salts suitable for the subsequent production of chlorine	G. J. Atkins	699,907	May 13	1521	350	99 1503
Electrolytic cell	E. A. Le Sueur	692,531	Feb. 4	562	132	98 913
Electrolytic cell	A. Sommer	707,804	Aug. 26	3519	794	100 1890
Electrolytic cell	A. E. Truesdell	712,218	Oct. 28	3513	770	101 774
Electrolytic cell	M. C. Rypinski	714,400	Nov. 25	3772	883	101 1725
Electrolytic cell and electrode therefor	A. A. Vogelsang	703,861	July 1	894	197	100 179
Electrolytic converter	F. H. Long	699,964	May 13	1630	374	99 1525
Electrolytic process	J. Meurant	694,658	Mar. 4	617	98	98 1843
Electrolytic solution	O. Meyer	691,158	Jan. 14	1468	98	98 320
Electromagnet	A. Stromberg	715,434	Dec. 9	1486	321	101 2159
Electromagnet apparatus	D. Perret	694,778	Mar. 4	857	189	98 1893
Electromagnet. Polarized	L. Cerebotani	714,452	Nov. 25	3867	854	101 1744
Electromagnetic apparatus	F. B. Cook	695,539	Mar. 18	3253	509	98 2220
Electromagnetic apparatus. Polarized	F. B. Cook	699,660	May 13	1023	238	99 1390
Electromagnetic brake	W. T. Pember	713,340	Nov. 11	1704	385	101 1262
Electromagnetic brake	F. Haber	715,058	Dec. 2	790	168	101 1996
Electromagnetic device	J. S. Hodges	714,904	Dec. 2	535	114	101 1942
Electromagnetic engine	P. B. Watson	695,253	Mar. 11	1750	387	98 2088
Electromagnetic switch	F. Bourne	706,012	Aug. 5	15	4	100 1119
Electromagnetic switch	J. L. Creveling	707,763	Aug. 26	3425	771	100 1871
Electromagnetic tool	R. R. Nicely	713,453	Nov. 11	1960	443	101 1316
Electromedical apparatus	L. Petich	712,715	Nov. 4	460	109	101 993
Electromedical appliance	J. O. Fowler, Jr	708,216	Sept. 2	410	95	100 2465
Electromedical appliance	J. H. and A. T. Kiegl	708,365	Sept. 2	664	149	100 2115
Electromotive force. Means for generating counter	H. H. Dow	707,835	Aug. 26	3586	809	100 1962
Electromotive force. Regulation of rotary-converter	B. G. Lamme	692,021	Jan. 28	3125	704	98 690
Electroplating apparatus	T. F. Taylor	703,623	July 1	446	103	100 87
Electrotherapeutic apparatus	G. W. Euker	701,185	May 27	4015	923	99 2055
Electrotherapeutic battery	T. J. Dunn	707,502	Aug. 26	2982	673	100 1781
Electrotype-base	J. W. Cornelius	715,245	Dec. 9	1140	244	101 2087
Electrotype-shaving machine	J. Wesel	708,435	Sept. 2	777	175	100 2138
Electrotyping. Machine for washing matrices preparatory to	C. M. Oliver	713,671	Nov. 18	2340	522	101 1409
Elevating and controlling mechanism	J. F. Hardy	694,637	Mar. 4	575	126	98 1834
Elevating and controlling mechanism	J. F. Hardy	715,476	Dec. 9	1564	1339	101 2173
Elevating and dumping apparatus	R. Hollopeter	708,144	Sept. 2	271	65	100 2037
Elevator:						
See Automatic elevator.	Mining-elevator.					
Box-elevator.	Ore-elevator.					
Cotton-elevator.	Pneumatic elevator.					
Electric elevator.	Raisin or fruit elevator.					
Grain-elevator.	Safety-elevator.					
Hay-elevator.	Tailings-elevator.					
Hod-elevator.	Water-elevator.					
Inclined elevator.						
Elevator	E. R. Gill	690,944	Jan. 14	1083	244	98 242
Elevator	F. E. Herdman	692,286	Feb. 4	125	29, 30	98 824
Elevator	F. Heizer	694,964	Mar. 11	1211	134	98 1985
Elevator	W. J. O'Byrne	695,334	Mar. 11	1893	421	98 2125
Elevator	C. W. Baldwin	696,706	Apr. 1	593	133	99 129
Elevator	A. B. Roney	698,738	Apr. 29	4446	982	99 1007
Elevator	J. Rice	698,857	Apr. 29	4712	1038	99 1068
Elevator	E. R. Gill	701,336	June 3	85	18	99 2126
Elevator	M. Hanford	703,127	June 24	3413	788	99 2863
Elevator	S. B. Peck	705,230	July 22	3743	813	100 806

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Elevator.....	E. R. Gill.....	705,338	July 22	3879	889	100	884
Elevator.....	E. R. Gill.....	707,899	Aug. 26	3593	812	100	1903
Elevator.....	L. W. Dexter.....	708,626	Sept. 9	1119	251 252	100	2219
Elevator.....	M. A. Clennam.....	708,755	Sept. 9	1367	312 313	100	2272
Elevator.....	F. Pulwitt.....	708,830	Sept. 9	1599	314 352	100	2308
Elevator.....	C. L. Baldwin and O. A. Green.....	709,732	Sept. 23	3329	740 750	100	2713
Elevator.....	C. E. Ennes.....	709,974	Sept. 30	3857	868	100	2884
Elevator.....	J. Rice.....	710,007	Sept. 30	3905	881	100	2844
Elevator.....	J. D. Ihlder.....	710,581	Oct. 7	340	75, 76	101	71
Elevator.....	S. R. Harris.....	710,686	Oct. 7	553	115	101	113
Elevator.....	C. W. Kirsch.....	711,726	Oct. 21	2557	561 562	101	563
Elevator.....	V. W. Mason, Jr.....	711,993	Oct. 28	3105	660	101	694
Elevator.....	F. T. Ellithorpe.....	715,648	Dec. 9	1876	416 417	101	2236
Elevator.....	J. J. Slevin.....	716,949	Dec. 30	4571	992 993	101	2864
Elevator.....	J. S. Slevin.....	716,950	Dec. 30	4573	993	101	2865
Elevator and carrier.....	J. M. Applegate.....	694,818	Mar. 4	920	205	98	1906
Elevator apparatus.....	C. Kötting.....	691,276	Jan. 14	1689	384	98	367
Elevator-bin.....	J. A. Jamieson.....	704,805	July 15	2682	579	100	573
Elevator boot or housing. Pneumatic.....	C. Bradford.....	703,983	July 8	1134	245	100	240
Elevator-boots. Removable tray for.....	J. M. Lemmon.....	697,502	Apr. 15	2092	464	99	479
Elevator-car braking mechanism.....	O. M. Fritsch.....	691,617	Jan. 21	3358	531	98	524
Elevator cars or lifts. Safety-brake for.....	W. G. Menzies.....	717,240	Dec. 30	5163	1113	101	2992
Elevator-cars. Regulator for controlling the descent of.....	A. Gallinat.....	703,246	June 24	3630	834	99	2906
Elevator-closing device.....	W. A. Robinson.....	698,444	Feb. 18	2314	508	98	1322
Elevator-controller.....	F. K. Fassett.....	698,827	Apr. 29	4645	1024 1025	99	1052
Elevator controlling apparatus. Electric.....	A. Sundh.....	706,125	Aug. 5	226	48	100	1163
Elevator controlling system. Electric.....	J. D. Ihlder.....	704,337	July 8	1804	394	100	378
Elevator controlling system. Electric.....	J. D. Ihlder.....	704,338	July 8	1813	394	100	381
Elevator-door.....	J. Mathews.....	690,749	Jan. 7	746	166	98	157
Elevator-door-operating device.....	H. Bitner.....	699,363	May 6	442	101 102	99	1265
Elevator-door-operating mechanism.....	C. B. Gilmore.....	699,305	May 6	331	76, 77	99	1241
Elevator-door-operating mechanism.....	J. L. Kail.....	699,329	May 6	377	88, 89	99	1251
Elevator-door-operating mechanism.....	H. Rowntree.....	700,375	May 20	2484	569 570	99	1718
Elevator doors. Automatic locking mechanism for sidewalk or other.....	P. H. Jackson.....	704,746	July 15	2567	553	100	551
Elevator-doors. Means for operating.....	C. W. Kirsch.....	692,306	Feb. 4	153	36	98	830
Elevator for cinder-pits, &c.....	W. Robertson.....	696,491	Apr. 1	174	42, 43	99	42
Elevator for granular substances.....	P. Bédarrides.....	692,106	Jan. 28	3282	742 743	98	730
Elevator-gate. Automatic.....	I. S. McNaught.....	710,601	Oct. 7	390	82	101	78
Elevator-gate. Self-closing.....	G. E. Anderson.....	698,385	Apr. 22	3722	823	99	837
Elevator-gear.....	W. M. Bainbridge.....	693,212	Feb. 11	1901	412	98	1214
Elevator-guard.....	I. L. Fonda.....	702,095	June 10	1476	332	99	2429
Elevator-hatchways. Safety doorway for.....	J. H. Johnson.....	713,225	Nov. 11	1444	327 328	101	1210
Elevator hoisting mechanism.....	H. Rowntree.....	698,412	Apr. 22	3768	832	99	846
Elevator-hoisting motors. Controlling mechanism for.....	H. Rowntree.....	698,908	Feb. 25	3223	710	98	1525
Elevator-housing. Door for pneumatic.....	C. Bradford.....	714,662	Dec. 2	15	3	101	1840
Elevator locking device.....	M. R. Mucklé, Jr.....	702,373	June 10	1954	444	99	2526
Elevator-operating mechanism.....	W. W. Hubbard.....	706,826	Aug. 12	1602	360	100	1462
Elevator-operating mechanism.....	H. M. Churchill and L. Christiansen.....	714,147	Nov. 25	3263	719	101	1623
Elevator or hoist controlling apparatus.....	A. Sundh.....	691,824	Jan. 28	2776	635	98	639
Elevator or storage-bin construction.....	W. S. Cleveland and B. H. Stahr.....	714,363	Nov. 25	3709	817	101	1713
Elevator or storage-house construction.....	S. H. Tromanhauser.....	702,118	June 10	1509	340 341	99	2436
Elevator safety appliance.....	G. Hall.....	691,310	Jan. 14	1774	403 404	98	385
Elevator safety appliance.....	G. M. Moore.....	698,041	Apr. 22	3075	677	99	702
Elevator safety appliance.....	J. E. Ericsson.....	699,375	May 6	464	108 109	99	1270
Elevator safety appliance.....	S. B. Trapp.....	700,458	May 20	2631	602 603	99	1748
Elevator safety attachment.....	G. F. Joyce.....	693,027	Feb. 11	1481	324	98	1131
Elevator safety attachment.....	G. Donnelly.....	696,726	Apr. 1	628	141	99	136
Elevator safety attachment.....	W. A. Forman.....	699,511	May 6	720	168	99	1325
Elevator safety device.....	H. Rowntree.....	693,307	Feb. 25	2220	720	98	1524
Elevator safety device.....	W. H. Wilsey.....	693,936	Feb. 25	3276	721	98	1535
Elevator safety device.....	W. H. Wilsey.....	704,468	July 8	2057	446	100	432
Elevator safety device.....	S. D. Strohman.....	705,479	July 22	4123	897 898	100	884
Elevator safety device.....	S. D. Strohman.....	705,480	July 22	4128	898	100	885
Elevator safety device.....	R. C. Fleming.....	707,311	Aug. 19	2508	564	100	1665
Elevator safety device.....	A. W. Leach.....	709,494	Sept. 23	2913	650	100	2627
Elevator safety device.....	J. C. Smith.....	713,705	Nov. 18	2406	537	101	1422
Elevator safety device.....	R. C. Smith.....	713,706	Nov. 18	2409	537 538	101	1423
Elevator safety device.....	R. C. Smith.....	713,707	Nov. 18	2413	538	101	1424
Elevator safety device.....	A. Tischer.....	713,718	Nov. 18	2431	543 544	101	1428
Elevator safety-stop.....	A. Cowperthwait.....	703,548	July 1	313	71	100	63
Elevator safety-stop.....	W. Fehler.....	707,407	Aug. 19	2682	605	100	1702
Elevator signal device.....	S. D. Collett.....	700,619	May 20	2922	673	99	1809
Elevator-signal. Electric.....	L. K. Curlett.....	707,305	Aug. 19	2495	560	100	1664



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Elevator-stop	E. C. Edwards.	706,644	Aug. 12	1246	275	100	1386
Elevator-stop	L. E. Prescott	716,473	Dec. 23	3553	776	101	2023
Elevator system. Electric	J. D. Ihlder	697,547	Apr. 15	2716	694	99	660
Elevator valve mechanism. Hydraulic.	H. F. Witte	700,877	May 27	3451	703	99	1966
Elevator valves. Slow-closing device for hydraulic.	L. H. Harriman	701,265	May 27	4165	957	99	2083
Elevator well-door	W. A. Cross	714,153	Nov. 25	3297	729	101	1632
Elevators. Automatic control system for	B. N. Jones	694,158	Feb. 11	2576	818	98	1632
Elevators. Automatic slack-cable stop mechanism for power.	G. E. Anderson	696,221	Mar. 25	3559	797	98	2501
Elevators. Brake for motor-shafts of	E. W. Moon	707,442	Aug. 19	2744	621	100	1715
Elevators by single push-button system. Electric operation of	J. D. Ihlder	710,914	Oct. 7	967	213	101	197
Elevators. Driving-chain for continuous	W. H. Aston	710,934	Oct. 14	1013	224	101	223
Elevators. Electropneumatic control system for	A. Sundh	693,184	Feb. 11	1827	398	98	1198
Elevators or the like. Safety suspending apparatus for	R. Hainsworth	707,410	Aug. 19	2688	607	100	1704
Ellipsograph	O. H. Bonner	695,857	Mar. 18	2832	643	98	2338
Ellipsograph	A. E. Hotchkiss	696,046	Mar. 25	3191	720	98	2426
Ellipsograph	D. L. Gregory	707,580	Aug. 26	3026	681	100	1780
Ellipsograph	G. W. Sherman	715,883	Dec. 16	2380	528	101	2363
Ellipsograph	E. N. Dart	717,082	Dec. 30	4841	1049	101	2922
Elliptical frames. Machine for forming	C. E. Sandstrom	701,624	June 3	620	136	99	2238
Elliptical frames. Machine for forming	C. E. Sandstrom	701,625	June 3	628	138	99	2240
Elliptical spring	C. A. Miller	697,865	Apr. 15	2763	612	99	620
Elliptical spring	H. C. Swan	702,357	June 10	1745	395	99	2484
Embalming and cooling board.	J. A. Turney and E. F. O'Sullivan	702,511	June 17	2236	509	99	2607
Embalming apparatus.	A. H. Grant	711,334	Oct. 14	1914	417	101	414
Embossing and printing machine.	P. V. Avril	690,832	Jan. 7	877	193	98	185
Embossing and printing mechanism	C. E. Maas	698,034	Apr. 22	3063	674	99	699
Embossing-machine	F. J. Albrecht	690,816	Jan. 7	868	191	98	183
Embossing-machine	F. H. Bancroft	693,362	Feb. 18	2164	476	98	1290
Embossing-machine	I. Clapper	699,149	May 6	42	12	99	1185
Embossing-machine	I. Clapper	702,383	June 10	1790	402	99	2491
Embossing-machine	H. Rice	705,297	July 22	3756	815	100	2110
Embossing-machine	F. K. Russell	709,432	Sept. 16	2736	614	100	2577
Embossing-press	S. Curtis	695,542	Mar. 18	2257	510	98	2230
Embossing-press	A. Telschow	716,144	Dec. 16	2897	637	101	2473
Embossing-press driving mechanism	C. D. Blackhall	712,644	Nov. 4	346	80	101	970
Embroidering-machine	D. Nadel	697,269	Apr. 8	1652	371	99	371
Embroidering-machine	A. and J. B. Bastie	714,129	Nov. 25	3230	713	101	1017
Embroidering-machine	A. Laubscher	716,338	Dec. 16	3274	715	101	2550
Embroidering-machine pattern mechanism.	D. Nadel	697,270	Apr. 8	1654	371	99	372
Embroidering-machine pattern mechanism	D. Nadel	714,317	Dec. 2	323	72	101	1004
Embroidery-frame	N. G. Vosler	699,263	May 6	249	57	99	1225
Embroidery frame and holder.	J. H. Post	705,335	Aug. 19	2582	583	100	1681
Embroidery-hoop holder	M. F. Smith	698,572	Apr. 29	4051	806	99	920
Embroidery or ornamental-stitch machine. Automatic	W. N. Parkes	693,666	Feb. 18	2750	606	98	1411
Embroidery-seam	C. E. Bentley	696,540	Apr. 1	269	62	99	61
Embroidery-seam	C. E. Bentley	696,541	Apr. 1	270	62	99	61
Emergency-brake	C. Vogel	707,465	Aug. 19	2780	630	100	1723
Emergency-brake	W. W. Hopkins	708,477	Sept. 2	854	195	100	2154
Emergency-brake	W. W. Hopkins	708,885	Sept. 9	1649	379	100	2331
Emergency-brake	A. L. von Steuben	713,357	Nov. 11	1742	392	101	1281
Emery grinder	N. Cornfield	710,098	Sept. 30	4083	921	100	2881
Emery-wheels. Apparatus for wetting.	E. R. Hyde	707,429	Aug. 19	2709	614	100	1708
Enamel-sifting apparatus	C. H. Zwermann	707,430	Aug. 19	2825	639	100	1732
Enamels and glazings. Manufacture of white and light-colored	R. Rickmann	716,106	Dec. 16	2830	681	101	2460
Enameled metal plates. Manufacture of	D. Wieser	709,530	Sept. 23	2997	698	100	2644
Enameling baths or other metal objects. Machine for mechanically	P. Dupont	710,443	Oct. 7	80	18	101	19
Enameling-fork for bath-tubs	E. Dithridge	700,021	May 13	1722	396	99	1542
Enameling metal ware	W. Jankowsky	691,298	Jan. 14	1674	381	98	365
Enameling metal ware	G. W. Ketcham	708,363	Sept. 2	661	190	100	2115
End-board and boot for wagons. Combined	C. Fisher	701,320	June 3	75	15	99	214
End-board for farm-wagons	C. S. Morse	706,434	Aug. 5	885	191	100	1294
End-board-securing attachment. Wagon	W. L. Sterling	709,123	Sept. 16	2132	480	100	2450
End-gate	F. L. Wheatley and S. Steen	691,031	Jan. 14	1259	285	98	277
End-gate	J. Wilcox	692,359	Feb. 4	624	147	98	925
End-gate	C. F. Hupfer	696,340	Mar. 25	3809	849	98	2554
End-gate	J. F. White	713,262	Nov. 11	1535	347	101	1227
End-gate and fastening therefor	L. F. Fredericks	702,053	June 10	1410	316	99	2416
End-gate and shoveling-board. Wagon	D. K. Wier	698,604	Apr. 29	4152	913	99	941
End-gate fastener	W. B. and E. A. Nichols and F. X. Schad.	691,480	Jan. 21	2109	473	98	473
End-gate fastener	A. A. Kellogg	700,143	May 13	1981	455	99	1508
End-gate for manure-spreader or similar beds.	C. L. V. Kinney	696,643	Apr. 1	451	105	99	97
End-gate hanger. Wagon	F. M. Sturgis	715,174	Dec. 2	1001	217	101	2041
End-gate lock	F. N. Bressler	715,966	Dec. 16	2541	561	101	2889
End-gate lock. Wagon	C. S. Crow	703,550	July 1	316	71	100	64
End-gate-rod fastener	W. A. Day	696,899	Apr. 1	973	217	99	296
End-gate-securing rod	H. M. McGrew	711,336	Oct. 14	1817	394	101	394
End-gate. Wagon	N. Hon	701,884	June 10	1078	244	99	2349
End-gate. Wagon	G. S. Coover	705,385	July 22	3959	858	100	850
End-gate. Wagon	C. Fisher	712,284	Oct. 28	3626	792	101	797

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
End-play device for rotary machines	H. Geisenhöner	716,216	Dec. 16	3083	667	101	2506
Endless-belt feed or carrying apparatus	B. M. Bishop	700,474	May 20	2070	611	99	1755
Endless carrier	T. X. Jones	713,446	Nov. 11	1888	428	101	1301
Endless-chain reel	J. M. Dunahoo	704,445	July 8	2007	436	100	492
Engine:							
See Air and explosive engine.	Hydrocarbon-engine.						
Beating-engine.	Impact-engine.						
Blowing-engine.	Internal-combustion engine.						
Carding-engine.	Locomotive-engine.						
Compound engine.	Molding-machine engine.						
Compound or multiple-cylinder engine.	Motive-power engine.						
Dental engine.	Motor-engine.						
Direct-acting engine.	Multiple-cylinder engine.						
Drill-engine.	Multiple-piston engine.						
Electromagnetic engine.	Oil-engine.						
Explosion-engine.	Oil-vapor engine.						
Explosive-engine.	Portable engine.						
Explosive-vapor-engine.	Pressure-engine.						
Fire-engine.	Pulp-engine.						
Fluid-pressure engine.	Pulp-refining engine.						
Gas-engine.	Pumping-engine.						
Gas and steam convertible engine.	Reciprocating engine.						
Gas and steam engine.	Refining-engine.						
Gas, gasoline, or inflammable-vapor engine.	Rock-drilling engine.						
Gas impact-engine.	Rotary engine.						
Gas or oil engine.	Rotary expansion-engine.						
Gas or vapor engine.	Rotary explosive-engine.						
Gasoline-engine.	Rotary fluid-engine.						
Gear-cutting engine.	Rotary steam-engine.						
Hoisting-engine.	Rotating-piston engine.						
Hot-air and gas engine.	Steam-engine.						
Hydraulic engine.	Steam explosive-engine.						
	Steam or fluid-pressure engine.						
	Telescopic compound engine.						
	Toy engine.						
	Traction-engine.						
	Turbine engine.						
	Vehicle-engine.						
	Wind-engine.						
	Winding-engine.						
Engine	J. C. Blevney	690,511	Jan. 7	278	56	98	60
Engine	W. Scantlebury, Sr.	691,005	Jan. 14	1206	273	98	267
Engine	H. H. Buffum	693,782	Feb. 18	2058	652	98	1454
Engine	A. A. and W. L. Darby	693,798	Mar. 18	2728	622	98	2316
Engine	H. N. Motsinger	695,824	Mar. 18	2772	632	98	2325
Engine	F. H. Sleeper	696,766	Apr. 1	707	159	99	151
Engine	F. H. Sleeper	696,767	Apr. 1	710	160	99	151
Engine	F. H. Sleeper	696,768	Apr. 1	713	160	99	152
Engine	W. D. Linscott	697,346	Apr. 8	1780	399	99	398
Engine	J. Brautigam and P. Hoelzlein	699,141	May 6	27	8	99	1182
Engine	L. Richner	699,241	May 6	196	46, 47	99	1214
Engine	G. E. Whitney	699,395	May 13	1680	386	99	1333
Engine	G. De Camp and C. A. Haas	703,557	July 1	326	74	100	66
Engine	C. H. Benton. (Reissue)	12,009	July 15	3136	678	100	696
Engine	V. L. Rice	705,145	July 22	3428	744	100	744
Engine	S. H. Short	706,120	Aug. 5	216	45	100	1161
Engine	W. G. Cowan, A. Jewett, and J. G. Wardell	707,928	Aug. 26	3567	806	100	1899
Engine	T. Conlin	707,904	Aug. 26	3718	834	100	1928
Engine	T. Deakin	708,697	Sept. 9	1256	287	100	2247
Engine	W. A. Bole	710,136	Sept. 30	4162	998	100	2898
Engine	J. P. Magney	713,320	Nov. 11	1674	376	101	1256
Engine	W. F. Tosch	715,709	Dec. 9	1997	447	101	2261
Engine	J. W. Neil	716,463	Dec. 23	3533	773	101	2620
Engine	T. W. Johnston	716,900	Dec. 30	4489	973	101	2848
Engine	E. E. Thomas	717,136	Dec. 30	4939	1071	101	2942
Engine	O. B. Nestius	717,445	Dec. 30	5520	1199	101	3065
Engine and car draft-rigging.	E. C. Washburn	705,169	July 22	3468	754	100	751
Engine and driving-gear support for steam-wagons.	P. H. White	717,517	Dec. 30	5646	1225	101	3091
Engine attachment	V. Z. Caracristi	708,023	Sept. 2	37	9	100	1988
Engine attachment, Rotary	C. H. Hill	717,001	Dec. 30	4695	1018	101	2890
Engine attachment, Traction	D. W. Combs	704,736	July 15	2540	549	100	546
Engine-bearing and adjusting means therefor	C. Robinson	691,490	Jan. 21	2130	477	98	478
Engine-bearing support	C. L. Barker	712,895	Nov. 4	814	189	101	1064
Engine-boller	G. E. Hesse	696,426	Jan. 7	74	16	98	19
Engine-brake	E. Y. Moore	694,403	Mar. 4	130	29	98	1740
Engine-brake	E. Y. Moore	712,833	Nov. 4	695	161	101	1041
Engine brake mechanism.	F. W. Lyons	713,781	Nov. 18	2549	568	101	1455
Engine brake, Traction	E. Doerschlen	713,408	Nov. 11	1828	412	101	1289
Engine controlling mechanism	O. F. Dannenberg and R. L. Morgan	702,410	June 17	2039	464	99	2564
Engine coupling, Traction	J. W. Buller	713,393	Nov. 11	1810	407	101	1285
Engine cross-head	F. D. Holdsworth	692,287	Feb. 4	128	30	98	824
Engine cross-head	F. D. Holdsworth	692,288	Feb. 4	129	30	98	825
Engine cut-off gear, Steam	W. D. Hooker	692,785	Feb. 4	1001	227	98	1002
Engine cylinder, Gas	H. E. Ebbs	710,911	Oct. 7	963	212	101	196



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr.-g.	Vol.	Page.
Engine distributing device. Steam or air .....	C. A. Brunner .....	716,664	Dec. 23	3940	860	101	2706
Engine driving-wheel. Traction .....	K. R. Leebart .....	697,290	Apr. 8	1628	367	99	369
Engine frame. Steam .....	G. H. Reynolds .....	715,867	Dec. 16	2354	521	101	2358
Engine hydrocarbon-feeder. Explosive .....	F. B. Warring .....	703,428	Sept. 16	2745	617	100	2579
Engine igniter. Explosive .....	J. T. Metcalfe .....	691,561	Jan. 21	2243	505	98	502
Engine igniter. Explosive .....	J. V. Rice, Jr. ....	699,014	Apr. 29	4978	1101	99	1122
Engine igniter. Explosive .....	H. E. Barlow .....	710,312	Sept. 30	4479	1011	100	2946
Engine igniter. Hydrocarbon .....	W. W. Tuck and A. Wassmann ..	716,314	Dec. 16	3223	704	101	2539
Engine ignition-regulator. Gas .....	M. J. Sullivan .....	705,881	July 29	4936	1073	100	1959
Engine incandescent igniter. Explosive ..	C. W. Weiss .....	710,824	Oct. 7	825	178	101	169
Engine-indicator .....	H. A. C. A. W. Mahak ..	703,434	July 1	121	27	100	27
Engine indicator. Steam .....	W. H. Harrison .....	662,657	Feb. 4	774	177	98	638
Engine indicator. Steam .....	A. F. Nagle .....	695,257	Mar. 11	1797	378	98	2089
Engine indicator. Steam .....	T. Davidson .....	713,611	Nov. 18	3241	496	101	1388
Engine indicators. Card for steam .....	C. B. Bosworth .....	691,588	Jan. 21	2392	518	98	514
Engine link-motion. Steam .....	M. A. Wharfield .....	705,174	July 22	3481	757	100	754
Engine-lubricating apparatus .....	E. T. McKaig .....	707,794	Aug. 26	3597	791	100	1887
Engine-lubricator .....	W. J. and G. Lane .....	694,688	May 13	1083	233	99	1411
Engine lubricator. Explosive .....	C. W. Weiss .....	710,626	Sept. 30	3910	859	100	2851
Engine mixer or vaporizer. Hydrocarbon ..	B. Settergren .....	697,555	Apr. 15	2185	486	99	496
Engine muffler. Explosive .....	C. F. Weeber .....	692,094	Jan. 28	3298	739	98	728
Engine muffler. Explosive or other .....	A. L. Kull .....	700,785	May 27	3285	754	99	1904
Engine muffler. Gasolene .....	G. L. Reenstierna .....	692,211	Jan. 28	3474	746	98	770
Engine muffler. Internal-combustion .....	C. O. Hedstrom .....	712,791	Nov. 4	610	149	101	1624
Engine muffler. Steam or other .....	T. S. McKinzie .....	701,496	June 3	390	88	99	2188
Engine or motor .....	L. S. Barker .....	716,492	Dec. 23	3591	784	101	2632
Engine or motor .....	L. Sterne .....	701,270	July 8	1685	367	100	353
Engine regulators. Controlling mechanism for steam ..	E. Reynolds .....	700,639	May 20	2960	680	99	1818
Engine reversible device .....	R. R. Hage and H. P. Waller ..	700,639	May 20	2960	680	99	1818
Engine reversing-gear .....	G. H. Ebel .....	695,675	Mar. 18	2599	569	98	2271
Engine reversing-gear .....	V. W. Clough .....	706,637	Aug. 12	1227	272	100	1380
Engine reversing-gear .....	V. W. Clough .....	706,638	Aug. 12	1228	272	100	1380
Engine reversing-gear. Steam .....	L. D. Epperson .....	714,368	Nov. 25	3719	818	101	1715
Engine safety appliance .....	J. Karlik and M. Witte .....	710,155	Sept. 30	4201	946	100	2906
Engine-shaft .....	J. L. Clayland .....	690,895	Jan. 7	897	199	98	190
Engine spark-preventer. Locomotive or other ..	D. Drummond .....	712,776	Nov. 4	569	132	101	1914
Engine spark-preventer. Locomotive or other ..	D. Drummond .....	712,697	Nov. 4	566	283	101	1100
Engine sparkler. Explosive .....	A. G. Graves .....	705,996	Aug. 29	5137	1120	100	1100
Engine sparkler. Explosive .....	H. H. and C. B. Segner ..	706,850	Aug. 12	1664	372	100	1475
Engine sparkler. Gas .....	L. B. Smyser .....	714,049	Nov. 18	3081	681	101	1567
Engine sparking apparatus. Gasolene .....	J. W. Stanton .....	700,190	Mar. 13	1863	434	99	1571
Engine sparking device. Explosive .....	T. S. Glover .....	710,771	Oct. 7	714	151	101	146
Engine sparking igniter. Combustible-vapor ..	D. P. Clark .....	692,625	Feb. 4	730	167	98	947
Engine sparking igniter. Explosive .....	D. P. Thompson .....	692,724	Feb. 4	907	207	98	984
Engine sparking igniter. Explosive .....	R. L. Young .....	709,433	May 6	586	133	99	1236
Engine sparking igniter. Explosive .....	J. Lizotte .....	706,492	Aug. 5	976	214	100	1314
Engine sparking igniter. Explosive .....	J. B. Hicks .....	708,042	Sept. 2	88	20	100	1960
Engine sparking igniter. Explosive .....	C. C. Chamberlain .....	715,196	Dec. 2	1042	225	101	2050
Engine sparking igniter. Explosive-gas .....	F. A. Seitz .....	696,291	Mar. 25	3519	788	98	2408
Engine sparking mechanism. Gas .....	E. S. Bowen .....	711,682	Oct. 21	2407	530	101	530
Engine sparking mechanism. Gas or gasolene ..	J. E. Bean, (by judicial change of name now E. B. Parkhurst.) ..	713,194	Nov. 11	1384	312	101	1197
Engine speed-regulator. Explosive .....	A. L. Kull .....	690,449	Jan. 7	107	23, 24	98	25
Engine speed-regulator. Explosive .....	O. C. Wovries .....	695,261	Mar. 11	1764	391	98	2191
Engine speed-regulator. Explosive .....	J. S. Klein .....	697,409	Apr. 8	1917	427	99	426
Engine speed-regulator. Explosive .....	J. W. Lambert .....	698,405	Apr. 22	3757	829	99	844
Engine speed-regulator. Explosive .....	R. A. F. Beilfuss .....	700,401	May 20	2539	579	99	1736
Engine speed-regulator. Explosive .....	L. W. Witry .....	710,647	Oct. 7	478	101	101	97
Engine speed-regulator. Gas .....	H. H. Hennegin .....	696,903	Apr. 1	979	218	99	207
Engine spray-pump. Explosive .....	J. T. Metcalfe .....	701,069	May 27	3803	871	99	2010
Engine starting device. Explosive .....	C. F. Cope .....	704,618	July 15	2334	507	100	503
Engine starting means. Explosive .....	S. E. Poole .....	703,493	July 1	163	37	100	35
Engine starting mechanism. Gas .....	F. A. L. Sneekner .....	703,157	June 24	3478	799	99	2875
Engine steering apparatus. Traction .....	F. Koons .....	695,401	Mar. 11	2008	449	98	2150
Engine-stop .....	H. Jones .....	706,952	Aug. 12	1825	409	100	1506
Engine-stop. Automatic .....	N. C. Locke .....	708,372	Sept. 2	671	151	100	2118
Engine stop mechanism .....	T. D. Millea .....	694,877	Mar. 4	1042	239	98	1932
Engine stop-motion. Steam .....	O. Williams .....	707,888	Aug. 26	3685	829	100	1922
Engine structure. Compound .....	L. D. Lovekin .....	715,279	Dec. 9	1196	255	101	2090
Engine-support .....	A. W. Menas and A. T. Van Horn ..	709,445	Sept. 16	2779	626	100	2586
Engine tender. Traction .....	U. A. Shirey .....	693,074	Feb. 11	1578	344	98	1150
Engine tender. Traction .....	A. Hildebrand .....	706,560	Aug. 12	1993	242	100	1392
Engine tender. Traction .....	F. J. Wood .....	710,028	Sept. 30	3943	883	100	2852
Engine vaporizer. Explosive .....	C. O. White .....	694,708	Mar. 4	710	156	98	1861
Engine vaporizer. Hydrocarbon .....	A. Krastin .....	695,060	Mar. 11	1391	305	98	2023
Engine vaporizing device. Explosive .....	B. C. Vanduzen .....	709,126	Sept. 16	2129	490	100	2451
Engines and tenders. Running-gear for traction ..	C. S. Miller and E. C. Austin ..	711,330	Oct. 14	1799	390	101	390
Engines. Apparatus for controlling pumping ..	R. Wright .....	715,924	Dec. 16	2169	543	101	2388
Engines. Apparatus for distributing the primary current for electric ignition by coils and igniters in explosive ..	A. C. Krebs .....	708,053	Sept. 2	105	24	100	2003
Engines. Automatic regulator for marine .....	D. Mahoney .....	692,161	Jan. 28	3373	763	98	749

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Engines. Circuit-breaker for electric igniters for explosive-.....	F. E. Canda .....	693,372	Feb. 18	2188	480	98	1295
Engines. Draft-generator for threshing-machine .....	V. Stoltz.....	690,780	Jan. 7	817	180	98	173
Engines. Electric igniter for explosion-.....	E. H. Fahrney.....	701,695	June 3	749	165	99	2305
Engines. Electric igniter for explosive-.....	H. A. Gray .....	700,508	Sept. 23	3106	692	100	2667
Engines. Electric igniter for gas-.....	F. Burger .....	694,250	Feb. 25	3867	857	98	1654
Engines. Electric igniting device-.....	V. G. Apple .....	696,268	Mar. 25	3699	827	98	2531
Engines. Electric igniting apparatus for explosive-.....	S. P. Neill .....	694,400	Mar. 1	114	32, 33	98	1743
Engines. Electric igniting device for explosion-.....	V. G. Apple .....	696,267	Mar. 25	3697	827	98	2531
Engines. Electric igniting device for explosive-.....	J. M. Smith .....	691,498	Jan. 21	2143	481	98	482
Engines. Electrical igniter for gas-.....	E. J. Stoddard .....	717,466	Dec. 30	3556	1207	101	3072
Engines. Exhaust-expander for steam-.....	J. J. Haycraft .....	716,635	Dec. 23	3891	850	101	2697
Engines. Exhaust-pipe muffler for gas or other .....	J. L. and C. J. Tobias .....	713,536	Nov. 11	2092	468	101	1343
Engines. Fuel or other reservoir for internal-combustion .....	C. O. Hedstrom .....	707,922	Aug. 26	3753	841	100	1086
Engines. Igniter-controlling mechanism for explosive-.....	J. Walrath .....	691,509	Jan. 21	2166	485	98	487
Engines. Igniting apparatus for internal-combustion .....	G. B. and E. W. Petter .....	694,186	Feb. 25	3769	1832	98	1683
Engines. Ignition-gear for internal-combustion .....	F. R. Simms and R. Bosch .....	706,121	Aug. 5	217	45	100	1161
Engines. Incandescent igniter for explosive-.....	C. W. Weiss .....	708,284	Sept. 2	2393	121	100	9300
Engines. Liquid-fuel feed for explosive-.....	A. W. Olds .....	690,989	Jan. 11	1178	266	98	261
Engines. Means for facilitating the starting of gas or similar .....	J. Hutchings .....	702,797	June 17	2732	688	99	2717
Engines. Oil atomizer and mixer for vapor-.....	A. D. Page and G. Wood .....	696,187	Mar. 25	3496	789	98	2488
Engines or motors. Mechanism for utilizing the power of .....	H. W. Schlomann .....	697,175	Apr. 8	1487	332	99	336
Engines. Regulation of speed and power .....	E. Thomson .....	702,038	June 10	1351	309	99	2403
Engines. Vaporizer for explosive-.....	J. Lizotte .....	703,937	July 1	1034	225	100	206
Engines. Water cooling and circulating apparatus for explosion-.....	E. Estcourt .....	707,570	Aug. 26	3010	677	100	1786
Engraving-machine.....	J. H. Martin .....	695,069	Mar. 11	1410	309	98	2027
Engraving-machine.....	W. S. Eaton .....	696,952	Apr. 8	1100	244	99	254
Engraving-machine.....	W. E. Crane .....	703,719	July 1	632	141	100	125
Engraving-machine.....	R. Jay .....	704,193	July 8	1555	335	100	326
Engraving-machine.....	C. B. Bishop .....	709,863	Sept. 30	3592	811	100	2780
Engraving-machine.....	J. Brady .....	711,094	Oct. 14	1337	290	101	291
Engraving-machine.....	J. Brady .....	711,095	Oct. 14	1340	291	101	292
Engraving-machine.....	P. V. Avril .....	711,273	Oct. 14	1683	364	101	364
Engraving-machine, &c .....	C. B. Bishop .....	716,370	Dec. 23	3346	732	101	2579
Engraving-machine. Pantograph .....	M. Barr .....	706,007	Aug. 5	8	2	100	1118
Entasisograph .....	G. Kimbrell .....	692,147	Jan. 28	3353	759	98	745
Entrails. Machine for lacerating or slitting .....	J. W. Kohlhepp and A. J. Francis .....	698,523	Apr. 29	3972	878	99	904
Enumerating-machine.....	H. Hodsdon .....	711,498	Oct. 21	2116	460	101	470
Enuresis. Appliance for preventing .....	C. Zimmermann .....	714,850	Dec. 2	418	88	101	1918
Envelop .....	W. A. Hammond and J. C. Kahle .....	696,431	Apr. 1	68	16	99	18
Envelop .....	J. Lucas .....	696,985	Apr. 8	1158	257	99	266
Envelop .....	S. A. Bonnaffon .....	697,971	Apr. 22	2949	650	99	676
Envelop .....	J. G. Bankert .....	698,622	Apr. 29	4191	925	99	947
Envelop .....	W. A. Dean .....	701,908	June 3	47	10	99	2118
Envelop .....	A. F. Callahan .....	701,839	June 10	989	220	99	2332
Envelop .....	D. H. Keller .....	702,100	June 10	1483	334	99	2431
Envelop .....	W. H. Haworth .....	702,945	June 24	3060	704	99	2792
Envelop .....	C. E. Cather and L. H. Buckley .....	705,036	July 22	3191	689	100	696
Envelop .....	J. B. Howe .....	706,417	Aug. 5	841	183	100	1283
Envelop .....	L. A. Bennett .....	707,074	Aug. 19	2057	469	100	1270
Envelop .....	C. A. Dunn .....	707,308	Aug. 19	2498	561	100	1664
Envelop .....	J. E. Fitzgerald .....	707,963	Aug. 26	3819	899	100	1948
Envelop .....	G. D. Van Arsdale .....	708,098	Sept. 2	181	43	100	2019
Envelop .....	F. R. Stearns and C. R. Weber .....	709,805	Sept. 23	3493	788	100	2745
Envelop .....	A. J. Arendell .....	709,952	Sept. 30	3795	856	100	2821
Envelop .....	M. Stormfels .....	712,465	Oct. 28	3970	868	101	870
Envelop .....	H. A. Graham .....	713,428	Nov. 11	3858	420	101	1296
Envelop .....	W. S. Harrison .....	714,179	Nov. 25	3923	740	101	1644
Envelop .....	T. H. Davies .....	716,684	Dec. 23	3971	869	101	2712
Envelop .....	A. A. Rittenhouse .....	717,279	Dec. 30	5223	1134	101	3005
Envelop and advertising-opener therefor .....	F. Theilengerdes .....	702,508	June 17	2231	508	99	2605
Envelop and blank therefor .....	A. J. Johnston .....	699,875	May 13	1465	336	99	1492
Envelop and fastening therefor .....	A. M. Hanan .....	710,684	Oct. 7	549	114	101	1311
Envelop-blanks. Paper sheet for .....	J. Logan .....	693,412	Feb. 18	1803	495	98	1673
Envelop-closure. Metallic .....	B. E. Fitzgerald .....	697,460	Apr. 22	2920	646	99	676
Envelop. Compartment-.....	B. F. Johnson .....	693,649	Feb. 18	2725	601	98	1403
Envelop. Document-.....	J. G. Wallace .....	698,600	Apr. 29	4145	912	99	939
Envelop. Duplex .....	A. B. Cowles .....	696,225	Mar. 25	3566	798	98	2502
Envelop-fastening device .....	F. T. Fernandez .....	693,696	Feb. 18	2818	619	98	1424
Envelop-filler. Safety .....	G. E. Hurst .....	708,555	Sept. 9	996	225	100	2195
Envelop for holding samples of dress goods .....	L. Lyon .....	695,821	Mar. 18	270	621	98	2324
Envelop gumming and folding machine .....	T. B. Kendall .....	692,016	Jan. 28	3111	699	98	696
Envelop-machine .....	E. Ermold .....	692,051	Jan. 28	3186	719	98	711
Envelop-machine thread-gummer .....	J. L. Bowles .....	711,415	Oct. 14	1946	424	101	420
Envelop. Mailing-.....	A. Haberstroth .....	693,704	Feb. 18	2829	622	98	1426



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Pr. g.	Vol.	Page.
Envelop. Mailing.....	W. T. Lee.....	710,300	Sept. 30	42-3	965	100	2926
Envelop. Mailing.....	M. J. Daly.....	711,345	Oct. 28	30178	965	101	377
Envelop-opener.....	T. Anderson.....	694,817	Mar. 4	919	965	98	1906
Envelop or covering. Letter or similar.....	O. B. and W. H. Peck.....	710,710	Oct. 7	500	125	101	121
Envelop or wrapper. Reversible.....	W. Masters.....	700,352	May 20	2433	555	99	1708
Envelop pocket attachment.....	G. P. Herndon.....	691,767	Jan. 28	2666	598	98	608
Envelop. Return.....	T. C. West.....	690,500	Jan. 7	258	52	98	57
Envelop. Safety.....	C. H. Mann.....	698,300	Apr. 22	3582	740	99	808
Envelop. Safety.....	A. O. Anderson.....	710,731	Oct. 7	167	133	101	130
Envelop. Twin.....	A. Sallade.....	698,224	Feb. 13	2679	501	98	1390
Envelops. Means for detecting tampering with sealed.....	H. G. Starmer.....	705,470	July 22	4111	893	100	882
Equalizer. Four-horse.....	O. and F. Zoeller.....	701,454	June 3	363	67	99	2171
Equalizer. Four-horse.....	O. and F. Zoeller.....	705,189	July 22	3515	762	100	762
Eraser.....	E. Swenson.....	699,934	May 13	1570	361	99	1512
Eraser.....	R. J. Driscoll.....	715,640	Dec. 9	1673	416	101	2285
Eraser and calendering device. Combined.....	P. W. Edwards.....	715,770	Dec. 16	2133	477	101	2311
Eraser. Blackboard.....	F. C. Raber.....	709,722	Sept. 23	3316	745	100	270
Eraser. Blackboard.....	L. B. Williams.....	714,122	Nov. 18	3213	709	101	1596
Eraser-cleaner.....	F. W. and W. A. E. Stutt.....	715,705	Dec. 9	1901	446	101	2260
Eraser-tip for pencils.....	W. H. Brownell.....	699,743	May 13	1181	275	99	1429
Erasers. Machine for cleaning blackboard.....	J. A. Jones.....	699,957	May 13	1622	1371	99	1523
Escapement-motion.....	W. J. Shortill.....	716,948	Dec. 30	4568	992	101	2864
Escutcheon and paint protector. Combined double.....	S. Thompson.....	702,831	June 17	2831	651	99	2730
Escutcheon-plate.....	J. B. Miller.....	695,472	Mar. 18	2123	478	98	2193
Espagnolette-lock.....	J. Meier.....	695,620	Mar. 18	2418	547	98	2234
Etching and in etching such surfaces. Preparing surfaces for.....	F. H. Thibodo and S. S. Peckinpugh.....	706,280	Aug. 5	563	.....	100	1229
Etching designs.....	I. Kites.....	708,052	Sept. 2	104	24	100	2003
Etchings. Reproducing colored original.....	B. Mannfeld.....	690,974	Jan. 14	1146	.....	98	235
Ether. Manufacture of.....	J. W. Harris.....	711,565	Oct. 21	2250	488	101	408
Evaporating apparatus.....	J. Mecredy.....	692,465	Feb. 4	426	100	98	886
Evaporating apparatus.....	O. M. Nilson.....	708,723	Apr. 29	4430	980	99	1605
Evaporating apparatus. Vacuum.....	C. N. Vis.....	704,172	Sept. 13	1871	426	99	1572
Evaporating apparatus. Vacuum.....	C. Ordway.....	704,172	Nov. 10	2235	508	100	1470
Evaporating apparatus. Vacuum.....	C. Ordway.....	714,513	Nov. 25	3970	870	101	1763
Evaporating distillers' residues. Apparatus for.....	J. M. J. Thierry.....	717,054	Dec. 30	4789	1038	101	2911
Evaporating-pan.....	J. H. Hill and J. Rivett.....	697,484	Apr. 15	2063	435	99	473
Evaporating-pan.....	C. A. Porter.....	714,740	Dec. 2	167	33, 34	101	1870
Evaporating-pans. Transfer and hinge for.....	G. A. King.....	694,874	Mar. 4	1037	230	98	1931
Evaporator.....	C. L. Wilcox.....	696,154	Mar. 25	3435	771	98	2478
Evaporator.....	W. Bender.....	709,297	Sept. 16	2487	559	100	2524
Evaporator.....	S. S. Cook and J. F. Maschke.....	716,987	Dec. 30	4661	1011	101	2884
Evener. Doubletree.....	L. A. Tweedy.....	697,116	Apr. 8	1286	307	99	314
Evener for gang-plows. Four-horse.....	J. W. Brown and G. Elick.....	694,610	Mar. 4	592	116	98	1836
Evener. Four-horse.....	A. Crosser.....	692,987	Feb. 11	1426	310	98	1113
Evener. Four-horse.....	J. W. Sayre.....	707,346	Aug. 26	3789	851	99	1943
Evening and grading machine.....	E. P. Nichols.....	711,585	Oct. 21	2279	495	101	508
Excavating and constructing tunnels or other subterranean or submarine structures.....	C. Sooy-Smith.....	711,012	Oct. 14	1160	256	101	255
Excavating and hoisting apparatus.....	E. H. Browning.....	705,317	July 22	3807	825	100	820
Excavating and loading apparatus.....	W. Foglesong.....	704,740	July 15	2554	551	100	548
Excavating and loading machine.....	D. H. Mahoney.....	701,593	June 3	567	124	99	2226
Excavating apparatus.....	R. Bowker.....	715,962	Dec. 16	2531	559	101	2906
Excavating apparatus.....	A. Klatt.....	716,246	Dec. 16	3113	681	101	2517
Excavating-machine.....	J. D. Blalock.....	694,240	Feb. 25	3850	853	98	1655
Excavating-machine.....	H. J. Bentson. (Reissue).....	12,010	July 15	3140	678	100	670
Excavating-machine.....	H. G. Butler.....	710,664	Oct. 7	515	107	101	104
Excavating-machine.....	W. Cole.....	713,750	Nov. 18	2490	554	101	1443
Excavating-machine.....	C. C. McBride.....	716,741	Dec. 23	4063	535	101	2732
Excavating mechanism.....	C. W. Bradshaw.....	694,244	Feb. 25	3858	855	98	1652
Excavating-tooth for power-shovels.....	V. W. Mason, Jr.....	711,992	Oct. 28	3103	679	101	694
Excavator.....	W. S. McKinney.....	692,892	Feb. 11	1229	271	98	1978
Excavator.....	W. M. Gross.....	693,266	Feb. 11	1985	481	98	1232
Excavator.....	J. R. Williams.....	695,020	Mar. 11	1311	200	98	2007
Excavator.....	O. B. H. Hanneborg.....	706,175	Aug. 5	337	72, 73	100	1186
Excavator.....	G. H. Williams.....	711,449	Oct. 14	2045	436	101	434
Excavator for trenches, cuttings, &c.....	E. Schofield.....	705,972	July 1	1110	240	100	220
Excelsior-making machine.....	J. R. Bate.....	691,523	Jan. 21	2188	490	99	491
Exerciser.....	M. Duffner.....	714,403	Nov. 25	3884	857	101	1747
Exercising apparatus.....	F. Schneider.....	691,295	Jan. 14	1733	395	98	377
Exercising apparatus.....	R. Aronstein.....	712,634	Nov. 4	332	78	101	967
Exercising apparatus.....	G. S. Maxwell and G. White, Jr.....	712,827	Nov. 4	678	157	101	1036
Exercising apparatus for straightening the legs.....	F. Langel.....	714,309	Nov. 25	3614	735	101	1694
Exercising device.....	W. F. Lott.....	690,401	May 6	525	120	99	1283
Exercising device.....	W. M. Moseley.....	708,242	Sept. 2	455	103	100	2074
Exercising device.....	B. A. McFadden.....	712,000	Oct. 28	3116	682	101	696
Exercising-machine.....	A. de Clairmont.....	695,588	Mar. 18	2252	509	98	2219
Exercising-machine.....	J. C. Korth and A. Ganzenmüller.....	704,840	July 15	2749	595	100	588
Exhaust apparatus.....	J. Y. Smith.....	705,713	July 29	4645	1006	100	990

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Exhaust apparatus. Automatic variable.....	H. H. Huff.....	696,630	Apr. 1	443	103	99	95
Exhaust-concealer.....	G. A. Hunt.....	708,067	June 24	3897	758	99	2889
Exhaust-head.....	H. Sims.....	696,601	Apr. 1	373	783	99	82
Exhaust mechanism.....	T. D. Kline.....	701,304	May 27	4048	930	99	2062
Exhaust mechanism.....	W. Hood.....	713,641	Nov. 18	2598	511	101	1899
Exhibiting and vending machine.....	D. M. Winans.....	708,687	Sept. 9	1236	283	100	2243
Exhibiting case. Thimble.....	A. H. Peal.....	697,532	Apr. 15	2143	476	99	488
Exhibiting device.....	A. C. Argles.....	708,853	Sept. 9	1586	361	100	2318
Exhibition and amusement apparatus.....	G. H. Laporte.....	714,717	Dec. 2	127	98	101	1864
Expandible bolt.....	E. A. Russell.....	699,245	May 6	204	49	99	1216
Expandible bolt.....	W. R. Kinnear.....	704,547	July 15	2327	482	100	481
Expandible stopper.....	R. L. S. Doggett.....	707,764	Aug. 26	3427	772	100	1872
Expansion-bolt.....	S. Wheeler.....	691,921	Jan. 28	2936	662	98	662
Expansion-bolt.....	D. W. Bennett.....	694,345	Mar. 4	9	3	98	1714
Expansion-bolt.....	W. U. Griffith.....	708,632	July 1	507	114	100	90
Expansion-bolt.....	C. H. Steward.....	710,534	Oct. 7	274	60	101	55
Expansion-joint.....	R. E. Vail.....	690,797	Jan. 7	831	183	98	175
Explosion-motor.....	J. P. E. Liet.....	716,060	Dec. 16	2758	008	101	2444
Explosive.....	L. McDaniel.....	717,441	Dec. 30	5514	101	101	3064
Explosive-engine.....	F. D. Sweet.....	690,481	Jan. 7	203	41	98	44
Explosive-engine.....	W. J. Pugh.....	692,071	Jan. 28	3221	727	98	718
Explosive-engine.....	W. S. and C. Hibbard.....	694,016	Feb. 25	3448	761	98	1570
Explosive-engine.....	W. F. Davis.....	694,948	Mar. 11	1172	256	98	1978
Explosive-engine.....	W. L. Judson.....	695,731	Mar. 18	2600	588	98	2289
Explosive-engine.....	M. N. Hylland.....	698,285	Apr. 22	3561	785	99	803
Explosive-engine.....	G. Gibbs.....	703,724	July 1	645	143	100	129
Explosive-engine.....	M. J. Klein.....	704,713	July 15	2494	540	100	587
Explosive-engine.....	C. W. Weiss.....	704,995	July 15	3113	670	100	664
Explosive-engine.....	W. Bernhardt.....	705,022	July 22	3171	685	100	693
Explosive-engine.....	A. T. Bossett.....	708,518	Sept. 9	944	213	100	2184
Explosion-engine.....	W. G. Wilson.....	710,727	Oct. 7	630	131	101	129
Explosive-engine.....	J. F. Hill.....	711,628	Oct. 21	2366	519	101	522
Explosive-engine.....	C. E. Inglis.....	712,067	Oct. 28	3251	712	101	722
Explosive-engine.....	W. L. Judson.....	712,805	Nov. 4	643	148	101	1030
Explosive-engine.....	J. A. Ostenberg.....	713,792	Nov. 18	2566	573	101	1458
Explosive-engine.....	J. A. Ostenberg.....	713,793	Nov. 18	2570	573	101	1459
Explosive-engine.....	F. Lagoutte.....	714,492	Nov. 25	3925	869	101	1755
Explosive-engine.....	B. F. Bain.....	716,615	Dec. 23	3855	840	101	2689
Explosive-engine. Compound.....	F. W. Toedt.....	691,083	Jan. 14	1343	304	98	295
Explosive-engine.....	F. W. Toedt.....	691,084	Jan. 14	1346	304	98	295
Explosive-engine for motor-vehicles.....	R. C. Marks.....	710,329	Sept. 30	4508	1016	100	2972
Explosive-engine. Four-cycle.....	H. C. Sträng.....	709,060	Sept. 16	2011	458	100	2423
Explosive-engine. Free-piston.....	W. A. Swan.....	692,218	Jan. 28	3488	789	98	773
Explosive-engine. Multiple-cylinder.....	G. S. Andres.....	706,711	Aug. 12	1363	305	100	1411
Explosive-engine. Revolving-cylinder.....	J. D. McFarland, Jr.....	696,251	Mar. 25	3620	809	98	2513
Explosive fluids. Apparatus for preventing explosions in vessels containing.....	R. Scheuffgen.....	695,237	Mar. 11	1722	381	98	2092
Explosive-motors. Cooling.....	T. Myers.....	693,520	Feb. 18	2487	546	98	1357
Explosive-vapor engine. Four-cycle.....	G. Erikson.....	706,733	Aug. 12	1104	313	100	1419
Explosives. Producing.....	J. Bonnet.....	695,667	Mar. 18	2495	314	98	2269
Expressing-press.....	W. H. Silver.....	696,204	Mar. 25	3525	789	98	2494
Extensible pan.....	T. J. Halls.....	709,150	Sept. 16	2181	499	100	2461
Extensible trough.....	P. Maginnis.....	700,522	May 20	2765	638	99	1776
Extension-table.....	J. Cornell.....	690,401	Jan. 7	28	6	98	0
Extension-table.....	E. J. Spink.....	694,439	Mar. 4	196	49	98	1754
Extension-table.....	J. F. Wilnot.....	693,605	May 6	903	210	99	1362
Extension-table.....	C. W. Munz.....	700,222	May 20	2160	495	99	1652
Extension-table.....	F. White.....	701,782	June 3	895	199	99	2296
Extension-table.....	F. Lieske.....	704,552	July 15	2223	483	100	482
Extension-table.....	H. C. Schneider.....	705,711	July 29	4640	1005	100	998
Extension-table.....	C. N. Smith.....	710,376	Sept. 30	4588	1095	100	2888
Extension-table.....	S. Dusenbery.....	711,042	Oct. 14	1236	270	101	270
Extension-table. Combination.....	A. F. Flatley and J. M. Arthur.....	715,045	Dec. 2	766	162	101	1991
Extension-table. Self-contained.....	F. E. Allen.....	695,992	Mar. 25	3078	698	98	2402
Extinguisher.....	N. Galipeau.....	717,186	Dec. 30	5069	1099	101	2971
Extractor: See Bolt or spike extractor. Centrifugal extractor. Cork-extractor. Fruit-juice extractor. Gun cartridge-extractor.	Hydro-extractor. Lemon-juice extractor. Nail-extractor. Pen-extractor. Saw-extractor. Spike-extractor. Stopper-extractor. Stump-extractor.						
Eye.....	C. C. Mund.....	717,109	Dec. 30	4880	1057	101	2930



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. G.	Vol.	Page
Eye-guard.....	H. W. Brown.....	703,531	July 1	280	64	100	57
Eyeglass-case.....	W. Zoerpf and J. J. Hesse.....	702,524	June 17	2253	513	99	2610
Eyeglass-frame.....	F. Weidenfeld.....	691,966	Jan. 28	3079	692	98	650
Eyeglass-guard.....	J. F. Coombs.....	707,827	Aug. 26	3565	806	100	1809
Eyeglass-guard.....	A. S. Weaver.....	710,227	Sept. 30	4338	975	100	2067
Eyeglass-mounting.....	S. N. and F. W. Stone.....	715,894	Dec. 16	2401	532	101	2368
Eyeglass nose-guard.....	H. Borsch.....	710,419	Oct. 7	39	9	101	10
Eyeglass nose-guard.....	E. B. Mewrowitz.....	710,594	Oct. 7	382	80	101	76
Eyeglass nose-piece.....	C. F. Wall.....	707,883	Aug. 26	3677	827	100	1821
Eyeglass nose-piece.....	H. Borsch.....	710,418	Oct. 7	38	8	101	10
Eyeglass or spectacle case.....	J. G. Koenen.....	715,272	Dec. 9	1187	252	101	2095
Eyeglass-polisher.....	H. C. Pigneron.....	698,853	Apr. 29	4707	1037	99	1067
Eyeglass. Watchmaker's.....	H. Tremblay.....	706,364	Aug. 5	712	155	100	1220
Eyeglasses.....	L. F. Ait.....	691,345	Jan. 21	1870	421	98	423
Eyeglasses.....	L. M. Phillips.....	692,069	Jan. 28	3219	527	98	518
Eyeglasses.....	H. C. Thomson.....	698,078	Apr. 22	3145	692	99	717
Eyeglasses.....	W. N. Blanchard.....	699,070	Apr. 29	5069	1121	99	1142
Eyeglasses.....	L. A. and L. J. Bachus.....	699,741	May 13	1177	274	99	1429
Eyeglasses.....	P. Z. McDonald.....	699,968	May 13	1636	376	99	1526
Eyeglasses.....	A. B. Critzer.....	700,623	May 20	2937	675	99	1813
Eyeglasses.....	F. A. Stevens.....	701,819	June 3	956	212	99	2308
Eyeglasses.....	J. Carter.....	706,899	Aug. 12	1747	390	100	1401
Eyeglasses.....	A. K. Hawkes.....	708,141	Sept. 2	268	64	100	2037
Eyeglasses.....	R. B. Finch.....	709,574	Sept. 23	3066	682	100	2658
Eyeglasses.....	E. H. Schild.....	700,824	Sept. 23	3529	795	100	2753
Eyeglasses.....	W. W. Essick.....	700,892	Sept. 30	3688	831	100	2798
Eyeglasses.....	E. M. Singleton.....	710,622	Oct. 7	439	92	101	88
Eyeglasses.....	F. Stewart.....	711,362	Oct. 14	1862	406	101	403
Eyeglasses.....	E. B. Finch.....	711,235	Oct. 27	2219	527	101	518
Eyeglasses.....	R. B. Finch. (Reissue).....	712,634	Nov. 11	2182	486	101	1359
Eyeglasses.....	W. Evans.....	716,695	Dec. 23	3993	873	101	2716
Eyeglasses or spectacles.....	W. L. Wall and L. Proport.....	701,111	May 27	3884	892	99	2028
Eyeglasses or spectacles.....	C. O. Bailey.....	707,046	Aug. 12	1989	446	100	1540
Eyeglasses or spectacles.....	J. E. Briggs.....	714,664	Dec. 2	18	4	101	1840
Eyelet.....	R. L. Ellery.....	691,850	Jan. 28	2824	633	98	620
Eyelet.....	F. J. Leland.....	697,344	Apr. 8	1778	399	99	3088
Eyelet.....	H. G. Weibezahl.....	698,770	Apr. 29	4498	994	99	1018
Eyelet.....	E. Kempshall.....	700,121	May 13	1900	442	99	1578
Eyelet.....	J. W. Force.....	701,476	June 3	353	78	99	2182
Eyelet.....	I. W. Giles.....	702,199	June 10	1655	371	99	2466
Eyelet.....	J. C. Rhodes. (Reissue).....	712,008	July 8	2108	456	100	442
Eyelet.....	G. E. McCormack.....	708,577	Sept. 9	1034	234	100	2232
Eyelet.....	F. Quarby.....	713,149	Nov. 11	1292	292	101	1180
Eyelet.....	E. Kempshall.....	714,191	Nov. 25	3383	745	101	1648
Eyelet-setting machine.....	P. A. Runney.....	707,643	Aug. 26	3146	708	100	1815
Eyelet-setting machine.....	F. A. Runney.....	707,644	Aug. 26	3150	708	100	1816
Eyelining-machine.....	E. L. Sibley.....	691,012	Jan. 14	1223	276	98	270
Eyelining-machine.....	P. R. Glass.....	701,261	May 27	4156	955	99	2082
Eyelining-machine.....	P. R. Glass.....	701,262	May 27	4158	956	99	2082
Eyelining-machine.....	P. R. Glass.....	701,263	May 27	4162	956	99	2082
Fabric:							
See Carpet fabric.....	Sewed warp fabric.....						
Elastic fabric.....	Stiff-finished woven fabric.....						
Feather fabric.....	ric.....						
Knitted fabric.....	Tubular fabric.....						
Knitted pile fabric.....	Tufted fabric.....						
Metal-foil fabric.....	Wire fabric.....						
Photographic fabric.....	Woven fabric.....						
Pile fabric.....	Woven figured fabric.....						
Fabric.....	J. Philipps, H. Lebel, and R. Grimois-Sanson.....	692,029	Jan. 28	3135	.....	98	701
Fabric.....	J. Mugnier.....	692,467	Feb. 4	431	101	98	887
Fabric-cutting machine.....	J. A. Heany.....	695,103	Mar. 11	1463	326	98	2038
Fabric-cutting machine.....	J. A. Heany.....	695,553	Mar. 18	2282	516	98	2225
Fabric-cutting machine.....	H. A. Meyer.....	701,910	June 10	1122	257	99	2359
Fabric-cutting-machine feeding device.....	C. Stone.....	693,922	Feb. 25	3248	715	98	1530
Fabric folding and trimming machine.....	J. C. Goodwin.....	712,788	Nov. 4	105	139	101	1023
Fabric having bias weave. Apparatus for producing.....	F. J. Newell.....	704,023	July 15	2358	489	100	487
Fabric-sitting machine.....	W. B. Conrad and J. A. Cameron.....	697,395	Apr. 22	2982	658	99	682
Fabric-stiffening composition.....	J. D. Graber.....	691,462	Jan. 21	2084	.....	98	669
Fabrics. Machine for cutting blanks from.....	J. A. Cameron.....	697,978	Apr. 22	2959	652	99	479
Fabrics. Machine for fixing spangled material to textile.....	R. Cornely.....	700,905	May 20	2350	534	99	1600
Fabrics. Machine for producing water-marks on.....	E. Smith.....	709,368	Sept. 16	2640	592	100	2555
Fabrics. Making repaired.....	D. Margollus.....	696,830	Apr. 1	817	188	99	173
Fabrics. Means for decorating.....	W. Ornel.....	708,099	Sept. 2	181	43	100	2019
Fabrics. Reserve and discharge on textile.....	E. Knecht.....	702,566	June 17	2335	.....	99	2026
Face-protector.....	M. Longden.....	695,403	Mar. 11	2006	450	98	2151
Face-protector.....	M. Galley.....	704,311	July 8	1757	384	100	369
Facing and binding. Skirt.....	W. J. Hay.....	704,033	July 8	1230	265	100	259
Full-rope-supporting device.....	T. S. Miller.....	716,457	Dec. 23	3523	770	101	2617
Fan.....	T. R. Weyant.....	691,426	Jan. 21	2012	450	98	453
Fan.....	C. S. Fitzhugh.....	696,426	Apr. 1	61	14	99	16
Fan.....	W. E. Coleman.....	697,448	Apr. 15	2005	442	99	461
Fan.....	J. J. Wood.....	697,697	Apr. 15	2457	548	99	551
Fan.....	C. D. Pierce.....	699,706	May 13	1110	261	99	1417
Fan.....	W. E. Coleman.....	708,023	Sept. 9	1114	250	100	2218
Fan.....	W. E. Coleman.....	708,024	Sept. 9	1115	251	100	2218
Fan.....	W. McNamara.....	710,395	Sept. 30	4448	1003	100	2960
Fan.....	C. R. Brock and W. C. Barth.....	715,011	Dec. 2	717	152	101	1981
Fan. Automatic.....	M. Ottenheimer.....	701,078	May 27	3816	874	99	2013

*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Prig.	Vol.	Page.
Fan. Automatic	J. D. Williams	708,443	Sept. 2	792	180	100	2141
Fan. Automatic	W. E. Coleman	708,622	Sept. 9	1113	250	100	2218
Fan-case for blast-fans	J. T. Hope	704,038	July 8	1237	266	100	261
Fan. Dissectible	J. L. Perkins	710,208	Sept. 30	4452	1004	100	2961
Fan. Electric	W. J. H. Jones	696,052	Mar. 25	3201	723	98	2428
Fan. Electric	J. J. Wood	697,588	Apr. 15	2230	500	99	508
Fan. Electric	J. J. Wood	697,589	Apr. 15	2244	500	99	509
Fan. Electric	G. C. Hawkins and H. L. Flint	707,842	Aug. 26	3600	813	100	1904
Fan. Electric	B. Blum	710,940	Oct. 14	1020	225	101	224
Fan-governor	H. Koch	700,511	May 20	2747	629	99	1772
Fan. Mechanical	G. Kaiser	710,465	Oct. 7	121	27, 28	101	26
Fan motor attachment	W. S. Moody	701,914	June 10	1129	258	99	2390
Fan motor case	H. B. Wellman	708,105	Sept. 2	190	45	100	2021
Fan-operating device	N. F. Warlick	707,040	Aug. 12	1973	444	100	1537
Fan or blast regulator	A. G. Critchfield	692,430	Feb. 4	365	90	98	875
Fan or pump. Rotary	S. C. Davidson	691,609	Jan. 21	2344	527	98	522
Fan. Rotary	N. H. Hawk	712,790	Nov. 4	608	140	101	1023
Fan. Rotary	J. Keith	713,990	Nov. 13	2961	657	101	1540
Fan. Rotary hand	B. D. Straight	708,061	Sept. 2	165	20	100	2015
Fan turn-table. Motor-	N. M. Powell	696,191	Mar. 25	3501	784	98	2489
Fan. Ventilating	W. Burrows	717,389	Dec. 30	5326	1159	101	3027
Fanning-mill	P. Kesselring, Jr.	716,481	Dec. 23	3466	756	101	2646
Fare-collecting apparatus for street-cars, &c. Au- tomatic	L. Ferlneffer	699,895	May 13	1502	345	99	1500
Fare-indicator	O. Kuntzen	691,639	Jan. 21	2403	540	98	535
Fare-receipt slip	F. S. Borton	715,960	Dec. 16	2527	558	101	2396
Fare-register	W. Weber	691,995	Jan. 23	3074	691	98	690
Fare-register	C. E. Gierding	692,519	Feb. 4	522	123	98	904
Fare-register	J. F. Ohmer, H. Tyler, and W. F. Breidenbach.	694,322	Feb. 25	4067	905	98	1687
Fare-register	H. Hart	695,550	Mar. 18	2273	513	98	2224
Fare-register	A. Nielsen	700,703	May 20	3067	515	99	1849
Fare-register	A. E. Nielsen	710,796	Oct. 7	770	164	101	158
Fare-register	J. F. Ohmer and H. Tyler	715,120	Dec. 2	921	166	101	2025
Fare-register	T. S. Huntington	716,897	Dec. 30	4481	199	101	2846
Fare register and recorder	W. M. Kelch	694,483	Mar. 4	268	971	98	1769
Fare-register rods, &c. Handle for	F. Brostrom	716,622	Dec. 23	3866	972	101	2691
Farm-gate	A. B. Clayton	696,943	Apr. 8	1079	845	99	249
Farm-gate	G. R. Clarke	697,198	Apr. 8	1532	238	99	345
Farm-gate	E. King	697,681	Apr. 15	2331	342	99	526
Farm-gate	M. H. Larmore	698,717	Apr. 29	4414	520	99	1000
Farm-gate	L. K. McClellan	708,244	Sept. 2	457	974	100	2074
Farm-gate	W. H. and G. R. Mitchell	712,949	Nov. 4	924	104	101	1086
Farm-gate	E. Bowsher	717,320	Dec. 30	5309	215	101	3023
Farm-machines. Apparatus for operating	J. M. Dallas	710,846	Oct. 7	861	187	101	175
Farm or yard gate	D. M. Cox	695,633	Mar. 18	2441	551	98	2258
Fastener	F. R. White	691,222	Jan. 14	1587	552	98	346
Fastener	F. R. White	692,953	Feb. 11	1361	362	98	1105
Fastener	W. B. H. Dowse	707,054	Aug. 12	2010	296	100	1544
Fastener	J. E. Traver	707,369	Aug. 19	2605	450	100	1686
Fastener	W. B. H. Dowse	707,504	Aug. 19	2848	589	100	1738
Fastener	W. P. Devine	716,002	Dec. 16	2616	645	101	2415
Fastener	W. B. H. Dowse	716,394	Dec. 23	3397	5, 6	101	2590
Fastener. Expansion-	E. J. McCormick	702,067	June 10	1434	741	99	2421
Fastener for bands, wires, &c	J. W. Hammett	713,634	Nov. 13	2281	322	101	1396
Fastener for satchels, purses, &c	A. and J. Hinkel	700,320	May 20	2385	507	99	1698
Fastener. Separable	A. Haug	710,933	Oct. 7	880	193	101	180
Fastener. Separable	G. W. Traut	712,622	Nov. 4	307	72	101	963
Fastening device	G. W. McGill	691,164	Jan. 14	1482	335	98	324
Fastening device	G. W. McGill	691,165	Jan. 14	1487	336	98	325
Fastening device	C. R. Schlieper	695,628	Mar. 13	2435	550	98	2257
Fastening device	A. L. Drake	698,470	Apr. 29	3849	858	99	887
Fastening device	C. E. Smith	698,571	Apr. 29	4050	896	99	920
Fastening device	C. D. Hancock	702,056	June 10	1414	317	99	2417
Fastening device	R. W. Grove	705,836	July 29	4853	1054	100	1042
Fastening device	F. A. Fairbrother, Jr.	707,682	Aug. 26	3229	725	100	1832
Fastening device	P. Kleber	707,785	Aug. 26	3474	783	100	1881
Fastening device	W. J. Payne	712,003	Oct. 28	3126	693	101	698
Fastening device	B. F. Sutton	715,520	Dec. 9	1646	338	101	2190
Fastening device for articles of women's wear	I. H. Sessions	715,516	Dec. 9	1637	355	101	2188
Fastening device. String-	E. Flowers	704,016	July 8	1191	259	100	252
Fastening for articles of clothing	J. M. Duffy	701,313	June 3	56	12	99	2120
Fastening-inserting machine	L. A. Casgrain	693,686	Feb. 18	2793	1615	98	1420
Fastening-inserting machine	E. T. Freeman	714,572	Nov. 25	4077	916	101	1787
Fastenings. Machine for inserting metallic	L. A. Casgrain	691,354	Jan. 21	1885	425	98	428
Fat in granular form. Preparing	C. E. Iveson and A. R. Wilson	713,235	Dec. 16	3063	673	101	2512
Fat-washing apparatus	D. I. Davis	706,083	Aug. 7	58	13	100	1129
Fats or the like. Apparatus for the recovery of	C. Kremer	700,056	May 13	1791	414	99	1556
Fatty compound of iodine and sulfur and making same	O. Degner	696,900	Apr. 1	974	415	99	206
Faucet	A. Huck	693,865	Feb. 25	3132	693	98	1507



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Faucet.....	J. E. O'Lally.....	695,697	Mar. 18	2548	577	98	2279
Faucet.....	N. Curtis.....	696,135	Mar. 25	3386	763	98	2468
Faucet.....	J. C. Poetz.....	697,881	Apr. 15	3786	617	99	624
Faucet.....	F. F. Field.....	699,377	May 6	468	110	99	1271
Faucet.....	P. P. Sparmaker.....	702,680	June 17	2555	586	99	2672
Faucet.....	R. W. Booth.....	700,389	Sept. 16	2681	601	100	2505
Faucet.....	B. Woodhall.....	711,609	Oct. 21	3333	510	101	514
Faucet.....	G. A. Blake.....	711,735	Oct. 21	2618	576	101	575
Faucet.....	L. C. Glisson.....	715,259	Dec. 9	1163	249	101	2692
Faucet.....	J. Stretch and J. E. Crossley.....	715,622	Dec. 9	1837	408	101	2228
Faucet.....	J. Stretch and J. E. Crossley.....	715,623	Dec. 9	1837	408	101	2228
Faucet and automatic graduate. Measuring.....	G. J. Adams.....	707,532	Aug. 26	2924	661	100	1769
Faucet and hose connector.....	J. Blumer.....	715,542	Dec. 9	1710	378	101	2262
Faucet and valve.....	E. A. Pohlman.....	691,569	Jan. 21	2258	508	98	345
Faucet and water-controlling connection. Safety.....	E. G. Gassen.....	696,731	Apr. 1	635	143	99	137
Faucet. Combination.....	G. A. Soderlund.....	693,315	Feb. 11	2068	452	98	1250
Faucet connection.....	W. I. Fielding.....	696,230	Mar. 25	3576	800	98	2504
Faucet. Filter.....	J. F. Ryan and W. McEwan.....	701,943	June 10	1179	269	99	2371
Faucet. Filtering.....	W. A. Traxton.....	712,868	Nov. 4	756	176	101	1633
Faucet for dispensing beverages and filling siphon-bottles.....	J. F. Doyle.....	714,161	Nov. 25	3322	733	101	1936
Faucet for fluids. Compound.....	C. G. Loygorri y Murrieta.....	697,739	Apr. 15	2526	563	99	566
Faucet for syrup-bottles. Registering.....	F. E. Thompson and F. N. Young.....	691,881	Jan. 28	2871	646	98	630
Faucet-holder and solder-retainer. Combined.....	J. G. Porch.....	713,344	Nov. 11	1714	387	101	1265
Faucet. Hot or cold water.....	P. E. Pierce and W. Hanson.....	713,144	Nov. 11	1282	290	101	1177
Faucet. Measuring.....	W. Goebel.....	696,327	Mar. 25	3789	845	98	2550
Faucet. Oil or molasses.....	C. F. Smith.....	704,492	July 15	2998	642	100	643
Faucet or cock.....	A. Clarkson.....	693,839	Feb. 25	3077	678	98	1496
Faucet or tap.....	L. Wolf.....	700,189	Sept. 16	2273	516	100	2477
Faucet. Self-closing.....	J. W. Lyon.....	692,024	Jan. 28	3130	705	98	700
Faucet. Self-closing.....	W. Bunting, Jr.....	710,945	Oct. 14	1030	229	101	226
Faucet. Self-closing.....	G. A. Blake.....	711,754	Oct. 21	3517	576	101	575
Faucet. Self-closing.....	N. B. Gossard.....	711,846	Oct. 21	2782	616	101	616
Faucet. Vinegar.....	J. Ansley.....	712,353	Oct. 28	3147	819	101	823
Feather cleaning and renovating machine.....	M. R. Rubie.....	696,494	Apr. 1	178	44	99	42
Feather-cleaning machine.....	H. W. Pennypacker.....	700,078	May 13	1823	423	99	1563
Feather crushing and pulverizing machine.....	F. Franke.....	708,133	Sept. 2	249	59	100	2033
Feather fabric. Woven.....	E. K. Warren and J. H. Holden.....	700,630	Sept. 23	3142	720	100	2674
Feather fabric. Woven.....	E. K. Warren and J. H. Holden.....	700,631	Sept. 23	3143	700	100	2674
Feather fabric. Woven.....	E. K. Warren and J. H. Holden.....	700,632	Sept. 23	3144	700	100	2674
Feather-quiller.....	F. Franke.....	703,723	July 1	644	143	100	128
Feed and water device for chickens.....	G. C. Lathrop.....	697,313	Apr. 8	1777	398	99	398
Feed apparatus. Automatic.....	F. Woerner.....	700,110	May 13	1880	437	99	1574
Feed apparatus. Measured.....	S. B. Newberry.....	699,699	May 13	1101	258	99	1415
Feed-bag.....	G. L. Dale.....	695,246	Mar. 11	1816	404	98	2111
Feed-bag.....	D. Schurman.....	696,760	Apr. 1	639	156	99	147
Feed-bag. Self-adjusting.....	L. Cutler and C. W. Smith.....	710,670	Oct. 7	526	109	101	106
Feed-box for live stock.....	G. M. Fillmore.....	709,438	Sept. 16	2766	623	100	2538
Feed cutter. Stock.....	L. L. Mallard.....	710,919	Oct. 7	980	216	101	199
Feed-cutters. Pneumatic feed-conveyor for.....	E. C. and A. J. Wilhams.....	691,034	Jan. 14	1263	286	98	278
Feed-distributor.....	W. B. Campbell.....	691,439	Jan. 21	2042	457	98	461
Feed lubricator. Automatic roller.....	J. Fanning.....	715,643	Dec. 2	701	163	101	1390
Feed lubricator. Choke.....	G. S. Webster.....	715,913	Dec. 16	2436	538	101	2375
Feed mechanism.....	H. Marles.....	705,840	July 29	5440	1098	100	1079
Feed-regulating apparatus. Automatic.....	G. Hoepner.....	691,627	Jan. 21	2385	536	98	530
Feed-regulator.....	C. B. Moore and G. B. Totman.....	700,219	May 20	2156	494	99	1651
Feed-regulator.....	G. Hoepner.....	713,099	Nov. 11	1207	276	101	1162
Feed-regulator. Boiler.....	O. E. and E. E. Clark.....	714,148	Nov. 25	3265	719	101	1624
Feed-regulator for steam-boilers. Automatic.....	J. S. V. Bickford.....	703,757	July 1	705	156	100	141
Feed-roll.....	E. Ordng.....	690,456	Jan. 7	133	28	99	30
Feed-roll.....	G. A. Ensign.....	715,041	Dec. 2	760	161	101	1990
Feed-rolls.....	C. W. H. Blood.....	696,307	Mar. 25	3739	835	98	2540
Feed-rolls.....	C. W. H. Blood. (Reissue).....	11,984	May 13	2928	462	99	1692
Feed-table mechanism.....	T. Morrison.....	704,890	July 15	2896	614	100	607
Feed-table-shifting mechanism.....	J. C. Cronwell.....	711,418	Oct. 14	1950	424	101	420
Feed-trough.....	J. M. Allen.....	702,686	June 17	2554	589	99	2674
Feed-trough.....	J. W. Barnes.....	705,896	July 29	4961	1079	100	1064
Feed-trough.....	J. Ahrends.....	711,032	Oct. 14	1296	265	101	265
Feed-trough and rack. Combined.....	A. B. Swope.....	698,925	Feb. 25	3352	710	98	1580
Feed-water, burner, or like regulator.....	J. Johnston.....	704,342	July 8	1824	365	100	394
Feed-water cleaner.....	I. B. Morison.....	700,068	May 13	1809	419	99	1560
Feed-water filter and heater.....	J. Davie.....	700,626	May 20	2943	675	99	1814
Feed-water heater.....	F. B. Matthews.....	695,320	Mar. 11	1871	417	98	2121
Feed-water heater.....	B. F. Kelley.....	698,290	Apr. 22	3567	787	99	804
Feed-water heater.....	F. W. Shupert.....	701,518	June 3	420	96	99	2194
Feed-water heater.....	R. H. Hornbrook.....	704,879	July 15	2818	609	100	608
Feed-water heater.....	F. W. Reich.....	705,293	July 22	3751	814	100	809
Feed-water heater.....	G. Florack.....	707,575	Aug. 26	3018	679	100	1788
Feed-water heater.....	W. H. Brown.....	712,118	Oct. 28	3342	731	101	740
Feed-water heater.....	C. H. Atkins.....	717,494	Dec. 30	5608	1217	101	3083
Feed-water heater and condenser.....	G. Z. Stansfield.....	692,378	Feb. 4	281	68	98	857
Feed-water heater and condenser.....	H. A. Fergusson.....	704,454	July 8	2030	440	100	428
Feed-water heater and purifier.....	T. Gunning.....	698,268	Feb. 11	1989	432	98	1243
Feed-water heater and purifier.....	I. Brooke.....	698,366	Apr. 22	3690	814	99	830
Feed-water heater and purifier.....	H. J. Reynolds.....	706,782	Aug. 12	1523	338	100	1444
Feed-water heater and purifier.....	J. E. Crawley.....	708,028	Sept. 2	55	13	100	1392

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Feed-water heater and purifier.	W. A. Gibson.	715,656	Dec. 9	1896	423	101	2240
Feed-water heater. Fuel-economizer.	W. Downs.	708,699	Sept. 9	1261	289	100	2248
Feed-water. Heating.	F. H. Trevithick.	699,777	May 13	1253	290	99	1445
Feed-water-purification system.	A. Sorge, Jr.	708,088	Sept. 2	160	38	100	2014
Feed-water purifier.	J. W. Pearce.	694,571	Mar. 4	459	99	98	1411
Feed-water purifier.	C. E. Ferreira.	710,399	Dec. 23	3406	742	101	2592
Feed-water regulator.	C. M. Spencer.	700,440	May 20	2618	598	99	1745
Feed-water regulator.	R. J. Flinn and G. P. Aborn.	712,186	Oct. 28	3459	1759	101	762
Feed-water regulator and high or low water alarm for steam-boilers.	T. W. Moran.	695,325	Mar. 11	1878	418	98	2123
Feed-water siphon and trap. Combined.	C. Linstrom.	699,331	May 6	380	80	99	1251
Feeder.	G. M. Hilger.	701,038	May 27	3760	862	99	2001
Feeder. Automatic boiler.	F. Leadbeater.	690,445	Jan. 7	111	24	98	26
Feeder. Automatic boiler.	C. Cummings.	710,317	Sept. 30	4484	1012	100	2967
Feeder. Boiler.	C. W. Hunt.	690,957	Jan. 14	1108	250	98	248
Feeder. Boiler.	H. G. Larcom.	698,296	Apr. 22	3577	788	99	806
Feeder. Boiler.	I. S. Davis.	712,267	Oct. 28	3596	785	101	792
Feeder. Boiler.	E. J. Wood.	714,549	Nov. 25	4038	839	101	1770
Feeder for motor-vehicles. Boiler.	W. L. Tobey.	693,190	Feb. 11	1848	400	98	1203
Feeder for young calves or colts.	R. A. Whitford.	697,304	Apr. 8	1721	384	99	386
Feeder or elevator. Automatic.	H. L. McCoy.	690,891	Jan. 7	986	224	98	207
Feeder. Steam-boiler compound.	W. D. Labadie.	698,552	Feb. 18	2528	587	98	1866
Feeder. Stock.	J. P. Bowmaker.	714,557	Nov. 25	4053	897	101	1782
Feeding and cleaning attachment. Boiler.	C. Reiser.	692,073	Jan. 28	3226	728	98	719
Feeding and scale-removing device for steam-boil- ers. Water.	J. M. Hogarth.	715,581	Dec. 9	1774	393	101	2215
Feeding and weighing mechanism. Automatic.	P. C. Waring.	698,234	Apr. 22	3469	763	99	784
Feeding device. Automatic boiler.	N. Curtis.	696,226	Mar. 25	3567	799	98	2503
Feeding device. Automatic proportional.	L. Serpillon.	702,491	June 17	2201	501	99	2599
Feeding device. Stock.	L. Helmick.	715,478	Dec. 9	1574	341	101	2175
Feeding device. Stock or poultry.	Z. Xevers.	701,121	May 27	3908	898	99	2032
Feeding devices. Quick return for.	W. J. Bussinger.	708,863	Sept. 9	1606	367	100	2933
Feeding-machine.	F. L. Cross.	690,702	Jan. 7	647	141	98	137
Feeding mechanism. Boiler.	R. H. White.	703,220	June 24	3593	823	99	2898
Feeding mechanism. Rotary.	A. C. Roebuck and F. McMillan.	693,158	Feb. 11	1769	388	98	1186
Feeding, printing, and cutting strips of material. Machine for.	S. Kops.	709,271	Sept. 16	2436	551	100	2513
Feeding-rack.	S. L. Lamoreux.	693,279	Feb. 11	2007	436	98	1236
Feeding rack and shearing table. Combination sheep.	V. Baughman.	708,297	Sept. 2	558	126	100	2095
Feeding steam-boilers. Apparatus for forcing liq- uids adapted for.	C. Caille.	714,096	Nov. 18	3167	701	101	1584
Feeding steam-generators. Apparatus for forcing liquids particularly applicable for.	C. Caille.	714,097	Nov. 18	3169	701	101	1585
Fellies. Machine for drilling rivet-holes in metallic wheel.	G. H. Everson.	698,189	Apr. 22	3387	743	99	767
Fellies or the like. Attachment for cutting.	W. E. Swinell.	707,179	Aug. 19	2958	505	100	1613
Felly and tire brace.	J. M. Thorne.	692,944	Feb. 11	1342	292	98	885
Felly. Vehicle-wheel.	C. B. Van Horn.	697,118	Apr. 8	1387	308	99	312
Felt boot.	C. E. Seibert.	710,925	Oct. 7	990	218	101	202
Felted boots or fabrics. Forming bellows folds in. ton.	D. A. Shaw, E. Roos, and H. B. Pel-	710,527	Oct. 7	261	58	101	53
Fence.	D. L. M. Titsworth.	691,504	Jan. 21	2157	483	98	484
Fence.	F. Lichtfeldt.	692,461	Feb. 4	420	99	98	885
Fence.	T. P. De Witt.	692,991	Feb. 11	1433	311	98	1119
Fence.	E. Lavelly.	697,259	Apr. 8	1637	367	99	369
Fence.	W. M. Craft.	698,177	Apr. 22	3361	735	99	761
Fence.	H. Bowen.	699,283	May 6	287	66	99	1233
Fence.	L. M. Runyon.	699,816	May 13	1326	308	99	1461
Fence.	T. Rodecker.	703,305	June 24	3721	857	99	2925
Fence.	W. A. Rabe.	705,641	Aug. 12	1943	274	100	1385
Fence.	G. Gentslinger.	709,315	Sept. 16	2319	526	100	2489
Fence.	E. D. Carr.	712,259	Oct. 28	3586	783	101	789
Fence. Barbed-wire.	J. H. Bain.	699,062	Apr. 29	5058	1118	99	1139
Fence-builder and hay-derrick.	W. W. C. Hill.	708,551	Sept. 9	989	223	100	2193
Fence clip. Wire.	F. Canfield.	706,385	Aug. 5	771	168	100	1270
Fence construction.	J. O. Smith.	701,810	June 2	930	290	99	2305
Fence fabric. Woven-wire.	E. Warner.	709,065	Sept. 16	2020	461	100	2424
Fence fabrics. Making.	J. M. Stucker.	698,337	Apr. 22	3636	804	99	819
Fence. Farm.	B. F. Zent.	694,084	Feb. 25	3573	789	98	1505
Fence fastening-clip. Wire.	F. Canfield.	706,220	Aug. 5	420	90	100	1292
Fence for chicken-closures. Portable.	G. C. Lathrop.	694,761	Mar. 4	821	181	98	1885
Fence-guard. Barb-wire.	J. A. Anderson.	715,728	Dec. 16	2053	467	101	2224
Fence-jack.	L. C. Kelly and C. E. Amspacher.	695,734	Mar. 18	2806	591	98	2291
Fence-lock.	W. B. MacLean.	705,951	July 29	5062	1102	100	1084
Fence-machine.	L. D. Peak and J. W. Osborne.	697,357	Apr. 8	1799	403	99	402
Fence machine. Wire.	H. Martin.	694,768	Mar. 4	842	186	98	1890
Fence machine. Wire.	J. W. Diggins and L. Swank.	698,186	Apr. 22	3375	739	99	764
Fence machine. Wire.	A. C. Mills and G. R. Lamb.	698,533	Apr. 29	3993	883	99	908
Fence machine. Wire.	P. M. Mishler.	708,804	July 1	792	174	100	159
Fence machine. Wire.	G. P. A. Weisenborn.	705,500	July 22	4170	907	100	892
Fence machine. Woven-wire.	F. Stebler.	700,710	May 20	3114	707	99	1851



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Fence-making machine.	E. E. Stewart.	704,396	July 8	1923	416	100	405
Fence-making machine.	J. and P. W. Sommer.	711,011	Oct. 14	1154	255	101	253
Fence-making machine.	W. C. Kincaid.	713,452	Nov. 11	1898	430	101	1303
Fence-making-machine spreader.	W. C. Kincaid.	699,190	May 6	112	39	99	1198
Fence. Portable.	J. Steiner.	704,377	July 8	1702	371	100	336
Fence. Portable cable-anchor.	A. L. West.	691,425	Jan. 21	2010	470	98	433
Fence-post.	J. Pegg.	693,061	Feb. 11	1551	338	98	1145
Fence-post.	J. J. Boyle.	693,582	Feb. 18	2398	575	98	1379
Fence-post.	E. M. Bunce.	693,947	Feb. 25	3294	725	98	1539
Fence-post.	R. T. Van Valkenburg.	696,520	Apr. 1	231	52	99	53
Fence-post.	C. W. Snook.	697,031	Apr. 8	1247	278	99	284
Fence-post.	C. A. Thornburg and A. L. Danzer.	698,759	Apr. 29	4482	991	99	1014
Fence-post.	F. A. Peebles.	700,077	May 13	1822	423	99	1503
Fence-post.	O. R. Smith and F. T. Bisbee.	700,383	May 20	2502	573	99	1720
Fence-post.	C. Leali.	700,431	May 20	2583	592	99	1738
Fence-post.	C. L. Tuttle.	701,426	June 3	256	57	99	2161
Fence-post.	R. R. Spore and J. M. Raub.	701,771	June 3	879	195	99	2292
Fence-post.	J. A. Mitchell.	702,330	June 10	1707	384	99	2476
Fence-post.	A. Henry.	704,035	July 8	1232	266	100	390
Fence-post.	C. O. Peak.	704,915	July 15	2022	626	100	629
Fence-post.	J. W. Todd.	704,983	July 15	3089	665	100	659
Fence-post.	W. R. Johnson.	709,224	Sept. 16	2331	528	100	2495
Fence-post.	J. Buchtel.	709,300	Sept. 16	2489	560	100	2524
Fence-post.	C. O. Blee and J. H. Redding.	709,735	Sept. 23	3336	752	100	2711
Fence-post.	I. W. Warner.	709,789	Sept. 23	3359	780	100	2814
Fence-post.	F. R. Parker.	716,749	Dec. 23	4081	884	101	2783
Fence-post.	C. H. Hutchings.	716,896	Dec. 30	4487	972	101	2847
Fence-post anchor.	L. Swoverland.	692,731	Feb. 4	903	206	98	984
Fence post and brace.	L. L. Leslie.	693,285	Feb. 11	2015	439	98	1238
Fence-post and fence-stay.	V. H. Abbott.	710,031	Sept. 30	3048	890	100	2853
Fence-post brace.	E. Love.	714,644	Nov. 25	4217	932	101	1814
Fence-post. Bracket.	W. M. Smith.	702,050	June 2	159	39	99	2014
Fence-post. Composition.	D. W. Larimer and D. C. Elliott.	704,842	July 15	2752	595	100	394
Fence-post. Iron.	P. Borchers.	695,439	Mar. 18	2065	465	98	2182
Fence-post-making machine.	O. R. Smith and F. T. Bisbee.	700,252	May 20	2226	509	99	1667
Fence-post. Metal.	C. C. Hagerman.	707,586	Aug. 26	3040	683	100	1793
Fence-post. Metal.	T. Beerbower.	714,275	Nov. 25	3546	780	101	1682
Fence-post. Metallic.	O. A. Harker, Jr.	703,726	July 8	653	144	100	181
Fence-post. Metal.	J. A. Viter.	709,617	Sept. 23	3138	690	100	2673
Fence-post or telegraph-pole.	I. M. Warner.	716,968	Dec. 30	4621	1002	101	2874
Fence-post, telegraph-pole, &c.	I. M. Warner.	702,893	June 17	2949	680	99	2753
Fence-posts. Machine for molding concrete.	C. H. Hutchings.	714,184	Nov. 25	3372	742	101	1646
Fence ratchet or tightener. Wire.	C. A. Willmarth.	713,730	Nov. 18	2456	547	101	1435
Fence reel. Wire.	O. Thompson.	695,351	Mar. 11	1918	427	98	2131
Fence reel. Wire.	O. Thompson and J. A. Baldridge.	695,332	Mar. 11	1919	428	98	2131
Fence. Stationary.	A. and C. E. Cook and W. H. Hood.	704,297	June 3	32	7	99	2115
Fence stretcher. Wire.	I. M. Warner.	705,498	July 22	4166	907	100	891
Fence stretcher. Wire.	I. M. Warner.	714,071	Nov. 18	3122	690	101	1575
Fence tool. Wire.	J. O. Berry.	692,818	Feb. 11	1071	241	98	1043
Fence tool. Wire.	W. Neeb.	701,760	June 3	859	190	99	2288
Fence tool. Wire.	C. Whipple.	705,504	July 22	4177	909	100	893
Fence. Wire.	C. T. Brown.	690,514	Jan. 7	284	57	98	82
Fence. Wire.	C. T. Brown and J. G. Opel.	700,074	May 13	1816	423	99	1366
Fence. Wire.	L. C. Hoover.	706,562	Aug. 12	1065	243	100	1333
Fence. Wire.	C. S. Beebe.	706,883	Aug. 12	1708	382	100	1483
Fence. Wire.	M. D. Shipman.	707,457	Aug. 19	2765	627	100	1719
Fence. Wire.	I. N. O'Neal.	708,391	Sept. 2	703	158	100	2124
Fence. Wire.	A. G. Hoefer.	710,913	Oct. 7	966	213	101	197
Fence. Wire.	J. F. Donaghy.	711,388	Oct. 14	1906	415	101	412
Fence. Wire.	F. R. Longstreet.	711,574	Oct. 21	2354	491	101	500
Fence. Wire.	J. Harris.	714,178	Nov. 25	3361	740	101	1644
Fence. Wire.	H. P. Ewell.	714,683	Dec. 2	61	12	101	1850
Fence. Wire.	A. C. Gordon.	716,337	Dec. 23	4360	946	101	2804
Fence-wire fastener.	M. M. Benster.	703,756	July 1	704	156	100	141
Fence-wire fastener.	G. H. Wright.	711,450	Oct. 14	2016	436	101	434
Fence-wire stretcher.	E. Sahler.	699,246	May 6	305	49	99	1216
Fence-wire tightener.	R. A. Winters.	696,291	Mar. 25	3185	627	98	2328
Fence-wire tightener.	C. W. Hoagland.	714,302	Nov. 25	3608	792	101	1602
Fence. Woven-wire.	R. H. Bloomer.	715,541	Dec. 9	1709	378	101	2291
Fences. Machine for weaving cross-wires in.	N. Steele and H. Brown.	699,985	May 13	1698	383	99	1531
Fences. Machine for weaving cross-wires in.	W. Groves and G. D. O'Day.	709,540	Sept. 23	3009	670	100	2647
Fencing rod. Wire.	A. T. de Bary.	713,941	Nov. 18	2870	636	101	1521
Fencing. Wire.	M. T. Shipman.	707,455	Aug. 19	2764	636	100	1719
Fencing. Woven-wire.	J. M. Denning.	697,063	Apr. 8	1234	282	99	290
Fencing. Woven-wire.	A. W. Wellman.	707,743	Aug. 26	3373	750	100	1861
Fender.							
See Boat-fender.	Horn-fender.						
Car-fender.	Vehicle-fender.						
Clod-fender.							
Fender.	R. Smith and H. W. Leonhard.	692,187	Jan. 28	3420	774	98	750
Fender.	A. Beck.	700,716	May 20	3129	710	99	1854
Fender.	E. E. and E. E. Clark.	701,682	June 3	726	160	99	2260
Fender and brake. Combined.	M. Kuehn.	701,361	June 3	146	31	99	2138
Ferrosilicon and silicospiegel. Manufacturing.	G. Glu.	712,925	Nov. 4	865	101	1074	
Ferrous liquors. Treating.	A. S. Ramage.	708,585	Sept. 9	1046	238	100	2294
Ferrule.	C. Padelwitz.	703,457	July 1	155	36	100	23
Ferrule cover. Trap.	O. G. Hitchcock.	712,379	Oct. 28	3788	829	101	832
Ferrule for awl or knife handles.	E. Edwards.	699,794	May 13	1284	297	99	1451
Ferrule for fork-handles.	G. A. McKeel.	709,108	Sept. 16	2110	484	100	2445
Fertilizer and making same.	G. H. Smith.	705,462	July 22	4100	100	880	
Fertilizer and the product resulting therefrom.	J. J. Crooke.	712,045	Oct. 28	3191	101	712	
Converting salt-marsh material, &c., into a							
Fertilizer-distributor.	J. S. Kemp.	695,212	Mar. 11	1678	372	98	2083

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & C.	Vol.	Page.
Fertilizer-distributor	C. H. Pelton	696,476	Apr. 1	152	36	99	38
Fertilizer-distributor	C. H. Sanford	699,247	May 6	207	40	99	1216
Fertilizer-distributor	W. P. Mize	700,583	May 20	2784	636	99	1780
Fertilizer-distributor	T. J. Waddell	701,778	June 3	888	198	99	2294
Fertilizer-distributor	C. Johnson and O. C. Rawley	704,747	July 15	2509	554	100	551
Fertilizer-distributor	A. McWhorter	705,888	July 29	4896	1065	100	1051
Fertilizer-distributor	E. L. Braxton	708,118	Sept. 2	215	51	100	2026
Fertilizer-distributor	J. R. Ayers	711,274	Oct. 14	1692	365	101	365
Fertilizer-distributor	J. Oppenheim and H. Synck	712,581	Nov. 4	231	56, 57	101	946
Fertilizer-distributor	E. C. Smith	714,527	Nov. 25	4000	885	101	1771
Fertilizer-distributor and cultivator. Combined.	C. M. Huff	716,042	Dec. 16	2685	593	101	2429
Fertilizer-distributor and planter	J. B. Crowder	715,556	Dec. 9	1734	381	101	2206
Fertilizer-distributor and seed-planter. Combined.	W. B. Rohmer	710,011	Sept. 30	3914	684	100	2846
Fertilizer-distributing receptacle. Plant-	J. E. Edwards	701,316	June 3	69	14	99	2123
Fertilizer-dropper	J. L. Blanton	712,489	Nov. 4	46	12, 13	101	907
Fertilizer or seed distributor	A. Benton	712,481	Nov. 4	32	10	101	904
Fertilizer, seed, and grain distributor	T. C. Sargeant	692,715	Feb. 4	882	201	98	979
Fertilizer-spreader	J. R. and C. E. Porter	716,934	Dec. 30	4550	988	101	2800
Fertilizers. Making	B. Terne	709,185	Sept. 16	2269	516	100	2477
Fiber-cleaning machine	S. B. and M. E. Allison	715,736	Dec. 16	2035	459	101	2294
Fiber-crosser	P. Mickle	698,304	Apr. 22	5388	701	99	800
Fiber from stalks. Machine for separating.	S. B. Allison	690,817	Jan. 7	869	192	98	184
Fiber. Machine for making wood	G. E. Le Clair	692,303	Jan. 23	3451	780	98	766
Fiber. Machine for reducing wood to	W. K. Squier	701,413	June 3	229	51, 52	99	2154
Fiber machines. Cutter-head for wood-	I. W. Hoover	714,182	Nov. 25	3370	742	101	1645
Fiber-separating machine	S. B. Allison	699,638	May 13	970	226	99	1391
Fiber. Treating vegetable	C. T. Lee	712,116	Nov. 11	1225	101	1168	
Fiber-ware, &c. Indurating	J. Peterson	696,370	Mar. 25	3003	98	2570	
Fibers from reeds, rushes, &c. Producing long and short	L. v. Ordody	703,814	July 1	816	100	163	
Fibers of annual growth for industrial purposes. Treating	S. O. Edison	704,698	July 15	2469	533	100	532
Fibers or filaments from solutions of cellulose, &c., and for twisting and putting into coil form such or other fibers or filaments. Apparatus for the production of textile	C. F. Topham	702,382	June 10	1970	449	99	2530
Fibers. Retting vegetable	B. S. Summers	696,515	Apr. 1	211	90	49	
Fibrous material. Producing molded articles from	J. W. Strehl	717,050	Dec. 30	4780	101	2909	
Fibrous materials. Machine for baling or winding	W. B. Lee	711,982	Oct. 28	3054	676	101	690
Fibrous materials. Machine for circulating and separating waste	J. Marshall	707,133	Aug. 19	2156	484	100	1592
Fibrous or other material. Apparatus for compressing	G. A. Lowry and J. T. Cowley	715,824	Dec. 16	2245	501	101	2383
Fibrous plants. Machine for disintegrating	M. Prieto	705,140	July 22	3420	742	100	742
Fibrous substances. Treating	E. T. Holmes	704,239	July 8	1670	303	100	350
Fifth-wheel	C. P. Niles	696,083	Aug. 12	1322	292	100	1402
Fifth-wheel	S. E. Bangs	696,300	Mar. 25	3703	828	98	2532
Fifth-wheel	J. Watts	707,189	Aug. 19	2281	511	100	1620
Fifth-wheel	A. Gustafson	715,057	Dec. 2	787	167	101	1965
Filament for incandescent electric lamps known as	R. Arno	713,586	Nov. 18	2188	457	101	1377
Nernst lamps.							
Filaments. Apparatus for the production of fiber-	W. A. P. Werner	697,580	Apr. 15	2224	496	99	504
Filaments for incandescent electric lamps. Former	G. C. Webster	694,220	Feb. 25	3283	847	98	1644
Filaments from cellulose solutions. Manufacture of	E. Thiele	710,819	Oct. 7	814	175	101	167
File	L. C. McNeal	690,869	Jan. 7	943	211	98	198
File	J. F. Sullivan	690,591	May 6	88	204	98	1357
File	H. D. Engleking	699,748	May 13	1188	270	99	1431
File	J. D. Allen	706,630	Aug. 12	1219	270	100	1378
File	L. C. McNeal	708,388	Sept. 2	696	157	100	2122
File	G. H. Kravik	709,640	Sept. 23	3174	708	100	2080
File	H. F. Engleking	709,880	Sept. 30	3682	830	100	2797
File. Account-	L. J. Krohn	697,092	Apr. 8	1354	300	99	307
File. Account-	W. B. Anderson	698,350	Apr. 22	3658	308	99	824
File and cabinet. Letter	W. C. Hunge	700,417	May 20	2560	586	99	1732
File and copy-holder. Combined letter-	W. M. Barger and F. J. Birss	692,971	Feb. 11	1397	303	98	1112
File and display book.	H. Zevy	697,592	Apr. 15	2248	501	99	510
File. Bill-	P. H. Yawman	701,448	June 3	291	65	99	2168
File binder-bar.	H. Kell	717,412	Dec. 30	5464	1185	101	3054
File. Book	T. A. King	695,814	Mar. 18	2754	627	98	2322
File-box	S. E. Trambly	715,710	Dec. 9	125	35	101	2361
File-cabinet	D. E. Hunter	696,049	Mar. 25	3197	722	98	2487
File-cabinet	C. F. W. Ahrens	701,000	May 27	3677	844	99	1981
File. Card-index	W. D. and J. D. Kelly	692,525	Feb. 4	549	129	98	910
File. Card-index	G. F. Watt	700,391	May 20	2513	575	99	1723
File. Card-index	C. W. Scarritt. (Reissue)	12,048	Oct. 28	3982	870	101	872
File-case. Personal account	J. A. Hoffman and W. R. Magie	691,628	Jan. 21	2387	537	98	531
File. Document-	L. J. Krohn	714,715	Dec. 2	125	35	101	1868
File. Document-	E. G. Waters	700,267	May 20	2255	515	99	1673
File. Document-	W. S. Ebbets	711,301	Oct. 14	1749	378	101	379
File. Document-	G. H. Richter	712,596	Nov. 4	258	63	101	951
File. Document-	F. Trambly	713,363	Nov. 11	1733	395	101	1273
File for bills, &c	F. K. Krag	698,968	Apr. 29	4902	1083	99	1107
File for papers and documents	G. E. Schmidmer	709,559	Sept. 23	3041	677	100	2652
File-handle	P. Bender	706,378	Aug. 5	751	164	100	1267



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
File. Index.	W. E. Ball	698,621	Apr. 29	4190	324 925	99	947
File. Letter.	F. McIntyre	693,301	Feb. 11	2046	446	98	1244
File. &c. Letter.	C. T. Daniel	699,290	May 6	304	70	99	1237
File. Letter.	W. F. Maloney	710,364	Sept. 30	3508	1080	100	1285
File. Letter.	F. Traublay	713,217	Oct. 28	3510	770	101	173
File. Letter.	F. W. Tobey	716,148	Dec. 16	2904	639	101	2174
File. Loose-leaf	L. G. Schult	712,008	Oct. 28	3138	686	101	700
File. Newspaper.	W. L. Lambkin.	692,153	Jan. 28	3361	761	98	747
File or drawer for card-indexes	P. H. Yawman	717,490	Dec. 30	5601	1216	101	3081
File or rasp cutting machine	J. Green	691,622	Jan. 21	2371	534	98	527
File. Paper.	S. F. Beckwith	691,235	Feb. 25	3843	832	98	1648
File. Paper.	E. W. Sandstedt	704,985	July 15	2984	639	100	640
File. Paper.	G. A. Phillips.	705,132	July 22	3398	738	100	737
File. Paper.	W. Downie	710,442	Oct. 7	79	18	101	18
File. Paper.	Z. C. Ketchum	710,586	Oct. 7	368	77	101	74
File. Periodical.	C. L. Prindle	708,169	Sept. 2	322	77	100	2047
File-wrappers	F. L. Danforth	713,071	Nov. 11	1140	262	100	1147
Files and binders. Transfer-frame for letter.	J. F. Cordes	703,767	July 1	221	160	100	115
Filing-cabinet.	P. H. Yawman	701,449	June 3	292	65	99	2168
Filing case. Card.	F. W. Tobey	711,347	Oct. 14	2010	435	101	433
Filing device for bank-checks, &c	J. H. Rand	691,177	Jan. 14	1508	340	98	329
Filing-receptacles, &c. Locking device for	D. E. Wright	709,844	Sept. 23	3560	803	100	2760
Filing-receptacles, &c. Locking device for	D. E. Wright	709,845	Sept. 23	3562	803	100	2769
Filing tray. Card-index.	A. H. Miller	701,732	June 3	848	187	98	2386
Filing device. Receptacle.	N. D. Nelson	704,595	July 13	2256	488	100	487
Filing-indicator	L. F. Doellinger	701,442	July 8	1999	435	100	421
Filing-machine. Centrifugal	N. Ceipek	701,366	June 3	331	73	99	2177
Filing machine. Receptacle.	C. H. Rounds.	711,680	Oct. 21	2470	543	101	545
Filter.	C. S. Parker	690,457	Jan. 7	134	29	98	31
Filter.	E. M. Knight	690,524	Jan. 7	307	61	98	67
Filter.	I. N. Speer	692,377	Feb. 6	88	68	98	2857
Filter.	C. E. Chamberland	693,575	Mar. 11	1961	438	98	2141
Filter.	A. Johnson	696,241	Mar. 25	3596	804	98	2508
Filter.	C. R. Harris	700,916	May 27	3529	809	99	1951
Filter.	G. F. Hodgkinson	701,726	June 3	806	179	99	2277
Filter.	V. Oster	702,466	June 17	2148	489	99	2587
Filter.	D. E. Shinn	702,495	June 17	2210	503	99	2601
Filter.	J. E. Charon	704,815	July 15	2711	586	100	580
Filter.	W. R. Powell	704,921	July 15	2940	630	100	632
Filter.	W. H. Sargent	705,447	July 22	4066	631	100	874
Filter.	F. S. Young and W. W. Ueberroth.	706,370	Aug. 5	729	158	100	1263
Filter.	C. Hungerford	707,338	Aug. 19	2551	575	100	1674
Filter.	F. Bommarius	707,899	Aug. 26	3709	832	100	1926
Filter.	J. Kostálek	709,712	Sept. 23	3300	741	100	2706
Filter.	T. Linke	710,285	Sept. 30	4433	999	100	2957
Filter.	G. F. Goddard	711,046	Oct. 14	1244	272	101	272
Filter.	G. Scholl	711,535	Oct. 21	2201	478	101	487
Filter.	C. P. Simmons	714,956	Dec. 2	628	132	101	1961
Filter.	J. Kostálek	715,275	Dec. 9	1191	253	101	2098
Filter.	J. A. Davidson	716,989	Dec. 30	4666	1012	101	2884
Filter and cooler. Combined	J. E. Bimm	713,197	Nov. 11	1389	312	101	1198
Filter and filtering system	R. J. Goade	713,759	Nov. 18	2510	558	101	1447
Filter and hydraulic press member	M. A. Smith	707,029	Aug. 12	1963	439	100	1534
Filter attachment.	W. T. Erickson	711,896	Oct. 21	2769	613	101	606
Filter. Barrel.	D. C. Mosher	699,211	May 6	145	37	98	1205
Filter. Barrel.	D. C. Mosher	699,212	May 6	147	37	98	1205
Filter. Barrel.	J. J. Frindle	712,963	Nov. 4	945	219	101	1001
Filter-bed	J. C. Wallace	705,726	July 29	4663	1011	100	1003
Filter-bed for chlorination-barrels	A. E. Johnson	706,472	Aug. 5	946	206	100	1307
Filter-beds. Apparatus for distributing liquids over	W. D. Scott-Moncrief	710,525	Oct. 7	256	57	101	52
Filter. Cistern.	J. W. Craine	715,554	Dec. 9	1732	381	101	2206
Filter. Cistern.	L. A. Miller	716,734	Dec. 23	354	888	101	3730
Filter. Coffee.	R. F. Shriver	701,632	June 3	646	141	99	2243
Filter. Coffee.	R. Aubry	713,192	Nov. 11	1382	311	101	1197
Filter for recovering the liquid from slimes, sands, pulp, or such like in connection with cyanid or other chemical applications. Revolving vacuum.	G. Jr., and S. E. Fraser	706,920	Aug. 12	1774	397	100	1497
Filter. Metallurgical.	F. H. Long	691,706	Jan. 21	2522	565	98	590
Filter. Oil.	H. B. Wymann	691,835	Jan. 28	2796	628	98	631
Filter. Oil.	H. Sims	694,434	Mar. 4	199	42	98	1733
Filter. Oil.	T. Neuray	702,814	June 17	2805	645	99	2724
Filter. Oil.	J. D. Edwards	713,292	Nov. 11	1624	367	101	1241
Filter. Oil.	A. H. Franke	715,047	Dec. 2	772	164	101	1992
Filter. Oil.	H. F. Maranville and W. F. War-den.	717,106	Dec. 30	4877	1036	101	2929
Filter-press	E. Wernecke	691,030	Jan. 14	1256	284	98	277
Filter-press	J. Wilson	699,052	Apr. 29	5039	1114	99	1136
Filter-press	F. M. Locke	707,245	Aug. 19	2371	531	100	1638
Filter-press	S. F. Guy	714,174	Nov. 25	3353	738	101	1642
Filter-strainer	W. Wagner	690,541	Jan. 7	331	67	98	72
Filter. Water.	W. Wagner	690,541	Jan. 7	331	67	98	71
Filter. Water.	J. W. McLean	701,373	June 3	160	35	99	2141

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &	Vol.	Page.
Filter. Water.....	A. G. Noack.....	705,696	July 29	4607	999 1000	100	992
Filters, waterworks, &c. Indicating device for.....	C. L. Parmelee.....	711,521	Oct. 21	2164	473	101	480
Filtering and lubricating apparatus. Oil.....	J. B. Allfree.....	696,919	Apr. 8	1017	226	99	235
Filtering and regulating device.....	M. M. Brophy.....	691,529	Jan. 21	2196	493	98	493
Filtering apparatus.....	E. De Meulemeester.....	708,559	July 1	331	75	100	67
Filtering apparatus.....	D. Rojat.....	703,833	July	844	186	100	169
Filtering apparatus.....	C. Baechler.....	707,537	Aug. 26	2930	693	100	171
Filtering or cleaning plant. Water.....	J. V. Evans.....	700,163	May 13	2026	462	99	1602
Filtering or separating liquids from solids. Apparatus for.....	H. C. Schlichter.....	717,032	Dec. 30	4749	1029	101	2902
Filtering-press.....	C. W. Thompson.....	713,717	Nov. 18	2423	542	101	1428
Filtration apparatus for municipal or commercial uses.....	K. Ensinger.....	702,051	June 10	1383	314	99	2409
	J. P. Keane.....	714,709	Dec. 2	112	22, 23	101	1860
Fine-fuel combustion.....	W. H. Fenner.....	698,191	Apr. 22	3395	746	99	768
Fine-fuel furnace.....	W. H. Fenner.....	698,190	Apr. 22	3389	744	99	768
Fine-fuel furnace.....	R. Herzberg.....	700,198	May 20	2111	483	99	1643
Finger-ring.....	C. T. Wittstein.....	694,595	Mar. 4	497	108	98	1818
Finger-ring.....	N. Rosen.....	704,273	July 8	1693	399	100	355
Finger-ring. Initial.....	F. G. Frey, Jr.....	700,637	May 20	2958	679	99	1818
Finger-straightening case.....	M. Gottschalk.....	705,920	July 29	5008	1090	100	1073
Finishing-machine.....	G. Shutt.....	710,620	Oct. 7	434	91	101	87
Fire-alarm.....	J. A. Olson.....	698,047	Apr. 22	3092	680	99	705
Fire-alarm.....	C. R. Harris.....	704,681	July 15	2438	527	100	525
Fire-alarm apparatus.....	L. Campbell.....	692,765	Feb. 4	965	119	98	994
Fire-alarm appliance.....	D. T. Spring and A. Long.....	691,197	Jan. 14	1545	349	98	357
Fire-alarm. Automatic.....	M. K. Fred.....	703,909	July 1	987	215	100	197
Fire-alarm. Automatic.....	F. Bernardin.....	713,050	Nov. 11	1099	254	101	1138
Fire-alarm-box keys. Keeper for.....	C. E. Gibson.....	717,188	Dec. 30	5073	1100	101	2972
Fire-alarm. Explosive.....	C. E. Buell.....	693,229	Feb. 11	1924	418	98	1219
Fire-alarm signaling apparatus.....	J. Hamer.....	712,525	Nov. 4	116	29	101	923
Fire-alarm-telegraph repeater.....	L. G. Woolley.....	695,777	Mar. 18	2682	609	98	2307
Fire-alarm-telegraph system.....	R. G. Callum.....	706,384	Aug. 5	767	168	100	1269
Fire-alarms. Circuit-maker for electric.....	F. W. Jordan.....	695,398	Mar. 11	1908	447	98	2149
Fire. Apparatus for discharging inflammable or other liquids from storage-tanks at the outbreak of.....	C. Allenou.....	710,091	Sept. 30	4067	917 918	100	2878
Fire-arch.....	H. A. Poppenhusen.....	697,658	Apr. 15	2377	529	99	534
Fire-cracker.....	A. Delgrande.....	692,769	Feb. 4	972	220	98	996
Fire-cracker-loading machine.....	C. B. Bidwell.....	691,103	Jan. 14	1373	312 313	98	301
Fire detector and alarm.....	F. G. Gaschlin.....	693,003	Feb. 11	1449	315	98	1123
Fire-door.....	H. R. Rose.....	695,175	Mar. 11	1610	357	98	2069
Fire-door apparatus. Thermostatic.....	J. T. McCabe.....	703,347	June 24	3312	876	99	2945
Fire-door. Automatic self-closing.....	G. M. McClain.....	698,540	Apr. 23	4004	855	99	911
Fire-door catch.....	J. W. Tripp.....	696,214	Mar. 25	3548	793 794	98	2499
Fire-door holding and releasing device.....	P. Olsen.....	696,693	Apr. 1	558	127 128	99	121
Fire-door lock.....	G. Albrecht.....	713,372	Nov. 11	1775	399	101	1277
Fire-doors. Apparatus for automatically operating.....	C. R. Bumbarger.....	712,256	Oct. 28	3577	782	101	787
Fire-doors, &c. Electrical releaser for.....	H. J. Podlesák.....	709,607	Sept. 23	3120	695	100	2699
Fire-engine.....	P. H. Dedrick.....	715,560	Dec. 9	1742	385	101	2208
Fire-engine fire-kindler.....	H. W. Hines.....	696,438	Apr. 1	83	19	99	22
Fire-engine. Stationary chemical.....	R. B. Sigafos.....	692,724	Feb. 4	893	204	98	982
Fire-engines. Signal installation for.....	J. H. Deters.....	711,718	Oct. 21	2540	558	101	559
Fire-escape.....	T. G. Joyce.....	691,775	Jan. 28	2680	601	98	611
Fire-escape.....	H. Behrens.....	691,928	Jan. 28	2950	664	98	665
Fire-escape.....	R. Barclay.....	692,191	Jan. 28	3427	776	98	761
Fire-escape.....	G. Loewenstein.....	692,684	Feb. 4	832	189	98	970
Fire-escape.....	T. G. Goodfellow.....	692,847	Feb. 11	1119	250	98	1053
Fire-escape.....	A. H. Andrews.....	693,095	Feb. 11	1619	354	98	1158
Fire-escape.....	H. Sperling.....	693,533	Feb. 18	2496	548	98	1359
Fire-escape.....	J. W. Groff.....	693,646	Feb. 18	2721	600	98	1405
Fire-escape.....	J. Frenzel.....	694,145	Feb. 25	3672	812	98	1616
Fire-escape.....	F. Kaschewitz and P. Barthel.....	694,866	Mar. 4	1016	324	98	1927
Fire-escape.....	J. C. Sharp.....	695,001	Mar. 11	1275	381	98	1927
Fire-escape.....	F. Bielen.....	695,140	Mar. 11	1530	343	98	2057
Fire-escape.....	J. Williams.....	695,775	Mar. 18	2680	608 609	98	2307
Fire-escape.....	J. W. Schumacher.....	696,149	Mar. 25	3430	769	98	2476
Fire-escape.....	W. Stewart.....	696,508	Apr. 1	201	48	99	47
Fire-escape.....	T. J. Briner.....	696,711	Apr. 1	603	136	99	131
Fire-escape.....	W. R. and N. B. Cain.....	696,855	Apr. 1	1840	198	98	193
Fire-escape.....	H. Boettcher.....	696,931	Apr. 8	1046	232	99	241
Fire-escape.....	J. T. Mahar.....	697,736	Apr. 15	2521	562	99	564
Fire-escape.....	F. Orthmann.....	699,558	May 6	805	190	99	1342
Fire-escape.....	J. C. McCombie.....	700,543	May 20	2801	640	99	1784
Fire-escape.....	J. and P. J. Setbacken.....	701,094	May 27	3847	883	99	2019
Fire-escape.....	O. Tardif.....	702,259	June 10	1747	835	99	2455
Fire-escape.....	B. F. Hendricks and E. Thompson.....	702,358	June 17	2885	687	99	2741
Fire-escape.....	E. M. Christ and W. J. Haldeman.....	703,226	June 24	3613	831	99	2904
Fire-escape.....	G. P. Nice and E. F. Laedlein.....	704,066	July 8	1333	290	100	279
Fire-escape.....	C. Seessie.....	704,126	July 8	1430	306	100	301
Fire-escape.....	G. W. and J. C. Jones.....	704,834	July 15	2737	592	100	586



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. E.	Vol.	Page.
Fire-escape.	J. T. Cowles	705,042	July 22	3205	662	100	660
Fire-escape.	R. Hammerly	705,580	July 29	4390	952	100	940
Fire-escape.	M. Abrams	705,891	July 29	4053	1078	100	1062
Fire-escape.	D. Neale	707,346	Aug. 19	2570	581	100	1476
Fire-escape.	S. B. Parker	707,715	Aug. 26	3296	738	100	1619
Fire-escape.	J. M. Brazil	708,129	Sept. 2	219	32, 53	100	2627
Fire-escape.	C. J. Haggstrom	708,546	Sept. 9	982	322	100	2191
Fire-escape.	A. McCutcheon	708,777	Sept. 9	1410	324	100	2281
Fire-escape.	B. V. Murray	708,825	Sept. 9	1527	349 350	100	2945
Fire-escape.	A. Sferlozza	708,888	Sept. 9	1557	356	100	2311
Fire-escape.	H. Vieregg	708,846	Sept. 9	1572	359	100	2315
Fire-escape.	M. Wachter	708,127	Sept. 16	2141	491	100	2432
Fire-escape.	W. H. Taylor	708,374	Sept. 16	2651	594	100	2559
Fire-escape.	J. W. Smith	709,519	Sept. 23	2977	663 664	100	2640
Fire-escape.	J. C. Covert	712,504	Nov. 4	71	18, 19	101	912
Fire-escape.	S. Rabinowitz	712,848	Nov. 4	724	167	101	1047
Fire-escape.	H. Textor	713,815	Nov. 18	2607	581	101	1406
Fire-escape.	M. S. Cross	714,100	Nov. 18	3176	712 713	101	1587
Fire-escape.	F. W. Harkins	714,108	Nov. 18	3185	705	101	1589
Fire-escape.	C. B. Smith	715,308	Dec. 9	1262	268	101	2114
Fire-escape.	P. Zimmer	715,330	Dec. 9	1300	279	101	2122
Fire-escape.	W. H. Porter, Jr.	715,691	Dec. 9	1962	430	101	2255
Fire-escape.	W. D. Rupp	715,876	Dec. 16	2371	526	101	2361
Fire-escape.	F. G. Frishkorn	716,835	Dec. 23	4354	945	101	2404
Fire-escape and convertible scaffolding. Tele- scopic	W. E. Monroe	694,771	Mar. 4	846	187	98	1890
Fire-escape and fire-alarm folding ladder	R. Nicholls	700,073	May 13	1815	421	99	1562
Fire-escape and water-tower. Combined	C. Schwarz and W. C. Bryant	705,710	July 29	4693 1004 1005	100	997	
Fire-escape apparatus	R. B. Henning	701,463	June 3	370	32, 83	99	2184
Fire-escape. Portable	M. J. Johnston	706,663	Aug. 12	1281	284	100	1362
Fire-escape tilting extension	M. Cody	712,362	Oct. 28	3589	281	101	790
Fire-escape tower. Portable	P. MacRae	693,877	Feb. 25	3153	697 698	98	1311
Fire-escape with water-tower attachment.	J. H. McPartland	713,911	Nov. 18	2802	622 623	101	1508
Fire-extinguisher	J. H. Britton	690,550	Jan. 7	363	71	98	79
Fire-extinguisher	C. E. Brigham	690,623	Jan. 7	510	111	98	110
Fire-extinguisher	R. T. and C. J. Van Valkenburg	695,847	Mar. 18	2414	640	98	2334
Fire-extinguisher	M. E. Weller	696,780	Apr. 1	732	165	99	156
Fire-extinguisher	W. H. Banfil	700,603	May 20	2963	64	99	1802
Fire-extinguisher	R. M. Martin	700,696	May 20	3080	700	99	1846
Fire-extinguisher. Automatic	K. K. Milner	691,288	Jan. 14	1710	387	98	372
Fire-extinguisher. Automatic	F. Grinnell	691,760	Jan. 28	2655	594	98	605
Fire-extinguisher. Automatic	H. C. Montgomery	698,884	Apr. 1	937	213	99	198
Fire-extinguisher. Automatic	H. C. Montgomery	701,510	May 20	2154	99	1651	
Fire-extinguisher. Automatic	R. W. Newton	703,663	July 1	332	120	100	144
Fire-extinguisher. Automatic	O. Hoffmann	704,682	July 15	2439	527	100	525
Fire-extinguisher. Automatic	J. B. Miesse	711,707	Oct. 21	2521	554	101	555
Fire-extinguisher. Automatic	A. D. Linn	712,662	Nov. 4	419	98	101	984
Fire-extinguisher. Automatic chemical.	L. Werlün	705,503	July 22	4175	908	100	808
Fire-extinguisher. Chemical	F. J. Brischau	712,618	Nov. 18	2870	630	101	198
Fire-extinguisher sprinkler head.	A. D. Linn	712,603	Nov. 4	420	99	101	984
Fire-extinguisher sprinkler system. Automatic	E. D. Jefferson	712,682	Nov. 4	403	95	101	981
Fire-extinguisher systems. Valve for	F. Gray	711,960	Oct. 28	3044	668	101	682
Fire-extinguisher valve. Automatic	C. W. Kersteter	711,725	Oct. 21	2554	561	101	562
Fire-extinguishing and life-saving apparatus.	W. A. Nickerson	710,069	Sept. 30	4013	960	100	2867
Fire-extinguishing apparatus	M. H. Hart	691,859	Jan. 22	2836	637	98	612
Fire-extinguishing apparatus	C. Nuhring	697,006	Apr. 8	1194	268	99	273
Fire-extinguishing apparatus	J. S. Letts	703,662	July 1	328	119	100	104
Fire-extinguishing apparatus. Automatic alarm- valve for	C. B. Shaw	705,544	July 22	4323	985	100	921
Fire-extinguishing attachment for cotton-gin plants.	M. Swenson	715,219	Dec. 2	1085	233	101	2050
Fire-extinguishing compound	J. B. Miller	697,541	Apr. 15	3449	99	326	
Fire-extinguishing device.	W. Doll	697,614	Apr. 15	2285	319	99	517
Fire-extinguishing system alarm.	F. Gray	693,322	Feb. 11	2081	555	98	1252
Fire-extinguishing system. Automatic hydraulic.	J. Curry	699,665	May 13	1032	240 241	99	1401
Fire-extinguishing systems. Main valve for	H. Eversmann	700,187	May 20	2663	479	99	1639
Fire-extinguishing tube. Dry-compound.	A. and T. R. Hopper	717,200	Dec. 30	5097	1105	101	2977
Fire-harness	F. Holbrook	696,175	Mar. 25	3477	778	98	2485
Fire-hose nozzle.	E. W. Woman	692,571	Feb. 4	215	146	98	924
Fire-hose shut-off.	J. H. Towers	698,874	Apr. 29	4739	1041	99	1073
Fire-hose. Telegraph	J. Buchtel	710,346	Sept. 30	4971	982	100	2943
Fire in oil-tanks, &c. Apparatus for extinguishing.	J. Haziedine	705,925	July 29	5093 1001 1002	100	1074	
Fire-kindler	C. Pollard	694,027	Feb. 25	3471	765	98	1575
Fire-kindler and method of making.	A. F. Putnam	697,014	Apr. 8	1216	271	99	327
Fire-lighter	E. Brady	710,315	Sept. 30	4892	1010	100	2967
Fire-lighter. Automatic	A. R. Seaman	703,841	July 1	839	188	100	172
Fire-lighter block	C. Pollard	696,267	Mar. 25	3648	816	98	2520
Fire-lighter blocks. Machine for making	J. R. Thomas	708,094	Sept. 2	171	40	100	2016
Fire-lighter machine	E. Pollard and J. R. Thomas	708,073	Sept. 2	134	32, 33	100	2006
Fire-lighter or like blocks into solutions. Dipping	E. Pollard	717,449	Dec. 30	5526	1200 1201	101	3066
Fireman's hat.	I. Cairns	705,032	July 22	3185	688	100	695
Fireman's mask	J. B. Reid	702,481	June 17	2172	495 496	99	2592
Fireman's shield	F. W. Shepperd	702,036	June 10	1352	308	99	2403
Fire-plug.	H. Sheermesser	712,859	Nov. 4	711	173	101	1051

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Fire-protecting shutter. Automatic	T. Ohno	705,699	July 29	4615	1000 (1001)	100	993
Fire-resisting partition, wall, &c	W. Seefels	694,583	Mar. 4	472	162	98	1813
Fire-resisting staircase	W. Seefels	696,503	Apr. 1	191	46	99	45
Fire-resisting window	T. Lee	699,689	May 13	1085	253	99	1411
Fire-screen	C. Poyer	706,596	Aug. 12	1160	257	100	1366
Fire-screen gate	J. W. McLean	698,848	Apr. 29	4608	1036	99	1065
Fire-shield	L. C. Glisson	714,794	Dec. 2	289	62, 63	101	1896
Fire-shield. Portable	E. D. Cundell	717,173	Dec. 30	5051	1035	101	2968
Fire-shutter	P. Ebner	698,475	Apr. 29	3808	861	99	889
Fire-starter or gas-heater	T. B. Draper and G. T. Lyon	702,049	June 10	1380	313	99	2408
Fire truck and ladder	H. W. Lloyd	707,704	Aug. 26	3277	732 733 734	100	1842
Fires. Collar-pipe for extinguishing	M. H. Hart	691,858	Jan. 28	2894	637	98	641
Fires. Extinguishing	J. D. Moore and F. M. Martin	700,967	May 27	3613	830	99	1968
Fires in closed compartments. Apparatus for extinguishing	H. B. Febiger	702,713	June 17	2611	601	99	2683
Fires in closed compartments. Extinguishing	H. B. Febiger	702,714	June 17	2612	901	99	2684
Fires in oil-tanks. Means for extinguishing	W. F. Gaul	716,885	Dec. 30	4460	967	101	2842
Fires or accidents. Apparatus for the stoppage of water from automatic sprinkler-heads after firing-valve for subsurface expulsion-tubes	T. Tipping and E. Fletcher	700,103	May 13	1870	435	99	1572
Firearm	J. P. Holland	696,971	Apr. 8	1134	252	99	261
Firearm	F. K. Young	691,040	Jan. 14	1277	289 290	98	282
Firearm	H. H. Passage	695,485	Mar. 18	2141	489	98	2197
Firearm	H. Angell and T. Berntson	696,294	Mar. 25	3689	525	98	2529
Firearm	O. C. Cullen	696,318	Mar. 25	3774	841	98	2547
Firearm	W. F. Cole	701,798	June 3	920	205	99	2301
Firearm	W. Hartley, E. D. Rivers, and E. Beach	705,234	July 22	3635	787	100	786
Firearm	T. Bergmann	710,411	Oct. 7	25	6	101	8
Firearm. Automatic	R. H. Kjellman and G. L. Andersson	690,739	Jan. 7	732	161 162	98	154
Firearm. Automatic	T. C. Johnson	694,157	Feb. 25	3703	612	98	1622
Firearm. Automatic	T. G. Bennett and W. Mason	695,784	Mar. 18	2696	613 614	98	2310
Firearm. Automatic	T. M. Thorsen	696,118	Mar. 25	3347	755	98	2450
Firearm. Automatic	J. A. N. Rasmussen	701,815	June 3	948	210 211	99	2307
Firearm. Automatic	J. M. Browning	708,794	Sept. 9	1455	332 333	100	2292
Firearm. Automatic	A. W. Schwarzlose	712,972	Nov. 4	957	222	101	1093
Firearm. Breech-loading	D. Hug	691,056	Jan. 14	1304	296	98	287
Firearm. Breech-loading	F. Snyder	694,331	Feb. 25	4091	910	98	1692
Firearm. Breech-loading	M. C. Lisle	695,819	Mar. 18	2705	631	98	2324
Firearm. Breech-loading	J. Binette	708,304	Sept. 2	509	129	100	2097
Firearm. Breech-loading	A. H. Fox	714,688	Dec. 2	68	14	101	1851
Firearm ejector mechanism	R. T. Torkelson	715,003	Dec. 16	2416	535	101	2371
Firearm front sight	A. Tilton	712,863	Nov. 4	750	174	101	1052
Firearm head-rest	J. Marsland and J. Gaut	717,011	Dec. 30	4710	1021	101	2894
Firearm-lock	O. F. Mossberg	697,516	Apr. 15	2123	472	99	485
Firearm lock and extractor mechanism	N. Pieper	706,199	Aug. 5	382	83	100	1195
Firearm locking-key	W. H. Davenport	701,159	May 27	3670	913	99	2046
Firearm. Magazine	J. B. Mahana	695,574	Mar. 18	2335	520 521	98	2237
Firearm. Magazine	S. A. Huntley	695,882	Mar. 18	2877	652 653	98	2348
Firearm. Magazine	S. Paradis	699,703	May 13	1105	259 260	99	1416
Firearm. Magazine	E. P. Bergman and A. E. Renard	703,520	July 1	260	60	100	52
Firearm. Magazine	C. A. Young	709,385	Sept. 16	2668	599	100	2563
Firearm. Magazine	S. H. Barton	713,276	Nov. 11	1582	358	101	1236
Firearm. Magazine	W. B. Farwell	715,773	Dec. 16	2140	479	101	2361
Firearm-magazine	L. F. Bruce	708,311	Sept. 2	582	132	100	2100
Firearm-magazine	A. D. Marble	711,989	Oct. 28	3101	679	101	693
Firearm-magazine. Registering	A. J. Northcraft	698,665	Feb. 15	274	636	98	1411
Firearm palm-rest	H. Mosbaugh	703,064	July 1	1928	236	100	218
Firearm. Recoil-operated	G. A. Horne	690,955	Jan. 14	1102	249	98	246
Firearm. Recoil-operated	J. M. Browning	701,288	June 3	18	4	99	2112
Firearm. Recoil-operated	A. W. Schwarzlose	712,730	Nov. 4	485	114 115	101	998
Firearm. Repeating	W. W. Humphreys	703,266	June 24	3666	843	99	2013
Firearm. Revolver	W. J. Whiting	700,592	May 20	2878	661	99	1799
Firearm. Revolving	O. F. Mossberg	697,517	Apr. 15	2125	472	99	485
Firearm. Revolving	J. H. Wesson	702,607	June 17	2420	552	99	2643
Firearm safety attachment	J. F. Herndon	707,925	Aug. 26	3757	843	100	1937
Firearm safety-catch	C. P. Fay and W. Ferguson	712,282	Oct. 28	3623	192	101	796
Firearm-sight	F. J. Choles	691,242	Jan. 14	1623	371	98	354
Firearm-sight	C. J. Hamilton	696,962	Apr. 8	1192	249	99	258
Firearm-sight	J. M. Browning	701,289	June 3	21	5	99	2113
Firearm-sight	R. H. Smith	708,119	Sept. 2	217	52	100	2026
Firearm-sight	W. Youlten	717,294	Dec. 30	5252	1141	101	3011
Firearm sighting device	J. T. Brayton	694,904	Mar. 4	1088	240	98	1942
Firearm single trigger	E. D. Fulford	704,025	July 8	1215	263	100	257
Firearm single-trigger mechanism	G. E. Witherell	697,061	Apr. 8	1228	286	99	253
Firearm single-trigger mechanism	E. D. Fulford	704,024	July 8	1213	263	100	257
Firearm single-trigger mechanism	C. F. Lefever	715,490	Dec. 9	1592	345	101	2179
Firearms and artillery. Protection against shot from hand	A. Leven	709,100	Sept. 16	2100	481	100	2443
Fireplace	G. Vitti	710,236	Sept. 30	4338	975	100	2937



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Fireplace.	M. J. Robbins	714,241	Nov. 25	3480	765	101	1667
Fireplace.	A. E. Weidinger	715,914	Dec. 16	2438	4539	101	2375
Fireplace and chimney. Portable	E. S. Richards	702,990	June 24	3166	728	99	2815
Fireplace-fixture.	W. A. Posey	714,517	Nov. 25	3977	881	101	1760
Fireplace-heater	T. B. Jackson.	694,155	Feb. 25	3700	817	98	1621
Fireplace or hearth. Domestic	W. H. Haslam	696,040	Mar. 25	3184	719	98	2425
Fireplaces. Heat-regulator for	R. N. Johnson	706,182	Aug. 5	352	76	100	1188
Fireproof blind or door	W. R. Kinneare	715,816	Dec. 16	2325	497	101	2335
Fireproof blinds. Spring-roller for	W. R. Kinneare	714,546	July 15	732	482	100	481
Fireproof blinds, &c. Spring-roller for	706,569	Aug. 12	1107	245	100	1355	
Fireproof building	T. Bailey	704,771	July 15	2607	564	100	559
Fireproof building	F. W. Cooley	707,086	Aug. 19	2079	464	100	1575
Fireproof building	F. W. Cooley	707,210	Aug. 19	2315	1518	100	1626
Fireproof building	H. R. Kethley	712,683	Nov. 4	406	95	101	982
Fireproof building structure	J. O. Ellinger	702,093	June 10	1473	331	99	2428
Fireproof ceiling	G. Rader	714,948	Dec. 2	617	130	101	1959
Fireproof ceiling and floor	S. G. Brinkman.	707,201	Aug. 19	2301	514	100	1624
Fireproof cement. Hydraulic	W. R. Knox	706,760	Aug. 12	1481	100	1436	
Fireproof composition for use on wood	G. Blenio	716,660	Dec. 23	3936	101	2716	
Fireproof construction	W. Orr	693,431	Feb. 18	2294	563	98	1317
Fireproof construction	P. F. Brandstedt	694,720	July 4	732	482	98	1866
Fireproof construction for buildings	710,836	Oct. 7	842	183	101	171	
Fireproof covering for frame structures.	R. Heilmann	695,722	Mar. 18	2579	583	98	2285
Fireproof door, &c. Automatic.	C. A. Barber	698,785	Apr. 29	4523	999	99	1023
Fireproof door or blind	W. R. Kinneare	715,815	Dec. 16	2231	496	101	2330
Fireproof floor	O. Hoff	691,466	Jan. 21	2089	468	98	470
Fireproof floor	G. Knoche	692,309	Feb. 4	159	37	98	831
Fireproof floor	J. Krolman	713,994	Nov. 18	2970	661	101	1543
Fireproof floor	P. T. Shields.	714,047	Nov. 18	3077	680	101	1566
Fireproof floor construction	G. R. King	705,360	July 22	3921	849	100	842
Fireproof floor construction	J. T. Simpson and M. N. Shoemaker.	706,347	Aug. 5	687	150	100	1255
Fireproof floor construction	M. Watson	710,908	Sept. 30	4470	1008	100	2964
Fireproof flooring	J. B. Hinchman	694,881	Mar. 4	82	19	98	1728
Fireproof flooring	C. F. Haglin	708,764	Sept. 9	1389	317	100	2277
Fireproof flooring	A. Dickey	716,628	Dec. 23	3879	848	101	2694
Fireproof flooring	H. E. Grant and J. G. McDowell	716,838	Dec. 23	4361	946	101	2905
Fireproof frame building	G. E. Voelkel	710,307	Sept. 30	4469	1008	100	2964
Fireproof grain-bin	F. R. McQueen	692,894	Feb. 11	1233	273	98	1078
Fireproof grain-bin	E. V. Johnson	713,104	Nov. 11	1215	278	101	1164
Fireproof partition structure	J. T. Simpson and M. N. Shoemaker.	706,348	Aug. 5	690	150	100	1256
Fireproof sash and frame.	C. D. Hyre	716,637	Dec. 23	3893	850	101	2697
Fireproof shutter	J. E. Guild.	691,761	Jan. 28	2656	595	98	605
Fireproof shutter, door, &c	J. G. Wilson	700,873	May 27	3447	791	99	1935
Fireproof structure. Prismatic.	F. L. O. Wadsworth.	713,182	Nov. 11	1367	308	101	1194
Fireproof wall-plaster	C. R. Harris and C. C. Barrick	708,354	Sept. 2	649	100	2113	
Fireproof wall-plaster. Composition of	C. R. Harris and C. C. Barrick	708,353	Sept. 2	648	100	2113	
Fireproof window	L. D. Biersach	690,392	Jan. 7	15	3	98	6
Fireproof window	F. Voigtmann and S. H. Pomeroy	691,211	Jan. 14	1565	356	98	341
Fireproof window	L. D. Biersach	714,331	Nov. 25	3926	174	101	1618
Fireproof window	F. Voigtmann and S. H. Pomeroy	716,151	Dec. 16	2909	640	101	2475
Fireproof window. Self-closing	F. D. Swaney	690,535	Jan. 7	322	65	98	70
Fireproof windows. Self-closing sash for	C. D. Pruden	711,527	Oct. 21	2184	475	101	438
Fireproofed wood and making same	J. L. Ferrell	695,678	Mar. 18	2516	98	2273	
Fireproofing compound and making same	J. L. Ferrell	695,679	Mar. 18	2517	98	2273	
Fireproofing preservatives, &c. Impregnating wood with	J. L. Ferrell	695,450	Mar. 18	2082	470	98	2186
Fireproofing wood	K. Rückert	691,812	Jan. 28	2755	98	625	
Fish-bait	J. Heddon	696,433	Apr. 1	75	17	99	21
Fish-bait	B. F. McCurdy	713,907	Nov. 18	2794	621	101	1506
Fish cleaner and scaler	J. Jacobsen	717,408	Dec. 30	5459	1184	101	3053
Fish-cleaning device	W. H. Jacoby	717,206	Dec. 30	5105	1106	101	2979
Fish-cutting table	E. M. Lawrence	692,866	Feb. 11	1151	257	98	1060
Fish-drying apparatus.	A. Morris	702,235	June 10	1713	387	99	2478
Fish-flaking machine	E. M. Lawrence	706,764	Aug. 12	1487	329	100	1436
Fish handling, draining, and displaying device	E. H. Snyder	691,918	Jan. 28	2933	661	98	602
Fish-hook	J. B. Hall	693,269	Feb. 11	1990	433	98	1233
Fish-hook	B. Edgar	696,018	Mar. 25	3138	708	98	2414
Fish-hook	A. B. Lacey	699,397	May 6	316	119	99	1281
Fish-hook	J. M. Pyott, Jr.	699,711	May 13	1120	262	99	1418
Fish-hook	P. B. T. Berner	701,132	May 27	3933	904	99	2037
Fish-hook	F. J. Baker	712,032	Oct. 28	3173	693	101	708
Fish-hook	T. S. Coffin	712,497	Nov. 4	59	15	101	910
Fish-hook	W. H. Jacoby	713,306	Nov. 11	1654	372	101	1251
Fish-hook	P. T. Berthoff	715,342	Dec. 9	1327	286	101	2127
Fish-hook. Expandable	G. H. Doering	700,993	May 27	3053	840	99	1977
Fish-hook. Trap	696,013	Mar. 25	3129	706	98	2412	
Fish-jar or aquarium	F. R. Gillinder	715,571	Dec. 9	1756	389	101	2211
Fish-line reel	E. D. Rockwell	700,559	May 20	2822	648	99	1788
Fish-line reel	W. Horton	715,076	Dec. 2	831	176	101	2005
Fish-nets. Illuminating-buoy for	W. L. Uhlenhart	713,364	Nov. 11	1756	395	101	1274
Fish or meat in cans. Machine for salting	J. Kellington	711,426	Oct. 14	1966	427	101	424
Fish-plates in the process of manufacture. Apparatus for cooling	R. B. Charlton	691,355	Jan. 21	1895	426	98	423
Fish-plates. Means for forming	R. B. Charlton	699,148	May 6	40	11	99	1184
Fish, &c. Reducing or rendering	E. R. Edson	707,566	Aug. 26	2991	674	100	1783

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Fish-reel	W. S. Sutton	693,459	Feb. 18	2352	515	98	1329
Fish-splitting and cleaning machine	A. J. Farmer	710,912	Oct. 7	964	212	101	196
Fish-trap	A. E. Zauggenberg	690,507	Jan. 7	273	55	98	59
Fish-trap	E. W. Livermore	692,057	Jan. 28	3199	722	98	714
Fish-trap	G. Merle	708,380	Sept. 2	685	154	100	2120
Fish-trap	P. M. Benesh	711,379	Oct. 14	1889	411	101	409
Fish-trap. Floating	A. C. Burdick	711,820	Oct. 21	2745	607	101	602
Fish-trap hook	M. Greer	705,750	July 29	4712	1019	100	1119
Fishing-bait holder	V. Gebhardt	699,394	May 6	330	76	99	1241
Fishing device	J. Seiler	700,093	May 13	1850	430	99	1509
Fishing-float	A. N. Pacetty	691,407	Jan. 21	1987	445	98	449
Fishing-float	J. F. Marsters	717,237	Dec. 30	5159	1118	101	2991
Fishing-float. Self-striking	C. Hymers	711,318	Oct. 14	1780	385	101	385
Fishing. Floating seine-ne' or weir for	J. S. Dill	699,984	Apr. 29	5086	1235	101	1345
Fishing-gear	A. W. Wilson	697,910	Apr. 15	2885	625	99	692
Fishing-line attachment	J. P. Leib	716,726	Dec. 23	4044	885	101	2728
Fishing-net	A. E. Butler	712,494	Nov. 4	55	14	101	909
Fishing-net	C. F. Pike	716,097	Dec. 16	2909	618	101	2455
Fishing-net sinker	A. Johnson	702,955	June 24	3079	709	99	2736
Fishing-reel	F. J. Rabbeth	691,073	Jan. 14	1391	300	98	292
Fishing-reel	M. A. Shipley	699,625	May 13	1345	392	99	1465
Fishing-reel	E. vom Hofe	710,424	May 20	2575	590	99	1736
Fishing-reel	L. Atwood	703,223	June 24	3692	827	99	2900
Fishing-reel	J. vom Hofe	703,585	July 1	371	86	100	73
Fishing-reel	A. B. Hendryx	705,758	July 29	4723	1022	100	1014
Fishing-reel	J. H. Adams	713,371	Nov. 11	1773	391	101	1377
Fishing-reel	J. S. Dill	713,633	Nov. 18	2279	507	101	1396
Fishing-reel	A. E. Hall	715,274	Dec. 9	1159	233	101	2007
Fishing-reel line-guide	H. Krueger and R. J. Hoffman	698,029	Apr. 22	3056	671	99	698
Fishing-rod	B. Lyon	692,884	Feb. 11	1212	269	98	1074
Fishing-rod holder	B. J. Warren	704,991	July 15	3105	669	100	662
Fishing-rod line-guide	E. C. and E. M. Cattley	703,996	July 8	1164	253	100	247
Fishing-tackle spoon-carrier	J. J. Hildebrandt	713,435	Nov. 11	1872	424	101	1258
Flange	F. C. Billings	713,944	Nov. 18	2875	637	101	1522
Flanger	M. B. Eaton	704,525	July 15	2183	473	100	473
Flanging-machine	J. H. Vanderslice	707,881	Aug. 26	3674	826	100	1920
Flanging-press	W. J. Hagman	703,406	July 1	78	15	100	18
Flash-lamp	A. R. Farmer	693,694	Feb. 18	2815	619	98	1424
Flash-lamp	G. Collard	699,452	May 6	619	141	99	1303
Flash-light apparatus	A. Hensley	690,522	May 6	738	172	99	1328
Flash-light apparatus	C. H. Nichols	708,972	Sept. 9	1692	390	100	2341
Flash-light cartridge	K. Rendschmidt	696,270	Mar. 25	3653		98	2521
Flash-light gas-burner	D. Ward	695,014	Mar. 11	1304	288	98	2005
Flash-light lamp. Photographic	J. L. Zweck	690,508	Jan. 7	274	55	98	6
Flash-light machine. Photographic	L. G. Bigelow	696,402	Apr. 1	18	5	99	6
Flasher. Automatic electromagnet	P. E. Oswald	717,015	Dec. 30	4715	1023	101	2855
Flashing apparatus for use in taking photographs	J. Schmidt	710,440	Dec. 30	4538	589	101	2861
Flashing apparatus. Revolving group	A. Brebner	695,371	Mar. 11	1957	436	98	2140
Flashing apparatus. Revolving group	A. Brebner	710,244	Sept. 30	4368	982	100	2942
Flashing lighthouse-lanterns. Electric switch for	F. Mackintosh	706,577	Aug. 12	1123	247	100	1358
Flashing lighthouse-lights, &c. Eclipsing-screen for revolving group	A. Brebner	710,243	Sept. 30	4364	980	100	2942
Flask.					981		
See Casting-flask.	Molder's flask.						
Dental flask.	Molding-flask.						
Mold-flask.							
Flask	E. Weidenbaker	709,569	Sept. 23	3059	681	100	2656
Flask support. Tilting	C. Phelps	709,925	Sept. 30	3746	844	100	2811
Flat-iron	H. C. Stiefel	692,555	Feb. 4	596	140	98	919
Flat-iron	W. Neuhs	705,283	July 22	3729	811	100	803
Flat-iron handle attachment	H. Greenwood	703,699	July 1	604	134	100	119
Flat-iron heater	W. F. Nicholas	699,700	May 13	1102	258	99	1415
Flax or hemp straw. Machine for treating	J. T. Smith	701,770	June 3	876	195	99	2291
Flax-treating machine	J. T. Smith	692,936	Feb. 11	1323	288	98	1098
Fleshing-machine	W. E. Lombard	703,285	June 24	3691	851	99	2918
Flexible coupling	C. L. and R. A. Schultz	700,246	May 20	2218	506	99	1665
Flier	A. Meller	694,876	Mar. 4	1041	230	98	1932
Flier	J. J. McOsker	694,884	Mar. 4	1055	233	98	1935
Flier	F. H. Martin	711,907	Oct. 21	3925	643	101	640
Flies from cattle and trapping same. Device for	O. B. Gibson	701,873	June 10	1056	237	99	2344
Flies or insects. Apparatus for catching	A. Bachner	716,655	Dec. 23	3928	858	101	2704
Float-ball	A. W. Ayling and P. F. Reichert	699,641	May 13	991	230	99	1393
Float-gage	H. P. Tauber	696,280	Mar. 25	3667	820	98	2524
Float. Glass	J. M. Burr	691,530	Jan. 21	2197	494	98	493
Float-stringer	W. T. Jones	692,671	Feb. 4	811	183	98	965
Floats for steam or water traps. Forming	W. F. Patton	691,803	Jan. 28	2738	618	98	621
Flood-gate	J. H. Ogile	697,159	Apr. 8	1459	328	99	320
Flood-gate	H. B. Casperson	701,678	June 3	721	159	99	2260
Flood-gate	J. D. Penn	706,776	Aug. 12	1510	335	100	1441
Flood-gate	J. H. Alexander	712,469	Nov. 4	1	1	101	897
Flood-gate dam or weir	M. Carstanjen	692,619	Feb. 4	714	165	98	945
Flood-gate having movable closing body	M. Carstanjen	715,979	Dec. 16	2567	567	101	2403
Floor	E. A. Stevens	703,159	June 24	3480	800	100	2875
Floor and ceiling construction	J. Schratwieser	690,621	Jan. 7	489	105	98	105
Floor-arches. Center construction for	G. B. Waite	708,025	June 24	3207	738	99	2823
Floor-boards singly. Instrument for removing	J. M. Cammack	700,169	May 20	2053	469	99	1630
Floor clamp or jack	A. Tretsen	710,769	Sept. 30	4227	953	100	2911



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Floor-cloth. Machinery for use in the manufacture of mosaic or inlaid	E. Batten	694,233	Feb. 25	3839	851	98	1647
Floor. Concrete	P. V. Parsy	692,541	Feb. 4	579	135	98	916
Floor construction	J. W. Rapp	690,609	Jan. 7	462	99	98	99
Floor construction	W. H. Barrar	702,616	June 17	2435	555	99	2646
Floor-covering	M. Barnett	691,434	Jan. 21	2032	455	98	458
Floor-covering	J. Sanders	715,155	Dec. 2	908	209	101	2034
Floor-covering. Elastic	J. Coomber	692,242	Feb. 4	46	10	98	808
Floor-jack	R. V. Ceilan	702,569	June 17	2348	635	99	2782
Floor-key. Electrical	E. C. Goodrich	706,927	Aug. 12	1787	400	100	1499
Floor laying and nailing machine	J. C. Daigneault	706,805	Aug. 12	1566	350	100	1454
Floor-mat. Flexible metal.	G. W. and H. McNeely	705,601	July 29	4438	962	100	959
Floor-mat. Metal	E. J. Manning	714,002	Nov. 18	2380	663	101	1544
Floor or sidewalk cleaner	F. W. Richter	714,034	Nov. 18	2387	675	101	1557
Floor-rubber	C. F. Lemcke	702,569	June 17	2348	635	99	2782
Floor-treating machine	F. Raasch and J. W. Krueger	694,077	Feb. 25	3364	786	98	1394
Floor unit	E. Thacher	714,972	Dec. 2	653	137	101	1966
Floor washing, scrubbing, and cleansing apparatus.	J. E. Gee	695,043	Mar. 11	1364	300	98	2018
Floors. Apparatus for applying fillers to	W. H. Grippin	699,307	May 6	336	78	99	1242
Floors, &c. Construction of	F. L. Ellingwood	712,278	Oct. 28	3616	790	101	795
Floors, &c. Machinery for the manufacture of coverings for	W. F. Graham	691,261	Jan. 14	1969	378	98	362
Floors, &c. Scraper for	C. Ouellette	698,849	Apr. 29	4700	1036	99	1065
Floors, walls, windows, &c. Appliance for cleaning.	C. W. Snellebrand and J. P. R. de Britto	701,637	June 3	654	142	99	2245
Flooring for buildings	O. W. Norcross	698,542	Apr. 29	4009	886	99	912
Flooring for buildings	O. W. Norcross	698,543	Apr. 29	4012	889	99	912
Flooring-gage	W. W. Crim	694,664	May 13	1031	240	99	1401
Flooring-set	J. D. Murphy	695,224	Mar. 11	1703	377	98	2088
Flour. Aging and bleaching	J. and S. Andrews	693,207	Feb. 11	1890	408	98	1211
Flour. Aging and bleaching	J. and S. Andrews	698,240	Apr. 22	3482	766	99	787
Flour-bolting-machine brush	J. G. Peterson	712,058	Nov. 4	1357	217	101	1088
Flour from sweet potatoes. Making	E. Straus	696,988	Mar. 25	3387	740	98	2441
Flour. Making	J. E. Mitchell	716,920	Dec. 30	4523	981	101	2854
Flour-mill	G. Piacentino	698,221	Apr. 22	3448	757	99	780
Flour screen or bolter brush	690,904	Jan. 14	1187	269	98	263	
Flow-arresting device	H. A. Fiske	708,335	Sept. 2	621	140	100	2108
Flow-preventer	N. Carter	692,620	Feb. 4	716	165	98	946
Flow-reducing device	J. W. Nethery	707,712	Aug. 26	3249	736	100	1844
Flower-pot holder. Waterproof	L. P. Cheney	716,668	Dec. 23	3945	862	101	377
Flower-stand	M. A. De Force	699,154	May 6	51	14	99	1186
Flower support or holder	B. D. Sanders	706,258	Aug. 5	493	105	100	1216
Flue-cleaner	A. A. Hull	691,057	Jan. 14	1307	296	98	288
Flue-cleaner	C. S. Goodfellow	691,718	Jan. 21	2540	568	98	564
Flue-cleaner	D. Boyd	698,174	Apr. 22	3357	735	99	790
Flue-cleaner	J. S. Clarke	701,236	May 27	4144	953	99	2079
Flue-cleaner	T. J. Hart	705,735	July 29	4715	1020	100	1013
Flue-cleaning cutter. Rotary	C. B. Easty	711,043	Oct. 14	1237	270	101	271
Flue-cutter	J. Cashmer	701,148	May 27	3954	910	99	2042
Flue-cutter. Adjustable	W. H. Kauffman	713,108	Nov. 11	1222	279	101	1165
Flue-cutter attachment	I. C. Hicks	702,349	June 10	1912	437	99	2517
Flue-expander	A. Munch	711,581	Oct. 21	2214	494	101	302
Flue for conducting fumes	C. M. Johnson	691,773	Jan. 28	2678	690	98	612
Flue-scraper	H. K. Swincoe and E. J. McCarty	710,344	Sept. 30	4533	1023	100	2978
Flue-stop	J. Seither	707,022	Aug. 12	1950	437	100	1531
Fluid-brake mechanism	J. F. Mallinckrodt	710,876	Oct. 7	905	197	101	184
Fluid-compressor	E. Sette	706,861	Aug. 12	1067	374	100	1475
Fluid-flow-controlling device	J. W. Nethery	713,788	Nov. 18	2560	571	101	1457
Fluid-fuel burner	J. Moran	712,835	Nov. 4	659	162	101	1042
Fluid-meter	W. H. Reynolds	710,212	Sept. 30	4310	960	100	2931
Fluid-meter recording apparatus	G. A. Wittmer	716,973	Dec. 30	4634	1004	101	2877
Fluid motor. Expansive	J. A. Norton	715,225	Dec. 9	1206	258	101	2101
Fluid-operated signal	C. L. Bell and J. Halstead	710,397	Sept. 30	4629	1044	100	2997
Fluid-operating device	J. Hartness	700,646	May 20	2472	682	99	1820
Fluid-pressure. Apparatus for applying.	W. S. Johnson	696,905	Apr. 1	985	219	99	208
Fluid-pressure brake	M. W. Hibbard	699,386	May 6	485	114	99	1274
Fluid-pressure brake	H. H. Westinghouse	702,269	June 10	1770	404	99	2490
Fluid-pressure brake	H. H. Westinghouse	707,473	Aug. 19	2793	632	100	1725
Fluid-pressure brake	H. H. Westinghouse	707,474	Aug. 19	2795	632	100	1726
Fluid-pressure brake	T. J. Leabo	711,406	Oct. 14	1932	421	101	417
Fluid-pressure brake. Automatic	695,940	Feb. 25	3394	726	98	1339	
Fluid-pressure brake system	H. J. Hedden	705,239	July 22	3643	789	100	788
Fluid-pressure coupling	W. H. Simmons	702,497	June 17	2213	504	99	2692
Fluid-pressure engine	C. Robinson	695,947	Mar. 25	2998	678	98	2386
Fluid-pressure engine	R. C. Sayer	702,488	June 17	2197	500	99	2598
Fluid-pressure engine	A. C. Smith	702,601	June 17	2408	550	99	2511
Fluid-pressure engine	E. S. Savage	712,601	Nov. 4	267	94	101	953
Fluid-pressure engine	S. Otis	713,675	Nov. 18	2349	534	101	1410
Fluid-pressure engine	H. Romanski	715,513	Dec. 9	1692	353	101	2187
Fluid-pressure regulator	H. F. Smith	693,170	Feb. 11	1790	362	98	1191
Fluid-pressure regulator	W. M. Reason	701,089	May 27	3841	881	99	2018
Fluid-pressure regulator	P. H. Hamilton	702,872	June 17	2906	672	99	2745
Fluid-pressure regulator	R. W. Seyer and F. Pratt	707,651	Aug. 26	3172	714	100	1821
Fluid-regulating device	J. Hartness	700,644	May 20	2968	682	99	1819
Fluid-regulating device	J. Hartness	700,645	May 20	2970	682	99	1820

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &c.	Vol.	Page.
Fluid-regulating device.....	J. Hartness.....	703,410	July 1	83	16	100	19
Fluid-reservoirs. Safety device for use in filling.....	J. F. Hardy.....	695,929	Mar. 25	2966	671	98	2380
Fluid under pressure. Means for transmitting.....	W. S. Halsey.....	693,516	Feb. 18	2458	539	98	1352
Fluids. Apparatus for electrically dispersing.....	J. F. Cooley.....	692,631	Feb. 4	1727	168	98	948
Fluids. Device for indicating the rate of flow of.....	J. Patten.....	701,382	June 3	738	39	99	2144
Fluids. Dispersing.....	W. J. Morton.....	705,691	July 29	4591	996	100	989
Flume-gate.....	E. Campbell.....	704,971	July 15	3064	658	100	654
Flume-gratings. Device for clearing.....	J. G. Riel.....	710,804	Oct. 7	730	109	101	102
Fluorin-producing apparatus.....	M. Meslin.....	693,688	Feb. 4	830	190	98	731
Flush tank and valve.....	J. F. Rodgers.....	692,797	Feb. 4	1036	233	98	1008
Flush-tank float-rod.....	O. H. Jones.....	715,386	Dec. 9	1398	301	101	2141
Flush. Trap.....	J. E. Keyt.....	705,933	July 29	5028	1096	100	1077
Flushing apparatus.....	J. Burgum.....	692,611	Feb. 4	702	162	98	943
Flushing apparatus.....	P. F. Glackin.....	694,629	Mar. 4	559	122	98	1831
Flushing apparatus.....	C. B. Day.....	701,543	June 3	473	99	99	2206
Flushing apparatus. Closet.....	C. H. Rollins.....	711,232	Oct. 14	1613	347	101	351
Flushing device.....	W. Scott.....	713,161	Nov. 11	1319	297	101	1185
Flushing device. Closet.....	J. M. Justen.....	708,890	Sept. 9	1662	381	100	2333
Flushing-tank. Automatic.....	P. F. Glackin.....	694,627	Mar. 4	556	122	98	1830
Flushing-tank. Closet.....	L. F. Haynes.....	702,060	June 10	1422	320	99	2119
Flushing-tank handle or pull.....	O. Bernz.....	692,107	Jan. 28	323	745	98	2073
Flute. Boehm.....	E. P. Rogers.....	698,322	Apr. 22	3616	798	99	814
Fluxing and separating compound.....	A. D. Miller.....	700,529	May 20	2779	99	1779	
Fly-book.....	W. R. Wheeler.....	714,844	Dec. 2	404	85	101	1916
Fly-escape. Screen.....	J. J. Travis.....	715,440	Dec. 9	1494	324	101	2160
Fly-exit for screens.....	C. F. Working.....	699,737	May 13	1172	273	99	1428
Fly-killer.....	I. H. Ames.....	695,189	Mar. 11	627	361	98	2073
Fly-paper holder.....	C. D. Eaton and A. L. Norton.....	702,547	June 17	2230	521	99	2617
Fly-paper protector.....	H. R. Sieverkropp.....	711,682	Oct. 21	2474	543	101	545
Fly-paper. Sticky.....	E. F. Baker.....	693,536	Feb. 18	2503	551	98	1360
Fly-screen.....	F. D. Bentley.....	692,501	Feb. 4	493	115	98	899
Fly-screen.....	A. L. Stokesberry.....	698,756	Apr. 29	4476	990	99	1013
Fly-screen attachment.....	A. M. Nelson.....	704,084	July 8	1329	289	100	278
Fly-trap.....	Z. E. Drake and J. C. Semple.....	690,566	Jan. 7	382	79	98	398
Fly-trap.....	W. J. Bell.....	703,303	June 24	2719	856	99	2994
Fly-trap.....	E. Potter.....	705,959	June 29	5075	1106	100	1087
Fly-trap.....	H. A. Bierley.....	713,888	Nov. 11	1801	405	101	1233
Fly-trap.....	J. Arnold.....	714,992	Dec. 2	689	144	101	1974
Fly-trap. Electric.....	E. R. Greene.....	698,274	Apr. 22	3546	781	99	800
Fly-wheel.....	C. Robinson.....	691,491	Jan. 21	2131	477	98	473
Flying-machine.....	J. T. Rice.....	704,375	July 8	1387	406	100	398
Flying-machine wing.....	693,943.....	693,943	Feb. 25	3288	723	98	1537
Focal-plane shutter.....	L. J. R. Holist and C. C. Langill.....	711,680	Oct. 21	2367	520	101	522
Focal-plane shutter.....	J. D. Garfield.....	714,106	Nov. 18	3183	704	101	1588
Fodder-loader.....	C. L. Packer.....	709,506	Sept. 23	2947	657	100	2633
Fodder-shredder head.....	A. W. Berger.....	692,601	Feb. 4	682	159	98	938
Fog-horn.....	E. A. Gill.....	703,400	July 1	66	13	100	16
Foldable box.....	C. B. Proctor.....	692,070	Jan. 28	3219	727	98	718
Folding and wrapping machine.....	S. Elliott.....	696,021	Mar. 25	3141	708	98	2415
Folding box.....	J. J. McCormick.....	690,454	Jan. 7	131	28	98	30
Folding box.....	Z. B. Webb.....	690,496	Jan. 7	248	50	98	54
Folding box.....	Z. B. Webb.....	690,497	Jan. 7	249	50	98	54
Folding box.....	Z. B. Webb.....	690,498	Jan. 7	250	51	98	54
Folding box.....	J. T. Ferres.....	691,458	Jan. 21	2080	465	98	468
Folding box.....	Z. B. Webb.....	692,561	Feb. 4	607	143	98	922
Folding box.....	Z. B. Webb.....	692,562	Feb. 4	608	143	98	922
Folding box.....	Z. B. Webb.....	692,563	Feb. 4	609	143	98	922
Folding box.....	Z. B. Webb.....	692,564	Feb. 4	610	144	98	923
Folding box.....	J. F. McGowan.....	695,073	Mar. 11	1417	311	98	2029
Folding box.....	C. F. Keller.....	695,211	Mar. 11	1676	372	98	2082
Folding box.....	B. B. McFadden.....	696,468	Apr. 1	137	34	99	35
Folding box.....	D. Elliott.....	698,266	Apr. 22	3531	777	99	797
Folding box.....	J. C. Hoyer.....	700,049	May 13	1781	412	99	1554
Folding box.....	Z. B. Webb.....	701,652	June 3	681	150	99	2250
Folding box.....	B. B. McFadden.....	704,080	July 8	1324	280	100	277
Folding box.....	A. W. Beers.....	707,073	Aug. 19	2055	459	100	1570
Folding box.....	A. Vaught.....	708,943	Sept. 9	1744	403	100	2351
Folding box.....	F. Cuning.....	709,965	Sept. 30	3838	864	100	2830
Folding box.....	Z. B. Webb.....	713,028	Nov. 4	1050	244	101	1111
Folding box.....	E. L. Brown.....	714,138	Nov. 25	3248	751	101	1020
Folding box.....	W. Van Hoell.....	715,442	Dec. 9	1497	325	101	2161
Folding box.....	W. E. Burton.....	716,665	Dec. 23	3942	861	101	2707
Folding box or case.....	J. A. Hollem.....	706,057	Aug. 5	106	23	100	1139
Folding case or crate.....	A. McDonald.....	693,981	Feb. 25	3380	743	98	1556
Folding chair.....	F. D. La Coursiere and J. B. Steffen.....	694,163	Feb. 25	3716	820	98	1024
Folding chair.....	W. E. Nivison.....	703,077	June 24	3318	763	99	2844
Folding chair.....	W. H. Thomas.....	712,864	Nov. 4	751	174	101	1022
Folding chair.....	A. V. Cradall and C. A. Wood.....	714,568	Nov. 25	4061	899	101	1784
Folding chair.....	G. J. Kelley.....	715,483	Dec. 9	1582	343	101	2177
Folding chair.....	S. R. Rodgers.....	715,607	Dec. 9	1814	402	101	2223
Folding chair. Adjustable.....	F. Vogel.....	709,688	Sept. 23	3259	730	100	2697
Folding chair. Portable.....	B. J. Harrison.....	707,841	Aug. 26	3598	812	100	1904
Folding device.....	E. J. Schuneman.....	698,562	Apr. 29	4037	835	99	918
Folding-machine.....	L. E. Barnes.....	702,085	June 10	1459	327	99	2426
Folding-machine.....	E. Collon.....	703,546	July 1	308	70	100	62
Folding rod.....	J. P. Johnson.....	708,976	Sept. 9	1826	420	100	2367
Folding screen.....	J. Kaufman.....	711,322	Oct. 14	1786	386	101	387



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Folding stand	C. S. Stevens	717,131	Dec. 30	4930	1069	101	2940
Folding stand or easel	J. A. Scott	702,033	June 10	1348	307	99	2402
Folding table	S. M. Snook	691,194	Jan. 14	1535	347	98	335
Folding table	E. P. Van Alstyne, Jr.	706,888	Aug. 12	1683	377	100	1478
Folding table	G. E. Shorey	707,171	Aug. 19	2242	502	100	1610
Folding table	W. O. Nussbaumer	709,171	Sept. 16	2233	507	100	2469
Folding table	A. F. C. Garben	711,562	Oct. 21	2246	487	101	497
Folding table, shelf, or desk	G. A. Ank	701,666	June 3	701	155	99	2255
Folio-holder	D. E. Hunter	709,221	Sept. 16	2328	528	100	2490
Follower. Hinged split.	C. A. Batchelder	690,689	Jan. 7	618	135	98	131
Food and making same. Cattle	L. J. P. M. Y. Dupire.	713,620	Nov. 18	2258	-----	101	1392
Food and making same. Malted cereal	J. K. Lippen	703,209	June 24	3573	-----	99	2804
Food and making same. Stock	S. L. Fraser	704,530	July 15	2191	475	100	475
Food. Cattle	G. H. Hughes	707,113	Aug. 19	2132	-----	100	1587
Food. Cereal	H. D. Winton	713,581	Nov. 11	2177	486	101	1353
Food-chopper	H. K. Wood	697,766	Apr. 15	2569	572	99	574
Food-chopper	H. O. Evans	711,837	Oct. 21	2770	614	101	607
Food-cutter	J. A. Bone	700,725	May 27	3155	716	99	1876
Food extracts. Obtaining	G. Eichelbaum	708,330	Sept. 2	615	-----	100	2107
Food-guard	A. M. Stadelman	704,139	July 8	1464	313	100	307
Food products and preparing same	G. P. Howard	692,667	Feb. 4	800	-----	98	963
Food products. Curing	C. B. Trescott	710,125	Sept. 30	4140	934	100	2693
Foot. Artificial	M. Smith	703,156	June 24	3477	799	99	2875
Foot-cleaner	W. S. White	712,110	Oct. 28	3321	728	101	736
Foot-guard	E. Truxall	692,169	Jan. 28	3381	766	98	751
Foot or head supporter	D. E. Morgan	707,860	Aug. 26	3631	818	100	1911
Foot-plate	F. F. Hussey	717,205	Dec. 30	5104	1106	101	2979
Foot-power device	G. P. Clark and G. H. Davis.	709,435	Sept. 16	2780	621	100	2582
Foot-propelling device	G. P. Clark	692,626	Feb. 4	722	167	98	947
Foot-rest	F. G. Smedley	692,080	Jan. 28	3248	734	98	723
Foot-rest	J. Woerner	699,780	May 13	1258	292	99	1446
Foot-shield	W. E. Bosworth	715,543	Dec. 9	1712	378	101	2202
Foot. Tree	A. D. Tyler, Jr.	711,025	Oct. 14	1192	262	101	262
Foot-warmer	J. T. Cole	690,636	Jan. 7	898	199	98	190
Foot-warmer	J. F. McAbee	707,756	June 3	832	188	99	2284
Foot-warmer. Vehicle	G. W. Dunham and J. W. Fox	707,908	Aug. 26	3725	835	100	1929
Footwear. Extension	W. Jochimsen	693,400	Feb. 18	2245	492	98	1307
Forge-press	J. Ferrier	711,302	Oct. 14	1750	379	101	380
Forcing-frame or like sash or window	G. Knochenhauer	707,932	Aug. 26	3766	845	100	1939
Forge chimney. Blacksmith's	W. E. Canedy	693,898	Feb. 25	3076	678	98	1496
Forge fire-pot. Blacksmith's	D. D. Reese	697,275	Apr. 8	1663	873	99	374
Forging axes, &c. Press for	E. P. Alexander	692,587	Feb. 4	658	155	98	933
Forging horseshoe-nails, &c. Machine for	H. A. Williams	695,984	Mar. 25	3063	694	98	2399
Forging-machine	S. Vanstone	694,808	Mar. 4	905	201	98	1903
Forging-press. Hydraulic	H. V. Loss	710,286	Sept. 30	4434	990	100	2957
Fork:				(1000)			
See Hay-fork. Sheaf-fork.							
Hay or fodder fork. Tobacco-fork.							
Hay-tedder fork.							
Fork-crown. Interchangeable	H. Müller and W. A. Jackson	714,936	Dec. 2	594	124	101	1953
Fork-making die	S. D. Robinson	696,753	Apr. 1	678	153	99	145
Forking, elevating, and conveying machine	A. P. Taterson	709,248	Sept. 16	2388	541	100	2503
Form. Adjustable sleeve	M. C. Moran	700,559	May 20	2796	638	99	1782
Form. Sleeve	A. J. Day	716,199	Dec. 16	3022	659	101	2500
Formaldehyde. Solidifying	R. Groppler	705,667	July 29	4550	660	100	981
Formic aldehyde. Composition for the production of vapors of	J. J. A. Trillat	704,490	July 8	2104	-----	100	442
Forming and pressing machine	W. H. Hayes	705,756	July 29	4718	1021	100	1013
Fort. Construction of	P. J. Nelson	701,922	June 10	1140	261	99	2362
Foundations. Building subaqueous	J. T. Ford	707,093	Aug. 19	2088	466	100	1579
Foundations. Preparing	N. Schietkiewics	695,583	Mar. 18	2349	533	98	2240
Foundations. Sinking	A. Goerke	701,559	June 3	506	111	99	2212
Foundry pattern-clamp	E. J. Kiss	707,596	Aug. 26	3054	687	100	1776
Foundry-sand. Apparatus for feeding and tempering	A. M. Acklin	696,787	Apr. 1	744	169	99	159
Foundry-sand feeding and tempering apparatus	A. M. Acklin	699,471	May 6	656	152	99	1311
Fountain:							
See Drinking-fountain. Toy fountain.							
Poultry fountain. Water-fountain.							
Soda-water fountain.							
Fountain	F. W. Darlington	690,405	Jan. 7	33	8	98	10
Fountain-comb	J. R. Harrison	710,269	Sept. 30	4406	993	100	2951
Fowls. Device for extracting tendons from the legs of	F. O. Richmond	710,303	Oct. 7	789	169	101	162
Fracture apparatus	J. P. Gordon	708,340	Sept. 2	630	142	100	2109
Frame:							
See Curtain-stretching frame. Quilting-frame.							
Door or window frame. Spinning and twisting frame.							
Drawing-frame. Spool-holding frame.							
Embroidery-frame. Truck-frame.							
Embroidery-frame. Vehicle-frame.							
Hay-curing frame. Vial-carrying frame.							
Picture-frame. Window-frame.							
Frame	E. Oldenbusch	695,229	Mar. 11	1712	379	98	2090
Frame	E. Oldenbusch	697,872	Apr. 15	2771	614	99	621
Frame and calendar	F. E. Housh	715,479	Dec. 9	1576	341	101	2175

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Frame-joint.....	J. H. Sager and G. D. Green.....	714,402	Nov. 25	3775	833	101	1726
Framing or other purposes. Ornamental stock for.	J. H. Killion.....	694,755	Mar. 4	801	178	98	1881
Freezing can. Water.....	E. Stutz.....	699,856	May 13	1420	327	99	1480
Freezing. Protecting exposed filters or other confined liquid bodies from.....	L. K. Davis.....	705,740	July 29	4697	1016	100	1010
Friction-brake.....	F. L. Whitmore.....	691,513	Jan. 21	2174	486	98	488
Friction-brake.....	H. A. House, Jr.....	707,232	Aug. 19	2355	528	100	1635
Friction-power.....	A. R. Moore.....	708,655	Sept. 9	1176	268	100	2231
Friction-spring.....	P. Hien.....	715,069	Dec. 2	807	171	101	1990
Frog-operating mechanism.....	F. C. Anderson.....	703,035	June 24	3233	743	99	2827
Frost on vegetation. Machine for preventing deposition of.....	S. D. Smith.....	703,316	June 24	3733	860	99	2927
Fruit-assorting table.....	C. D. Nelson.....	719,484	Nov. 11	1956	442	101	1315
Fruit-box.....	W. Clement.....	702,776	June 17	2732	628	99	2709
Fruit box or basket.....	G. H. Williams.....	698,776	Apr. 29	4506	995	99	1020
Fruit-brusher.....	H. B. Ruggles.....	692,362	Feb. 4	256	62	98	852
Fruit brushing and cleaning machine.....	M. G. Swan and E. H. Richardson.....	709,562	Sept. 23	3044	678	100	2053
Fruit-clipper.....	G. W. Starrett.....	693,753	Feb. 18	2909	640	98	1444
Fruit-dipping machine.....	W. K. Allen.....	711,612	Oct. 21	2340	511	101	516
Fruit-drier.....	W. A. Cates.....	690,834	Jan. 7	896	198	98	189
Fruit-drier.....	L. Van Scoyoc.....	697,673	Apr. 15	2407	535	99	540
Fruit-drier.....	C. J. Kurtz.....	705,767	July 29	4737	1025	100	1017
Fruit-drier tray.....	J. H. Collins.....	697,237	Apr. 8	1591	350	99	357
Fruit for packing. Machine for facing.....	L. F. Graham.....	705,071	July 29	3262	706	100	710
Fruit-gatherer.....	J. D. Carter.....	691,595	Jan. 21	2316	521	98	517
Fruit-grader.....	W. C. Anderson.....	703,887	July 1	941	205	100	180
Fruit-grader.....	F. Stebler.....	709,613	Sept. 23	3130	697	100	3671
Fruit-grading machine.....	A. H. Pettit.....	697,360	Apr. 8	1802	404	99	403
Fruit-jar.....	F. Mason.....	701,213	May 27	4022	937	99	2065
Fruit-jar.....	H. B. Burns.....	702,702	June 17	2588	596	99	2679
Fruit-jar.....	F. Wiese.....	705,182	July 22	3502	759	100	760
Fruit-jar.....	J. Therniac.....	710,818	Oct. 7	813	175	101	166
Fruit-jar.....	D. Ray.....	711,260	Oct. 14	1661	358	101	360
Fruit-jar and cover.....	J. A. Donald and H. L. Bussey.....	691,366	Jan. 21	1916	480	98	433
Fruit-juice extractor.....	C. Pate.....	700,668	May 20	3006	690	99	1828
Fruit-knife.....	C. W. Prentiss.....	706,107	Aug. 5	195	40	100	1157
Fruit. Means applicable for use in transporting.....	R. R. Blandy.....	705,637	July 29	4493	975	100	969
Fruit or flower picker.....	T. Drynan.....	690,567	Jan. 7	883	79	98	83
Fruit or vegetable cutter.....	I. Beck.....	693,775	Feb. 18	2948	649	98	1451
Fruit or vegetable protector.....	L. C. Putnam and C. M. Berry.....	711,225	Oct. 14	1604	344	101	348
Fruit-picker.....	H. Ellsworth.....	692,838	Feb. 11	1104	247	98	1050
Fruit-picker.....	W. H. Rauch.....	705,141	July 22	3423	743	100	742
Fruit-picking device.....	N. Dinger.....	703,770	July 1	737	161	100	146
Fruit-picking sack.....	E. Harter.....	691,376	Jan. 21	1931	434	98	436
Fruit pitting and stuffing machine.....	S. M. Brown.....	716,331	Dec. 16	3232	711	101	2545
Fruit, &c. Press for expressing juice from.....	B. A. Geurink.....	703,190	June 24	3537	813	99	2857
Fruit-quartering device.....	J. Goossen.....	706,174	Aug. 5	336	72	100	1185
Fruit-stemmer.....	J. A. North.....	707,154	Aug. 19	2207	495	100	1601
Fuel and preparing same. Artificial.....	B. M. Thomas.....	704,717	July 15	2502	500	100	539
Fuel. Apparatus for combustion of.....	C. Olsted.....	707,627	Aug. 26	3111	701	100	1808
Fuel. Apparatus for the combustion of finely-divided solid.....	J. W. Bailey.....	710,033	Sept. 30	3950	891	100	2854
Fuel. Artificial.....	W. R. Peakes.....	698,850	Apr. 29	4704	99	1066	
Fuel. Artificial.....	A. E. Tucker and C. Cory.....	700,389	May 20	2511	99	1722	
Fuel. Artificial.....	J. T. Davis.....	705,216	July 22	3584	100	776	
Fuel. Artificial.....	G. M. Dallas.....	706,533	Aug. 12	1052	100	1343	
Fuel. Artificial.....	C. B. Harris.....	709,851	Sept. 23	3573	100	2763	
Fuel. Artificial.....	W. A. Kōneman.....	711,167	Oct. 14	1480	101	323	
Fuel block and briquet.....	F. Chailly.....	697,234	Apr. 8	1558	99	350	
Fuel block or briquet.....	F. Chailly.....	711,242	Oct. 14	1635	101	375	
Fuel blocks. Manufacturing artificial.....	A. D. Micheroux.....	711,995	Oct. 28	3108	101	695	
Fuel blower and pulverizer.....	M. F. Williams.....	711,688	Oct. 21	2488	546	101	549
Fuel briquet.....	J. Simons.....	713,512	Nov. 11	2050	101	1334	
Fuel briquet. Artificial.....	W. A. Kōneman.....	711,166	Oct. 14	1478	101	323	
Fuel-burner.....	C. A. Dally.....	701,800	June 3	624	206	99	2301
Fuel compound.....	J. H. Ricker.....	707,722	Aug. 26	3310	100	1849	
Fuel compressor. Artificial.....	E. Spratton.....	692,605	Feb. 4	163	98	940	
Fuel-feed. Burner.....	F. A. Reynolds.....	695,232	Mar. 11	1715	380	98	2090
Fuel-feeding apparatus.....	W. G. Stones. (Reissue).....	12,023	Aug. 19	2916	659	100	1751
Fuel-feeding apparatus. Fine.....	R. C. Carpenter.....	691,337	Jan. 14	1855	419	98	405
Fuel. Feeding fine.....	R. C. Carpenter.....	691,336	Jan. 14	1852	419	98	404
Fuel. Making artificial.....	R. Steiner.....	695,348	Mar. 11	1915	98	2190	
Fuel. Manufacture of artificial.....	E. W. Gilliland.....	690,886	Jan. 7	882	98	206	
Fuel. Manufacturing artificial.....	E. J. Hoffman.....	707,231	Aug. 19	2353	100	1334	
Fuel. Manufacturing artificial.....	C. J. Holmes.....	710,580	Oct. 7	348	75	101	70
Fuel-regulator. Automatic.....	H. A. House, Jr.....	696,638	Apr. 1	442	103	99	95
Fuel-saver and smoke-consumer.....	C. W. Francisco.....	706,229	Aug. 5	440	93	100	1206
Fuel. Waterproof artificial.....	J. F. Bartlett.....	712,635	Nov. 4	333	101	968	
Fuels, &c. Burning wood or charcoal.....	J. A. Russell.....	714,088	Nov. 18	3658	675	101	1582
Fume-arrestor.....	A. W. Gilliland.....	709,896	Sept. 30	3693	833	100	2799
Fumigator.....	T. H. McDonald.....	712,321	Oct. 28	3687	805	101	809
Fumigator.....	O. P. Wagner.....	713,819	Nov. 18	2615	583	101	1468
Fumigator and refrigerator. Combined.....	G. E. Alphin.....	715,335	Dec. 9	1312	280	101	2124
Funnel.....	J. de St. Legier.....	706,465	Aug. 5	386	204	100	1305
Funnel attachment.....	W. A. Hesse.....	690,576	Jan. 7	397	82	98	86



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Funnel. Filtering.....	S. Rudner .....	712,336	Oct. 28	3718	812	101	817
Furnace:							
See Adjustable furnace.	Liquid-heating furnace.						
Annealing-furnace.	Melting-furnace.						
Assayer's furnace.	Metallurgical furnace.						
Assaying-furnace.	Muffle-furnace.						
Billet-heating furnace.	Ore-furnace.						
Blank-furnace.	Ore-roasting furnace.						
Blast-furnace.	Oxidizing furnace.						
Blast or other furnace.	Perfect-combustion furnace.						
Boiler-furnace.	Portable furnace.						
Boiler corrugated furnace.	Puddling-furnace.						
Boiler or other furnace.	Puddling or boiling furnace.						
Brick and kiln furnace.	Quicksilver-furnace.						
Charcoal-furnace.	Reduction-furnace.						
Combination draft-furnace.	Regenerative furnace.						
Cupellation-furnace.	Retort-furnace.						
Cupola-furnace.	Roasting-furnace.						
Dental furnace.	Roasting, smelting, and matting furnace.						
Electric furnace.	Rolling-mill furnace.						
Electric combustion-furnace.	Shaft-furnace.						
Electrical furnace.	Sheet-metal-heating furnace.						
Fine-fuel furnace.	Smelting-furnace.						
Garbage-furnace.	Smoke-burning furnace.						
Gas-furnace.	Smoke-consuming furnace.						
Glass-furnace.	Smoke-preventing furnace.						
Glass-making furnace.	Smokeless combustion-furnace.						
Glass-pot furnace.	Spelter-furnace.						
Heating-furnace.	Steam-generating furnace.						
Hot-air furnace.	Steel-furnace.						
Hot-blast furnace.	Straw-burning furnace.						
Ingot-heating furnace.	Welding-furnace.						
	Zinc-furnace.						
Furnace.....	E. Bennis .....	691,100	Jan. 14	1368	1310	98	300
Furnace.....	J. G. Geiges .....	692,439	Feb. 4	379	93	98	878
Furnace.....	T. V. Allis .....	693,771	Feb. 18	2943	647	98	1150
Furnace.....	S. T. Bleyer .....	694,241	Feb. 25	3852	854	98	1650
Furnace.....	H. Sturm .....	695,084	Mar. 11	1432	1316	98	2032
Furnace.....	C. W. Stauss .....	695,503	Mar. 18	2173	491	98	2303
Furnace.....	A. J. F. Miller .....	695,750	Mar. 18	2936	598	98	2297
Furnace.....	J. Ward .....	695,975	Mar. 25	3047	691	98	2396
Furnace.....	W. Wakely .....	696,701	Apr. 1	584	131	99	127
Furnace.....	J. MacCormack .....	696,987	Apr. 8	1160	132	99	267
Furnace.....	W. M. Green, J. R. Gent. and H. A. Poppenhusen.	697,620	Apr. 15	2907	516	99	321
Furnace.....	G. S. Gallagher .....	697,833	Apr. 15	2692	598	99	603
Furnace.....	W. Stubblebine .....	698,336	Apr. 22	3634	803	99	818
Furnace.....	E. H. Gowing .....	700,036	May 13	1758	406	99	1530
Furnace.....	W. W. Peasley .....	700,230	May 20	2185	499	99	1637
Furnace.....	F. Sargent .....	700,831	May 27	3374	775	99	1920
Furnace.....	V. E. Edwards .....	701,022	May 27	3733	855	99	1995
Furnace.....	W. F. Wilmoth .....	702,755	June 17	2695	619	99	2701
Furnace.....	W. L. Ross .....	703,474	July 1	178	41, 42	100	38
Furnace.....	P. Corrigan .....	703,768	July 1	722	160	100	145
Furnace.....	C. Phillips .....	704,097	July 8	1354	295	100	283
Furnace.....	T. Murphy .....	705,276	July 22	3719	896	100	801
Furnace.....	E. O. Rickard .....	705,965	July 29	5084	1109	100	1088
Furnace.....	E. O. Rickard .....	706,496	Aug. 5	984	216	100	1315
Furnace.....	R. Halley .....	707,103	Aug. 19	2113	472	100	1582
Furnace.....	J. Reagan .....	707,157	Aug. 19	2212	495	100	1603
Furnace.....	J. Reagan .....	707,158	Aug. 19	2214	496	100	1603
Furnace.....	C. F. Smith .....	707,870	Aug. 26	3646	821	100	1913
Furnace.....	G. Westinghouse .....	708,107	Sept. 2	192	46	100	2021
Furnace.....	D. S. McDonald .....	709,107	Sept. 16	2108	483	100	2445
Furnace.....	T. Murphy .....	710,707	Oct. 7	586	124	101	120
Furnace.....	W. H. Drake .....	712,271	Oct. 28	3604	787	101	793
Furnace.....	C. S. Batchelder .....	712,636	Nov. 4	324	78	101	968
Furnace.....	G. W. Meacher .....	713,473	Nov. 11	1940	439	101	1312
Furnace.....	S. A. Cheney .....	713,749	Nov. 18	2488	554	101	1442
Furnace.....	E. Ferraris .....	714,685	Dec. 2	61	13	101	1850
Furnace.....	R. S. Franz .....	715,569	Dec. 9	1754	388	101	2211
Furnace.....	F. W. Blake .....	715,952	Dec. 16	2517	555	101	2303
Furnace air-feeding apparatus.....	H. Abbott .....	708,851	Sept. 9	1583	361	100	2318
Furnace and air-feeding apparatus therefor.....	E. Maslin and C. Theryc .....	715,494	Dec. 9	1604	347	101	2181

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Furnace arch. Boiler.....	J. F. Michalski.....	697,737	Apr. 15	2523	562	99	565
Furnace ash-remover. Boiler.....	D. Campbell.....	698,449	Apr. 29	3853	850 851	99	870
Furnace attachment. Oil-burning.....	J. R. Scott.....	716,486	Dec. 23	3581	782	101	2630
Furnace blast device.....	C. E. Larsen.....	698,525	Apr. 29	3974	878	99	945
Furnace blast-regulator.....	C. W. Cabot and S. W. Vaughan.....	710,347	Sept. 30	4373	983	100	2913
Furnace bush-plate. Blast.....	J. C. McCausland.....	717,248	Dec. 30	5180	1122	101	2995
Furnace-bottom and making and repairing same.....	J. Dunford.....	714,565	Nov. 25	4064	890	101	1784
Furnace bottom. Sheet-heating.....	P. F. Smith.....	698,148	Apr. 22	3305	724	99	748
Furnace bridge-wall.....	H. A. Poppenhusen.....	697,657	Apr. 15	2375	529	99	534
Furnace-charging apparatus.....	B. A. Franklin.....	685,604	Mar. 18	2384	540	98	2247
Furnace-charging apparatus.....	S. S. Wales.....	698,708	Apr. 29	4495	993	99	1018
Furnace-charging mechanism.....	P. C. Patterson.....	715,852	Dec. 16	2319	514	101	2351
Furnace-charging mechanism. Blast.....	D. Baker.....	696,129	Mar. 25	3367	760	98	2464
Furnace-charging system.....	A. B. W. Hodges.....	699,555	May 6	743	174	99	1829
Furnace cleaning-door.....	F. Fiebigler.....	714,792	Dec. 2	283	60	101	1895
Furnace-door.....	L. L. Knox.....	708,719	Sept. 9	1305	236	100	2258
Furnace-doors. Device for connecting.....	M. Cumming.....	713,288	Nov. 11	1615	305	101	1241
Furnace draft and damper regulator.....	W. F. Wilmoth.....	715,919	Dec. 16	2453	541	101	2380
Furnace-feeding apparatus.....	W. H. Howard.....	705,246	July 22	3654	791	100	790
Furnace-feeding mechanism. Blast.....	A. B. Neumann.....	692,698	Feb. 4	855	195 196	98	974
Furnace-filling apparatus. Blast.....	J. Kennedy.....	698,839	Apr. 29	4684	1032	99	1002
Furnace flue connection.....	S. C. Collin.....	692,240	Feb. 4	42	9, 10	98	807
Furnace for burning bituminous coal.....	E. M. Hugentobler.....	690,431	Jan. 7	84	18, 19	98	21
Furnace for burning bituminous coal.....	E. M. Hugentobler.....	690,432	Jan. 7	89	20	98	22
Furnace for burning powdered fuel.....	W. Westlake.....	717,306	Dec. 30	5270	1141 1145 1146	101	3015
Furnace for glowing molds for metal castings.....	H. Elmqvist.....	717,086	Dec. 30	4847	1050	101	2923
Furnace for heating and melting iron, &c.....	H. L. Gantt.....	708,705	Sept. 9	1275	292	100	2251
Furnace for heating or smelting metals.....	H. H. Hewitt.....	698,495	Apr. 29	3326	897	99	921
Furnace for progressive metal-heating.....	T. V. Allis.....	704,286	July 8	1719	375	100	361
Furnace for progressively heating metal plates or packs.....	T. V. Allis.....	699,130	May 6	9	2	99	1178
Furnace for refining lead and zinc fume.....	F. L. Bartlett.....	692,972	Feb. 11	1400	303	98	1113
Furnace for separating zinc from ores.....	A. M. G. Sebillot.....	710,217	Sept. 30	4329	971	100	2933
Furnace for the destruction of town refuse.....	G. Watson.....	718,024	Nov. 4	1045	243	101	1110
Furnace for the destruction of town refuse.....	G. Watson.....	716,601	Dec. 23	3826	830	101	2683
Furnace fuel-feeder.....	F. N. Spear. (Reissue).....	11,964	Jan. 28	3501	702	98	776
Furnace fuel-feeding attachment.....	W. G. Stones.....	691,981	Jan. 28	3052	685	98	685
Furnace fuel-feeding mechanism.....	F. Burger and H. M. Williams.....	693,829	Feb. 25	3059	675	98	1493
Furnace-gases. Desulfurizing.....	E. Pollacek.....	709,358	Sept. 16	2589	.....	100	2546
Furnace-grate.....	A. G. Andrew.....	705,191	July 22	3516	763	100	783
Furnace-grate. Boiler or other.....	F. Fiebigler.....	710,570	Oct. 7	334	72	101	67
Furnace-grate.....	W. E. Cole.....	714,894	Dec. 2	442	34	101	1923
Furnace-grate and stoker.....	F. Girtanner.....	692,263	Feb. 4	90	21, 22	98	817
Furnace-grate-bar.....	M. Sherman.....	699,824	May 13	1344	312	99	1465
Furnace-grate-bar.....	G. A. Ellis.....	710,569	Oct. 7	332	72	101	67
Furnace-grate-bar. Forced-blast.....	F. Burger and H. M. Williams.....	696,937	Apr. 8	1067	236	99	247
Furnace-grate. Boiler.....	R. Mitchell.....	693,880	Feb. 25	3164	699	98	1513
Furnace-grate. Boiler or other.....	T. Westerby and W. G. Crosthwaite.....	693,634	Feb. 18	2702	596	98	1462
Furnace-grate-raking device.....	J. C. McDonald and M. Brennan.....	695,757	Mar. 18	2342	600	98	2299
Furnace-grate. Sectional.....	F. I. Jones.....	717,503	Dec. 30	5624	1221	101	3086
Furnace-grate. Traveling.....	P. L. Crowe.....	713,969	Nov. 18	2924	649 650	101	1333
Furnace mouthpiece. Boiler.....	W. H. Donley.....	699,500	May 6	704	163	99	1322
Furnace oil-burner.....	W. Booth.....	698,361	Apr. 22	3634	913	99	829
Furnace or forge.....	J. Armstrong.....	705,312	July 22	3797	823	100	818
Furnace or hearth.....	H. Schwiebusch.....	717,034	Dec. 30	4752	1030	101	2903
Furnace snort-valves. Device for operating blast.....	R. S. Pollard.....	694,988	Mar. 11	1255	274	98	1995
Furnace-stoking mechanism.....	W. McClave.....	705,599	July 29	4434	961	100	958
Furnace terminal. Electric.....	E. G. Acheson.....	701,986	June 10	1260	286	99	2386
Furnace top. Blast.....	P. Meehan.....	700,963	May 27	3604	287	99	1067
Furnace-top down-come and explosion-pipe.....	P. Meehan.....	704,556	July 15	2240	485	100	484
Furnace-valve and dust-catcher.....	G. G. Crawford.....	693,240	Feb. 11	1945	423	98	1224
Furnace-wall construction.....	P. L. Crowe.....	713,968	Nov. 18	2920	649	101	1532
Furnaces. Apparatus for controlling iron in blast.....	L. Lincoln.....	691,474	Jan. 21	8101	471	98	472
Furnaces. Apparatus for increasing combustion in.....	J. H. McConnell.....	707,249	Aug. 19	2383	554	100	1640
Furnaces. Apparatus for recovering minerals carried off in the fumes from smelting.....	W. R. Lee.....	704,199	July 8	1598	398	100	828
Furnaces. Apparatus for supplying air to steam-generator.....	C. Voet.....	691,679	Jan. 21	2476	555	98	550
Furnaces. Apparatus for supplying fuel to.....	E. Bennis.....	691,232	Jan. 14	1604	367	98	350
Furnaces. Apparatus for supplying fuel to.....	G. M. Warner.....	707,902	Aug. 26	3875	870	100	1959
Furnaces. Automatic feed for straw-burning.....	J. A. Cowan.....	701,015	May 27	3721	852	99	1992
Furnaces. Automatic feeder for straw-burning.....	J. A. Cowan.....	706,582	Dec. 12	1049	231	100	1343
Furnaces. Automatic heat-controller for steam-boiler.....	D. H. Darrin and E. McLean.....	690,331	Jan. 14	1065	239 240	98	239
Furnaces. Circulating water through the tuyers and coolers of blast.....	W. J. Foster.....	696,324	Mar. 25	3784	843	98	2549
Furnaces. Cover mechanism for pit.....	F. H. Treat.....	703,392	June 24	3743	962	99	2929
Furnaces. Drying air for blast.....	J. Gayley.....	715,366	Dec. 9	1366	294	101	2135
Furnaces. End-support and circuit-terminal for carbon-tube.....	H. N. Potter.....	715,509	Dec. 9	1626	352	101	2186
Furnaces. Feeding mechanism for billet-heating.....	V. E. Edwards and E. H. Carroll.....	701,023	May 27	3735	856	99	1995
Furnaces. Feeding metal strips in.....	T. V. Allis.....	699,128	May 6	6	2	99	1178
Furnaces. Feeding packs of thin metal strips from heating.....	T. V. Allis.....	698,819	Feb. 18	3031	669	98	1468
Furnaces. Gas-valve apparatus for open-hearth.....	J. A. Sobolewski.....	714,962	Dec. 2	637	134	101	1963



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Furnaces. Machinery for charging steel or like....	A. Patterson.....	716,750	Dec. 23	4082	1894	101	2730
Furnaces of steam-boilers, &c. Draft apparatus for	J. W. Stock.....	691,672	Jan. 21	2464	532	98	548
Furnaces. Operating blast-.....	J. Kennedy.....	698,840	Apr. 29	4695	1033	99	1002
Furnaces. Operating melting-.....	W. W. Lobdell.....	715,592	Dec. 9	1791	337	101	2218
Furnaces or the like. Burner for the removal of hardened masses in	H. A. E. Menne.....	705,418	July 22	4021	871	100	864
Furnaces. Reversing-valve for heating-.....	J. A. Dyblie.....	691,251	Jan. 14	1639	1374	98	357
Furnaces. Reversing-valve for regenerative gas-.....	H. Hyatt and J. McGeorge.....	698,283	Apr. 22	3555	783	99	892
Furnaces. Reversing-valve for regenerative or similar	A. Fischer.....	707,572	Aug. 26	3014	678	100	1787
Furnaces. Steam and air feeding apparatus for boiler-.....	J. Marshall.....	703,732	July 1	661	146	100	132
Furnaces. Utilizing waste heat in connection with smelting-.....	R. Brown.....	708,018	Sept. 2	30	7	100	1987
Furnaces. Valve for heating-.....	W. F. Shick, R. J. Lehman, and I. J. Walker.....	705,618	July 29	4466	968	100	964
Furnaces. Working zinc and substances containing silicic acid in electric	A. Dorsemagen.....	716,008	Dec. 16	2630	579	101	3417
Furniture-adjusting device.....	F. L. Harris.....	714,177	Nov. 25	3359	739	101	1644
Furniture. Baby.....	W. P. Abell.....	700,001	May 13	1690	389	99	1536
Furniture-clamp.....	W. L. Tuell.....	706,705	Aug. 12	1353	301	100	1496
Furniture. Combination.....	M. and J. Haut.....	696,236	Mar. 25	3583	802	98	2506
Furniture. Combination.....	J. Moran.....	702,233	June 10	1710	385	99	2477
Furniture. Construction of metal.....	J. F. L. Uhl.....	705,488	July 22	4150	993	100	888
Furniture. Convertible article of.....	W. M. Boazman.....	715,953	Dec. 16	2518	555	101	2304
Furniture-coupling.....	J. Brunner and H. J. Root.....	702,623	June 17	2446	557	99	2648
Furniture door slide or guide.....	F. L. Forster.....	702,348	June 10	1910	436	99	2516
Furniture. Folding.....	W. Wenneis.....	707,288	Aug. 19	2466	553	100	1658
Furniture-joint fastening.....	J. E. Faught.....	714,885	Dec. 2	498	104	101	1936
Furniture-joint. Knockdown or separable.....	F. L. Forster.....	692,053	Jan. 28	3198	729	98	711
Furniture, &c. Leg or standard for.....	W. G. Davis.....	705,653	July 29	4520	992	100	975
Furniture spring-support.....	F. E. Ewles.....	703,776	July 1	736	163	100	148
Furniture. Upholstered.....	G. F. Wullen.....	696,393	Mar. 25	3687	825	98	2529
Furs or skins. Machine for removing hard and stiff hairs from	G. Lafrique.....	706,964	Aug. 12	1849	414	100	1511
Fuse.....	F. B. Cook.....	711,921	Oct. 21	2954	650	101	645
Fuse.....	S. Jackson, Jr.....	712,332	Nov. 4	878	205	101	1077
Fuse.....	C. C. Badeau.....	713,831	Nov. 18	2639	588	101	1472
Fuse.....	W. L. R. Emmet.....	716,398	Dec. 23	3405	742	101	2391
Fuse. Blasting-.....	N. Harris and J. Bray.....	694,271	Feb. 25	3918	870	98	1646
Fuse. Blasting-.....	E. H. Heath and E. E. Taylor.....	713,878	Nov. 18	2728	609	101	1491
Fuse-box.....	H. R. Sargent.....	696,497	Apr. 1	181	44	99	43
Fuse-box.....	J. C. Stewart and W. Horn.....	711,543	Oct. 21	2213	481	101	490
Fuse-box.....	M. R. Utley.....	715,528	Dec. 9	1699	304	101	2194
Fuse-box. Magazine.....	H. L. Hunt and W. E. Moon.....	706,062	Aug. 5	129	25	100	1142
Fuse box. Multiple.....	J. D. Lytle.....	700,695	May 20	3078	700	99	1845
Fuse-box. Safety.....	J. T. Watson.....	690,045	Apr. 29	5027	1111	99	1133
Fuse-cap.....	C. E. Stevens.....	699,586	May 6	873	208	99	1355
Fuse-carrier.....	H. R. Sargent.....	713,593	Nov. 11	2934	456	101	1331
Fuse cut-out. Plural.....	C. J. Dorsey.....	694,912	Mar. 4	1104	243	98	1945
Fuse cut-out. Plural.....	C. J. Dorsey.....	697,935	Apr. 15	2888	636	99	643
Fuse cut-out. Plural.....	C. J. Dorsey.....	700,410	May 20	2547	583	99	1730
Fuse. Electric.....	F. Brueggeman.....	711,150	Oct. 14	1440	312	101	314
Fuse for explosive projectiles. Base.....	C. M. Broderick.....	697,974	Apr. 22	2534	651	99	677
Fuse for explosives. Electric.....	F. Schroeder.....	711,096	Oct. 14	1147	253	101	252
Fuse-igniter.....	C. K. Jenkins and H. J. McDonald.....	701,203	May 27	4047	930	99	2062
Fuse-igniting tape.....	J. H. Garson.....	709,979	Sept. 30	3863	870	100	2335
Fuse safety device. Shell.....	W. Ruegg.....	708,833	Sept. 9	1542	353	100	2840
Fuse-setting apparatus. Time.....	C. P. E. Schneider and J. B. G. A. Canet.....	699,900	May 13	1510	347	99	1501
Fuse. Time.....	O. Hartmann.....	700,649	May 20	2967	831	99	1819
Fusible materials to dust. Apparatus for reducing.	A. F. Madden.....	702,736	June 17	2453	611	99	2092
Gab.....	J. W. Thompson.....	717,472	Dec. 30	3568	1260	101	3075
Gage.....							
See Axle-gage. Micrometer-gage.							
Boiler water-gage. Milk-modifying gage.							
Caliper-gage. Planter-gage.							
Centering-gage. Pressure-gage.							
Cigar-gage. Printing press-feed-gage.							
Cutter-head-setting gage. Razor-gage.							
gauge. Saw-tooth gage.							
Cutter or tool gage. Scissors-gage.							
Dental gage. Sewing-machine gage.							
Doweling-gage. Shingle-gage.							
Draft-gage. Siding-gage.							
Float-gage. Speed-gage.							
Flooring-gage. Threshold-gage.							
Lathe alinement-gage. Vacuum-gage.							
gauge. Water-gage.							
Liquid-gage. Wheel-gage.							
Mason's gage.							
Gage.....	P. C. Smith.....	690,530	Jan. 7	315	63	98	68
Gage.....	C. M. Sears.....	693,744	Feb. 18	2998	637	98	1441
Gage.....	A. Rusbach.....	703,086	June 24	3341	767	99	2849

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Pr. g.	Vol.	Page.
Gage	G. Washington	706,505	Aug. 5	998	220	100	1319
Gage	S. R. Dunmer, Jr.	712,367	Oct. 28	3765	821	101	827
Gage	J. A. Traut	713,179	Nov. 11	1360	305	101	1192
Gage-shears	F. H. Farnham	716,015	Dec. 16	2640	581	101	2419
Gaiter	W. Lanz	694,164	Feb. 25	3719	821	98	1625
Galley-lock	U. S. G. Peoples and C. F. Walther	704,918	July 15	2931	620	100	631
Galvanic battery	W. Erny	690,710	Jan. 7	667	147	98	140
Galvanic battery	C. B. Schoenmehl	705,616	July 29	4463	968	100	964
Galvanic battery	E. B. Sloum	707,363	Aug. 19	2597	587	100	1684
Galvanic battery or pile	C. J. Reed and M. T. Morrill	690,770	Jan. 7	779	173	98	165
Galvanic battery. Reversible	T. A. Edison	692,507	Feb. 4	502	117	98	901
Galvanic battery. Reversible	T. A. Edison	700,136	May 13	1964	453	99	1589
Galvanic battery. Reversible	T. A. Edison	700,137	May 13	1965	452	99	1590
Galvanic battery. Reversible	T. A. Edison	701,804	June 3	928	206	99	2302
Galvanic battery. Reversible	T. A. Edison	704,303	July 8	1743	381	100	366
Galvanic battery. Reversible	T. A. Edison	704,304	July 8	1744	381	100	366
Galvanic battery. Reversible	T. A. Edison	704,306	July 8	1748	381	100	367
Galvanizing-machine	R. Heathfield	707,322	Aug. 19	2528	569	100	1669
Galvano-electric therapeutic chain	A. Krüger	700,782	May 27	3989	617	99	1803
Galvanometer	V. Zeleny	705,186	July 22	3509	761	100	761
Galvanometer	C. L. R. E. Menges	706,982	Aug. 12	1875	420	100	1516
Gambrel	W. A. H. Zander	708,008	Sept. 9	1092	245	100	2213
Game	J. D. Canale	692,617	Feb. 4	711	165	98	945
Game	G. W. Winckfield	694,509	Mar. 4	315	71	98	1779
Game	E. E. Graves	695,386	Mar. 11	1976	442	98	2145
Game	F. F. Esser	695,919	Mar. 25	2951	669	98	2378
Game	J. B. Singer	696,602	Apr. 1	374	88	99	82
Game	L. Ernst	696,862	Apr. 1	873	201	99	185
Game	F. Walenta	697,574	Apr. 15	2213	493	99	502
Game	C. Sr. and C. Nielsen, Jr.	697,652	Apr. 15	2369	527	99	533
Game	Z. B. Webb	700,589	May 20	2872	659	99	1798
Game	J. S. Donovan	701,171	May 27	3989	617	99	2003
Game	S. A. Ways	707,469	Aug. 19	2788	631	100	1724
Game	A. A. Knight	711,382	Oct. 14	1897	413	101	410
Game	A. F. Caille	711,979	Oct. 28	3078	675	101	689
Game	C. M. Atkins	713,275	Nov. 11	1579	357	101	1236
Game and game-table	O. Prybill	711,734	Oct. 21	2573	566	101	567
Game and library table	E. Lover	695,572	Mar. 18	2333	528	98	2237
Game and puzzle block	R. W. Mansfield	717,105	Dec. 30	4875	1056	101	2329
Game apparatus	D. Smith	694,799	Mar. 4	896	199	98	1901
Game apparatus	R. J. Graham	695,303	Mar. 11	1853	412	98	2117
Game apparatus	W. H. Atwood	695,431	Mar. 18	2049	461	98	2179
Game apparatus	W. C. Heimbuacher	696,435	Apr. 1	78	18	99	21
Game apparatus	L. C. Heidler	696,735	Apr. 1	645	145	99	158
Game apparatus	M. V. Heimbach	697,496	Apr. 8	1909	429	99	425
Game apparatus	A. R. Doering	697,457	Apr. 15	2018	445	99	463
Game apparatus	W. O. Talcott	700,856	May 27	3420	786	99	1930
Game apparatus	H. Woolfe	700,879	May 27	3460	794	99	1938
Game apparatus	H. W. Standidge	701,414	June 3	233	52	99	2155
Game apparatus	M. R. Wright	704,164	July 8	1500	321	100	315
Game apparatus	W. R. Hock	706,658	Aug. 12	1377	281	100	1391
Game apparatus	J. S. Akerman	706,873	Aug. 12	1639	319	100	1480
Game apparatus	S. A. Atkins	707,291	Aug. 19	2470	554	100	1658
Game apparatus	D. Smith	708,839	Sept. 9	1558	356	100	2312
Game apparatus	W. Gibb	709,007	Sept. 16	1897	434	100	2400
Game apparatus	C. E. Edgerly	709,144	Sept. 16	2174	498	100	2459
Game apparatus	H. A. Hannum	709,632	Sept. 23	3164	706	100	2677
Game apparatus	H. T. Coldwell	710,505	Oct. 7	326	71	101	86
Game apparatus	G. W. Griswold	710,968	Oct. 14	1972	237	101	234
Game apparatus	R. J. Graham	711,959	Oct. 28	3042	668	101	682
Game apparatus	C. W. Wagner	712,025	Oct. 28	3163	692	101	706
Game apparatus	A. Voegel	712,159	Oct. 28	3414	745	101	754
Game apparatus	A. S. Alexander	712,231	Oct. 28	3539	775	101	780
Game apparatus	F. Brown	712,493	Nov. 4	54	14	101	908
Game apparatus	H. J. Frysinger	712,923	Nov. 4	862	200	101	1073
Game apparatus	W. M. Robbins	714,754	Dec. 2	194	39	101	1877
Game apparatus	D. H. Talbert	714,969	Dec. 2	617	136	101	1965
Game apparatus	E. H. Dunbar	715,249	Dec. 9	1148	246	101	2088
Game apparatus	U. H. W. Schenck	715,515	Dec. 9	1685	354	101	2187
Game apparatus	W. Ransom	716,645	Dec. 23	3910	854	101	3700
Game apparatus	F. Sievers and M. Keppler	717,128	Dec. 30	4925	1068	101	3940
Game apparatus	E. S. Ellis	717,369	Dec. 30	5374	1168	101	3037
Game-ball	W. H. Hoyt	690,861	Jan. 7	936	209	98	197
Game-ball and making same	W. H. Hoyt	695,153	Mar. 11	1573	319	98	2062
Game-board	E. F. Woodside	698,478	Feb. 18	2396	524	98	1339
Game-board	G. N. Johnson	701,484	June 3	374	83	99	2185
Game-board	S. Schmid	708,971	July 1	1109	239	100	220
Game-board	F. E. Morrill	705,776	July 29	4752	1029	100	1021
Game-board	M. Schinkel	705,873	July 29	4923	1071	100	1056
Game-board	J. E. Johnston	709,155	Sept. 16	2191	501	100	2463
Game-board	H. L. Haskell	709,634	Sept. 23	3166	706	100	2678
Game-board	H. L. Haskell	709,635	Sept. 23	3168	707	100	2678
Game-board	A. Assorati	709,661	Sept. 23	3212	717	100	2698
Game-board	H. Cooper	712,044	Oct. 28	3189	698	101	711
Game-board	L. B. Gaylor	715,474	Dec. 9	1569	339	101	2173
Game-board	H. L. Haskell	715,794	Dec. 16	2187	489	101	2321
Game-board	H. L. Haskell	715,796	Dec. 16	2189	490	101	2321
Game-board. Horseshoe	C. J. Dorsey	711,483	Oct. 21	2089	452	101	463
Game-counter	W. J. Lewers	701,488	June 3	378	85	99	2186
Game-counter	E. T. Van Gieson	704,149	July 8	1476	316	100	310
Game device	E. Lasker	690,656	Jan. 7	555	121	98	119



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Invention	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Specy.	Dr. g.	Vol.	Page.
Game device	G. F. Barron	700,887	May 27	3471	796	99	1940
Game device	H. G. Higgins	711,124	Oct. 14	1961	426	101	423
Game device	D. McPherson	714,017	Nov. 18	3007	609	101	1350
Game indicator	E. Manley	708,500	Sept. 9	1017	239	100	2198
Game or other board folding support.	H. S. Sabin	695,949	Mar. 25	3003	679	98	1369
Game or puzzle	A. J. Seid	701,069	May 27	3466	883	99	3419
Game or puzzle	J. H. Bennett and M. L. Zimmermann	701,832	June 10	978	218	99	2339
Game or puzzle	J. Putnam	702,477	June 17	2166	494	99	2591
Game, Parlor	R. Smith	713,704	Nov. 18	2406	537	101	1122
Game-piece	H. L. Haskell	715,795	Dec. 16	2188	480	101	2321
Game-register	E. J. Wells	713,576	Nov. 11	2168	485	101	1352
Game-register	E. J. Wells and G. B. Wood	714,840	Dec. 2	385	83	101	1913
Game-table	R. F. Downey	693,382	Feb. 18	2205	484	98	1990
Game-table	P. W. Cameron	702,088	June 10	1463	329	99	2426
Game-table	E. R. Robbins	712,722	Nov. 4	175	112	101	967
Game-table cushion	R. F. Downey	694,462	Mar. 4	240	52	98	1763
Game, toy, and advertising device	O. O. Stazenberg	715,898	Dec. 16	2400	531	101	2968
Games, Counter for pinchle or similar	L. V. Johnson	713,141	Nov. 11	1883	427	101	737
Games of chance	P. E. De Ford	693,821	Feb. 18	3075	676	98	1969
Games, Propelling-spring for target	W. R. Austin and W. N. Crow	702,910	June 24	2983	687	99	2770
Garage, &c. Apparatus for the treatment of	R. Thorne	706,616	Sept. 23	3134	698	100	2672
Garbage-burner, Domestic	F. E. McGurrin	704,339	July 8	1467	404	100	394
Garbage-can	M. O'Leary	697,655	Apr. 15	2373	520	99	533
Garbage-can	J. M. Hatton	703,257	June 24	3649	839	99	3210
Garbage-can	W. S. Young	712,170	Oct. 26	3445	752	101	758
Garbage-cleaning apparatus	C. S. Wheelwright	709,896	Sept. 23	3549	799	100	2757
Garbage-furnace	R. L. Walker	709,946	Sept. 30	3746	854	100	2418
Garbage or ash cans, Tipping shelf for the preservation of	H. P. Berck	695,425	Mar. 11	238	157	98	2156
Garbage or refuse can	E. R. Gilman	697,473	Apr. 15	2040	450	99	468
Garbage or refuse can	E. C. Seaman	703,711	July 1	619	138	100	122
Garbage or refuse can	E. C. Seaman	703,745	July 1	1883	152	100	737
Garbage-receptacle	F. H. Holzhauser	709,787	Sept. 30	3867	876	100	2836
Garbage-receptacle	H. P. Berck	710,835	Oct. 7	841	183	101	171
Garbage receptacle and means for handling same	J. Thiele	705,718	July 29	4652	1068	100	1901
Garbage, Treating	R. B. Newport	703,295	June 24	3705		99	2922
Garbage, Treating	S. E. Wilson	709,384	Sept. 16	2665	598	100	2563
				599	717		
				718	719	99	1876
Garbage-treating apparatus	R. E. Boschert	700,727	May 27	3157			
Garbage-treating apparatus	S. E. Wilson	709,450	Sept. 16	2791	628	100	2380
Garden implement	E. M. Hartell	705,238	July 22	3633	787	100	786
Garden implement	H. H. Jensen	711,050	Oct. 14	1254	273	101	274
Garment	J. J. Walter and J. S. Brockert	697,576	Apr. 15	2216	494	99	503
Garment	J. H. Burt	700,674	May 20	3016	690	99	1820
Garment	J. Davis	700,747	May 27	3213	734	99	1888
Garment	J. Davis	700,903	May 27	3501	803	99	1946
Garment	H. Bandler	701,252	May 27	4135	952	99	2478
Garment	W. P. C. Adams	703,751	July 1	695	154	100	139
Garment	H. Loewenbach	711,666	Oct. 21	2444	537	101	538
Garment-clasp	B. F. Orewiler	699,990	Jan. 14	1180	267	98	262
Garment-clasp	J. Cohen	696,926	Apr. 1	2835	696	99	1820
Garment-clasp	H. S. Brevington	704,536	July 1	275	62	100	56
Garment-clasp	M. B. Hammond	704,537	July 15	2212	479	100	478
Garment-clasp	S. Katz	704,973	July 15	3066	659	100	655
Garment-clasp	B. G. Clark	706,790	Aug. 12	1557	348	101	1451
Garment-clasp	J. V. Pilcher	716,472	Dec. 23	3552	776	101	2023
Garment-clasp or hose-supporter	J. Stanley	713,252	Nov. 11	1505	341	101	1229
Garment-closure	C. B. Howd	695,365	Mar. 11	1963	446	98	2118
Garment-closure	C. B. Howd	702,949	June 24	3066	706	99	2784
Garment, Combination	G. Bald-szun	700,601	May 20	2891	664	99	1862
Garment, Combination	J. H. Burt	712,763	Nov. 4	543	125	101	1099
Garment, Combination	M. E. Buckley	709,200	Sept. 16	2205	521	100	2183
Garment-fastener	I. S. Pierce	695,341	Mar. 11	1902	424	98	2128
Garment-fastener	M. E. Dunn and O. B. Henderson	696,228	Mar. 25	3571	798	98	2709
Garment-fastener	G. W. C. Lane	702,749	June 17	2438	550	99	2307
Garment-fastener	C. E. Kasselman	706,956	Aug. 12	1938	411	100	1598
Garment-fastener	H. S. Washington	713,928	Nov. 18	2839	630	101	1514
Garment fastener and supporter	W. L. Dinsmoor	706,909	Aug. 12	1757	393	100	1183
Garment fastener or clasp	W. J. Bailey	713,823	Nov. 18	2642	589	101	1473
Garment fastener or supporter	J. Jenkins	709,169	Sept. 30	3714	838	100	2804
Garment-fastening	E. Bohm	699,071	Apr. 29	5070	1121	99	1142
Garment-fastening	C. E. B. Cushman	708,747	Sept. 9	3867	876	100	2189
Garment-fastening	J. B. Cushman	710,435	Oct. 7	69	15	101	15
Garment-fastening	M. M. McGrath	714,390	Nov. 25	3749	827	101	1721
Garment-fastening	S. J. Cox and C. L. Ackerman	715,351	Dec. 9	1341	280	101	2139
Garment-fitter	E. P. Follett	692,510	Feb. 4	506	118	98	962
Garment-fitting device	C. Anderson	716,613	Dec. 23	3852	839	101	2688
Garment-folding device	J. M. Beiermeister	703,110	June 24	3776	718	99	2855
Garment-hanger	M. H. Bushnell and B. F. Starsky	692,112	Jan. 28	3291	745	98	782
Garment-hanger	L. S. White	695,019	Mar. 11	1310	290	98	2066
Garment-hanger	B. F. Carey	696,095	Mar. 25	3104	703	98	2407
Garment-hanger	M. J. Cook	699,080	Apr. 29	5080	1124	99	1141
Garment-hanger	J. Johnson	699,456	May 13	1821	371	99	1323
Garment-hanger	J. Black	702,619	June 17	2438	550	99	2307
Garment-hanger	M. Ludlow	710,698	Oct. 7	579	120	101	117
Garment-hanger	M. Gordon	710,778	Oct. 7	730	154	101	119
Garment-hanger	M. A. Willer	713,188	Nov. 11	1376	310	101	1195
Garment-hanger for wardrobes, &c.	P. Steiger	703,094	June 24	3452	779	99	2851
Garment-holder	N. Douglas	709,970	Sept. 30	3850	866	100	2823
Garment-holder	J. D. O'Brien (Reissue)	12,063	Dec. 16	3314	723	101	2557
Garment-holder and trousers-stretcher, Combined	F. B. Walter	717,147	Dec. 30	4361	1050	101	2947
Garment-hook	T. D. Richardson	700,572	May 20	2479	568	99	1717

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Invention.	Name.	No.	Date.	Monthly		Official	
				Spec.	Dr. k.	Vol.	Page.
Garment hook and fastener	J. H. and I. Taylor	703,161	June 24	3483	801	99	2876
Garment. Nether	B. M. Crouse	700,177	May 20	2976	475	99	1086
Garment or hose supporter	G. B. Adams	712,631	Nov. 4	321	75	101	965
Garment. Protective	K. M. Davis	715,248	Dec. 9	1147	245	101	2088
Garment-rack	C. Doublat	715,563	Dec. 9	1745	386	101	2208
Garment. Skirted union	L. J. Niedner	711,877	Oct. 21	2854	631	101	626
Garment-stretcher	W. D. Ashworth	691,573	Jan. 21	2270	510	98	508
Garment-stretcher	H. Anderson	692,101	Jan. 28	3277	711	98	720
Garment-stretcher	W. J. Grotenhuis	695,924	Mar. 25	2961	670	98	2379
Garment-stretcher	E. Pickhardt	697,103	Apr. 8	1368	304	99	811
Garment-stretcher	J. Percival	698,316	Apr. 22	3604	796	99	811
Garment-stretcher	C. A. M. Anderson	698,887	Apr. 29	4773	1049	99	1050
Garment-stretcher	J. H. Youmans	700,595	May 20	2882	662	99	1800
Garment-stretcher	H. A. Brown	701,142	May 27	3944	907	99	2040
Garment-stretcher	F. F. Crawford	706,026	Aug. 5	46	9	100	1127
Garment-support	W. F. Pardee and E. Bloomer	693,618	Feb. 18	2664	588	98	1393
Garment-support	H. Eraley	712,248	Oct. 28	3545	870	101	284
Garment-support	B. H. Scott	714,406	Nov. 25	3780	835	101	1727
Garment-supporter	E. W. Carter	690,635	Jan. 7	513	112	98	110
Garment-supporter	J. S. Dorsey	693,122	Feb. 11	1687	367	98	1171
Garment-supporter	S. S. Conant	694,253	Feb. 25	3887	860	98	1657
Garment-supporter	O. Warlich	695,511	Mar. 18	2186	494	98	2206
Garment-supporter	G. H. Phelps	696,542	Apr. 1	841	138	99	177
Garment-supporter	C. W. Nonnemacher	699,265	May 5	3540	748	99	890
Garment-supporter	W. S. Hunkins	700,498	May 20	2722	622	99	1767
Garment-supporter	V. Keller	701,351	June 3	131	27	99	2186
Garment-supporter	P. Douglas	701,998	June 10	1289	294	99	2390
Garment-supporter	H. N. Northrop	702,816	June 17	2808	646	99	2725
Garment-supporter	J. H. Pilkington	703,152	June 24	3458	792	99	2872
Garment-supporter	A. P. and E. S. Richardson	703,300	June 24	3712	855	99	2923
Garment-supporter	C. S. Nonnemacher	703,343	June 24	3818	877	99	2946
Garment-supporter	C. S. Nonnemacher	703,350	June 24	3816	877	99	2946
Garment-supporter	W. S. Hunkins	703,926	July 1	1011	220	100	202
Garment-supporter	J. Wilkinson	705,506	July 22	4185	910	100	895
Garment-supporter	F. Spiering	707,032	Aug. 12	1967	411	100	1535
Garment-supporter	B. L. Bargar	707,070	Aug. 19	2049	457	100	1569
Garment-supporter	S. C. Pearson	707,717	Aug. 26	3300	730	100	1847
Garment-supporter	W. G. Walton and D. W. Harner	707,736	Aug. 26	3340	748	100	1855
Garment-supporter	J. Sulzbacher	707,876	Aug. 26	3653	823	100	1915
Garment-supporter	H. C. Hine	708,963	Sept. 9	1796	413	100	2360
Garment-supporter	C. A. Deardorff	709,879	Sept. 30	3632	821	100	2788
Garment-supporter	A. A. Mudd	710,292	Sept. 30	4445	1002	100	2059
Garment-supporter	F. Ferguson	710,675	Oct. 7	532	110	101	108
Garment-supporter	H. C. Hine	711,313	Oct. 14	1774	383	101	383
Garment-supporter	F. L. Barnard	712,475	Nov. 4	14	5	101	890
Garment-supporter	L. M. Jones	713,106	Nov. 11	1218	279	101	1164
Garment-supporter	C. W. Brown	714,774	Dec. 2	242	48	101	1886
Garment-supporter	J. H. and I. Taylor	715,318	Dec. 9	1277	273	101	2117
Garment-supporter	I. Davis	716,198	Dec. 16	3020	659	101	2500
Garment-supporter	L. Wertheim	717,305	Dec. 30	3270	1144	101	3015
Garment-supporter	E. Wolfbauer	717,485	Dec. 30	3591	1212	101	3079
Garment-supporter and waist-adjuster	A. L. Matlack	705,690	July 29	4590	996	100	988
Garment-supporter clasp	J. B. Mahana and A. I. Robbins	692,160	Jan. 28	3371	761	98	749
Garment-supporter clasp	S. S. Singer	696,205	Mar. 25	3326	789	98	2494
Garment-supporter clasp	T. P. Taylor	697,222	Apr. 8	1571	351	99	553
Garment-supporter fastening device	L. P. Chauvet	697,808	Apr. 15	2657	589	99	336
Garment-supporting appliance	J. P. Conway	697,811	Apr. 15	2661	590	99	587
Garment-supporting button attachment. Separable	H. F. Stowell	705,476	July 22	4119	895	100	853
Garment-supporting device	L. Roser, Jr.	708,497	Sept. 2	897	203	100	2163
Garment-supporting means	C. W. Mesick	698,037	Apr. 22	3070	676	99	701
Garment-supporting webbing	C. A. Spurgin	706,461	Aug. 5	985	204	100	1304
Garment-turning apparatus	W. G. Jarvis	698,956	Apr. 29	4879	1077	99	1103
Garment. Union	W. A. Graham	705,070	July 22	3261	706	100	710
Garment. Union	G. O. Cook	705,652	July 29	4517	981	100	974
Garments, &c. Fastener for	J. L. Dinkelspiel	715,644	Dec. 9	1870	415	101	2255
Garments, &c. Fastener for	H. A. Faulkner	717,371	Dec. 30	5382	1170	101	3038
Garments or the like. Strap connection for	M. Dattlebaum	712,363	Oct. 28	3761	823	101	826
Garment-cylinder	H. J. Tate	698,672	Apr. 29	4735	1043	99	1073
Garter	D. B. Littlefield	697,504	Apr. 15	2404	465	99	479
Garter	R. W. Schmelz	706,855	Aug. 12	1659	371	100	1474
Gas and air mixer	G. A. Loeben	701,590	June 3	559	123	99	2224
Gas and air mixer	J. Seymour	704,762	July 15	2590	1559	100	555
Gas and air mixer	S. Broichgans	708,308	Sept. 2	577	130	100	2098
Gas and air mixing burner	W. J. Woodward	697,788	Apr. 15	2586	573	99	578
Gas and air mixing machine	J. Seymour	704,763	July 15	2593	561	100	556
Gas and caustic soda from common salt. Machine for producing chlorine	G. M. Wilson	693,678	Feb. 13	2780	612	98	1417
Gas and oil burner. Combination	G. A. Smith	697,030	Apr. 8	1245	277	99	284
Gas and producing same. Pastil for making oxygen	G. F. Jaubert	691,058	Jan. 14	1308		98	288
Gas and steam convertible engine	G. Dahlberg, J. Clicquennoi, and E. Uhlin. (Reissue.)	12,021	Aug. 19	2906	658	100	1749
Gas and steam convertible engine	G. Dahlberg, J. Clicquennoi, and E. Uhlin. (Reissue.)	12,024	Aug. 26	3894	875	100	1964
Gas and steam engine. Combined	W. Heckert	708,637	Sept. 9	1147	259	100	3225
Gas and water separator	I. L. Neely	690,986	Jan. 14	1171	265	98	260
Gas apparatus. Acetylene	J. S. McGinn	692,891	Feb. 11	1324	270	98	1076
Gas apparatus. Acetylene	A. W. Edwards	702,062	June 10	1471	331	99	2428
Gas apparatus. Acetylene	E. Bournonville	713,116	Oct. 28	3331	730	101	739
Gas apparatus. Acetylene	E. Bournonville	712,117	Oct. 28	3338	731	101	739
Gas apparatus air-pump	F. Logan	692,685	Feb. 4	835	189	98	970



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Gas. Apparatus for charging closed compartments with	T. A. Clayton	716,381	Dec. 23	3365	735	101	2585
Gas. Apparatus for charging liquids with carbonic-acid	H. Sue	695,125	Mar. 11	1520	337	98	2049
Gas. Apparatus for extracting tar from	P. Plantinga	699,563	May 6	810	191	99	1343
Gas. Apparatus for making carbonic-acid or other.	V. W. Riesberg	704,272	July 8	1691	369	100	354
Gas. Apparatus for making oil	R. Dempster	703,901	July 1	975	212	100	195
Gas. Apparatus for the manufacture of carbureted-hydrogen	B. Van Steenberg	699,353	May 6	426	97	99	1361
Gas. Apparatus for the manufacture of illuminating-	R. Dempster	692,771	Feb. 4	975	220	98	996
Gas. Apparatus for the manufacture of illuminating-	C. W. Isbell.	698,137	Feb. 11	1713	375	98	1177
Gas-battery	O. Britzke	711,614	Oct. 21	2345	512	101	517
Gas-burner	W. J. Smart	690,471	Jan. 7	172	36	98	38
Gas-burner	E. J. Dolan	692,254	Feb. 4	69	15	98	813
Gas-burner	J. Crane, Jr	693,590	Feb. 18	2616	578	98	1383
Gas-burner	H. S. Campbell	693,836	Feb. 25	3072	678	98	1495
Gas-burner	P. Kries	694,287	Feb. 25	3347	879	98	1671
Gas-burner	H. Eldridge	697,461	Apr. 15	2023	447	99	164
Gas-burner	J. Harris	697,481	Apr. 15	2058	454	99	472
Gas-burner	P. Keller and P. Seiler	700,205	May 20	2125	487	99	1446
Gas-burner	H. Eldridge	701,025	May 27	3741	856	99	1997
Gas-burner	C. W. Currier	701,303	June 3	40	8	99	2117
Gas-burner	T. Holland	702,873	June 17	2909	672	99	2745
Gas-burner	S. R. Treen	703,625	July 1	450	103	100	88
Gas-burner	J. Harris	704,635	July 15	2363	513	100	599
Gas-burner	A. M. Hewett	704,745	July 15	2566	583	100	551
Gas-burner	F. Harper	705,581	July 29	4391	952	100	949
Gas-burner	S. A. Politsky and J. Agust	705,862	July 29	4901	1066	100	1052
Gas-burner	A. Beler	706,633	Aug. 12	1221	271	100	1879
Gas-burner	J. G. Koegle	706,761	Aug. 12	1482	328	100	1496
Gas-burner	G. Lund	706,973	Aug. 12	1862	416	100	1513
Gas-burner	J. W. Piper	709,356	Sept. 16	2387	583	100	2546
Gas-burner	W. F. Keiser	713,449	Nov. 11	1894	429	101	1303
Gas-burner	A. Beler	716,176	Dec. 16	2953	648	101	2484
Gas-burner	S. Traubel	716,964	Dec. 30	4615	1000	101	2873
Gas burner. Acetylene.	J. J. Graf	703,404	July 1	73	14	100	17
Gas burner. Acetylene.	R. Granjon and E. Isnard	713,632	Nov. 18	2278	507	101	1396
Gas burner. Acetylene.	S. P. Watt	716,153	Dec. 16	2911	640	101	2475
Gas burner. Bunsen	B. M. Hanna	694,736	Mar. 4	788	175	98	1878
Gas-burner controller.	P. H. McDermott	695,111	Mar. 11	1478	329	98	2041
Gas-burner for firing barrels	H. G. Rush	699,578	May 6	856	200	99	1351
Gas-burner. Heating	E. S. Clark	698,455	Apr. 29	3865	853	99	882
Gas-burner. Incandescent	C. A. Bluhm	694,824	Mar. 4	935	208	98	1910
Gas-burner. Incandescent	F. E. Clawson and O. C. Benjamin	698,373	Apr. 22	3705	818	99	833
Gas-burner. Incandescent	J. W. Blakey	698,492	Apr. 29	3808	844	99	871
Gas-burner. Incandescent	C. W. Taylor	709,574	May 20	2847	651	99	1793
Gas-burner. Incandescent	I. B. Taylor	709,857	May 27	3421	786	99	1930
Gas-burner. Incandescent	C. W. Taylor	702,830	June 17	2828	651	99	2729
Gas-burner. Incandescent	A. A. Pratt	703,083	June 24	3332	766	99	2417
Gas-burner. Incandescent	A. Murinick	705,950	July 29	5061	1102	100	1084
Gas-burner. Incandescent	E. W. Phelps	706,086	Aug. 12	1326	293	100	1493
Gas-burner. Incandescent	T. Gordon	708,222	Sept. 2	423	96	100	2067
Gas-burner. Incandescent	J. Buchanan	708,860	Sept. 9	1000	366	100	2322
Gas-burner. Incandescent	J. Buchanan	708,861	Sept. 9	1601	366	100	2322
Gas-burner. Incandescent	G. W. Thurnau	710,540	Oct. 7	281	62	101	57
Gas-burner. Incandescent	E. Seiler	712,731	Nov. 4	457	115	101	999
Gas-burner. Incandescent	V. H. Slinack	713,701	Nov. 18	2401	535	101	1421
Gas-burner lighting attachment	E. W. Cornell	703,043	June 24	3245	746	99	2830
Gas burner mantle-holder	A. P. Griffin	692,441	Feb. 4	385	93	98	878
Gas-burner mantle-support	H. H. Tibbs	699,857	May 13	1422	328	99	1480
Gas-burner of Bunsen type for illuminating purposes and for heating.	P. Lamure and P. E. Yège	713,314	Nov. 11	1664	374	101	1254
Gas-burner pressure-regulator. Automatic	C. A. Haas	690,573	Jan. 7	393	81	98	85
Gas-burner. Regenerative	E. L. Kelly	706,831	Aug. 12	1613	362	100	1450
Gas-burner. Safety	G. H. Ducker	714,023	Nov. 18	3016	671	101	1552
Gas-burner. Safety	L. F. Ducker	714,162	Nov. 25	3321	733	101	1637
Gas-burner safety attachment	S. H. Blodgett	705,315	July 22	3303	825	100	819
Gas-burner safety by-pass device	J. Vaillant	714,265	Nov. 25	3526	775	101	1677
Gas-burner. Self-closing	W. and I. Glou	693,352	Feb. 11	2143	470	98	1266
Gas-burner tip	E. Downey	715,535	Dec. 2	2753	159	99	1985
Gas-burner valve	M. C. Gilbert	705,637	Mar. 18	2146	553	98	2250
Gas-burner valve-locking mechanism	M. I. Cohen	695,797	Mar. 18	2726	621	98	2316
Gas-burners. Automatic cut-off for	L. F. Ducker	705,339	July 22	3843	832	100	827
Gas-burners. Mantle-holder for incandescent.	F. Quatram	690,606	Jan. 7	457	98	98	98
Gas-burning heater	A. W. Kent	698,519	Apr. 29	3958	875	99	901
Gas-capsule	G. A. Logan	696,983	Apr. 8	1155	257	99	295
Gas. Charging compartments with	J. D. Moore and F. M. Martin	700,538	May 20	2734	698	99	1782
Gas-check. Adjustable	M. D. Compton	714,457	Nov. 25	3871	855	101	1745
Gas-check for Bunsen or similar burners	F. M. Brooks	700,893	May 27	3480	798	99	1942
Gas. Coin-freel apparatus for delivering	W. Cox	712,911	Nov. 4	844	196	101	1069
Gas cut-off. Automatic	A. M. Shough	716,119	Dec. 16	2853	628	101	2461
Gas-detector	O. Freymann and C. Tolman	692,007	Jan. 28	3096	696	98	698
Gas-distributing system	M. Toltz and A. Lipschutz	699,725	May 13	1145	268	99	1423
Gas-distributing system	F. C. and G. L. Wilson	710,642	Oct. 7	468	98	101	94
Gas-engine	C. Robinson	691,489	Jan. 21	2128	477	98	478
Gas-engine	H. Junkers	694,552	Mar. 4	426	92	98	1892
Gas-engine	S. A. Freeman and C. E. Throop	694,735	Mar. 4	770	171	98	1874

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Gas-engine	F. L. Nichols	702,375	June 10	1957	445	99	2586
Gas-engine	E. B. and L. S. Cushman	703,685	July 1	599	133	100	119
Gas-engine	A. T. Brown	705,201	July 22	3534	766	100	767
Gas-engine	T. Doherty	706,167	Aug. 5	324	68, 69	100	1183
Gas-engine	W. A. Leonard	708,236	Sept. 2	442	101	100	2071
Gas-engine	G. Westinghouse	710,385	Sept. 30	4607	1089	100	2992
Gas-engine	E. G. Shortt	711,235	Oct. 14	1622	1349	101	352
Gas-engine	W. J. Wright	711,454	Oct. 14	2030	440	101	437
Gas-engine	J. McCoy	713,332	Nov. 11	1692	382	101	1260
Gas-engine	J. Hirst	714,799	Dec. 2	297	65	101	1898
Gas-engine	J. Lizotte	715,208	Dec. 2	1069	280	101	2056
Gas-engine	F. E. and M. E. Vaughn	716,792	Dec. 23	4164	1313	101	2733
Gas-filter	B. W. Harris	707,774	Aug. 26	3455	914	100	1878
Gas-fire appliance	J. F. Hewitt	697,941	Apr. 15	2891	637	99	645
Gas-fixture	G. F. Bryan	699,650	May 13	1009	234	99	1397
Gas-fixture globe-holder attachment	J. Kirby, Jr.	696,614	Apr. 1	452	106	99	97
Gas-fixture valve	M. J. Graham	706,928	Aug. 12	1787	400	100	1499
Gas for use in explosion-engines. Device for generating	J. S. Killian	696,569	Apr. 1	316	74	99	71
Gas from carbonates in a continuous manner. Apparatus for the production of pure carbonic-acid	E. Luhmann	706,972	Aug. 12	1860	416	100	1513
Gas from peat. Producing	L. L. Merrifield	716,455	Dec. 23	3519	769	101	2617
Gas-furnace	F. G. Hamer	705,077	July 22	3271	709	100	712
Gas-furnace	T. P. Shaw and J. Fee	711,010	Oct. 14	1152	255	101	253
Gas-furnace	E. P. Reichhelm	716,277	Dec. 16	3152	690	101	2525
Gas-furnace. Retort	F. Bredel	704,504	July 15	2136	462	100	462
Gas-furnace. Steam-boiler	E. J. Duff	701,861	June 10	1031	230	99	2339
Gas, gasoline, or inflammable-vapor engine	A. W. Clayden	694,090	Feb. 25	3582	732	98	1597
Gas generating and burning furnace	C. M. Gearing	702,418	June 17	2056	468	99	2567
Gas-generating apparatus	W. J. Faulkner	701,186	May 27	4018	923	99	2056
Gas-generating apparatus	W. J. Faulkner	701,806	June 3	933	207	99	2303
Gas-generating apparatus. Acetylene	E. N. Dickson	696,418	Apr. 1	49	11	99	14
Gas-generating apparatus. Acetylene	J. Nouzaret	698,044	Apr. 22	3082	679	99	703
Gas-generating apparatus. Acetylene	A. E. Adolfsson	699,823	May 13	1350	1313	99	1466
Gas-generating apparatus. Acetylene	P. Bucher	700,405	May 20	2540	581	99	1728
Gas-generating apparatus. Acetylene	E. R. Cook	708,956	Sept. 9	1779	411	100	2857
Gas-generating apparatus. Building containing acetylene	P. Willemain	696,319	Mar. 25	3557	796	98	2501
Gas-generating apparatus. Carbonic-acid	F. A. Feldkamp	705,570	July 29	4374	1948	100	947
Gas-generating apparatus. Water	H. Strache	703,619	July 1	435	101	100	86
Gas. Generating producer	M. V. Smith	715,311	Dec. 9	1267	270	101	2116
Gas. Generating water	H. Strache	715,218	Dec. 2	1084	232	101	2059
Gas-generator	R. A. Kummer	694,288	Feb. 25	3949	879	98	1671
Gas-generator	F. E. Caton and F. B. Warring	703,995	July 8	1161	252	100	246
Gas-generator	C. J. Luther	709,788	Sept. 23	3458	778	100	2788
Gas-generator	J. A. Jenney	716,716	Dec. 23	4024	882	101	2723
Gas-generator. Acetylene	J. J. Hendler	699,425	Jan. 7	72	16	98	18
Gas-generator. Acetylene	J. H. Ross	690,773	Jan. 7	784	174	98	166
Gas-generator. Acetylene	W. W. Cozins	691,357	Jan. 21	1899	427	98	430
Gas-generator. Acetylene	K. G. Gustafsson	691,855	Jan. 28	2831	640	98	641
Gas-generator. Acetylene	E. Björnruud	691,890	Jan. 28	2892	651	98	654
Gas-generator. Acetylene	A. Myers	691,959	Jan. 28	3012	676	98	678
Gas-generator. Acetylene	H. L. Salisbury	692,213	Jan. 28	3479	786	98	772
Gas-generator. Acetylene	G. W. Collin	692,239	Feb. 4	40	9	98	802
Gas-generator. Acetylene	C. W. Caldwell	692,614	Feb. 4	706	163	98	944
Gas-generator. Acetylene	E. N. Dickson	692,638	Feb. 4	741	171	98	951
Gas-generator. Acetylene	A. L. Townson and E. F. Clough	692,738	Feb. 4	914	210	98	985
Gas-generator. Acetylene	E. L. Weil and T. W. Evans	692,745	Feb. 4	924	211	98	987
Gas-generator. Acetylene	M. T. Stevens	693,078	Feb. 11	1585	346	98	1151
Gas-generator. Acetylene	A. C. Einstein	693,248	Feb. 11	1957	425	98	1227
Gas-generator. Acetylene	E. F. Mackusick	693,293	Feb. 11	2034	443	98	1242
Gas-generator. Acetylene	L. T. Stephenson	694,587	Mar. 4	477	104	98	1814
Gas-generator. Acetylene	J. Harris	694,916	Mar. 4	1114	245	98	1948
Gas-generator. Acetylene	J. E. Reynolds	695,233	Mar. 11	1717	380	98	2091
Gas-generator. Acetylene	M. J. Erk	696,229	Mar. 25	3573	800	98	2503
Gas-generator. Acetylene	F. Simonson	696,765	Apr. 1	700	158	99	149
Gas-generator. Acetylene	J. B. Clopton	696,859	Apr. 1	868	200	99	184
Gas-generator. Acetylene	E. J. Dolan	696,948	Apr. 8	1089	241	99	251
Gas-generator. Acetylene	C. E. Drake	697,612	Apr. 15	2288	511	99	518
Gas-generator. Acetylene	G. P. Washburn	698,160	Apr. 22	3532	727	99	755
Gas-generator. Acetylene	P. F. v. Möhrer, J. P. and J. Hopp	698,306	Apr. 22	3590	728	99	809
Gas-generator. Acetylene	O. J. Moussette	698,308	Apr. 22	3595	792	99	810
Gas-generator. Acetylene	A. Yancey	698,425	Apr. 22	3795	838	99	853
Gas-generator. Acetylene	M. D. Compton	698,633	Apr. 29	4208	929	99	951
Gas-generator. Acetylene	F. H. Merrill and F. Hickman	698,722	Apr. 29	4122	975	99	1001



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Gas generator. Acetylene.	T. H. Lewis.	698,975	Apr. 29	4913	1085	99	1109
Gas generator. Acetylene.	O. Falkenwalde	699,106	Apr. 29	5125	1132	99	1153
Gas generator. Acetylene.	A. D. Williamson.	699,271	May 6	261	60	99	1227
Gas generator. Acetylene.	J. S. Wood, Sr.	699,274	May 6	266	61	99	1228
Gas generator. Acetylene.	D. N. Long	699,332	May 6	383	89, 90	99	1252
Gas generator. Acetylene.	L. Montel	699,337	May 6	392	91	99	1254
Gas generator. Acetylene.	W. H. Bazley	699,645	May 13	998	242	99	1304
Gas generator. Acetylene.	J. Quist and J. A. Bain.	700,819	May 27	3349	769	99	1916
Gas generator. Acetylene.	A. C. Einstein	700,908	May 27	3510	846	99	1948
Gas generator. Acetylene.	J. W. Weeks	701,433	June 3	267	60, 61	99	2143
Gas generator. Acetylene.	J. A. Mosher	701,598	June 3	577	129	99	2228
Gas generator. Acetylene.	A. Davis	701,852	June 10	1016	227	99	2337
Gas generator. Acetylene.	D. H. Treichler	702,604	June 17	2413	551	99	2642
Gas generator. Acetylene.	J. D. Buckley and E. H. Phinney	702,772	June 17	2725	625	99	2707
Gas generator. Acetylene.	I. L. Harris.	704,092	July 8	1227	264	100	250
Gas generator. Acetylene.	A. Winch	704,226	July 8	1646	348	100	336
Gas generator. Acetylene.	P. B. Perkins	704,664	July 15	2410	521	100	520
Gas generator. Acetylene.	C. W. Söderberg	704,945	July 15	3002	644	100	611
Gas generator. Acetylene.	F. L. Kincaid	704,967	July 15	3056	656	100	653
Gas generator. Acetylene.	W. S. Hamm and J. A. Mosher	705,078	July 22	3273	708	100	712
Gas generator. Acetylene.	J. A. Mosher	705,115	July 22	3353	728	100	729
Gas generator. Acetylene.	D. J. Van Praag	705,166	July 22	3460	753	100	759
Gas generator. Acetylene.	L. Montel	705,272	July 22	3711	804	100	799
Gas generator. Acetylene.	A. and P. L. Davis.	705,739	July 29	4693	1015	100	1000
Gas generator. Acetylene.	S. W. Ray	705,788	July 29	4771	1031	100	1025
Gas generator. Acetylene.	H. L. Bugg	705,902	July 29	4970	1082	100	1066
Gas generator. Acetylene.	A. Karg	706,067	Aug. 5	128	26	100	1143
Gas generator. Acetylene.	A. C. Einstein	706,810	Aug. 12	1575	333	100	1455
Gas generator. Acetylene.	D. W. Bishop	707,077	Aug. 19	2060	461	101	1571
Gas generator. Acetylene.	D. W. Bishop	707,078	Aug. 19	2064	461	101	1572
Gas generator. Acetylene.	S. L. Newlin and J. Mathisen	707,796	Aug. 26	3508	791	101	1888
Gas generator. Acetylene.	C. W. Caldwell	708,021	Sept. 2	33	8	101	1987
Gas generator. Acetylene.	C. W. Metcalf	709,344	Sept. 16	2569	579	101	2512
Gas generator. Acetylene.	J. C. Charbeneau	709,470	Sept. 23	2851	640	101	2612
Gas generator. Acetylene.	G. G. Smith. (Reissue)	12,041	Sept. 30	4645	1049	100	3900
Gas generator. Acetylene.	J. Ledru	710,159	Sept. 30	4308	948	101	2907
Gas generator. Acetylene.	C. W. Beck and W. C. Homan	710,559	Oct. 7	315	69	101	63
Gas generator. Acetylene.	W. J. Lover	710,874	Oct. 7	908	196	101	183
Gas generator. Acetylene.	P. F. and J. Reynolds	711,346	Oct. 14	1836	399	101	397
Gas generator. Acetylene.	D. Barnard	712,474	Nov. 4	12	5	101	899
Gas generator. Acetylene.	R. Klingler	712,940	Nov. 4	901	210	101	1081
Gas generator. Acetylene.	F. L. Irish	713,223	Nov. 11	1433	326	101	1200
Gas generator. Acetylene.	T. H. Duncombe	713,291	Nov. 11	1623	366	101	1244
Gas generator. Acetylene.	H. and H. H. Henley	713,303	Nov. 11	1648	371	101	1250
Gas generator. Acetylene.	G. G. Smith	713,353	Nov. 11	1733	391	101	1269
Gas generator. Acetylene.	W. C. Homan	713,640	Nov. 18	2391	510	101	1398
Gas generator. Acetylene.	C. W. Mackenzie	713,658	Nov. 18	2323	518	101	1405
Gas generator. Acetylene.	E. R. Angell	714,125	Nov. 25	3222	711	101	1615
Gas generator. Acetylene.	N. A. Renstrom	714,288	Nov. 25	3474	764	101	1666
Gas generator. Acetylene.	F. M. Moore	714,318	Nov. 25	3626	799	101	1696
Gas generator. Acetylene.	F. M. Moore	714,319	Nov. 25	3628	799	101	1697
Gas generator. Acetylene.	H. Kinsey, G. Challenger, and J. H. Nott.	714,490	Nov. 25	3921	898	101	1754
Gas generator. Acetylene.	W. S. May	714,929	Dec. 2	580	123	101	1952
Gas generator. Acetylene.	F. Simonson	716,488	Dec. 23	3585	783	101	2631
Gas generator. Acetylene.	S. M. Klarquist	716,556	Dec. 23	3731	813	101	2661
Gas generator. Acetylene.	D. N. Long	716,563	Dec. 23	3750	816	101	2666
Gas generator. Acetylene.	E. Moreau	716,569	Dec. 23	3763	818	101	2668
Gas generator. Acetylene.	E. Moreau	716,570	Dec. 23	3765	819	101	2669
Gas generator. Acetylene.	J. D. Forsyth	716,883	Dec. 30	4157	966	101	2841
Gas generator. Acetylene.	A. S. Phelps, Jr.	716,993	Dec. 30	4540	987	101	2859
Gas generator. Acetylene.	G. E. La Cell	717,221	Dec. 30	5133	1112	101	2986
Gas generator. Chlorin.	T. Edwards	709,004	Sept. 16	1887	433	100	2908
Gas generator. Formaldehyde.	R. W. Carman and F. M. Lawrence	699,944	May 13	1596	364	99	1518
Gas generator. Gas-engine.	G. W. Bonds	697,789	Apr. 15	2919	581	99	586
Gas generator. Street-lamp.	E. B. Ludwig	711,512	Oct. 21	2142	466	101	475
Gas generators. Carbide-cartridge for acetylene.	E. F. Mackusick	692,322	Feb. 4	187	43	98	838
Gas generators. Carbide-cartridge device for acetylene.	W. E. Scofield	697,024	Apr. 8	1294	275	99	281
Gas-governor	J. Zander	691,429	Jan. 21	2019	451	98	455
Gas-governor	D. E. Hodgens	708,883	Sept. 9	1645	378	100	2331
Gas-heater iron	B. N. Hawes	699,683	May 13	1073	251	99	1109
Gas-heater	C. W. Claybourne	697,235	Apr. 8	1589	355	99	356
Gas-heater	F. G. Grolein	698,017	Apr. 22	3064	668	99	694
Gas-heater	E. A. Monjo	700,535	May 20	2787	647	99	1781
Gas-heater	J. W. Carter	710,248	Sept. 30	4374	983	100	2944
Gas-heating burner. Atmospheric.	J. J. Lawler	709,493	Sept. 23	2912	649	100	2626
Gas-holder	E. F. Mackusick	693,292	Feb. 11	2031	442	98	1241
Gas-igniter	T. B. Wilcox	694,902	Mar. 4	1085	239	98	1942

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr.-g.	Vol.	Page.
Gas-igniter	H. Bergner	716,855	Dec. 30	4899	954	101	2880
Gas-igniting device	J. A. Mosher	705,111	July 32	3352	727	100	728
Gas-ignition device. Automatic	P. Lehmann	691,280	Jan. 14	1696	386	98	369
Gas impact-engine	L. Wilson	700,277	May 20	2372	519	99	1077
Gas lighter	R. E. Jähnig	695,728	Mar. 18	2595	587	98	2289
Gas-lighter	E. D. Anderson	698,427	Apr. 29	3800	889	99	809
Gas-lighter. Electric	C. A. E. Ruebel	696,108	Mar. 25	3330	751	98	2155
Gas-lighter. Electric	A. J. Marschall	699,302	May 6	131	33	99	1202
Gas-lighter. Electric	V. Radiguet	710,802	Oct. 7	788	168	101	161
Gas-lighter. Electrical	J. G. Poppert	708,898	Sept. 2	718	161	100	2127
Gas-lighting apparatus	C. Fader	697,080	Apr. 8	1336	296	99	934
Gas-lighting device	A. Bachner	692,589	Feb. 4	662	155	98	313
Gas-lighting device	G. Meier	702,311	June 10	1831	418	99	2502
Gas-lighting device	A. Simonini	712,156	Oct. 28	3410	747	101	753
Gas-lighting mechanism. Automatic	A. B. Shaw	701,391	July 8	1913	415	100	403
Gas lighting or extinguishing device	V. Forti	702,192	June 10	1644	368	99	2164
Gas-lights. Substance and mantle for incandescent	L. Hicks	703,064	June 24	3230	.....	99	2838
Gas-line safety device	J. C. Furman	702,195	June 10	1649	369	99	2465
Gas-lines. Automatic shut-off for	E. J. Leezor and W. R. McPherson	696,827	Apr. 1	812	187	99	172
Gas-machine weight-motor	W. D. Luce	703,071	June 24	3308	761	99	2442
Gas-main stopper	J. Franklin	702,037	June 24	3044	70	99	2789
Gas-main stopper	H. Leech	716,641	Dec. 23	3399	832	101	2698
Gas-main stopping or closing device	A. Postley	708,076	Sept. 2	114	35	100	2011
Gas-making apparatus	H. Spencer	697,373	Apr. 8	1821	408	99	407
Gas-making apparatus	W. F. Steele	714,117	Nov. 18	3201	708	101	1594
Gas. Making carbonic-acid	V. W. Riesberg	706,111	Aug. 5	291	45	100	1158
Gas. Making	E. Fleischer	701,556	June 3	502	116	99	2212
Gas-mantle. Incandescent	K. V. Moran	692,692	Feb. 4	845	192	98	973
Gas. Manufacturing	L. G. Harris	693,008	Feb. 11	1455	316	98	1125
Gas. Manufacturing	F. W. C. Schiewind	698,062	Apr. 22	3117	686	99	711
Gas-manufacturing apparatus	H. M. Papst	710,336	Sept. 30	4520	1018	100	2075
Gas. Manufacturing illuminating	C. W. Isbell	707,783	Aug. 26	3472	782	100	1881
Gas-manufacturing plant	F. W. C. Schiewind	698,063	Apr. 22	3117	686	99	712
Gas. Means for storing and distributing	G. G. Smith	713,354	Nov. 11	1737	301	101	1270
Gas-meter	E. R. Ellsworth	700,026	May 13	1736	400	99	1545
Gas-meter	J. R. Dupuy	715,564	Dec. 9	1747	386	101	2209
Gas-meter. Prepayment	J. Geen	706,922	Aug. 12	1776	398	100	1497
Gas-motor	L. A. C. Letombe	712,303	Oct. 28	3822	835	101	841
Gas, oil, and water separator	J. M. Powell	703,819	July 1	826	182	100	1661
Gas or fluid check. Adjustable	H. C. Danforth	693,116	Feb. 11	1677	364	98	1169
Gas or oil engine	E. Thomson	696,518	Apr. 1	224	51, 52	99	52
Gas or oil engine. Internal-combustion	E. Thomson	691,017	Jan. 14	1232	278	98	273
Gas or other burners. Apparatus for supplying air or other combustion-supporting substance to	T. J. Little, Jr.	692,083	Feb. 4	830	188	98	909
Gas or other pipes. Pressure-reducer for	J. L. Geyer and R. A. Prime	707,318	Aug. 10	2520	567	100	1664
Gas or vapor burner	H. L. Lytle	696,061	Mar. 25	3219	727	98	2451
Gas or vapor burner and stove. Hydrocarbon	D. W. Bowman and J. N. Clouse	692,110	Jan. 28	3288	424	98	732
Gas or vapor engine	F. G. Bates and B. A. Williams	714,853	Dec. 2	423	90	101	1919
Gas-pipe cut-off valve	H. V. Malott and C. K. Tuggle	716,916	Dec. 30	4517	980	101	2853
Gas-pressure. Instrument for indicating	M. Arndt	703,753	July 1	698	154	100	139
Gas-pressure regulator	D. L. Block	700,403	May 20	2534	580	99	1727
Gas-pressure regulator	F. J. Root	713,496	Nov. 11	1984	448	101	1321
Gas-producer	E. J. Duff	697,399	Apr. 8	1806	422	99	1422
Gas-producer	L. Mond	697,867	Apr. 15	2765	613	99	620
Gas-producer	W. J. Evans and F. Klepetko	704,527	July 15	2186	473	100	474
Gas-producer	J. A. Herrick	705,840	July 20	4853	1055	100	1043
Gas-producer	J. A. Herrick	706,412	Aug. 5	827	180	100	1281
Gas-producer	J. A. Herrick	706,939	Aug. 12	1805	403	100	1502
Gas-producer	L. L. Merrifield	707,146	Aug. 19	2193	492	100	1599
Gas-producer	W. T. Kelly	713,647	Nov. 18	2301	512	101	1400
Gas-producer	J. A. Mitchell	714,008	Nov. 18	2091	665	101	1547
Gas-producer	J. Radcliffe	715,144	Dec. 2	949	204	101	2080
Gas-producer	M. V. Smith	715,310	Dec. 9	1265	358	101	2115
Gas-producer	R. C. Peabody	717,266	Dec. 30	5206	1130	101	3001
Gas-producer and recuperative furnace. Combined	A. J. Maskrey	706,579	Aug. 12	1126	248	100	1359
Gas-producers. Mechanical stirrer or poker for	J. W. Dougherty	696,420	Apr. 1	52	12	99	15
Gas-producing apparatus	T. H. Müller	702,580	June 17	2364	540	99	2632
Gas-producing apparatus	J. H. Miller, Jr.	703,943	July 1	1046	227	100	206
Gas-purifying and mixing apparatus	H. A. Pettus	696,107	Mar. 25	3327	710	98	2455
Gas-purifier	A. D. Williamson	692,399	Feb. 4	314	76	98	865
Gas-purifier	S. S. Donohue	695,875	Mar. 18	2867	650	98	2346
Gas-purifier	D. O. Freeman	701,704	June 3	767	170	99	2269
Gas-purifier	W. J. Renwick and J. Heaton	716,757	Dec. 23	4098	899	101	2740
Gas-purifier grid	C. R. Faben, Jr.	700,188	May 20	2035	479	99	1640
Gas. Purifying	E. Zahn and J. A. Just	716,803	Dec. 23	4189	318	101	2757
Gas. Purifying acetylene	J. H. 993	701,993	June 10	1280	293	99	2389
Gas-purifying agents. Making	H. S. Blackmore	697,931	Apr. 15	2871	.....	99	641
Gas-purifying apparatus	H. A. Humphrey	709,772	Sept. 23	3431	772	100	2731
Gas-regulator	F. Schick	691,186	Jan. 14	1522	343	98	332
Gas-regulator	S. L. McAdams	702,236	June 10	1715	387	99	2478
Gas-regulator	G. H. Gregory	713,093	Nov. 11	1193	273	101	1159
Gas-regulator	M. D. Compton	713,856	Nov. 18	2689	599	101	1482
Gas-regulator	G. A. Brachhausen	714,136	Nov. 25	3246	716	101	1620
Gas-retort	C. W. Isbell	699,870	May 13	1442	333	99	1485
Gas-retort	C. W. Isbell	706,238	Aug. 5	455	97	100	1200
Gas-retort-charging apparatus	G. A. Bronder	717,334	Dec. 30	5316	1156	101	3025



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				Spec.	Dr'g.	Vol.	Page.
Gas-retort. Sectional .....	G. F. Richter .....	700,824	May 27	3358	771 772 773 774 775 776 777	99	1918
Gas-retort stand-pipes. Apparatus for cleaning ..	J. H. Taussig .....	694,443	Mar. 4	204	45	98	1756
Gas-retort stopper. Inclined ..	A. F. P. Hayman .....	691,940	Jan. 28	2976	669	98	670
Gas-retorts. Means for charging ..	E. Drory .....	705,656	July 29	4523	982	100	975
Gas-saving appliance .....	S. J. Jeha .....	698,507	Apr. 29	3943	872	99	808
Gas-saving attachment .....	P. Riess and C. Lange .....	717,278	Dec. 30	5222	1134	101	3004
Gas-separator .....	M. L. and W. D. Warner .....	693,763	Feb. 18	2326	644	98	1448
Gas-separator for digesters ..	C. W. Mills .....	691,938	Jan. 28	3011	676	98	677
Gas-service pipes. Antifluctuating device for ..	R. N. Baylis .....	699,281	May 6	284	66	99	1232
Gas-service safety-valve .....	L. M. Osborne .....	705,125	July 22	3380	732	100	734
Gas-storage tank .....	J. A. Mosher .....	705,114	July 22	3357	737	100	729
Gas-tar residuum. Treating ..	J. T. Lowe .....	708,519	Sept. 2	421	209	100	2168
Gas traps. Apparatus for protecting seals of sewer-	J. P. Putnam .....	706,255	Aug. 5	488	104	100	1215
Gas-tubing .....	L. P. Dodge .....	713,559	Nov. 11	2135	478	101	1351
Gas-valve. Automatic .....	C. Koshalko .....	691,784	Jan. 28	2712	607	98	615
Gas-valve. Automatic safety ..	J. M. Wescott and C. B. Smith ..	692,172	Jan. 28	3347	768	98	752
Gas-washer .....	P. Riecke .....	701,619	June 3	615	133	99	2234
Gases. Apparatus for cooling and cleaning blast-	B. H. Thwaite .....	690,795	Jan. 7	838	182	98	175
furnace .....							
Gases. Apparatus for destroying ..	J. Edmunds .....	699,296	May 6	314	72	99	1238
Gases. Apparatus for mixing ..	A. Molet .....	704,493	Sept. 23	2919	651	100	3628
Gases. Apparatus for saturating liquids with ..	J. B. Weiss and L. C. Anderson ..	694,081	Feb. 25	3569	788	98	1534
Gases. Apparatus for washing ..	E. Theisen .....	704,593	July 15	2299	500	100	496
Gases. Concentrating .....	H. A. Frasch .....	715,778	Dec. 16	2152	482	101	2314
Gases. Means for compressing or liquefying ..	B. Borland .....	698,362	Apr. 22	3685	815	99	829
Gases or vapors. Apparatus for reducing the tem-	F. L. Dyer .....	711,419	Oct. 14	1950	423	101	421
perature of .....							
Gases or vapors. Reducing the temperature of	F. L. Dyer .....	710,957	Oct. 14	1082	233	101	231
discharges. Apparatus for	C. S. Bradley and D. R. Lovejoy ..	709,868	Sept. 30	3614	817	100	2784
subjecting .....							
Gases. Treating .....	E. Theisen .....	709,527	Sept. 23	2903	667	100	2644
Gases. Vessel for the reception of high-pressure ..	A. Ludwig .....	699,333	May 6	385	90	99	1253
Gaseous-fuel burner .....	O. Falkenwalde .....	715,467	Dec. 9	1546	335	101	2169
Gasket .....	J. W. McAuliffe .....	696,183	Mar. 25	3190	781	98	2487
Gasket and seal for hydrocarbon-liquid containers	P. J. Lockwood .....	699,199	May 6	124	32	99	1201
Gasoline-burner .....	W. C. Rand .....	690,608	Jan. 7	459	99	98	99
Gasoline-engine .....	E. T. McKaig .....	707,793	Aug. 26	3502	790	100	1886
Gasoline-engine .....	E. E. Koken .....	717,417	Dec. 30	5475	1187 1188	101	3056
Gasoline-regulator .....	C. J. Johnson .....	709,638	Sept. 23	3172	708	100	2679
Gasometer .....	J. W. Weeks .....	716,796	Dec. 23	4175	916	101	2755
Gate:							
See Automatic gate. Head-gate.							
Bridge-gate. Hinged gate.							
Canal-lock gate. Hopper or chute gate.							
Car-gate. Lifting-gate.							
Car guard-gate. Metal gate.							
Cattle-guard gate. Mine-gate.							
Crossing-gate. Race starting-gate.							
Drop-gate. Railway-gate.							
Elevator-gate. Railway-crossing gate.							
End-gate. Road-gate.							
Farm-gate. Self-closing gate.							
Farm or yard gate. Starting-gate.							
Field-gate. Swinging gate.							
Fire-screen gate. Tilting gate.							
Flood-gate. Water-gate.							
Flume-gate.							
Gate .....	W. R. Snyder .....	690,667	Jan. 7	574	125	98	123
Gate .....	A. J. and W. H. Russell .....	691,409	Jan. 21	1989	446	98	449
Gate .....	A. Clay .....	693,785	Feb. 18	2962	633	98	1454
Gate .....	T. L. Patrick and L. Sprague ..	693,898	Feb. 25	3205	707	98	1532
Gate .....	F. Fusselman .....	695,101	Mar. 11	1410	324	98	237
Gate .....	R. H. Berkstresser .....	695,531	Mar. 18	2235	505	98	2216
Gate .....	P. C. Forrester .....	695,714	Mar. 18	2568	581	98	2283
Gate .....	J. R. Clark .....	696,163	Mar. 25	3452	773	98	2481
Gate .....	J. T. Newdigate .....	696,256	Mar. 25	3628	811	98	2515
Gate .....	E. Graham .....	696,550	Apr. 1	4298	71	99	67
Gate .....	T. A. Hill .....	696,676	Apr. 1	528	132	99	115
Gate .....	W. M. Plaster .....	697,880	Apr. 15	2784	616	99	634
Gate .....	W. H. Kemper .....	698,291	Apr. 22	3569	787	99	805
Gate .....	E. Phillips .....	698,851	Apr. 29	4704	1036	99	1066
Gate .....	H. M. Lockett .....	701,905	June 10	1112	254	99	2356
Gate .....	C. B. Johnson .....	702,366	June 10	1943	442	99	2523
Gate .....	O. B. Jacobs .....	703,130	June 24	3420	785	99	2865
Gate .....	W. A. Byerly .....	703,382	July 1	33	7	100	9
Gate .....	O. B. Jacobs .....	703,423	July 1	103	22	100	23
Gate .....	R. T. Van Valkenburg .....	704,602	July 15	2314	502	100	499
Gate .....	W. Fuller .....	705,395	July 22	3077	861	100	854
Gate .....	G. W. Simons .....	706,263	Aug. 5	510	109	100	1219
Gate .....	T. A. Hill .....	706,413	Aug. 5	838	180	100	1281
Gate .....	H. P. Egedal .....	707,218	Aug. 19	2331	591	100	1639
Gate .....	A. M. Lance .....	707,431	Aug. 19	2728	617	100	1712
Gate .....	W. H. Wright .....	707,668	Aug. 26	3209	720	100	1828
Gate .....	W. D. Ott and F. L. Prebyl ..	706,915	Sept. 9	1702	392 393	100	2343
Gate .....	J. J. Hynding .....	709,153	Sept. 16	2188	501	100	2462
Gate .....	T. A. Hill .....	709,548	Sept. 23	3014	671	101	2647

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Gate	J. Meyer	709,548	Sept. 23	3024	672	101	3649
Gate	I. L. Landis. (Reissue)	12,030	Sept. 30	4611	158	101	2993
Gate	J. Clinton	710,250	Sept. 30	4577	984	101	2944
Gate	E. M. Grosnickle	710,375	Oct. 7	339	73	101	68
Gate	J. Hazen	712,675	Nov. 4	394	92	101	979
Gate	P. R. Reeves	714,030	Nov. 18	3029	673	101	1555
Gate	O. A. Morrow	715,117	Dec. 2	898	192	101	2020
Gate attachment	G. W. Peek	715,289	Dec. 9	1213	300	101	1003
Gate fastener. Wire	J. Edwards	692,996	Feb. 11	1440	313	98	1121
Gate-opener	C. F. Lee	687,501	Apr. 15	2090	464	99	478
Gauntlet	L. Mendelsohn	699,592	May 13	1302	301	99	1456
Gauntlet	G. R. Fortescue	711,844	Oct. 21	2780	616	101	609
Gear. Adjustable speed	J. D. McFarland, Jr.	700,970	May 27	3617	831	99	1969
Gear braking device. Compensating	A. Herschmann	698,494	Apr. 29	3922	867	99	894
Gear. Changeable speed	A. C. Lindgren	714,496	Nov. 25	3935	871	101	1571
Gear. Changeable speed	H. F. Jeffs	715,078	Dec. 2	833	177	101	2006
Gear. Changeable speed	H. F. Jeffs	717,409	Dec. 30	5460	1184	101	3053
Gear. Changeable speed and reversing	T. A. Dicks	702,930	June 24	3020	694	99	2785
Gear. Continuously-variable speed	A. Sharp	692,077	Jan. 28	3236	731	98	722
Gear-cutter	E. G. Ashley	691,738	Jan. 28	2598	584	98	592
Gear-cutting engine	F. L. Eberhardt and H. F. Emme	700,184	May 20	2087	477	99	1638
Gear. Differential and reversing	J. H. Mitchell	698,128	Apr. 22	3271	716	99	741
Gear. Driving	C. M. Leech and S. D. Evans	691,151	Jan. 14	1455	332	98	318
Gear. Driving	C. F. Allen	696,704	Apr. 1	590	189	99	128
Gear. Driving	J. C. Woody, W. R. Danley, and W. H. Young	696,782	Apr. 1	737	167	99	157
Gear. Driving	J. Nutry	708,579	Sept. 9	1036	234	100	2202
Gear. Electromagnetic transmission	H. A. Earle	711,300	Oct. 14	1748	378	101	379
Gear. Elliptic chain driving	W. F. Williams	702,841	June 17	2849	636	99	2734
Gear. Elliptic chain driving	W. F. Williams	702,842	June 17	2850	657	99	2734
Gear for belted machines. Driving	F. Frigerio	691,538	Jan. 21	3211	497	98	495
Gear for machine-tools. Auxiliary reversing	H. E. A. Kindermann	700,296	May 20	2126	487	99	1646
Gear for motor-cars, tools, &c. Variable speed and reversing	J. E. Mennessier	714,504	Nov. 25	3954	876	101	1760
Gear for traction-engines. Drive	D. B. Arnold	705,894	July 29	4957	1078	100	1063
Gear for varying speed and reversing. Driving	W. and G. F. Meischke-Smith	706,580	Aug. 12	1123	240	100	1359
Gear. Friction	E. P. Dawson	701,162	May 27	3974	914	99	2047
Gear. Friction draft	G. P. Ritter	704,110	July 8	1394	300	100	293
Gear-molding apparatus	J. Anderson	698,618	Apr. 29	4182	923	99	946
Gear. Regulating	W. A. P. Werner	712,028	Oct. 28	3167	692	101	707
Gear. Reversing	L. R. Jones	706,667	Aug. 12	1222	285	100	1395
Gear. Reversing	T. Holliday	706,732	Aug. 12	1465	323	100	1432
Gear. Reversing	G. F. Smith	701,634	June 3	648	142	99	2244
Gear. Speed-changing	G. E. McElroy	694,407	Mar. 4	136	30	98	1741
Gear. Speed-changing	E. M. and M. Vrand. H. Vendredy, P. Duitte, and H. Gauthier	696,285	Mar. 25	3673	822	98	2325
Gear. Speed-changing reversing	F. H. Cheyne	714,780	Dec. 2	251	50, 51	101	1888
Gear-teeth. Machine for cutting helicoidal	L. F. A. Monneret	709,235	Sept. 16	2358	535	100	2497
Gear-tooth cutter	O. W. Plant	707,719	Aug. 26	3304	740	100	1847
Gear. Transforming	H. Rose	694,197	Feb. 25	3726	837	98	1637
Gear. Transforming	W. H. Brewster	716,180	Dec. 16	2985	652	101	2492
Gear transmission	J. Suchy	703,318	June 24	3737	861	99	2328
Gear. Transmission	A. T. Bakson	704,699	July 15	2471	533	100	532
Gear. Transmitting	F. H. Lewis	717,225	Dec. 30	5141	1115	101	2987
Gear-tumbler	J. S. Copeland	697,200	Apr. 8	1535	343	99	345
Gear-tumbler	B. M. W. Hanson and F. W. Gordon	703,578	July 1	363	83	100	72
Gear. Variable speed	A. Gray	694,959	Mar. 11	1201	263	98	1983
Gear. Variable speed	F. B. Cockburn	701,543	June 2	966	105	99	2304
Gear. Variable speed	H. F. Northrop	707,936	Aug. 26	3775	847	100	1940
Gear. Variable speed	C. M. Manly	710,485	Oct. 7	155	36	101	34
Gear. Variable speed	J. M. Ough and M. Waddell	716,928	Dec. 30	4540	985	101	2858
Gear. Variable speed	J. M. Ough	716,929	Dec. 30	4541	985	101	2858
Gear. Variable speed	J. M. Ough	716,930	Dec. 30	4542	985	101	2858
Gear. Variable speed and reversing	H. J. Westover	709,690	Sept. 23	3261	731	100	2368
Gear. Variable sprocket	W. D. Wansbrough	712,985	Nov. 4	974	228	101	1036
Gear-wheel	V. D. Wansbrough	707,672	Aug. 26	3214	721	100	1829
Gear-wheel	W. V. Mason, Jr.	711,991	Oct. 28	3102	679	101	694
Gear-wheel. Two-speed	W. D. Wansbrough	709,381	Sept. 16	2660	596	100	2562
Gears. Quick-feed arrangement for	W. T. Emmes	707,599	Aug. 26	3006	676	100	1786
Gearing	A. T. Brown	691,591	Jan. 21	2306	519	98	514
Gearing	L. Jones, Jr.	691,634	Jan. 21	2395	538	98	533
Gearing	H. F. Brown	694,734	Mar. 4	940	164	98	1868
Gearing	L. Jones, Jr.	708,593	July 1	381	88, 89	100	76
Gearing	C. H. Pelton	704,094	July 8	1347	293	100	281
Gearing	W. L. Voss	705,492	July 22	4157	904	100	889
Gearing	J. R. Carter and J. E. Hausfeld	708,315	Sept. 2	587	133	101	2101
Gearing	H. L. Wright	709,287	Sept. 16	2465	556	100	2519
Gearing	J. R. Carter	711,035	Oct. 14	1214	267	101	267
Gearing	J. R. Carter	713,396	Nov. 11	1816	408	101	1286
Gearing and casing therefor. Combined	H. B. Keiper	697,629	Apr. 15	2325	519	99	525



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Pr. & G.	Vol.	Page.
Gearing. Antifriction.....	J. B. Butler.....	715,953	Dec. 16	2558	564 565	101	2461
Gearing. Belt, rope, or chain.....	E. H. Hodgkinson.....	702,948	June 21	3365	705 706	99	2702
Gearing. Change.....	F. W. Gordon.....	698,008	Apr. 22	3026	605	99	692
Gearing. Change-speed.....	O. M. Carman.....	711,937	Oct. 28	2994	658	101	673
Gearing. Changeable-speed.....	V. V. Torbensen.....	695,894	Mar. 18	2900	657 658	98	2353
Gearing. Compensating.....	E. Huber.....	705,583	July 29	4460	955 956	100	953
Gearing. Differential.....	W. G. Caffrey.....	697,801	Apr. 15	2615	586	99	593
Gearing. Differential.....	R. G. Small.....	701,633	June 3	646	141	99	2243
Gearing. Differential.....	C. H. O. Hamann.....	702,793	June 17	3762	635	99	2715
Gearing. For steering or other machines.....	A. A. Whitley.....	714,078	Nov. 18	3131	693	101	1577
Gearing. Friction-wheel.....	G. Voigt.....	704,721	July 13	2598	642	100	540
Gearing. Frictional.....	G. Silvestri.....	690,884	Jan. 7	973	220 221	98	205
Gearing. Frictional.....	W. D. Dailey.....	705,390	July 22	3967	859	100	852
Gearing. Frictional.....	G. W. Stinebring.....	705,714	July 29	4647	1006 1007	100	1000
Gearing. Frictional.....	E. Rawson.....	715,146	Dec. 2	953	205 206	101	2031
Gearing. Multiplying.....	E. Benoit.....	706,794	Aug. 12	1548	847	100	1449
Gearing. Reversible variable-speed.....	G. F. Conner.....	692,120	Jan. 28	3302	748 749	98	734
Gearing. Reversing.....	C. W. Wagner.....	699,596	May 6	887	205 206	99	1358
Gearing. Reversing and variable-speed.....	H. G. Underwood.....	696,849	Apr. 1	851	196	99	180
Gearing. Speed-changing friction.....	O. Marth.....	705,108	July 22	3347	726	100	727
Gearing. Transmission.....	J. L. Wolfe.....	714,083	Nov. 18	3149	695	101	1578
Gearing. Variable-speed.....	C. Upton.....	691,508	Jan. 21	2163	484 485	98	486
Gearing. Variable-speed.....	L. E. Krotz.....	697,410	Apr. 8	1924	428	99	428
Gearing. Variable-speed.....	S. de Ploeg.....	700,981	May 27	3635	835	99	1973
Gearing. Variable-speed.....	F. W. Gordon.....	701,876	June 10	1059	239 240	99	2345
Gearing. Variable-speed.....	L. T. Weiss.....	703,629	July 1	455	105	100	89
Gearing. Variable-speed.....	C. Stone.....	706,611	Aug. 12	1185	263	100	1371
Gearing. Variable-speed.....	G. E. McElroy.....	710,500	Oct. 7	190	41	101	40
Gearing. Variable-speed friction.....	E. P. Cowles.....	703,237	June 24	3618	832	99	2904
Gelatin-yieldable liquids. Obtaining.....	E. R. Edson.....	703,240	June 24	3623	833	99	2905
Gem-cutting machine.....	G. Purper, J. Moser, and R. Boeklen.....	706,597	Aug. 12	1161	257 258	100	1366
Gem grinding and polishing apparatus.....	F. E. Hilliard.....	701,879	June 10	1064	239 240	99	2346
Gem-setting.....	R. S. Bieber.....	706,379	Aug. 5	751	105	100	1267
Genealogical chain record.....	P. W. Gee.....	705,893	July 29	4818	1053	100	1041
Generator: See Adjusting compound-wound generator. Ammonia-generator. Electric generator. Electric-spark generator. Electrochemical generator. Electromechanical generator. Generator or mixing valve.....	Gas-generator. Heat-generator. Magneto-electric generator. Motor-generator. Oil-fuel generator. Pressure-generator. Steam-generator. Thermo-electric generator. Vapor-generator.						
Generators or motors. Compensation of.....	F. B. Widmayer, M. E. Toepel, and A. Poddevin.....	714,982	Dec. 2	672	141	101	1970
Generators or motors. Means for compensating.....	F. G. Baum.....	698,244	Apr. 22	3491	768	99	789
Gib-and-key device.....	F. G. Baum.....	698,245	Apr. 22	3492	768	99	789
Gin.....	C. B. Post.....	709,510	Sept. 23	2954	659	100	2635
Gin-saw-filing machine.....	E. Rückgauer.....	714,037	Nov. 18	3057	678	101	1562
Girth.....	A. Fredrickson.....	715,653	Dec. 9	1891	422 423	101	2239
Girth fastening. Saddle.....	R. L. Owens.....	696,259	Mar. 25	3632	812 813	98	2516
Glass: See Binocular glass. Magnifying-glass. Mixing-glass. Glass and making same. Art. Glass-annealing apparatus. Plate. Glass-annealing leer. Plate. Glass. Apparatus for delivering melted. Glass articles. Apparatus for finishing. Glass articles. Apparatus for forming. Glass, &c. Apparatus for the manufacture of. Glass articles. Apparatus for the manufacture of hollow. Glass articles. Apparatus for the manufacture of molded hollow. Glass articles. Making hollow. Glass articles. Manufacture of hollow. Glass-blowing machine. Glass-blowing machine. Glass-blowing machine.....	Opera-glass. Prism-glass.						
Glass-annealing apparatus. Plate.....	G. E. Corner.....	696,392	Mar. 25	3998	872	98	2579
Glass-annealing leer. Plate.....	H. L. Dixon.....	707,831	Aug. 26	3585	849	100	1962
Glass. Apparatus for delivering melted.....	W. D. Keyes.....	700,427	May 20	2570	591	99	1737
Glass articles. Apparatus for finishing.....	C. W. Foster.....	691,371	Jan. 21	1924	432	98	434
Glass articles. Apparatus for forming.....	G. W. Blair.....	713,280	Nov. 11	1591	359 360	101	1238
Glass, &c. Apparatus for the manufacture of.....	J. A. Arnold.....	705,813	July 29	4813	1045 1046	100	1034
Glass articles. Apparatus for the manufacture of hollow.....	J. Lühne.....	698,980	Apr. 29	4920	1087	99	1111
Glass articles. Apparatus for the manufacture of hollow.....	W. Buttler. (Reissue).....	12,049	Oct. 28	3985	870	101	874
Glass articles. Apparatus for the manufacture of molded hollow.....	P. T. Sievert.....	704,488	July 8	2102	455	100	441
Glass articles. Making hollow.....	P. C. Ripley.....	709,796	Sept. 23	3477	783	100	2742
Glass articles. Manufacture of hollow.....	P. T. Sievert.....	694,682	Mar. 4	672	117	98	1854
Glass-blowing machine.....	E. B. Ball.....	692,113	Feb. 11	1063	238	98	1041
Glass-blowing machine.....	H. J. Colburn.....	698,817	Apr. 29	4613	1017 1018	99	1046
Glass-blowing machine.....	L. H. Colburn.....	698,818	Apr. 29	4616	1018 1019	99	1047

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. G.	Vol.	Page.
Glass-blowing machine	O. E. Walton	703,323	June 24	3746	863	99	2930
Glass-blowing machine	C. J. Koenig	703,599	July 1	3992	91 92 93	100	78
Glass-blowing machine	W. H. Terlinde	711,800	Oct. 21	2700	595 596 597	101	503
Glass bodies. Producing hollow	P. T. Sievert	703,618	July 1	433	101	100	85
Glass-bottle-making machine	C. Leistner	704,055	July 8	1264	273 274	100	205
Glass bottles. Finishing-mold for making	L. Grote	691,463	Jan. 21	2085	467	98	469
Glass bottles. Machine for making	L. Grote	700,191	May 20	2100	480 481	99	1640
Glass by electrical heating. Manufacture of	A. Voelker	702,081	June 10	1454	131	99	2425
Glass by means of electricity. Manufacture of	J. Brown	708,309	Sept. 2	580	1172	100	2499
Glass by stretching. Apparatus for the manufacture of plate	E. Fourcault	717,378	Dec. 30	5393	1172 1173	101	3041
Glass. Chipping	J. L. Dawes and W. F. Hull	693,243	Feb. 11	1052	98	1226	
Glass. Composition for ruby	R. Zsigmondy	703,512	July 1	249	100	50	
Glass-cutter	W. L. Barrett	702,277	June 10	1781	407	99	2492
Glass cutter and marker	H. L. Notter	717,259	Dec. 30	5194	1127	101	2998
Glass-cutter. Circular	D. B. Johnson	702,732	June 17	2645	101	99	2691
Glass-cutter's board	A. T. Whitehouse	714,545	Nov. 25	4032	892	101	1777
Glass-cutting device	W. Pannkoek	715,288	Dec. 9	1212	260	101	2103
Glass, &c. Decorating	H. L. von Bonhorst	690,889	Jan. 7	984	98	207	
Glass-delivering apparatus	W. D. Keyes	695,156	Mar. 11	1577	350	98	2063
Glass-delivering apparatus	W. D. Keyes	700,428	May 20	2580	591	99	1737
Glass, &c. Dipping ceramic	S. H. Ellis and T. Holt	713,621	Nov. 18	2259	502 503	101	1302
Glass, &c. Dipping ceramic	S. H. Ellis and T. Holt	714,104	Nov. 18	3181	158	101	1588
Glass. Drawing	J. H. Lubbers	702,014	June 10	1312	299 300	99	2395
Glass. Drawing	J. H. Lubbers	702,016	June 10	1316	301	99	2396
Glass-drawing apparatus	J. H. Lubbers	702,013	June 10	1308	299	99	2394
Glass-drawing apparatus	J. H. Lubbers	702,015	June 10	1315	300	99	2395
Glass-drawing apparatus	J. H. Lubbers	702,017	June 10	1318	301 302	99	2396
Glass, &c. Electric furnace for making	J. Lühne	698,981	Apr. 29	4921	1088	99	1111
Glass-finishing machine	L. T. Zimmerly	707,045	Aug. 12	1988	446	100	1539
Glass flattening and annealing apparatus	J. A. Anderson and C. M. Hollingsworth	694,711	Mar. 4	715	157 158	98	1863
Glass for making prismatic windows. Making sheets or panes of prismatic	G. K. Cummings	695,283	Mar. 11	1812	402	98	2110
Glass. Framing	J. Taluau	704,400	July 8	1928	417	100	406
Glass. Framing	J. Taluau	704,401	July 8	1931	418	100	407
Glass, &c. Framing	H. W. Scattergood	709,513	Sept. 23	2962	661	100	2637
Glass-furnace	J. P. Putallaz	699,972	May 13	1642	376 377	99	1526
Glass-furnace. Electric	A. Voelker	706,283	Aug. 5	567	122 123	100	1230
Glass-gathering machine	D. C. Ripley	697,886	Apr. 15	2793	618	99	626
Glass-glazing apparatus	T. Coleman, Jr., and C. Runyon	702,633	June 17	2466	565	99	2653
Glass grinding and polishing machine	W. Lahodny	709,020	Sept. 16	1930	443 444 445	100	2405
Glass-grinding machine	W. Lahodny	709,019	Sept. 16	1927	443	100	2405
Glass-grinding machine	W. McLaughlin	711,067	Oct. 14	1292	279	101	281
Glass grinding, smoothing, and polishing apparatus. Plate	E. Bagnall	710,981	Dec. 30	4651	1008 1009	101	2381
Glass. Hydraulic apparatus for the manufacture of window	F. Giannotte	713,758	Nov. 18	2509	558	101	1447
Glass in shapes. Means for pressing, perforating, and cutting	A. J. Nash	696,254	Mar. 25	3624	810	98	2515
Glass-ladle	E. N. Baldwin and I. M. Schellinger	708,113	Sept. 2	209	50	100	2025
Glass-leer	D. J. Ghrist and J. P. Groschen	716,405	Dec. 23	3421	746 747	101	2505
Glass. Leer for annealing plate	J. W. Cruikshank	717,172	Dec. 30	5050	1094	101	2967
Glass. Machine for making prismatic	G. K. Cummings	695,281	Mar. 11	1806	401	98	2109
Glass. Machine for making prismatic	G. K. Cummings	695,282	Mar. 11	1809	402	98	2109
Glass-making furnace	E. Gobbe	698,932	Apr. 29	4841	1068 1069	99	1094
Glass-making machine	H. Gollings	706,550	Aug. 12	1078	238	100	1349
Glass. Manufacture of window and plate	W. E. Heal	710,337	Sept. 30	4555	1028	100	2982
Glass. Manufacturing	A. Voelker	698,766	Apr. 29	4493	969	99	1017
Glass-melting and mold-charging apparatus	H. H. Bridgwater and J. Haley	714,558	Nov. 25	4054	897 898	101	1782
Glass-melting machine	J. C. Triance	709,727	Sept. 23	3324	748	100	2711
Glass-mold-locking device	A. Strub	692,038	Jan. 28	3156	713	98	705
Glass or porcelain plates or slabs. Manufacturing	L. Stein and W. Storr	713,710	Nov. 18	2417	539	101	1425
Glass panes. Strip for securing	J. Swannell	710,025	Sept. 30	3939	889	100	2851
Glass-plate-making machine	L. Appert	710,032	Sept. 30	3949	891	100	2853
Glass-polishing machine	W. Lahodny	696,455	Apr. 1	111	26, 27	99	29
Glass-pot furnace	H. L. Dixou	691,250	Jan. 14	1637	373	98	356
Glass-press	P. Ebeling	708,326	Sept. 2	606	187 188	100	2195
Glass-presses, &c. Stroke-regulating mechanism for	P. Ebeling	708,469	Sept. 2	843	192 193	100	2152
Glass refining and delivering apparatus	W. D. Keyes	696,738	Apr. 1	651	146 147	99	139
Glass-rinsing device	H. G. Sweeney	708,844	Sept. 9	1567	358	100	2314
Glass. Roller for rolling and ornamenting sheet or plate	L. Appert	697,229	Apr. 8	1582	354	99	355
Glass-shaping apparatus	D. C. Ripley	709,724	Sept. 23	3319	746	100	2710



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Glass-silvering trough .....	C. Laval .....	709,336	Sept. 16	2557	575	100	2540
Glass-tank .....	L. Houze .....	704,040	July 8	1240	267	100	261
Glass-tile press .....	C. P. Lawshe .....	713,317	Nov. 11	1668	375	101	1254
Glass tiles and sheets. Manufacture of .....	W. T. Nicholls .....	716,086	Dec. 16	2779	613	101	2449
Glass to molds. Mechanism for feeding .....	T. Coleman, Jr. ....	702,634	June 17	2467	566	99	2653
Glass tombstones, &c. Manufacturing .....	J. Q. Shaffer .....	706,963	Aug. 12	135	375	100	1476
Glass window or similar object and making same. Stained- .....	J. Taluau .....	704,399	July 8	1927	417	100	403
Glass-working machine .....	I. W. Colburn .....	696,007	Mar. 25	3106	703 704	98	2407
Glass-working machine .....	I. W. Colburn .....	696,008	Mar. 25	3115	704 705	98	2410
Glass-working machine .....	F. R. McBerty .....	696,467	Apr. 1	135	93	90	34
Glass-working machine .....	I. W. Colburn .....	711,287	Oct. 14	1717	371 372	101	371
Glasses. Lens-fastening for .....	H. H. Waugh .....	702,385	June 10	1975	451	99	2531
Glasses, tumblers, &c. Device for rinsing and wash- ing .....	E. Witte .....	717,061	Dec. 30	4803	1041 1042	101	2914
Glassware. Apparatus for fire-finishing .....	H. Schaub .....	696,500	Apr. 1	186	45	99	44
Glassware. Apparatus for the manufacture of .....	H. Schaub .....	704,761	July 15	2588	559	100	555
Glassware. Apparatus for the manufacture of .....	D. C. Ripley .....	709,797	Sept. 23	3478	783 784	100	2742
Glassware-finishing machine .....	W. R. McCloy .....	697,521	Apr. 15	2129	473	99	486
Glassware-finishing snap .....	F. R. Gillingder and K. Booth .....	704,790	July 15	2639	571	100	566
Glassware-forming machine .....	J. Haley and H. H. Bridgwater .....	693,130	Feb. 11	1699	371 372	98	1174
Glassware. Machine for making hollow .....	G. C. Pyle .....	714,396	Nov. 25	3760	830 831	101	1723
Glassware. Manufacture of .....	H. Schaub .....	704,760	July 15	2587	559	100	555
Glassware. Manufacture of handled .....	H. Bastow .....	695,782	Mar. 18	2694	612	98	2310
Glassware. Manufacturing hollow .....	J. L. C. V., F. J., P. R., and F. L. Arbogast .....	699,058	Apr. 29	5050	1117	99	1138
Glassware. Plant for the manufacture of .....	R. M. Paxton .....	708,917	Sept. 9	1705	393 394	100	2343
Glazed structure .....	J. H. Steffey .....	707,175	Aug. 19	2254	504	100	1613
Glazier's point .....	T. N. Parker .....	714,516	Nov. 25	3976	881	101	1764
Glazier's tool .....	G. W. Hamilton .....	693,518	Feb. 18	2462	540	98	1353
Glazing-bar .....	D. J. Jarvis, J. W. Wadkin, and T. S. King .....	690,732	Jan. 7	730	159	98	151
Glazing-machine. Automatic .....	B. C. Hemming .....	702,098	June 10	1479	333	99	2480
Glazing system .....	A. M. Whipple .....	697,583	Apr. 15	2228	497 498	90	505
Globe-holder .....	G. Gray .....	690,419	Jan. 7	55	13	98	15
Globe-holder .....	E. L. Wheeler .....	712,368	Oct. 28	3170	632	101	708
Globe-supporting bracket .....	V. Lansing .....	713,358	Nov. 11	1911	432	101	1306
Glove .....	O. R. Baird .....	692,324	Feb. 4	2	1	98	799
Glove .....	H. H. Steele .....	695,586	Mar. 18	2355	534	98	2342
Glove .....	E. Leblanc .....	704,551	July 15	2232	483	100	482
Glove .....	M. E. Rollason .....	704,579	July 15	2277	494	100	491
Glove .....	S. M. Griffiths .....	704,961	July 15	3046	653 654	100	651
Glove .....	R. N. Carson .....	706,724	Aug. 12	1389	309	100	1416
Glove .....	J. Comrie .....	706,725	Aug. 12	1391	309 310	100	1417
Glove .....	J. C. Allen .....	707,069	Aug. 19	2048	457	100	1569
Glove .....	D. F. Morgan .....	708,160	Sept. 2	298	71	100	2043
Glove .....	R. N. Carson .....	709,595	Sept. 23	3102	691	100	2666
Glove and necktie holder for boxes .....	J. L. Reiner .....	712,365	Nov. 4	949	220	101	1691
Glove. Boxing .....	J. Gamble .....	705,915	July 29	5001	1088	100	1072
Glove-case .....	N. Fancher .....	690,937	Jan. 14	1073	241	98	240
Glove cleaner and making same. Kid- .....	H. Gottschalk .....	682,010	Jan. 28	3102	697	98	695
Glove-fastener .....	W. B. Murphy .....	691,653	Jan. 21	2425	545	98	540
Glove-fastener .....	W. B. Murphy .....	691,709	Jan. 21	2527	569	98	561
Glove, &c. fastener .....	J. V. Washburne .....	714,072	Nov. 16	3121	694	101	1575
Gloves, &c. Fastener for .....	W. P. Veirine .....	691,391	Jan. 14	1272	403	98	38
Gloves, &c. Fastener for .....	J. L. Dinkelspiel .....	715,645	Dec. 9	1871	410	101	2285
Glove-fastening .....	W. B. Murphy .....	697,569	Apr. 15	2767	613	99	620
Gloves, &c. Fastening device for .....	J. D. Stirkler .....	711,594	Oct. 21	2306	504	101	509
Glue-tank .....	O. D. Wetmore .....	699,268	May 6	257	59	99	1226
Gluing-machine .....	G. W. Fassett and R. A. Whittier .....	690,847	Jan. 7	911	204 205	98	193
Gluing-machine .....	J. Brown .....	698,791	Apr. 29	4532	1003	99	1025
Gluing-machine .....	W. F. Epperson .....	707,319	Aug. 19	2332	521	100	1630
Gluten. Manufacturing .....	L. A. Morel .....	698,534	Apr. 29	3996	883	99	909
Gluten tailings. Utilizing .....	E. Gudeman .....	695,720	Mar. 18	2577	98	98	2285
Glycerin-refining apparatus .....	H. B. Schmidt and O. T. Joslin .....	705,712	July 29	4642	1005	100	998
Glycolic menthyl ester .....	F. Hofmann and J. Callen .....	707,110	Aug. 19	2129	473	100	1586
Glycosuria antidote and producing same .....	F. Bhun .....	705,038	July 29	4464	1001	101	1669
Go-cart .....	D. B. Collier .....	712,651	Nov. 4	358	82	101	972
Go-cart. Folding .....	A. M. McLellan .....	711,583	Oct. 21	2276	491	101	503
Gold and silver from their solutions. Apparatus for precipitating .....	A. James .....	705,589	July 29	4410	956	100	953
Gold and silver ores. Treatment of .....	S. Trivick .....	706,365	Aug. 5	713	100	100	1261
Gold and sulfurets. Saving fine .....	F. M. Graham .....	711,047	Oct. 14	1246	272	101	272
Gold-bearing material. Concentrator for .....	G. G. Sale .....	694,190	Feb. 25	3780	838	98	1038
Gold-dredge .....	T. B. Lee .....	696,576	Apr. 1	329	77	99	73
Gold-dredgers. Auxiliary cutter for .....	R. H. Postlethwaite .....	696,078	Mar. 25	3249	735	98	2437
Gold from refractory ores. Recovering .....	H. R. Cassel .....	694,340	Mar. 4	16	4	98	1716
Gold, &c. Machine for separating .....	W. J. Barron .....	710,738	Oct. 7	649	135	101	132
Gold. Manufacture of colloidal .....	C. Paal .....	701,605	June 3	587	90	99	2231
Gold or silver ores. Apparatus for treating pulver- ized .....	D. C. Boley .....	709,593	Sept. 23	3097	690	100	2665
Gold ores. Treating telluride .....	W. Pethybridge .....	709,038	Sept. 16	1968	100	100	2413

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Gold ores. Treatment of telluride	W. Pethybridge	709,087	Sept. 16	1967	.....	100	2418
Gold-saving device. Submarine.	L. D. Craig	698,105	Apr. 22	3215	704	99	731
Gold-saving machine	C. Ramos	704,372	July 8	1883	408	100	397
Gold-separating machine	B. W. Sweet	690,791	Jan. 7	820	181	98	173
Gold-separator	A. L. Dana	694,255	Feb. 25	3888	861	98	1657
Gold-separator	R. C. Lester	699,885	May 13	1485	341	99	196
Gold-separator	C. W. Gardner	702,643	June 17	2487	570	99	2657
Gold-separator	C. W. M. Hickey	710,690	Oct. 7	558	117	101	114
Gold-separator distributor	F. M. Johnson	718,105	Nov. 11	1217	279	101	1164
Gold, silver, or other ores. Cyanid process of work-	R. H. Postlethwaite	697,748	Apr. 15	2542	561	99	569
ing	R. H. Officer, J. W. Neill, J. H. Bur-	705,698	July 29	4611	1000	100	998
Golf-bag	feind, and F. H. Officer.						
Golf-ball	R. W. Owen	693,432	Feb. 18	2901	508	98	1319
Golf-ball	E. Kempshall	695,866	Mar. 18	2845	646	98	2841
Golf-ball	F. H. Richards	696,353	Mar. 25	3835	854	98	2559
Golf-ball	E. Kempshall	696,365	Mar. 25	3876	861	98	2565
Golf-ball	E. Kempshall	696,366	Mar. 25	3878	861	98	2565
Golf-ball	E. Kempshall	696,367	Mar. 25	3880	862	98	2566
Golf-ball	E. Kempshall	696,369	Mar. 25	3884	862	98	2566
Golf-ball	E. Kempshall	696,887	Apr. 1	946	214	99	199
Golf-ball	E. Kempshall	696,889	Apr. 1	951	215	99	200
Golf-ball	E. Kempshall	696,890	Apr. 1	953	215	99	201
Golf-ball	E. Kempshall	696,891	Apr. 1	955	215	99	201
Golf-ball	E. Kempshall	696,892	Apr. 1	958	215	99	202
Golf-ball	E. Kempshall	696,893	Apr. 1	960	216	99	202
Golf-ball	E. Kempshall	696,894	Apr. 1	963	216	99	203
Golf-ball	E. Kempshall	696,895	Apr. 1	966	216	99	204
Golf-ball	E. Kempshall	697,417	Apr. 8	1936	431	99	431
Golf-ball	E. Kempshall	697,418	Apr. 8	1937	431	99	431
Golf-ball	E. Kempshall	697,419	Apr. 8	1939	431	99	431
Golf-ball	E. Kempshall	697,420	Apr. 8	1942	432	99	431
Golf-ball	E. Kempshall	697,421	Apr. 8	1945	432	99	432
Golf-ball	E. Kempshall	697,422	Apr. 8	1947	432	99	432
Golf-ball	E. Kempshall	697,424	Apr. 8	1953	433	99	433
Golf-ball	C. Davis	697,816	Apr. 15	2667	502	99	598
Golf-ball	E. Kempshall	697,918	Apr. 15	2841	629	99	635
Golf-ball	E. Kempshall	697,919	Apr. 15	2843	629	99	635
Golf-ball	E. Kempshall	697,920	Apr. 15	2844	629	99	635
Golf-ball	E. Kempshall	697,921	Apr. 15	2846	630	99	636
Golf-ball	E. Kempshall	697,922	Apr. 15	2848	630	99	636
Golf-ball	E. Kempshall	697,923	Apr. 15	2849	630	99	636
Golf-ball	E. Kempshall	697,924	Apr. 15	2851	630	99	636
Golf-ball	F. H. Richards	697,926	Apr. 15	2855	631	99	637
Golf-ball	F. H. Richards	697,927	Apr. 15	2855	631	99	637
Golf-ball	E. Kempshall	698,024	Apr. 22	3048	670	99	696
Golf-ball	E. Kempshall	698,401	Apr. 22	3750	828	99	843
Golf-ball	E. Kempshall	698,402	Apr. 22	3751	828	99	843
Golf-ball	E. Kempshall	698,512	Apr. 29	3950	873	99	890
Golf-ball	E. Kempshall	698,513	Apr. 29	3951	873	99	900
Golf-ball	E. Kempshall	698,514	Apr. 29	3952	874	99	900
Golf-ball	E. Kempshall	698,515	Apr. 29	3954	874	99	900
Golf-ball	E. Kempshall	699,090	Apr. 29	5096	1127	99	1142
Golf-ball	E. Kempshall	699,093	Apr. 29	5102	1128	99	1147
Golf-ball	E. Kempshall	699,876	May 13	1466	330	99	1498
Golf-ball	E. Kempshall	700,144	May 13	1982	465	99	1593
Golf-ball	E. Kempshall	700,660	May 20	2995	686	99	1825
Golf-ball	E. Kempshall	700,943	May 27	3575	822	99	1961
Golf-ball	E. Kempshall	700,945	May 27	3578	823	99	1962
Golf-ball	F. H. Richards	701,617	June 3	601	132	99	2234
Golf-ball	E. Kempshall	701,736	June 3	826	182	99	2280
Golf-ball	E. Kempshall	701,737	June 3	827	182	99	2281
Golf-ball	E. Kempshall	701,738	June 3	828	182	99	2281
Golf-ball	E. Kempshall	701,739	June 3	829	183	99	2281
Golf-ball	E. Kempshall	701,740	June 3	830	183	99	2281
Golf-ball	E. Kempshall	701,741	June 3	831	183	99	2282
Golf-ball	F. H. Richards	701,765	June 3	869	193	99	2290
Golf-ball	F. H. Richards	701,766	June 3	870	193	99	2290
Golf-ball	F. H. Richards	708,000	June 24	3167	728	99	2815
Golf-ball	C. Davis	708,329	June 24	3622	833	99	2905
Golf-ball	E. Kempshall	705,766	July 29	4735	1025	100	1017
Golf-ball	E. Kempshall	706,758	Aug. 12	1477	328	100	1435
Golf-ball	A. T. Saunders	707,263	Aug. 19	2403	530	100	1644
Golf-ball	R. B. Cavanagh	710,750	Oct. 7	676	141	101	137
Golf-ball	R. B. Cavanagh	710,751	Oct. 7	677	141	101	138
Golf-ball	R. B. Cavanagh	710,752	Oct. 7	679	142	101	138
Golf-ball	R. B. Cavanagh	710,753	Oct. 7	679	142	101	138
Golf-ball	R. B. Cavanagh	710,754	Oct. 7	680	142	101	139
Golf-ball	R. B. Cavanagh	710,755	Oct. 7	681	142	101	139
Golf-ball	F. H. Richards	712,411	Oct. 28	3858	845	101	849
Golf-ball	F. H. Richards	712,413	Oct. 28	3860	846	101	849
Golf-ball	A. R. Spear	712,610	Nov. 4	285	68	101	958
Golf-ball	A. R. Spear	712,611	Nov. 4	286	68	101	958
Golf-ball	E. Kempshall	713,769	Nov. 13	2530	563	101	1451
Golf-ball	E. Kempshall	716,245	Dec. 16	3112	681	101	2517
Golf-ball	E. Schultz	716,290	Dec. 16	3178	696	101	2530
Golf-ball	E. Schultz	716,291	Dec. 16	3179	696	101	2530
Golf-ball	L. M. Selzer	716,945	Dec. 30	4564	991	101	2863
Golf-ball pocket.	R. T. Crane	715,759	Dec. 16	2110	472	101	2906
Golf-balls, &c. Composition of matter for the man-	C. O. Watkins	715,186	Dec. 2	1026	173	101	2046
ufacture of							
Golf-balls. Making	E. Kempshall	696,888	Apr. 1	948	214	99	200
Golf-balls. Making	E. Kempshall	713,771	Nov. 13	2532	563	101	1451
Golf-balls. Manufacture of	E. Kempshall	695,813	Mar. 15	2751	627	98	2321
Golf-balls. Manufacture of	F. H. Richards	696,354	Mar. 25	3841	854	98	2560



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. E.	Vol.	Page.
Golf-balls. Manufacture of	E. Kempshall.	696,368	Mar. 25	3882	862	98	2506
Golf-balls. Manufacture of	E. Kempshall.	696,886	Apr. 1	3443	214	99	199
Golf-balls. Manufacture of	E. Kempshall.	697,423	Apr. 8	1949	432	99	432
Golf-balls. Manufacture of	E. Kempshall.	697,425	Apr. 8	1953	434	99	434
Golf-balls. Manufacture of	E. Kempshall.	697,917	Apr. 15	2830	629	99	635
Golf-balls. Manufacture of	E. Kempshall.	698,623	May 6	940	217	99	1309
Golf-balls, &c. Manufacture of	F. H. Richards.	699,632	May 6	954	220	99	1371
Golf-balls. Manufacture of	F. H. Richards.	700,154	May 13	2003	450	99	1597
Golf-balls. Manufacture of	F. H. Richards.	700,155	May 13	2005	450	99	1598
Golf-balls. Manufacture of	E. Kempshall.	700,755	May 20	2905	685	99	1823
Golf-balls. Manufacture of	E. Kempshall.	697,427	May 20	2908	685	99	1824
Golf-balls. Manufacture of	J. P. Cochrane.	703,896	July 1	970		100	194
Golf-balls. Manufacture of	E. Kempshall.	704,462	July 8	2047	444	100	431
Golf-balls. Manufacturing.	E. Kempshall.	699,087	Apr. 29	5890	1127	99	1146
Golf-balls. Manufacturing.	E. Kempshall.	699,088	Apr. 29	5992	1127	99	1147
Golf-club	H. B. Febiger.	690,940	Jan. 14	1076	242	98	244
Golf-club	W. M. Ransom.	700,946	Jan. 14	1192	270	98	241
Golf-club	C. E. Farnelle.	695,379	Mar. 18	2244	331	98	239
Golf-club	W. Robertson.	697,542	Apr. 15	2163	481	99	492
Golf-club	E. Kempshall.	699,624	May 6	942	218	99	1309
Golf-club	W. Mules.	708,575	Sept. 9	1022	233	100	2201
Golf-club	B. A. Joule.	712,883	Oct. 28	3900	832	101	838
Golf-club	H. K. Whitner.	715,225	Dec. 2	1102	235	101	2063
Golf-club facing	E. Kempshall.	700,946	May 27	3579	823	99	1602
Golf-club holder	W. H. Johnson.	699,391	June 10	1351	296	99	1280
Golf game, Indoor.	H. H. Taylor.	713,253	Nov. 11	1508	341	101	1221
Golf-practice apparatus	A. B. Smith.	702,828	June 17	2826	650	99	2729
Golf-register	W. D. Rennie and S. G. Van Der-beek.	692,906	Feb. 11	1253	278	98	1082
Golf-stick	F. L. Slazenger.	697,179	Apr. 8	1493	334	99	337
Golf-stick	W. Braid and D. Ogilvie.	713,845	Nov. 16	2669	594	101	1478
Golf-tee	C. B. Stocker, Jr.	702,004	June 10	1351	296	99	1280
Golf-tees. Mold for forming	O. A. Holbrook.	714,906	Dec. 2	539	115	101	1943
Gong	A. F. Kleinschmidt.	692,149	Jan. 28	3356	760	98	746
Gong Electric	J. A. Wotton.	692,579	Feb. 4	631	149	98	928
Gopher trap. Pocket.	J. J. Daniels.	703,556	July 1	325	73	100	66
Governing and valve-operating mechanism for gas or vapor engines.	E. H. Kormsmeier.	708,485	Sept. 2	872	198	100	2158
Governing device for engines, &c.	J. and H. McLaren.	692,893	Feb. 11	1231	272	98	1078
Governor	J. N. McNeal.	692,330	Feb. 4	199	47	98	840
Governor	R. Conrad.	699,865	May 13	1431	331	99	1183
Governor	E. J. Armstrong.	700,004	May 13	1094	389	99	1536
Governor	E. P. Coleman.	712,498	Nov. 4	60	16	101	910
Governor	M. J. Hewlett.	712,534	Nov. 4	141	35	101	927
Governor.	J. A. Lighthipe	713,463	Nov. 11	1920	454	101	1308
Governor	H. J. Bouvier.	715,961	Dec. 16	2528	558	101	2376
Governor adjuster. Centrifugal.	J. E. McIntosh and J. A. Seymour.	707,792	Aug. 26	3490	789	100	1886
Governor. Automatic cut-off	G. Strong.	699,771	May 13	1230	288	99	1442
Governor. Automatic pressure.	J. W. Neil.	696,471	Apr. 1	143	34	99	35
Governor. Engine.	J. F. O'Neil.	701,702	June 3	803	191	99	2288
Governor. Engine.	H. C. Strang.	709,059	Sept. 16	2008	457	100	2422
Governor for explosive engines	H. H. and C. B. Segner.	717,508	Dec. 30	5693	1233	101	3088
Governor for fluid-compressors. Automatic	J. P. Fillingham.	707,687	Aug. 26	3241	727	100	1834
Governor for power-engines. Automatic	J. H. Cook.	710,761	Oct. 7	699	147	101	113
Governor. Gas-engine	A. Sonander.	692,083	Jan. 28	3251	734	98	724
Governor. Marine	L. Wilson.	712,884	Nov. 4	784	182	101	1058
Governor. Marine-engine	B. W. Storey.	697,899	Apr. 15	2800	621	99	620
Governor. Marine-engine	J. Levey and T. Sadler.	701,060	May 27	3792	869	99	2008
Governor. Marine-engine	M. F. Volkman.	707,038	Aug. 12	1975	443	100	1536
Governor. Pressure.	A. Roesch.	717,122	Dec. 30	4906	1063	101	2385
Governor. Speed.	H. H. Nightingale.	715,842	Dec. 16	2383	509	101	2344
Governor. Speed-controlling	H. N. Hutsinger.	710,507	Oct. 7	587	81	99	777
Governor. Steam-engine	J. B. Allfree.	696,918	Apr. 8	1015	226	99	226
Governor. Steam-engine.	R. J. Patterson.	704,486	July 8	2098	455	100	441
Governor. Steam-engine.	R. J. Patterson.	709,795	Sept. 23	3473	782	100	2741
Governor-stop. Automatic	W. G. Kachel.	715,481	Dec. 9	1578	342	101	2176
Governor. Variable-speed	W. J. Still.	700,748	May 27	3406	782	99	1928
Governor. Variable-speed	C. A. Huffmaster.	707,897	Aug. 26	3306	730	100	1840
Governors. High or low pressure metallic diaphragm attachment for	H. F. Smith.	714,048	Nov. 18	3078	681	101	1566
Grab and scraper. Combined	W. A. H. Zander.	708,609	Sept. 9	1093	246	100	2213
Grab-hook	D. H. Langan.	696,873	Apr. 1	890	207	99	190
Grab-hook.	J. Perdue.	712,151	Oct. 28	3405	745	101	752
Grader	J. Bazley.	695,781	Mar. 18	2038	612	98	2309
Grader	S. O. Hays.	694,903	Mar. 11	1200	264	98	1985
Grader and scraper. Combined road	W. S. Osborne and E. C. Bryant.	710,603	Oct. 7	393	83	101	79
Grader. Pneumatic	B. Strome.	698,581	Apr. 29	4060	890	99	924
Grader. Road.	J. H. Aldrich.	703,977	July 8	1125	241	100	239
Grader. Road.	J. W. Macy.	714,723	Dec. 2	139	27	101	1506
Grader, scraper, and weeder. Road	C. Henderson.	700,923	May 27	3539	812	99	1954
Grading and ditching machine	W. H. Morenus.	690,451	Jan. 7	125	26	98	28
Grading and excavating machine	W. H. Morenus.	709,921	Sept. 30	3738	843	100	2809
Grading and scraping machine. Road	W. S. Paget.	714,325	Nov. 25	3640	802	101	1699
Grading-machine	T. R. McKnight.	694,661	Mar. 4	621	134	98	1844
Grading-machine. Electric road.	J. W. Langfitt.	706,671	Aug. 12	1302	287	100	1397
Grading machine. Road.	R. E. Burke.	706,882	Aug. 5	760	166	100	1268
Grafting	J. B. Burrell.	713,949	Nov. 18	2884	641	101	1524

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Grafting apparatus	J. B. Burrell	713,950	Nov. 18	2886	642	101	1524
Grafting implement	D. A. Manuel	690,865	Jan. 7	940	210	98	197
Grain, &c. Apparatus for drying.	M. König	705,849	July 29	4879	1061	100	1048
Grain, &c. Apparatus for drying, cooling, or otherwise treating	G. H. Hess, Jr.	707,323	Aug. 19	2529	569	100	1670
Grain. Apparatus for malting, drying, or otherwise treating	J. Sleeman	706,462	Aug. 5	929	570	100	1303
Grain-bin. Steel.	J. N. Ballou and J. J. Shirley	699,439	May 6	599	202	99	1299
Grain-binder	H. B. Sperry	690,477	Jan. 7	193	136	98	42
Grain-binder	J. W. Fridmore	697,750	Apr. 15	2547	39	99	570
Grain-binder	J. L. Ware	702,335	June 10	1832	567	99	2510
Grain-binder	E. A. Johnston	710,781	Oct. 7	744	429	101	152
Grain-binder. Automatic	J. F. Appleby	697,429	Apr. 15	1968	481	99	454
Grain-binder. Automatic	J. F. Appleby	708,002	Sept. 2	3	158	100	1981
Grain-binder cord-cutting knife	A. H. Neller	699,553	May 6	800	12	99	1841
Grain-binder deck	I. Trolley	696,151	Mar. 25	8432	98	98	2477
Grain-binding machine	M. Kane	690,439	Jan. 7	100	22	98	24
Grain-carrier	R. H. Overly	698,546	Apr. 29	4015	98	99	913
Grain-cleaner	A. D. and G. L. Francoeur	694,540	Mar. 4	397	87, 88	98	1796
Grain-cleaner	H. Sommerfeld	705,154	July 22	3440	740	100	746
Grain cleaner and separator	J. C. Benson	713,049	Nov. 11	1097	253	101	1138
Grain-cleaner blast-regulator	A. T. Ferrell	701,866	June 10	1039	254	99	2341
Grain-cleaning-machine brush attachment	A. T. Ferrell	701,865	June 10	1037	233	99	2340
Grain-cleaning screen	C. Closs	698,258	Apr. 22	3514	773	98	734
Grain-conveyer	J. Vogt	714,978	Dec. 2	668	140	101	1969
Grain-crusher	H. and G. Rose	696,755	Apr. 1	680	153	99	145
Grain-drier	J. P. Churchill	702,127	June 10	1524	344	99	2440
Grain-drill	F. R. Packham and G. P. Oates.	691,322	Jan. 14	1797	408	98	389
Grain-drill	A. Smith	694,499	Mar. 4	293	67	98	1774
Grain-drill	A. Armitage	694,598	Mar. 4	503	109	98	1819
Grain-drill	W. G. Bolus	695,786	Mar. 18	2702	614	98	2311
Grain-drill	C. H. Pelton	700,231	May 20	2187	500	99	1658
Grain-drill	W. Fetzner	700,315	May 20	2368	540	99	1693
Grain-drill	C. H. Pelton	701,385	June 3	183	39	99	2145
Grain-drill	O. A. Poirier	707,799	Aug. 26	3513	732	100	1889
Grain-drill	G. W. Compton	707,958	Aug. 26	3802	854	100	1946
Grain-drill	W. F. Hoyt	709,636	Sept. 23	3169	707	100	2679
Grain-drill	W. F. Hoyt and D. B. Saltsman.	709,637	Sept. 23	3170	707	100	2679
Grain-drill	G. H. Burrill	709,741	Sept. 23	3370	736	100	2719
Grain-drill	J. A. Royster	711,003	Oct. 14	1139	252	101	250
Grain-drill	A. N. Norris	713,335	Nov. 11	1698	383	101	1361
Grain-drill	W. J. Robin	713,616	Nov. 18	2251	501	101	1390
Grain-drill	C. E. Crain, L. C. Evans, and H. E. Dodson.	713,966	Nov. 18	2914	648	101	1580
Grain-drill	T. B. Funk	713,976	Nov. 18	2938	651	101	1535
Grain-drill	C. H. Pelton	714,025	Nov. 18	3018	671	101	1533
Grain-drill. Disk	J. W. Smith and J. M. Coughlin.	716,774	Dec. 23	4133	907	101	2747
Grain-drill, disk, and hoe	C. W. Love	693,526	Feb. 18	2483	545	98	1356
Grain-drill distributor	C. E. Patric	691,483	Jan. 21	2116	474	98	475
Grain-drill feed mechanism	F. J. Noechel	694,069	Feb. 25	3546	782	98	1590
Grain-drill feed-regulating device	R. H. Schlachter	692,717	Feb. 4	884	202	98	980
Grain-drill furrow-opener. Disk	R. H. Schlachter	702,536	June 17	2403	549	99	2639
Grain-drill seed-tube	J. W. Feindexter	702,114	June 10	1502	328	99	2435
Grain-drill seeding attachment	H. G. Walton	705,497	July 22	4165	906	100	891
Grain-drill shoe	W. F. Brown	705,030	July 22	3181	687	100	695
Grain-drill shoe	H. Funk	707,578	Aug. 26	3023	680	100	1789
Grain-drill tube	L. J. Sanker and J. H. Sullivan	709,649	Sept. 23	3189	712	100	2683
Grain. Drying	V. Lapp	690,592	Jan. 7	426	91	98	93
Grain-drying apparatus	W. Tweedale and W. L. Harvey	691,209	Jan. 14	1562	355	98	341
Grain-drying apparatus	A. P. Criswell	713,859	Nov. 18	2692	600	101	1483
Grain dump and elevator. Combined	A. W. Koon	715,818	Dec. 16	2236	498	101	2331
Grain-elevating machine	M. W. Heyenga	709,012	Sept. 16	1909	438	100	2402
Grain-elevator	W. M. McCammon and C. A. Lee	708,576	Sept. 9	1032	233	100	2201
Grain-elevator	T. J. Levy and M. Anderson	714,203	Nov. 25	3407	750	101	1653
Grain elevator and dump	H. A. Burgess	713,394	Nov. 11	1812	407	101	1286
Grain elevator and transmitter	W. S. Sharpneck	715,306	Dec. 9	1258	267	101	2114
Grain-elevator distributing-spout	J. J. Gerber. (Reissue)	11,971	Feb. 18	3043	672	98	1470
Grain-elevator for separators	S. B. Hart	702,058	June 10	1419	318	99	2418
Grain-flow indicator	C. C. Neale	696,999	Apr. 8	1179	284	99	270
Grain-handling apparatus	A. Atkinson	700,886	May 27	3469	795	99	1940
Grain-loader	B. F. Slenker	700,097	May 13	1857	434	99	1570
Grain or hay deliverer	H. C. Erbe	708,804	Sept. 9	1476	337	100	2296
Grain or seed. Apparatus for sampling	J. J. Brown	703,233	June 24	3614	830	99	2903
Grain or seed separating device	J. E. Hill and W. W. Brower	696,336	Mar. 25	3804	848	98	2553



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Grain preparatory to grinding. Apparatus for treatment of	G. Bianchini	700,472	May 20	2667	610	90	1755
Grain-scourer	W. Lee	696,577	Apr. 1	320	78	99	73
Grain-screen	J. Sacora	698,147	Feb. 18	2337	511	99	1323
Grain-separating machine	W. L. Belt	702,279	June 10	1784	407	99	2492
Grain-separator	W. J. Kerr	692,145	Jan. 28	3351	759	98	745
Grain-separator	F. Witte	696,915	Apr. 1	1005	223	99	212
Grain-separator	C. Otto	707,251	Aug. 19	2386	534	100	1641
Grain-separator feeder	F. J. Wood	701,340	May 27	4112	946	99	3073
Grain-shocking machine	T. A. Woolley and H. Fox	694,512	Mar. 4	319	72.73	98	1780
Grain-shocks, &c. Cover for	V. Martin	691,318	Jan. 14	1791	407	98	388
Grain-spout	B. Kienholz	702,440	June 17	2095	477	99	2575
Grain-spout	W. D. Dickson	708,208	Sept. 2	307	92	100	2062
Grain. Steeping	W. P. Rice	713,349	Nov. 11	1726	389	101	1268
Grain. Steeping	W. P. Rice	715,605	Dec. 9	1809	491	101	2223
Grain-tube cup	W. C. Renaker	694,419	Mar. 4	162	36	98	1747
Graining apparatus	G. A. Herzog	700,493	May 20	2715	621	99	1765
Gramophone	E. Berliner	692,502	Feb. 4	494	116	98	899
Gramophone-brake	E. R. Johnson	700,937	May 27	3568	821	99	1960
Gramophone turn or supporting plates. Driving mechanism for rotary	T. Birnbaum	705,636	July 29	4492	975	100	969
Granary. Portable	D. W. Caswell	711,470	Oct. 21	2064	446	101	457
Granite. Artificial	M. Arnn	691,711	Jan. 21	2529	147	98	562
Graphite. Making	E. G. Acheson	711,081	Oct. 14	1205	265	101	265
Graphophone	E. P. Felt	701,697	June 3	753	167	99	2306
Graphophone attachment	L. H. Chapman	708,764	July 1	717	159	100	144
Graphophone. Multiple	T. H. Macdonald	711,706	Oct. 21	2517	553	101	555
Graphophone. phonograph, &c.	W. C. Runge	692,303	Feb. 4	253	62	98	832
Graphophone winding attachment	W. E. Dyre	692,789	Feb. 4	997	226	98	1001
Graphophones, graphophone-records, &c. Cabinet for	W. J. McDevitt	705,009	July 15	3135	677	100	698
Gratoscope	L. Lewis	709,415	Sept. 16	2725	611	100	2574
Grapple	M. H. Callahan	692,113	Jan. 28	3293	745	98	732
Grapple	J. W. Norris	698,544	Apr. 29	4014	887	99	913
Grapple	A. Daily and R. Baker	709,750	Sept. 23	3386	759	100	2722
Grapple. Supporting	A. T. Dudley	712,272	Oct. 28	3697	788	101	744
Grappling device	G. F. Boltze	704,852	July 15	2767	598	100	593
Grappling-hook	D. White	701,654	June 3	683	151	99	2251
Grappling-tool	H. A. Worthington	714,989	Dec. 2	686	143	101	1973
Grass and ditcher liner	J. M. Churchman	701,541	June 3	463	104	99	2203
Grass-cutting machine	J. Swanson	710,222	Sept. 30	4328	973	100	2634
Grass-cutting shears	J. E. Rhodes	708,737	Sept. 9	1333	304	100	2264
Grass-edge trimmer and sod-cutter	C. A. Sager	717,030	Dec. 30	4746	1020	101	2902
Grass or grain cutter	T. F. McDonald	714,222	Nov. 25	3442	757	101	1659
Grass or grain cutting machine	R. W. Hussey	708,556	Sept. 9	997	226	100	2195
Grass-uprooter	D. N. Phillips	690,461	Jan. 7	142	30.31	98	32
Grate	G. Saylor	691,004	Jan. 14	1205	273	98	267
Grate	J. L. White	692,809	Feb. 18	1052	274	98	1011
Grate	F. Burger	693,828	Feb. 25	3057	574	98	1468
Grate	G. B. Prowse	697,538	Apr. 15	2159	470	99	490
Grate	E. R. Cahoon	698,630	Apr. 29	4204	928	99	950
Grate	T. H. Lucas	700,061	May 13	1797	416	99	1538
Grate	C. T. Coe	700,618	May 20	2920	672	99	1808
Grate	T. J. Walton	703,865	July 1	898	198	100	180
Grate	G. Maag	707,855	Aug. 26	3625	817	100	1909
Grate	J. T. Vaughn	709,377	Sept. 16	2655	585	100	2560
Grate and grate-bar	W. McClave	707,790	Aug. 26	3490	786	100	1884
Grate-bar	J. Barker	694,601	Mar. 4	511	111	98	1821
Grate-bar	H. E. Parson	702,585	June 17	2376	542	99	2634
Grate-bar	H. Truesdell	703,891	Apr. 29	2946	679	99	2753
Grate-bar. Gas-burning	J. A. Abrams	707,851	Sept. 30	3703	556	100	2800
Grate-bar. Hollow	T. J. Pritchard	708,400	Sept. 2	723	162	100	2128
Grate. Endless-chain	W. J. Taylor	715,899	Dec. 16	2409	533	101	2370
Grate for automatic stoking. Inclined	H. H. Campbell	702,538	June 17	2270	519	99	2014
Grate-front and fender	J. J. Roll	700,500	May 20	2825	648	99	1780
Grate-front and stove. Combined	C. F. Wile	699,123	Apr. 29	5150	1142	99	1550
Grate-heater	J. Harrington	712,672	Nov. 4	300	01	101	979
Grate. Heating	J. A. Rose and W. P. Brockschmidt	695,840	Mar. 18	2803	638	98	2332
Grate raising and lowering means	P. L. Crowe	713,967	Nov. 18	2918	648	101	1532
Grate. Roller	J. MacCormack	707,708	Aug. 26	3286	735	100	1844
Grate. Round shaking	F. W. Foster	699,378	May 6	469	110	99	1271
Grate. Square shaking	F. W. Foster	706,546	Aug. 12	1072	236	100	1847
Grate. Tilting water	H. D. Sawyer	701,946	June 10	1185	270	99	2372
Grater	N. P. Lucas	706,837	Aug. 12	1623	365	100	1467
Grave-filler	U. H. Deering	707,503	Aug. 19	2845	604	100	1737
Grave-marker	J. A. Delaney	700,904	May 27	3503	804	99	1946
Gravity-battery	W. N. Gove	712,668	Nov. 4	385	90	101	978
Gravity-feed lubricator. Automatic	T. E. Brown	712,254	Oct. 28	3575	782	101	787
Gravity-lock	D. J. Kennedy	701,892	June 10	1090	248	99	2852
Gravity-motor	W. O. Benner	702,086	June 10	1460	328	99	2426
Grease-containing material. Treating	J. J. Seldner	692,922	Feb. 11	1287	283	98	1091
Grease-cup	H. C. Winspear	713,579	Nov. 11	2174	485	101	1358
Grease. Extracting	D. Cameron	705,034	July 22	3188	688	100	696
Greenhouse	C. Ickes	712,135	Oct. 28	3375	740	101	747
Greenhouse construction	F. H. Assche	708,428	Sept. 2	708	172	100	2190
Greenhouse valley-gutter	E. Hipard	696,043	Mar. 25	3188	719	98	2426
Greenhouse-window-operating mechanism	M. Prior	708,669	July 1	543	123	100	107

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Grid or broiler	J. J. Pearse.	698,552	Apr. 29	4028	890	99	916
Grinder. Mowing-machine-knife	F. G. Greene	694,376	Mar. 4	74	17	98	1727
Grinding and polishing machine	C. Maldaner	705,593	July 29	4426	959	100	956
Grinding apparatus	G. S. Baker	692,414	Feb. 4	337	81, 82	98	860
Grinding attachment for power-machines	E. W. Shewalter	703,486	July 1	105	47	100	41
Grinding device	S. P. Hastings	704,334	July 8	1780	389	100	374
Grinding device. Electric	C. S. Hisey	712,537	Nov. 4	146	36	101	928
Grinding knives, principally those of sausage-machines, &c. Machine for	O. Becker	700,298	May 20	2313	526 527	99	1684
Grinding-machine	E. Rivett	690,999	Jan. 14	1197	271	98	265
Grinding-machine	O. S. Walker	698,471	Feb. 18	2379	521	98	1335
Grinding-machine	C. E. Gabriel	696,034	Mar. 25	3175	716	98	2423
Grinding-machine	E. Shimer and H. A. Pardoe	698,315	Apr. 22	3604	795	99	811
Grinding-machine	M. W. Neuens	700,226	May 20	2178	498	99	1656
Grinding-machine	J. Gilson	701,081	May 27	3751	858	99	1999
Grinding-machine	W. H. Fettes	702,785	June 17	2746	631	99	2711
Grinding-machine	M. W. Neuens	703,212	June 24	3578	822	99	2805
Grinding-machine	J. N. Lapointe	704,348	July 8	1839	306 309 400	100	388
Grinding-machine	J. Ettinger	705,226	July 22	3601	779 780	100	779
Grinding-machine	J. Bath	707,543	Aug. 26	2938	665 666	100	1772
Grinding-machine	O. S. Walker	712,871	Nov. 4	760	176	101	1054
Grinding-machine	C. F. Roper	714,036	Nov. 18	3048	677	101	1560
Grinding-machine automatic work-rest	A. B. Landis	697,854	Apr. 15	2734	606	99	613
Grinding machine. Ball-	E. G. Hoffmann	708,065	June 24	3292	757 758	99	2839
Grinding machine. Cutlery	A. Johnston	694,387	Mar. 4	101	22, 23	98	1734
Grinding machine. Drill-	C. A. Chandler	690,898	Jan. 7	23	5	98	8
Grinding machine. Drill-	H. P. White	697,584	Apr. 15	2231	499	99	506
Grinding machine. Drill-	C. Ridderhof	702,885	June 17	2931	676	99	2750
Grinding-machine safety stop-motion	M. P. Fillingham	694,096	Feb. 25	3591	794 795	98	1599
Grinding-machine stop-motion. Cutlery	A. Gould	708,136	Sept. 2	355	61	100	2035
Grinding machine. Twist-drill-	C. A. Chandler	707,549	Aug. 26	2928	669	100	1777
Grinding-machine work-rest	A. B. Landis	697,852	Apr. 15	2729	605	99	612
Grinding-machine work-rest	A. B. Landis	697,853	Apr. 15	2733	606	99	613
Grinding-machine work-rest	A. B. Landis	700,663	May 20	2998	687	99	1826
Grinding-machine work-rest	A. B. Landis	712,815	Nov. 4	661	153	101	1033
Grinding-mill	J. Brown	698,441	Apr. 29	3837	846	99	877
Grinding-mill	H. G. Johnson	704,195	July 8	1561	336 337 350	100	328
Grinding-mill	J. H. Pendleton	715,504	Dec. 9	1619	351 352	101	2184
Grinding-mill. Ball	P. T. Lindhard	694,974	Mar. 11	1232	269 270	98	1990
Grinding-mill. Ball	M. F. Abbe	702,757	June 17	2700	620	99	2702
Grinding-mill. Centrifugal	J. H. Pendleton	706,102	Aug. 5	184	39	100	1154
Grinding or crushing head	V. W. Mason, Jr.	692,886	Feb. 11	1215	269	98	1074
Grinding or crushing head or roll	V. W. Mason, Jr.	709,642	Sept. 23	3177	709	100	2680
Grinding or polishing apparatus	H. Cavicchi	692,425	Feb. 4	356	87	98	873
Grinding or polishing attachment	W. E. Parker	692,335	Feb. 4	207	50	98	842
Grinding or polishing cone	H. C. Miller, Jr.	691,066	Jan. 14	1320	298	98	290
Grinding or polishing machine	A. Crocker	696,945	Apr. 8	1082	239	99	250
Grinding or polishing machine	C. R. Davis	712,772	Nov. 4	564	131	101	1013
Grinding, polishing, or buffing machine	C. F. Church	708,127	Sept. 2	237	56	100	2031
Grinding, polishing, or buffing machine	C. Werra	713,256	Nov. 11	1513	342 343	101	1222
Grinding-wheel	G. H. Fowler and W. D. Howe	699,302	May 6	326	74, 75	99	1240
Grinding-wheel	J. C. Foster	711,762	Oct. 21	2836	580	101	581
Grindstone. Portable	C. H. Ferguson	693,593	Feb. 18	2622	579	98	1384
Grindstone tool-guide	S. C. Schofield	709,177	Sept. 16	2245	510	100	2472
Grindstone tool holder and guide	S. C. Schofield	709,178	Sept. 16	2246	510 511	100	2472
Grip-actuating mechanism	S. S. Webber	706,369	Aug. 5	727	158	100	1263
Grip. Adjustable	C. F. Lufkin	693,413	Feb. 18	2264	495	98	1311
Grip-wrench. Automatic	J. R. Cogan	714,364	Nov. 25	3710	817	101	1713
Grit-mill	C. B. English and J. W. Thompson	706,645	Aug. 12	1247	276	100	1386
Grocer's bin	A. H. Miller and F. A. England	708,822	Sept. 9	1523	349	100	2304
Groove-cutter	H. W. A. Fette	693,508	Feb. 18	2447	536	98	1349
Grooving assembled stock. Machine for	M. B. Tidy	705,483	July 22	4133	899	100	886
Grooving machine. Lumber-	E. Pollard	708,074	Sept. 2	141	34, 35	100	2010
Grooving-tool. Rotary	A. R. Meister	705,268	July 22	3705	803	100	798
Ground-detector	W. H. Pratt	713,346	Nov. 11	1717	387	101	1266
Grubbing-machine	J. Bloodgood	711,693	Oct. 21	2497	548	101	551
Guano-distributor	R. H. Millam	699,627	May 6	946	219	99	1370
Guano-distributor	J. S. Byrd	702,921	June 24	2998	690	99	2782
Guide. Adjustable	E. B. Stimpson	703,749	July 1	693	153	100	138
Guide-yoke bracket	J. Player	696,483	Apr. 1	164	39, 40	99	40
Gun	R. C. Wolfersperger and M. E. Moran.	717,486	Dec. 30	5592	1214	101	3080
Gun. Air-	W. R. Benjamin	693,823	Feb. 25	3047	673	98	1491
Gun. Air-	W. R. Benjamin	695,025	Mar. 11	1328	298	98	2010
Gun and cartridge carrier. Combined	B. Rumsey	695,176	Mar. 11	1611	357	98	2069
Gun. Automatic	A. Vickers	690,799	Jan. 7	833	184 185	98	176
Gun. Automatic	A. Burgess	693,105	Feb. 11	1649	360	98	1164



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Gun. Automatic .....	A. Burgess .....	693,106	Feb. 11	1653	360	98	1164
					831		
Gun. Automatic .....	L. V. Benét and H. A. Mercié .....	696,806	Mar. 25	3723	832	98	2536
					833		
					834		
					835		
Gun. Automatic .....	L. L. Driggs .....	698,472	Apr. 29	3891	859	99	887
					860		
Gun. Automatic .....	A. Noble .....	702,240	June 10	1721	389	99	2479
Gun. Automatic .....	A. Burgess .....	715,971	Dec. 16	2551	563	101	2400
Gun. Automatic rapid-fire .....	V. P. De Knight .....	698,107	Apr. 22	3219	704	99	732
					705		
					821		
Gun. Automatic rapid-fire .....	V. P. De Knight .....	709,880	Sept. 30	3633	822	100	2788
					823		
					824		
Gun. Automatic rapid-fire .....	V. P. De Knight .....	709,881	Sept. 30	3646	825	100	2790
					826		
					827		
Gun. Automatic rapid-fire .....	V. P. De Knight .....	709,883	Sept. 30	3668	828	100	2794
					829		
Gun-barrel .....	W. F. Cole .....	694,833	Mar. 4	948	211	98	1913
Gun-barrel .....	C. J. Hamilton .....	704,962	July 15	3047	654	100	651
Gun. Breakdown .....	W. H. Gates .....	698,194	Apr. 22	3401	748	99	770
					749		
Gun. Breakdown .....	W. H. Davenport .....	701,158	May 27	3909	613	99	2946
Gun. Breech-loading .....	G. S. Lewis .....	694,654	Mar. 4	604	132	98	1840
Gun. Breech-loading .....	J. F. Meigs and S. A. S. Hammar .....	696,063	Mar. 25	3221	728	98	2492
					729		
					491		
Gun. Breech-loading .....	J. F. Meigs and S. A. S. Hammar .....	700,217	May 20	2144	492	99	1649
					493		
Gun-breech mechanism .....	A. W. Schwarzklose .....	692,921	Feb. 11	1287	282	98	1091
Gun-breech mechanism .....	L. N. D. Mixsell .....	702,455	June 17	2128	483	99	2583
Gun-breech mechanism .....	G. Ehrhardt .....	715,049	Dec. 2	756	160	101	1989
Gun-breech mechanism .....	C. Holmström .....	715,073	Dec. 2	826	175	101	2004
Gun. Cane .....	F. H. Jury .....	704,646	July 15	2382	516	100	513
Gun-carriage .....	H. P. Osborn .....	698,049	Apr. 22	3095	681	99	706
					682		
Gun-carriage .....	K. Deinlein .....	700,114	May 13	1891	439	99	1576
Gun-carriage .....	K. Deinlein .....	700,627	May 20	2945	678	99	1814
					677		
Gun-carriage .....	K. Deinlein .....	708,900	July 1	973	212	100	195
Gun-carriage .....	O. Behnke .....	707,376	Aug. 19	2621	590	100	1689
					591		
Gun-carriage .....	A. T. Dawson and G. T. Buckham .....	707,398	Aug. 19	2669	602	100	1699
					603		
Gun-carriage .....	A. T. Dawson and G. T. Buckham .....	707,399	Aug. 19	2671	604	100	1700
					604		
Gun-carriage .....	O. Lauber .....	708,235	Sept. 2	441	100	100	2071
Gun-carriage .....	P. de Nordenfelt and E. Ternström .....	717,258	Dec. 30	5192	1125	101	2998
					1127		
Gun carriage or mount .....	J. F. Meigs and R. P. Stout .....	696,064	Mar. 25	3226	730	98	2438
					731		
Gun-carriages. Combined axle-seat and shield for.	O. Lauber and F. Stock .....	707,432	Aug. 19	2730	617	100	1712
					618		
Gun cartridge-extractor .....	A. T. Dawson and G. T. Buckham .....	708,871	Sept. 9	1623	372	100	2327
Gun-cleaner .....	A. W. Bishop .....	690,393	Jan. 7	16	4	98	7
Gun-cleaner .....	G. H. Garrison .....	705,396	July 22	3979	862	100	854
Gun-cleaner .....	G. H. Garrison .....	707,813	Aug. 26	3734	837	100	1931
Gun-cleaner .....	E. A. Pugh .....	709,357	Sept. 23	3036	677	100	2632
Gun-cleaning tool .....	A. H. Durston .....	702,359	June 10	1928	440	99	2421
Gun-cleaning tool .....	A. H. Durston .....	713,754	Nov. 18	2502	556	101	1445
Gun. Concealed-hammer breakdown .....	C. P. Clément .....	693,639	Feb. 18	2708	598	98	1408
Gun. Discharge-actuated breech-loading .....	S. N. McClean .....	715,839	Dec. 16	2273	506	101	2330
					507		
Gun ejector. Breakdown .....	E. H. Elder .....	690,568	Jan. 7	384	79	98	83
Gun-feeding mechanism. Automatic .....	A. Vickers .....	708,859	July 1	892	196	100	179
Gun firing mechanism .....	V. C. Tasker .....	710,124	Sept. 30	4137	933	100	2892
					934		
Gun firing mechanism .....	A. T. Dawson and G. T. Buckham .....	716,685	Dec. 23	3972	869	101	2712
					870		
Gun fluid-brake .....	O. Behnke .....	695,854	Mar. 18	2828	642	98	2337
Gun-lock .....	F. Snyder .....	695,242	Mar. 11	1727	389	98	2493
Gun-lock .....	D. Brown .....	698,440	Apr. 29	3834	845	99	876
					846		
					560		
Gun. Machine .....	E. M. Capps .....	709,301	Sept. 16	2490	561	100	2525
					562		
Gun. Machine .....	H. H. Kryger .....	711,218	Oct. 14	1594	342	101	346
Gun. Magazine .....	J. M. Browning .....	710,094	Sept. 30	4074	919	100	2879
Gun-mount .....	S. N. McClean .....	691,912	Jan. 28	2924	659	98	660
Gun-mount .....	R. H. Schofield .....	713,506	Nov. 11	2040	457	101	1382
Gun-mounting .....	F. T. Brankston .....	695,087	Mar. 11	1438	317	98	2033
Gun-mounting. Telescope .....	H. L. De Zeng, Jr .....	691,248	Jan. 14	1633	373	98	356
Gun-rack .....	H. N. Whitcomb .....	712,428	Oct. 28	3903	854	101	857
Gun. Rapid-fire .....	G. J. Boehm .....	694,606	Mar. 4	325	114	98	1824
					825		
Gun. Rapid-fire .....	V. P. De Knight .....	709,882	Sept. 30	3659	826	100	2792
					827		
Gun-recoil apparatus .....	C. P. E. Schneider and J. B. G. A. Canet .....	713,691	Nov. 13	2384	531	101	1417
					532		
Gun recoil-check .....	S. N. McClean .....	691,913	Jan. 28	2925	659	98	661
Gun recoil-pad .....	J. R. Winters .....	699,608	May 6	909	219	99	1363
Gun. Repeating .....	B. R. Harrington .....	698,965	Feb. 25	3330	731	98	1546
Gun. Semi-automatic .....	L. V. Benét .....	696,851	Apr. 1	854	197	99	180

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Gun. Semi-automatic.	T. G. Bennett and T. C. Johnson	710,660	Oct. 7	505	106	101	102
Gun-shield attachment	J. E. Meigs	687,802	Apr. 8	3779	131	99	619
Gun-sight	E. Cheout	686,942	Apr. 8	1078	238	99	249
Gun-sight	J. Becker	701,787	June 3	905	202	99	2598
Gun-sight	P. Junod	711,507	Oct. 21	2131	464	101	473
Gun-sighting apparatus	C. P. E. Schneider and J. B. G. A. Canet.	716,114	Dec. 16	2843	626	101	2463
Gun. Spring-	W. H. Pease	707,000	Aug. 12	1906	427	100	1526
Gun. Spring-	S. Daniels	710,457	Oct. 7	69	116	101	12
Gun. Spring air-	W. F. Markham	696,461	Apr. 1	123	29	99	32
Gun. Submarine or other	J. P. Holland	708,552	Sept. 9	992	224	100	2193
Gun-tower. Armored	R. Geelhaar	701,870	June 10	1049	235 236 601	99	2343
Gun-turret. Main	C. H. Howland-Sherman	697,843	Apr. 15	2708	602 603	99	607
Gun. Water-	C. H. Radcliffe	702,478	June 17	2167	494	99	2591
Guns. Ammunition conveyer or rammer for.	J. Becker	691,584	Jan. 21	2202	515 516 517	98	512
Guns. Ammunition conveyer or rammer for.	G. A. Schoeller	696,087	Mar. 25	3265	738 739	98	2441
Guns. Cartridge-carrier mechanism for automatic.	F. M. Garland	693,386	Feb. 18	2212	485 486	98	1301
Guns. Firing multishot.	R. W. Scott	694,674	Mar. 4	647	142	98	1849
Guns having recoil-barrels. Means for installing the recuperating-springs in	O. Behnke	711,814	Oct. 21	2732	605	101	599
Guns. Means for effecting noiseless discharge of.	J. E. Bissell	692,819	Feb. 11	1072	241	98	1043
Guns. Means for securing center pivots to axes in	G. Ehrhardt	700,633	May 20	2933	678	99	1816
Guns or other uses. Explosive charge for	R. W. Scott	716,768	Dec. 23	4117	904	101	2746
Guns. Range-finder attachment for	A. P. Collins	706,390	Aug. 5	785	170 171	100	1273
Guns. Single-trigger mechanism for double	C. E. De Long	699,291	May 6	306	70	99	1237
Guns to carriage-axes. Means for securing the pivots of	G. Ehrhardt	717,364	Dec. 30	5373	1168	101	3037
Guns with independent line of sight. Apparatus for sighting	C. P. E. Schneider and J. B. G. A. Canet.	706,345	Aug. 5	685	148 149	100	1254
Gunner's ear-muffle	W. S. Franklin	710,572	Oct. 7	336	73	101	68
Guncotton-press	A. Hollings	690,728	Jan. 7	714	158	98	150
Gutta-percha or the like from leaves or twigs containing it. Extracting	G. Mitchell	695,751	Mar. 18	2637		98	2297
Gutta-percha. Purifying.	A. Combanaire and J. De la Fresnaye	704,677	July 15	2433	525	100	524
Gymnastic apparatus.	D. G. Mattsson	705,266	July 22	3703	803	100	798
Gymnastic apparatus. Coin-freed	K. Strauss	698,335	Apr. 22	3632	802 803	99	818
Gymnastics. Combination apparatus for heavy	H. Suder	694,442	Mar. 4	201	44	98	1755
Gyroscopes for obtaining artificial horizons. Colimator.	P. Ponthus and L. Therrode	705,702	July 29	4623	1002	100	995
Hack	J. A. Costa	712,910	Nov. 4	843	195	101	1069
Hackling-machine	M. Young	696,127	Mar. 25	3364	759	98	2464
Hackling-machine	J. P., and N. Fraser	717,380	Dec. 30	5396	1173	101	3041
Hail-preventing device	D. Maggiora, P. and E. Bianchi	701,907	June 10	1115	255 256	99	2357
Hair-clasp	J. Machado	694,984	Mar. 4	1146	251	98	1955
Hair-crimper	J. A. Klaron	703,989	Sept. 30	3878	874	100	2338
Hair-crimper	J. F. Martin	710,702	Oct. 7	576	121	101	118
Hair-drier	J. F. Warner	696,122	Mar. 25	3356	757	98	2461
Hair drier and comb. Combination	C. E. Bradshaw	701,673	June 3	713	157	99	2257
Hair-drying apparatus	A. Bausen	692,105	Jan. 28	3281	742	98	730
Hair-drying device.	W. W. Cowley	696,412	Apr. 1	39	9	99	12
Hair-drying device.	W. J. O'Hara	697,743	Apr. 15	2533	565	99	567
Hair-fastener	J. Leick	691,555	Jan. 21	2234	502	98	501
Hair-fastener	A. G. Smith	698,333	Apr. 22	3630	802	99	817
Hair-fastener	R. E. Glass	701,479	June 3	365	81	99	2183
Hair-fastener	W. P. Dun Lany	706,036	Aug. 5	66	14	100	1131
Hair-picker	F. Nacke	693,802	Feb. 18	2992	661	98	1460
Hair-pin	N. O. Hassum	703,412	July 1	88	18	100	20
Hair-pin	N. Harrison	708,959	Sept. 9	1735	412	100	2350
Hair-pin	W. S. Bechtold	709,255	Sept. 16	2402	544	100	2506
Hair-pin	T. C. Allen	714,431	Nov. 25	3828	848	101	1737
Hair-retainer	E. N. Davis	712,657	Nov. 4	367	85	101	974
Hair-retainer	M. A. Gony	717,499	Dec. 30	5616	1219	101	3085
Halter	G. P. Cooley	694,531	Mar. 4	384	84	98	1794
Halter. Operating-	R. W. Ellis	699,947	May 13	1603	366	99	1519
Halter. Rope	E. H. Buss	698,560	Apr. 23	4936	892	99	917
Halter-tie regulator and securer	J. C. Covert	716,887	Dec. 23	3384	730	101	2587
Ham and trace connector	G. B. Withers	709,950	Sept. 30	3792	856	100	2820
Ham-fastener	N. P. Erickson	706,912	Aug. 12	1763	394	100	1494
Ham-fastener	E. G. Bennett	707,497	Aug. 19	2838	641 642	100	1735
Ham-fastener	E. E. Bull	712,993	Nov. 4	831	193	101	1067
Ham-fastener. Adjustable	F. J. Boyle	699,482	May 6	676	157	99	1316
Ham-hook	G. F. Lindsay	709,784	Sept. 23	3453	777	100	2737
Hammer	J. Dempsey	704,006	July 8	1176	256	100	249
Hammer	J. J. Green	711,206	Oct. 14	1579	338	101	343
Hammer	G. F. Voight	712,983	Nov. 4	973	227	101	1096
Hammer and wrench. Combined	C. J. Margard	711,408	Oct. 14	1935	421	101	418
Hammer. Automatic	A. Strondahl	694,698	Mar. 4	1077	236	98	1939
Hammer. Automatic valved	D. S. Vaugh	701,235	May 27	4102	945	99	2072
Hammer. Drop-	L. D. Howard	709,577	Sept. 23	3075	684	100	2660
Hammer. Foot-power	E. F. Edgcombe	710,567	Oct. 7	328	71	101	66
Hammer. Foot-power	T. Hicks	711,766	Oct. 21	3640	581	101	581
Hammer. Glazier's	D. M. Humiston	703,790	July 1	771	169	100	154



*Alphabetical list of inventions—Continued.*

Invention	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Hammer. Magazine.	W. Jacoby	701,781	June 3	816	180	99	2278
Hammer. Magazine nailing.	G. I. Smith	704,467	July 8	2055	446	100	432
Hammer. Magnetic tack.	A. R. Robertson	710,615	Oct. 7	428	89	101	85
Hammer nail-holder.	P. E. McGinty	701,076	May 27	3812	874	99	2012
Hammer nail-holding attachment.	E. L. Carlisle	698,631	Apr. 29	4206	920	99	951
Hammer. Pneumatic.	M. A. Yeakley	693,989	Feb. 25	3280	722	98	1536
Hammer. Pneumatic.	C. H. Johnson	695,396	Mar. 11	1996	446	98	2149
Hammer. Pneumatic.	J. Boyer	697,793	Apr. 15	2024	582	99	587
Hammer. Pneumatic.	C. K. Pickles	707,350	Aug. 19	2574	582	100	1680
Hammer. Pneumatic.	H. J. Kimman	707,515	Aug. 19	2868	1650	100	1742
Hammer. Pneumatic.	H. J. Haeseler	707,920	Aug. 26	3744	840	100	1983
Hammer. Pneumatic.	C. H. Shaw	712,438	Oct. 28	3921	858	101	861
Hammer. Pneumatic.	J. T. McGrath	714,321	Nov. 25	3032	800	101	1698
Hammer. Pneumatic power.	H. F. Massey	707,346	Aug. 19	2373	532	100	1683
Hammer. Power.	A. W. Johnson	693,324	Feb. 11	2085	456	98	1253
Hammer. Power.	J. B. McLane	703,737	July 1	668	148	100	134
Hammer. Power.	W. Bauermeister	706,151	Aug. 5	389	60,61	100	1176
Hammer. Power.	C. H. Krehbiel	709,780	Sept. 23	3445	775	100	3735
Hammer. Power.	J. H. Jackson	709,820	Sept. 23	3529	794	100	3732
Hammer. Power.	T. Holmstrom	710,358	Sept. 30	4559	1028	100	2383
Hammer. Power.	H. Feldhus	716,019	Dec. 16	2645	1582	101	2490
Hammer. Tilt.	B. C. A. M., and J. M. Schroder	717,289	Dec. 30	5244	1139	101	3009
Hammer. Valveless.	D. S. Waugh	709,067	Sept. 16	2022	461	100	2425
Hammering-tool. Portable automatic.	F. M. Leavitt	715,277	Dec. 9	1193	254	101	2098
Hammock.	E. E. Palmer	693,564	Feb. 18	2549	561	98	1370
Hammock.	Z. L. Chadbourne	695,032	Mar. 11	1341	295	98	2013
Hammock.	Z. L. Chadbourne	695,374	Mar. 11	1960	438	98	2141
Hammock.	I. E. Palmer	699,410	May 6	542	125	99	1286
Hammock.	I. E. Palmer	700,978	May 27	3631	834	99	1972
Hammock.	I. E. Palmer	712,202	Oct. 28	3438	764	101	767
Hammock.	O. Potter	717,119	Dec. 30	4902	1061	101	2984
Hammock and support.	H. A. Manning and J. D. Cameron	711,221	Oct. 14	1596	343	101	347
Hammock frame or support.	W. Augustus	714,554	Nov. 25	4649	896	101	1781
Hammock hanger-eye.	Z. L. Chadbourne	695,372	Mar. 11	1958	437	98	2141
Hammock pillow attachment.	I. E. Palmer	694,070	Feb. 25	3549	782	98	1591
Hammock-sling.	J. B. Dalrymple	696,413	Apr. 1	40	9	99	12
Hammock-spreader.	I. E. Palmer	694,071	Feb. 25	3550	782	98	1591
Hammock-spreader-clip.	I. E. Palmer	695,563	Feb. 18	2548	561	98	1370
Hammock-support.	I. E. Palmer	691,670	Jan. 14	1327	300	98	292
Hammock-support.	C. Smith and J. L. Mounce	698,865	Apr. 29	4723	1040	99	1070
Hammock-support.	W. H. Morehouse	711,579	Oct. 21	2271	493	101	502
Hamper.	D. F. Youngblood	714,348	Nov. 25	3678	810	101	1707
Hamper.	G. M. Davidson	705,045	July 22	3209	693	100	700
Hand-ball.	R. F. Downey	700,411	May 30	2549	584	99	1730
Handcuff.	F. A. Headson	691,941	Jan. 28	2976	669	98	670
Handcuffs.	C. L. Mealer	711,778	Oct. 21	2662	587	101	585
Hand-guard and wrist-supporter.	G. L. Pierce	702,471	June 17	2155	491	99	2589
Hand-motor.	P. J. Kamper	703,594	July 1	383	89	100	76
Hand-press.	J. Murdock, Jr.	693,050	Feb. 11	1535	334	98	1142
Hand-propelled chair.	N. A. Sawyer	692,036	Jan. 28	3153	712	98	704
Hand-protector.	D. F. Morgan	703,211	June 24	3576	821	99	2895
Hand-rake.	D. B. Simpson	693,986	Feb. 25	3380	745	98	1537
Hand-shears for cutting metals or other hard materials in sheets.	G. Thuillier	698,575	Feb. 18	2587	572	98	1377
Hand-trap.	J. C. Porterfield	706,342	Aug. 5	678	147	100	1253
Hand-wheel.	E. H. Seddon	702,381	June 10	1969	449	99	2529
Handkerchief-holder.	N. E. P. Bergmann	705,196	July 22	3523	764	100	764
Handle:							
See Agricultural-tool	Removable handle.						
handle.	Sad-iron handle.						
Bar-handle.	Saw-handle.						
Basket-handle.	Sheet-metal handle.						
Bucket-handle.	Shovel-handle.						
O-handle.	Toilet-article handle.						
Detachable handle.	Tool-handle.						
Flushing-tank handle.	Umbrella-handle.						
die.	Vessel-handle.						
File-handle.	Washbowl-handle.						
Paper-vessel handle.	Wrench-handle.						
Pump-handle.							
Handle.	E. Seybold and C. E. Mountford	690,622	Jan. 7	489	106	98	105
Handle.	E. Seybold and C. E. Mountford	692,486	Feb. 4	463	107	98	893
Handle.	W. N. Maynard	700,354	May 20	2485	555	99	1709
Handle.	G. B. M. Buzzell	711,821	Oct. 21	2747	608	101	602
Handle-bar.	L. N. W. Smith	700,098	May 13	1859	484	99	1570
Handle-bar for cycles, &c.	F. Sadler	690,464	Jan. 7	150	31	98	34
Handle-bar support.	L. S. Kallajian	707,514	Aug. 19	2866	650	100	1741
Handle-bolt.	A. W. Terrill	710,906	Oct. 7	956	210	101	195
Handle-clasp.	C. W. Blue	695,599	Mar. 14	2376	538	98	2240
Handle-fastener.	L. Herrman	691,377	Jan. 21	1933	435	98	437
Handle-fastening.	I. Nellenbogen	717,024	Dec. 30	4733	1026	101	2999
Handle for a number of implements.	T. G. Moser	696,995	Apr. 8	1171	262	99	269
Handle for bags, satchels, &c.	W. Roemer	712,206	Oct. 28	3491	766	101	768
Handle for spades, &c.	R. Parkes	715,135	Dec. 2	937	201	101	2028
Handle locking device. Swinging.	E. Baumann	696,927	Apr. 8	1039	231	99	239
Handle socket. Adjustable.	T. Morrin	716,077	Dec. 16	2769	611	101	2447
Handles of brooms, hoes, &c. Attachment for	E. Dillingham	695,197	Mar. 11	1643	365	98	2077
Handles or rests to tools. Means for securing	Z. T. Furbish	701,195	May 27	4038	928	99	2060
Handles to tools. Coupling for connecting.	W. A. Suttle	705,973	July 29	5100	1111	100	1092

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. k.	Vol.	Page.
Handling material in bulk. Apparatus for .....	P. B. Clarke .....	714,150	Nov. 25	3260	721 722 723 724 725 726 727 728	101	1625
Handwriting-developer .....	F. C. Rockwell .....	709,114	Sept. 16	2121	485	100	2448
Hanger:							
See Adjustable hanger. Lamp-hanger.							
Cable-hanger. Paper-hanger.							
Clothes-hanger. Picture-hanger.							
Coat-hanger. Pipe-hanger.							
Crank-hanger. Plate or plaque hanger.							
Curtain-hanger. Pulley-hanger.							
Door-hanger. Screen-hanger.							
Drapery-hanger. Shade-hanger.							
Eaves-trough hang-er.	Shade and curtain hang-er.						
Electric-light hang-er.	Shade-rod hanger.						
End-gate hanger. Shaft-hanger.							
Garment-hanger. Suit-hanger.							
Insulating-hanger. Tobacco-hanger.							
Joist-hanger. Trousers-hanger.							
Window-screen hanger.							
Hanger .....	H. C. Clayton .....	691,114	Jan. 14	1391	316	98	305
Hanger .....	H. T. Hallowell .....	710,191	Sept. 30	4264	961 962	100	2919
Hanger for transformers or the like .....	J. J. Wood .....	706,870	Aug. 12	1686	378	100	1479
Hanging and fastening device .....	A. Schluter, Jr .....	697,278	Apr. 8	1671	373	99	375
Harmonica attachment. Mouth- .....	A. S. Alexander and A. Vischer .....	703,752	July 1	697	154	100	139
Harmonica. Mouth- .....	H. Hohner .....	712,380	Oct. 28	3789	829	101	833
Harness .....	F. J. Schenk .....	692,716	Feb. 4	883	292	98	980
Harness .....	G. Sengelaub .....	698,329	Apr. 22	3625	800 801	99	816
Harness .....	A. Wood .....	701,659	June 3	689	152	99	2252
Harness .....	A. L. Hawkins .....	703,789	July 1	770	163	100	154
Harness .....	J. Drum and M. Doyle .....	711,951	Oct. 28	3028	665	101	679
Harness appliance .....	W. D. Beidleman and E. G. Cam-eron .....	715,635	Dec. 9	1856	412	101	2232
Harness attachment .....	J. F. McCormick .....	696,071	Mar. 25	3240	738	98	2435
Harness attachment .....	N. Herbrand .....	707,588	Aug. 26	3043	684	100	1794
Harness attachment .....	J. T. Surbaugh .....	708,676	Sept. 9	1213	277	100	2238
Harness attachment .....	R. G. Petway and J. M. Tritschler .....	710,885	Oct. 7	922	201	101	187
Harness box and buckle device .....	J. M. Lebens .....	716,253	Dec. 16	3121	683	101	2519
Harness checking device .....	H. D. McKinney .....	708,906	Sept. 9	1689	389	100	2340
Harness connection for neck-yokes .....	J. F. Bline .....	714,134	Nov. 25	3243	716	101	1619
Harness-hook .....	C. W. Hodges .....	696,970	Apr. 8	1133	251	99	261
Harness-loop .....	M. E. Zeller .....	712,690	Nov. 4	804	186	101	1062
Harness safety attachment .....	M. A. Dunn .....	690,642	Jan. 7	529	115	98	113
Harness-strap protector .....	N. W. Pond .....	710,511	Oct. 7	227	50	101	46
Harness supporting and display rack .....	A. H. Conn .....	713,751	Nov. 18	2493	555	101	1443
Harness. Traceless .....	H. W. and M. B. Dewey .....	715,857	Dec. 9	1850	290	101	2182
Harness vehicle-fastening .....	M. McNailey .....	703,808	July 1	798	173	100	160
Harp .....	K. Weigel .....	707,041	Aug. 12	1981	444 445	100	1538
Harrow .....	G. H. Pounder .....	692,342	Feb. 4	217	52	98	844
Harrow .....	J. and F. Furrer .....	693,698	Feb. 18	2820	620	98	1425
Harrow .....	J. B. Morrison .....	693,882	Feb. 25	3166	700	98	1513
Harrow .....	C. S. Sharp .....	694,113	Feb. 25	3617	800	98	1604
Harrow .....	J. H. Mosley .....	698,536	Apr. 29	3938	834	99	909
Harrow .....	J. Macphail .....	700,214	May 20	2140	490	99	1649
Harrow .....	W. Powers .....	702,475	June 17	2163	494	99	2590
Harrow .....	C. Shabley .....	704,587	July 15	2290	497	100	494
Harrow .....	E. F. May .....	704,897	July 15	2849	617	100	610
Harrow .....	M. E. Johnson .....	706,951	Aug. 12	1823	408 409	100	1506
Harrow .....	E. R. Butts .....	709,256	Sept. 16	2403	544	100	2506
Harrow .....	W. J. Doyle .....	711,950	Oct. 28	3027	665	101	679
Harrow .....	J. J. Furthmiller .....	711,956	Oct. 28	3038	667	101	681
Harrow .....	G. M. Clark .....	712,907	Nov. 4	836	194	101	1068
Harrow .....	G. M. Clark .....	712,996	Nov. 4	994	223	101	1099
Harrow .....	H. H. Larsen .....	713,459	Nov. 11	1913	433	101	1306
Harrow .....	W. H. Patten .....	714,819	Dec. 2	332	73	101	1905
Harrow and cultivator. Reversible rotary .....	M. Schicht .....	694,429	Mar. 4	182	39, 40	98	1751
Harrow and land-roller. Convertible .....	H. B. Waltrip .....	700,862	May 27	3429	788	99	1932
Harrow and roller. Combined .....	J. Stout .....	699,257	May 6	237	55	99	1222
Harrow and seed-planter. Combined .....	A. C. Palmer .....	710,883	Oct. 7	916	1199 1200	101	186
Harrow clearing attachment .....	N. Paulsen .....	702,071	June 10	1440	333	99	2422
Harrow. Cultivator and plow. Combined .....	A. L. Blackwell .....	691,741	Jan. 28	2616	386	98	597
Harrow. Disk .....	F. R. Packham and G. F. Oates .....	693,891	Feb. 25	3188	704	98	1518
Harrow-disk journal .....	O. E. Johnston .....	693,867	Feb. 25	3135	694	98	1508
Harrow draw-bar .....	A. O. Hoepner .....	709,769	Sept. 23	3424	769	100	2730
Harrow. Folding .....	A. T. Upton .....	709,589	Sept. 23	3090	688	100	2663
Harrow-jack .....	N. W. Thompson .....	696,637	Apr. 1	563	123	99	132
Harrow-plow attachment. Side- .....	W. A. Taylor .....	710,629	Oct. 7	450	94	101	90
Harrow. Riding .....	J. Francoeur .....	693,851	Feb. 25	3107	687 688	98	1502
Harrow. Riding .....	B. Alsop .....	694,451	Mar. 4	218	48, 49	98	1759
Harrow. Riding .....	L. P. Blood .....	704,500	July 15	2128	460 461	100	461
Harrow. Rotary .....	H. F. Jurs .....	714,378	Nov. 25	3731	832	101	1718
Harrow. Rotary wheel .....	E. Brucker .....	705,557	July 29	4351	941	101	941
Harrow. Spike-tooth .....	T. D. Jones .....	691,388	Jan. 21	1956	439	98	442



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	De'g.	Vol.	Page.
Harrow. Spike-tooth.....	T. D. Jones.....	701,735	June 3	824	182	99	2280
Harrow. Sulky.....	P. B. Christensen.....	707,902	Aug. 26	3715	833	100	1927
Harrow sulky attachment.....	H. T. Faure.....	706,040	Aug. 5	76	16	100	1132
Harrow-tooth.....	A. H. Schaffer.....	690,776	Jan. 7	769	175	88	166
Harrow-tooth and means for supporting same.....	J. Macphail.....	716,912	Dec. 30	451	975	101	2882
Harrow-tooth bar.....	T. R. Wallis.....	712,221	Oct. 23	3519	771	101	775
Harrow-tooth fastener.....	J. F. Duffin.....	698,473	Apr. 29	3896	860	99	888
Harrow-tooth fastening.....	S. D. Poole.....	691,660	Jan. 21	2433	547	98	542
Harrow-tooth fastening.....	G. T. Willis and J. Porteous.....	697,058	Apr. 8	1284	285	99	292
Harrow-tooth fastening.....	G. E. Blaine.....	714,661	Dec. 2	14	3	101	1839
Harrow-tooth. Spring.....	L. J. Stanton.....	692,939	Feb. 11	1532	290	98	1100
Harvester.....	E. Dornay.....	691,846	Jan. 28	2817	632	98	1338
Harvester.....	W. S. Washburn.....	706,367	Aug. 5	724	158	100	1263
Harvester.....	R. W. Hussey.....	708,557	Sept. 9	999	226	100	2195
Harvester.....	G. W. Haines.....	711,157	Oct. 14	1454	315	101	317
Harvester.....	L. E. McCahan.....	711,335	Oct. 14	1811	339	101	392
Harvester.....	J. J. Kennedy. (Reissue).....	12,050	Oct. 28	3987	872	101	875
Harvester.....	J. W. Pridmore and W. Webber.....	712,409	Oct. 28	3854	844	101	848
Harvester.....	S. K. Dennis.....	712,509	Nov. 4	82	21	101	914
Harvester and husker. Corn.....	T. P. and H. Weichel.....	699,601	May 6	896	207	99	1360
Harvester and shocker. Combined cornstalk.....	H. Peckman.....	706,598	Aug. 12	1154	255	100	1365
Harvester and shocker. Corn.....	G. G. Kimmell.....	704,839	July 15	2743	593	100	587
Harvester and shocker. Corn.....	L. L. Freeman.....	716,023	Dec. 16	2655	585	101	2422
Harvester attachment.....	M. Hopfner.....	696,442	Apr. 1	87	2	99	23
Harvester attachment.....	C. F. Craver.....	701,301	June 3	37	8	99	2116
Harvester attachment. Corn.....	M. F. Hughes.....	712,382	Oct. 23	3896	831	101	837
Harvester. Bean.....	C. C. Fast.....	696,668	Apr. 1	511	118	99	111
Harvester. Bean.....	J. H. Stanton.....	702,502	June 17	2322	596	99	2604
Harvester. Bean.....	D. J. and J. C. Morrow.....	717,435	Dec. 30	5505	1195	101	3062
Harvester. Beet.....	M. W. Palmer.....	696,262	Mar. 25	3636	832	98	2517
Harvester. Beet.....	M. W. Palmer.....	699,560	May 6	897	190	99	1342
Harvester. Beet.....	H. G. Hotchkiss.....	706,416	Aug. 5	838	183	100	1283
Harvester. Beet.....	W. Gary.....	707,097	Aug. 19	2100	469	100	1579
Harvester. Beet.....	J. J. Rookus.....	710,075	Sept. 30	4080	909	100	2870
Harvester-binder.....	J. A. Cowan.....	708,320	Sept. 2	595	135	100	2162
Harvester. Broom-corn.....	J. E. Larson.....	716,440	Dec. 23	3485	791	101	2610
Harvester bundle-carrier.....	H. Green.....	697,142	Apr. 8	1430	319	99	824
Harvester bundle-carrier. Automatic.....	W. Martens.....	708,776	Sept. 9	1408	323	100	2280
Harvester. Clover.....	A. D. Miller.....	701,912	June 10	1127	258	99	2360
Harvester cord-carrier. Self-binding.....	J. A. Sharp.....	714,407	Nov. 25	3781	835	101	1727
Harvester. Corn.....	V. Degehard.....	690,841	Jan. 7	904	201	98	191
Harvester. Corn.....	C. Colahan.....	691,748	Jan. 28	2632	590	98	601
Harvester. Corn.....	A. V. Kiser.....	691,782	Jan. 28	2698	606	98	615
Harvester. Corn.....	A. W. Richards.....	693,066	Feb. 11	1557	349	98	1146
Harvester. Corn.....	S. C. Anderson.....	695,023	Mar. 11	1323	262	98	2049
Harvester. Corn.....	J. L. Locke.....	696,347	Mar. 25	3819	851	98	2556
Harvester. Corn.....	F. R. Evers.....	708,395	July 1	0	11	100	14
Harvester. Corn.....	H. R., A. W., and G. S. Spaht.....	704,947	July 15	3005	644	100	644
Harvester. Corn.....	J. E. Wood.....	706,142	Aug. 5	266	55	100	1172
Harvester. Corn.....	E. D. Wallis.....	706,614	Aug. 12	1192	264	100	1372
Harvester. Corn.....	J. Strand.....	709,424	Sept. 16	2738	615	100	2577
Harvester. Corn.....	D. E. Anthony. (Reissue).....	12,044	Oct. 14	2033	440	101	488
Harvester. Corn.....	H. H. Bowerman.....	712,036	Oct. 28	3177	605	101	709
Harvester. Corn.....	J. F. Leeper.....	712,557	Nov. 4	191	45	101	987
Harvester. Corn.....	W. D. Steele.....	712,976	Nov. 4	224	101	101	1164
Harvester. Corn.....	F. M. Wilderman and I. W. Wright.....	716,327	Dec. 16	3243	709	101	2544
Harvester. Corn.....	C. E. Detling.....	716,390	Dec. 23	3392	740	101	2589
Harvester. Cotton.....	P. P. and P. F. Haertl.....	691,762	Jan. 28	2658	569	98	605
Harvester cutter. Corn.....	A. N. Hadley.....	705,923	Mar. 29	5010	1091	100	1074
Harvester cutting apparatus. Starting mechanism for.....	B. F. Boydston.....	695,370	Mar. 11	1955	486	98	2140
Harvester-divider.....	J. Macphail.....	704,063	July 8	1285	279	100	270
Harvester evener. Corn.....	G. S. Thompson.....	716,597	Dec. 23	3819	829	101	2681
Harvester. Flax.....	D. L. Wellman.....	708,848	Sept. 9	1576	369	100	2316
Harvester fly-wheel.....	G. L. Phelps and J. O. Morris.....	697,166	Apr. 8	1471	330	99	332
Harvester-frame.....	C. S. Hodge.....	703,703	July 1	698	135	100	120
Harvester. Grain.....	H. P. Finley.....	707,886	Aug. 26	3587	810	100	1963
Harvester. Grain-binding.....	W. N. Whitely.....	703,328	June 24	3752	864	99	2931
Harvester. Grain-binding.....	W. N. Whitely.....	713,264	Nov. 11	1538	347	101	1237

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Harvester grain-carrier	W. Foster	711,955	Oct. 28	3088	667	101	681
Harvester grain-divider	J. F. Steward.	703,497	July 1	214	250	100	45
Harvester, husker, and loader. Combined corn	J. E. Larson	701,899	June 10	1097	251	99	2354
Harvester knottor attachment	D. L. Wolf	699,360	May 6	440	100	99	1264
Harvester or mower cutter-bar	I. N. Graham	715,368	Dec. 9	1368	295	101	2135
Harvester. Pea	S. E. Kierolf	692,456	Feb. 4	407	97, 98	98	882
Harvester. Peanut	C. R. Wyborney	701,529	June 8	440	99	99	2199
Harvester. Potato	D. T. Culbertson	704,519	July 15	2171	470	100	470
Harvester. Potato	E. L. Schanck	715,158	Dec. 2	974	211	101	2035
Harvester-reel	C. W. Priestley	697,374	Apr. 8	1662	372	99	373
Harvester-reel	B. A. Selph	700,094	May 13	1851	431	99	1569
Harvester-reel	C. A. A. Rand	700,236	May 20	2192	501	99	1659
Harvester-reel	W. Miller	710,878	Oct. 7	910	198	101	185
Harvester spring-catch tongue-saddle	J. F. Steward	701,069	May 27	3855	836	99	2121
Harvester stubble-cutter attachment. Corn	J. Chamberlin	692,621	Feb. 4	717	166	98	946
Harvester. Sugar-beet	R. M. Fraser	705,747	July 29	4707	1018	100	1011
Harvesting apparatus. Peat	A. Dobson	706,535	Aug. 12	1055	232	100	1344
Harvesting apparatus. Potato	E. Massey	706,981	Aug. 12	1873	1419	100	1516
Harvesting-binders. Grain-packer for	D. H. Thurston and J. F. Holden	706,362	Aug. 5	710	154	100	1260
Harvesting corn	D. D. Jolly and A. E. Firman	716,552	Dec. 23	3726	812	101	2660
Harvesting implement	B. R. Huske	716,045	Dec. 16	2691	594	101	2430
Harvesting implement. Celery	J. G. Smith	690,899	Jan. 7	1003	227	98	210
Harvesting-machine	A. T. Zetlerlund	699,377	May 6	274	63, 64	99	1230
Harvesting-machine	B. F. Rinker	705,298	July 22	3759	816	100	810
Harvesting-machine collecting-boxes. Device for emptying	F. M. Oeder	712,086	Oct. 28	3254	719	101	738
Harvesting-machine conveyer-slat	C. F. Grohmann	716,706	Dec. 23	4011	879	101	3720
Harvesting machine. Corn	J. W. Poindexter	717,267	Dec. 30	5208	1130	101	2701
Harvesting machine. Grain-binding	J. W. Pridmore and B. R. Benjamin	715,292	Dec. 9	1227	262	101	2107
Harvesting-machine grain-dividing	W. N. Whitely	696,126	Mar. 25	3359	758	98	2462
Harvesting-machine grain-dividing	J. F. Steward	694,441	Mar. 4	200	44	98	1755
Harvesting-machine grain-shocking attachment	G. H. Spaulding	698,230	Apr. 22	3460	761	99	783
Harvesting-machine knotting device	A. Castelin	708,316	Sept. 2	588	133	100	2101
Harvesting-machine needle. Self-binding	B. C. Caudry and C. F. Deplanty	691,240	Jan. 14	1620	370	98	353
Harvesting-machine reel. Folding	F. T. Baker	710,402	Oct. 7	12	3	101	5
Harvesting-machines. Finger-bar for	J. F. Steward	707,460	Aug. 19	2771	628	100	1720
Harvesting onion sets, &c. Machine for	J. W. Jefferson	694,284	Feb. 25	3942	878	98	1669
Hasp. Adjustable	W. E. Craven	712,656	Nov. 4	365	81	101	974
Hasp-fastener	A. Voigt	702,005	June 17	2419	551	99	2643
Hasp-fastener	A. L. Weston	704,413	July 8	1949	422	100	410
Hat	A. L. Lelion	708,572	Sept. 9	1624	373	100	2327
Hat and coat rack	J. L. Storm	697,280	Apr. 8	1694	378	99	381
Hat attachment	M. Braynes	697,438	Apr. 15	1983	439	99	457
Hat-block	A. Olson	708,913	Sept. 9	1699	392	100	2342
Hat-block. Pneumatic	C. Müller	697,214	Apr. 8	1554	348	99	350
Hat-box	R. Lamont and C. E. Weatherhead	716,251	Dec. 16	3119	683	101	2519
Hat-box	J. M. Bird	704,431	July 8	1976	430	100	416
Hat-box. Folding	J. A. Park	715,134	Dec. 2	686	201	101	99
Hat-brim-flanging machine	E. C. Beecher	696,928	Apr. 8	1040	231	99	240
Hat-brim stretcher	A. B. Waring	713,545	Nov. 11	2107	472	101	1345
Hat-brim trimmer	E. J. Mellen	709,643	Sept. 23	3179	709	100	2681
Hat-brims. Machine for trimming curled	J. R. Griffith and H. Morehouse	702,870	June 17	2300	671	99	2744
Hat combinator. stretcher, &c. Combination	F. C. Crav	707,392	Aug. 19	2652	599	100	1695
Hat-curling machine	S. Mund	703,442	July 1	133	31	100	29
Hat-curling machine	W. J. McCall	692,537	Feb. 4	571	134	98	914
Hat-fastener	L. R. Heim	695,393	Mar. 11	1989	445	98	2147
Hat-fastener	E. Hart	691,624	Jan. 21	2376	535	98	528
Hat-fastener	J. N. Brunner	698,443	Apr. 29	3841	847	99	877
Hat-fastener	M. E. Waples	703,507	July 1	229	54	100	47
Hat-fastener	D. M. Paultz	711,343	Oct. 14	1831	398	101	396
Hat-fastener	G. E. Lacy	714,198	Nov. 25	3397	748	101	1651
Hat-fastener	W. P. Fraser	715,048	Dec. 2	774	165	101	1993
Hat-felting machine	J. Pomeroy	715,000	Dec. 9	1801	399	101	2221
Hat for firemen, &c.	J. S. Taylor	712,466	Oct. 28	3970	868	101	870
Hat-forming machine	J. L. Maitland	694,168	Feb. 25	3736	825	98	1627
Hat-forming machine	J. Marshall	705,107	July 22	3346	726	100	737
Hat-forming machine	D. J. Brew, H. B. Mallory, and A. Turner	714,773	Dec. 2	239	47, 48	101	1886
Hat forming or shaping die. Lady's	M. Quinn	710,610	Oct. 7	409	85	101	82
Hat-guard	A. Stamm	701,639	June 8	657	143	99	2246
Hat-hook	E. W. Higgins	704,827	July 15	2727	569	100	553
Hat-hook	J. Rodriguez	708,666	Sept. 9	1300	274	98	2296
Hat-machine	C. H. Rehd	700,871	May 29	2476	568	99	1716
Hat. Miner's	A. Harris	691,623	Jan. 21	2375	534	98	528
Hat or dress fastener	M. Osborn	699,559	May 6	806	190	99	1342
Hat or head-gear	J. Heimann	701,723	June 8	803	177	99	2276
Hat-pairing machine	E. S. Alvord	700,283	May 20	2288	522	99	1680
Hat-pin	J. Wiesen	710,349	Sept. 30	454	1025	100	2980
Hat-pin	J. C. McDermott	715,120	Dec. 2	904	139	101	2022
Hat-pin retainer	G. F. Packard	700,804	May 27	3316	761	99	1910
Hat-pin retainer	E. Krancher	703,795	July 1	778	171	100	156
Hat-pin retainer	C. E. Stubbs	711,864	Oct. 14	1864	407	101	403
Hat-pinning-out machine	C. H. Reid	700,823	May 27	3853	770	99	1917



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Hat-pouncing machine	C. M. Tirard	691,018	Jan. 14	1237	279	98	273
Hat-pressing machine	C. H. Klinger and J. J. Reynolds	694,756	Mar. 4	803	178	98	1881
Hat-rest	G. and J. Edwards	700,907	May 27	3509	805	99	1945
Hat-stand	J. F. Riley	710,805	Oct. 7	791	169	101	162
Hat-stay-hanging machine. Curved.	A. E. Nielsen and F. Bentsen	697,871	Apr. 15	2570	614	99	637
Hat-stiffening machine	N. Leveque	708,054	Sept. 2	106	25	100	2063
Hat-sweat-band	C. L. Johnson	707,784	Aug. 26	3473	782	100	1881
Hat-tip	J. R. and B. R. Myers	714,731	Dec. 2	154	31	101	1868
Hat tip or lining	C. F. Beatty	695,853	Mar. 18	2827	642	98	2337
Hat. Ventilated	J. Wolbrecht	707,486	Aug. 19	2816	636	100	1730
Hats and articles produced thereby. Making	J. H. Neave	699,222	May 6	160	40	99	1286
Hats. Attachment for holding stock while pressing	W. H. Kendall	715,054	Dec. 2	845	180	101	2069
Hats. Drying	J. Marshall	696,989	Apr. 8	1164	250	99	267
Hats. Making	J. A. Byers	703,383	July 1	37	7	100	10
Hatter's hair-strainer	M. R. Foster, Jr	709,670	Sept. 23	3228	720	100	2691
Hatch-cover	W. W. Dawley	691,752	Jan. 28	2642	592	98	602
Hatch-fastener	A. P. Rankin and A. C. Dierickx	709,928	Sept. 30	3752	847	100	2811
Hatchet shingle-raze	M. M. Kellogg	704,837	July 15	2740	593	99	563
Hatchway-door safety-gate	D. C. Meeker and W. A. Blackman	699,544	May 6	778	184	99	1335
Hay and stock rack	C. Scafe	705,448	July 22	4067	883	100	874
Hay-bagging machine	B. Paddock	693,147	Feb. 11	1744	382	98	1182
Hay-cap	G. W. Simons	711,356	Oct. 14	1851	403	101	400
Hay-carrier. Elevated	S. Jacobs	714,306	Nov. 25	3608	794	101	1693
Hay-curing frame	G. Symms, Jr	712,978	Nov. 4	965	225	100	1094
Hay-derrick	H. O. Sparks	695,595	Apr. 3	198	47	99	46
Hay-derrick	G. G. Mayenschein	700,353	May 20	2434	555	99	1708
Hay derrick or stacker	W. G. Danielsen	708,625	Sept. 9	1116	251	100	2219
Hay-distributor	N. C. Miller	691,305	Jan. 21	1983	445	98	448
Hay-elevator	J. Ney	690,660	Jan. 7	562	122	98	121
Hay elevator and distributor	W. A. Pierce	695,079	Mar. 11	1426	313	98	2081
Hay-fork	J. F. Sneathen	692,469	Feb. 4	467	109	98	894
Hay-fork	S. A. Nichols	697,742	Apr. 15	2531	554	99	567
Hay-loader	W. McMeans	698,998	Apr. 29	4947	1095	99	1116
Hay-loader	W. O. Baker	710,403	Oct. 7	13	4	101	5
Hay-loader	F. C. Southwell and O. Ralls	714,050	Nov. 18	3083	681	101	1567
Hay loader and press. Combined.	W. F. Ramsey and H. E. Pool	699,325	May 6	187	44	99	1212
Hay-loading apparatus	E. H. Nicholson	691,659	Jan. 21	2432	547	98	511
Hay-loading apparatus	F. S. Church	691,714	Jan. 21	2539	567	98	563
Hay-loading apparatus	T. F. Behrman	700,723	May 27	3151	716	99	1875
Hay-loading derrick. Portable.	E. Brust	708,199	Sept. 2	384	89	100	2060
Hay-machine	E. J. Slough	696,207	Mar. 25	3528	789	98	2495
Hay on wagons. Device for binding	J. H. Winterowd	702,520	June 17	2248	512	99	2609
Hay or fodder fork	F. Daley	715,761	Dec. 16	2114	474	101	2367
Hay-press	W. W. Leveque	692,362	Feb. 11	1358	295	98	1106
Hay-press	K. K. Gittings	694,626	Mar. 4	553	121	98	1830
Hay-press	S. B. Moore and W. Tatum	695,109	Mar. 11	1475	329	98	2040
Hay-press	E. B. Ramage and R. O. Slaughter	695,764	Mar. 18	2658	603	98	2301
Hay-press	E. W. Moore	700,697	May 20	3081	701	99	1846
Hay-press	R. L. Woodruff	711,270	Oct. 14	1678	361	101	363
Hay-press	T. Shank	712,398	Oct. 28	3719	813	101	817
Hay-press. Automatic	F. S. Buchanan	694,827	Mar. 4	941	209	98	1912
Hay-press door-closer	P. H. McVicar	710,166	Sept. 30	4225	952	100	2910
Hay-rack	F. E. Bright	691,527	Jan. 21	2193	493	98	492
Hay-rack	H. P. Vogler	701,110	May 27	3883	891	99	2027
Hay-rack	P. Plotnik	708,462	July 1	162	37	100	34
Hay-rack	J. Siemsen	708,928	Sept. 9	1721	397	100	2347
Hay-rack attachment	M. J. Geary	712,666	Nov. 4	383	89	101	978
Hay-rack lifter	W. J. Frank	708,054	June 24	3268	751	99	2854
Hay rack or wagon	A. Drechsler	715,097	Dec. 2	754	190	101	1860
Hay-rake	W. S. Livengood	694,558	Mar. 4	435	94	98	1805
Hay-rake	W. S. Livengood	694,559	Mar. 4	436	94	98	1806
Hay-rake	A. W. Zimmermann	701,663	June 3	696	154	99	2254
Hay rake and loader	E. D. Doney	709,756	Sept. 23	3392	762	100	2728
Hay rake and loader. Combined	D. N. Schubert	715,427	Dec. 9	1476	318	101	2157
Hay rake and stacker	A. H. Graves	714,795	Dec. 2	292	63	101	1896
Hay-rake. Horse	A. F. Brown	694,051	Feb. 25	3523	775	98	1585
Hay-rake. Horse	W. A. Cavett	694,831	Mar. 4	946	211	98	1913
Hay-rake. Horse	S. B. Hendricks	699,318	May 6	353	83	99	1246
Hay-rake. Side-delivery	C. W. Baird	694,344	Mar. 4	7	3	98	1714
Hay-rake. Sulky	A. R. Black	694,719	Mar. 4	730	161	98	1866
Hay-rake. Sulky	A. R. Black	697,067	Apr. 8	1311	289	99	297
Hay-rake. Sulky	J. J. Thompson	708,624	July 1	447	103	100	88
Hay-retarding device	H. Green	710,967	Oct. 14	1071	236	101	234
Hay-tedder	E. D. and O. B. Reynolds	711,226	Oct. 14	1605	345	101	348
Hay-tedder fork	W. W. Shaw	714,751	Dec. 2	191	38	101	1876
Head-block or follower	J. J. Crowley	698,401	Apr. 29	3573	825	99	884
Head-covering	A. Bouilly	707,956	Aug. 26	3799	833	100	1945
Head-gate	H. W. Elder	716,012	Dec. 16	2636	580	101	2418
Head or search light	H. H. Taylor	707,982	Aug. 26	3853	865	100	1955
Head-rest	W. N. Greer and H. Harris	691,854	Jan. 28	2830	640	98	641
Head-rest	W. H. Elliott	716,209	Dec. 16	3041	663	101	2503

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Head-rest. Folding	A. Rikli	697,752	Apr. 15	2550	567	99	571
Header-platforms. Mechanism for changing the elevation of	H. Green	704,632	July 15	2358	512	100	508
Header. Wrought-iron.	J. P. Sneddon	698,176	Feb. 11	1807	394	98	1195
Headers. Tilting-lever handle for	J. Macphail	716,918	Dec. 30	4513	979	101	2852
Headlight	J. R. Stanton	714,829	Dec. 2	351	77, 78	101	1908
Headlight and illuminated sign for street-cars, &c.	J. A. Duggan	714,877	Dec. 2	485	102	101	1933
Headlight cleaner. Locomotive.	D. H. Foreman	698,319	Feb. 11	2074	453	98	1251
Headlight for street-cars, &c. Adjustable	G. F. Chapman	712,260	Oct. 28	3587	784	101	789
Headlight for street-cars, &c. Adjustable	G. F. Chapman	716,518	Dec. 23	3652	797	101	2644
Headlight for street-cars, &c. Adjustable	G. F. Chapman	717,076	Dec. 30	4882	1047	101	2920
Headlight. Motor-car	C. Reinker	699,714	May 13	1124	263	99	1419
Headlight-operating mechanism	G. F. Chapman	712,433	Oct. 28	3912	856	101	859
Hearing. Appliance for assisting the	P. A. Klawns	698,713	Apr. 29	4409	973	99	999
Hearse	D. Johnston	704,340	July 8	1820	394	100	383
Heat bath. Radiant	G. Brueck	709,696	Sept. 23	3274	733	100	2701
Heat-distributing mains. Covering for	W. H. Pearce	702,991	June 24	3156	736	99	2813
Heat-distributing system	W. H. Pearce	705,287	July 22	3736	812	100	805
Heat-generator	G. S. Chase	703,540	July 1	292	67	100	59
Heat-radiating device	W. Diebel	695,674	Mar. 18	2507	569	98	2271
Heat regulating or governing apparatus.	T. Clarkson	696,799	Apr. 1	764	175	99	162
Heater:							
See Air-heater. Hot air and water or steam heater.							
Beehive-heater. Hot-water heater.							
Chafing-dish heater. Hydrocarbon-heater.							
Coal-heater. Milk-heater.							
Curling-iron heater. Oil-heater.							
Dental heater. Revolving heater.							
Electric heater. Sad-iron heater.							
Feed-water heater. Sectional heater.							
Fireplace heater. Solar heater.							
Flat-iron heater. Soldering-iron heater.							
Gas-heater. Steam-heater.							
Gas-burning heater. Tank-heater.							
Grate-heater. Tire-heater.							
Hot-air heater. Tool-heater.							
Hot-air and hot-water heater. Water-heater.							
Heater	W. M. Thomas and L. Van Scoyoc	696,773	Apr. 1	722	168	99	154
Heater	J. Damey and W. H. Cork	700,745	May 27	3206	732	99	1886
Heater	C. C. Longard	700,791	May 27	3294	756	99	1906
Heater	A. H. Humphrey	704,043	July 8	1244	268	100	262
Heater	W. E. Vanstone	704,988	July 15	3097	667	100	660
Heater	W. L. Warner	709,947	Sept. 30	3787	855	100	2819
Heater and drier	L. D. Vogel	701,822	June 3	960	213	99	2309
Heater, cooler, and storage-basket. Combined	N. F. Boniface	692,100	Jan. 28	3287	744	98	731
Heater for liquids. Flooding regenerative	E. Ahlborn	696,882	Apr. 1	932	213	99	197
Heater mounting. Electric	E. E. Gold	708,036	Sept. 2	78	18	100	1997
Heater mounting. Electric	E. E. Gold	713,211	Nov. 11	1416	320	101	1204
Heater or boiler	N. B. Wales	703,685	July 1	578	129	100	114
Heater, radiator, or stove	T. P. Keenan	707,970	Aug. 26	3833	861	100	1951
Heater section or radiator	C. H. Palmer and C. A. Carlson	710,994	Oct. 14	1124	247	101	247
Heaters. Automatic regulating device for steam-	E. B. Allen and W. B. Salmon	696,789	Apr. 1	743	170	99	160
Heating and cooking shelf. Portable	694,174	Feb. 25	3746	827	98	1629	
Heating and metal-rolling. System for continuous.	T. V. Allis	702,084	June 10	1458	327	99	2425
Heating and ventilating apparatus.	J. M. Miller	692,164	Jan. 28	3376	764	98	750
Heating and ventilating apparatus.	J. Kallgren	706,954	Aug. 12	1832	555	100	1508
Heating and ventilating device. Interdependent	J. E. Hammons	713,760	Nov. 18	2513	769	101	1448
Heating and ventilating system.	J. O. Randall	703,827	July 1	836	184	100	167
Heating apparatus.	J. A. Dezell	690,704	Jan. 7	655	143	98	138
Heating apparatus	H. M. Sturgis	696,514	Apr. 1	209	50	99	49
Heating apparatus	J. N. Young	701,241	May 27	4115	947	99	2074
Heating apparatus	M. M. Johnson	702,219	June 10	1691	381	99	2473
Heating apparatus	J. A. Klob	705,094	July 22	3313	720	100	720
Heating apparatus	F. Burger and H. M. Williams	706,796	Aug. 12	1551	347	100	1450
Heating apparatus	I. D. Smead	707,364	Aug. 19	2598	587	100	1684
Heating apparatus	E. Gerrard	707,691	Aug. 26	3258	729	100	1838
Heating apparatus	C. E. Kennedy and G. M. Cushing	714,192	Nov. 25	3383	745	101	1648
Heating apparatus	C. M. Kemp	717,214	Dec. 30	5119	1110	101	2363
Heating apparatus	A. M. Roemer	717,280	Dec. 30	5224	1335	101	3005
Heating apparatus. Electrical	J. R. Quain	703,970	July 1	1107	229	100	219
Heating apparatus. Hot-water-appliance	C. W. McCutchen	692,469	Feb. 4	434	102	98	887
Heating apparatus. House-	I. D. Smead	700,382	May 20	2500	572	99	1720
Heating apparatus. Solar	M. de la Garza	696,326	Mar. 25	3787	844	98	2550
Heating apparatus. Steam	S. G. Phillips	700,080	May 13	1826	425	99	1564
Heating apparatus. Steam	C. H. Atkins	702,352	June 10	1918	438	99	2518
Heating apparatus. Steam	W. Webster	715,716	Dec. 9	2011	451	101	2265
Heating apparatus. Water-	J. Stubbs	701,773	June 3	881	196	99	2293
Heating appliance. Electrical	R. F. Bachmann and A. Vogt	695,995	Mar. 25	3084	700	98	2403
Heating-boiler. Sectional	E. O. Haskins	707,229	Aug. 19	2350	527	100	1634
Heating boiler. Steam or water	J. Kuen and H. F. Hodges	693,870	Feb. 25	3138	694	98	1508
Heating capacity of combustibles. Determining the	S. W. Parr	700,555	May 20	2816	646	99	1787
Heating device. Electric	E. Kastner	694,018	Feb. 25	3451	762	98	1570
Heating-furnace	S. Diescher	693,120	Feb. 11	1683	366	98	1170



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Heating-furnace	M. M. Suppes and R. Crooker, Jr.	696,607	Apr. 1	387	90, 91	99	85
Heating-furnace	L. S. Baker	696,791	Apr. 1	752	171	99	160
Heating-furnace	H. J. Noyes	700,802	May 27	3313	760 761	99	1910
Heating-furnace	W. Gorman	702,722	June 17	2632	605 606	99	2688
Heating-furnace	F. H. Daniels	706,032	Aug. 5	56	12	100	1129
Heating-furnace	C. D. Hazard	711,566	Oct. 21	2252	488 489	101	498
Heating-furnace	C. I. Dailey	715,029	Dec. 2	742	157	101	1986
Heating-furnace. Continuous	H. B. A. Keiser	714,710	Dec. 2	114	23, 24	101	1861
Heating-furnace for coiled bundles	A. R. Hunt and W. Ahlen	699,528	May 6	749	175 176	99	1930
Heating furnace. Water-	H. A. Fraser	708,217	Sept. 2	413	95	100	2066
Heating granular substances. Apparatus for	C. Greene and W. M. Dollar	692,199	Jan. 28	3440	778	98	764
Heating liquid or gaseous bodies under pressure. Apparatus for	A. Prat	710,608	Oct. 7	407	84	101	81
Heating liquids. Apparatus for rapidly	H. Vanderborght	704,600	July 15	2311	502	100	498
Heating material	H. Campbell	698,835	Feb. 25	3636	677	98	1495
Heating or cooling pipe	R. Commichau	709,875	Sept. 30	3636	619	100	2787
Heating system	J. M. Cripe	697,813	Apr. 15	2663	591	99	597
Heating system	L. J. M. Rouquaud	715,514	Dec. 9	1638	351	101	2187
Heating system hot-air casing	E. J. Mallen	714,724	Dec. 2	140	28	101	1866
Heating system. Hot-water	I. D. Smead	694,206	Feb. 25	3802	840	98	1640
Heating system. Hot-water	J. Ebersole	704,009	July 8	1178	257	100	250
Heating system. Hot-water	J. A. Donnelly	701,566	Oct. 7	327	71	101	66
Heating system. Steam-	E. H. Dietrich	704,323	Oct. 15	2344	598	100	505
Heating system. Steam-	W. E. Roys	705,969	July 29	5093	1110	100	1091
Heating system. Vacuum steam-	J. R. Wade	708,101	Sept. 2	185	44	100	2020
Heating-system valve device. Steam-	J. A. Serrell	700,569	May 20	2440	652	99	1791
Heating systems. Automatic controlling device for steam-	J. H. Davis	716,850	Dec. 23	4385	950	101	2810
Heating systems. Fitting for steam-	C. A. Ball	702,336	June 10	1867	431	99	2511
Heating system. Regulating	C. G. Armstrong	716,361	Dec. 23	3328	727	101	2576
Heating systems. Valve device for steam-	J. A. Serrell and J. A. Donnelly	696,302	Mar. 25	3322	788	98	2494
Heddle-frame	T. J. Fuyat	704,455	July 8	2031	440	100	428
Heddle motion. Selvage-	J. Wilkinson	701,528	June 3	438	98	99	2199
Hedge-trimmer	A. P. Wisborg	695,259	Mar. 11	1760	390	98	2100
Heel and bottom finishing machine	W. A. Blodgett	691,104	Jan. 14	1377	313	98	302
Heel and edge trimming machine guard	E. Stratton and F. A. Cole	710,433	Sept. 30	4532	1023	100	2678
Heel. Boot or shoe	T. H. May	691,310	Jan. 28	2319	658	98	659
Heel. Boot or shoe	J. G. Rea	699,656	May 6	822	193	99	1345
Heel. Boot or shoe	F. G. Saylor	699,768	May 13	1235	287	99	1441
Heel. Boot or shoe	J. H. Jackson	702,137	June 10	1538	347	99	2443
Heel-breast-concaving machine	J. G. Buzzell	693,839	Feb. 25	3065	677	98	1494
Heel-cushion	O. Elok	699,207	May 6	316	72	99	1239
Heel cushion. Shoe-	L. Schwab	690,779	Jan. 7	791	176	98	167
Heel. Cushioned	J. H. Melavin	699,111	Apr. 29	5132	1135	99	1154
Heel. Detachable	M. L. Hansen	699,519	May 6	734	171	99	1327
Heel. Detachable cushion-	W. S. Estey	708,033	Sept. 2	74	17	100	1997
Heel. Detachable shoe-	V. A. Fabrycki	692,128	Jan. 28	3322	753	98	739
Heel for boots or shoes. Detachable	691,357	Jan. 28	2833	636	98	611	
Heel-front-abrading machine. Shoe-	J. G. Buzzell	703,991	July 8	1165	251	100	245
Heel-holder for heel-attaching machines	699,113	Apr. 29	5190	1135	99	1154	
Heel-lift. Boot or shoe	F. J. Jones	698,959	Apr. 29	4884	1078	99	1104
Heel-lift. Shoe	J. J. Jones	698,289	Apr. 22	3566	786	99	804
Heel. Metallic shoe-	H. Hellweg	703,581	July 1	366	84	100	72
Heel-nailing machine	B. F. Mayo	694,656	Mar. 4	606	133	98	1840
Heel-nailing machine	F. F. Raymond, 2d	694,665	Mar. 4	630	137	98	1846
Heel-nailing machine	B. F. Mayo	707,144	Aug. 19	2187	490	100	1598
Heel-nailing machines. Means for detaching or releasing top lifts in	E. A. Lougee	707,143	Aug. 19	2185	490	100	1597
Heel-plate. Cushion	H. F. Dernel	713,971	Nov. 18	2931	650	101	1584
Heel-rand-skiving machine	J. H. Underwood	715,907	Dec. 16	2422	586	101	2372
Heels and soles. Machine for inserting protectors in shoe	A. G. Williams	696,289	Mar. 25	3680	823	98	2537
Helices, helical springs, flexible helical shafts, &c., Apparatus for the production of flat	G. Trouvé	715,180	Dec. 2	1014	220	101	2043
Hemming apparatus. Garment-	L. Newman	710,503	Oct. 7	193	43 44 45 46 47	101	40
Hemming machine. Garment-	L. Newman	710,504	Oct. 7	205	47	101	43
Hemoglobinometer	T. W. Tallqvist	703,319	June 24	3739	861	99	2928
Hen-protector	J. F. Siems	712,339	Oct. 28	3720	813	101	818
Hexamethylenetetramin and quinic acid and making same. Salt of	G. Wichmann and M. Gabler	690,804	Jan. 7	843		98	177
Hide-coloring apparatus	A. Rigaud	691,075	Jan. 14	1334	301	98	993
Hide-scraping machine	M. Conway	710,952	Oct. 14	1042	231	101	228
Hide-securing apparatus	H. Y. B. Duff	707,559	Aug. 26	2178	672	100	1780
Hide-working machine	N. Leidgen	713,118	Nov. 11	1237	262	101	1168
Hides or skins. Machine for treating.	F. J. Perkins	696,588	Apr. 1	346	82, 83	99	76
Hides or skins. Machine for treating.	F. J. Perkins	701,080	May 27	3819	875 876 877 878 879	99	2013
Hides or skins. Machine for treating.	F. J. Perkins and F. A. Parkhurst	704,095	July 8	1349	293 294	100	282
High chair and go-cart. Combination	V. Rathknecht	710,923	Oct. 7	988	218	101	201
High chair. Combination	G. A. Learned	706,835	Aug. 12	1621	364	100	1466
High or low water alarm	C. E. Zimmermann	712,630	Nov. 4	318	75	101	965
High-potential switch	C. C. Badeau	714,436	Nov. 25	3837	849	101	1738
High-potential windings. Means for preventing breakdown of	W. S. Moody	714,934	Dec. 2	592	124	101	1953
Hinge	J. G. Smith	690,782	Jan. 7	804	178	98	169

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Hinge	J. C. Gillispie	691,620	Jan. 21	2364	532	98	525
Hinge	F. L. Barnick	692,175	Jan. 28	3392	768	98	753
Hinge	C. M. Johnson	693,546	Feb. 18	2521	555	98	1364
Hinge	R. Frank	695,453	Mar. 18	2090	471	98	2187
Hinge	C. H. Foster	696,027	Mar. 25	3103	713	98	2420
Hinge	C. H. Foster	696,028	Mar. 25	3164	713	98	2421
Hinge	M. P. Newman	698,216	Apr. 22	3443	756	99	779
Hinge	C. Dietz	698,468	Apr. 29	3884	858	99	886
Hinge	G. A. Wheeler	698,884	Apr. 29	4765	1048	99	1078
Hinge	J. M. Upton and W. S. Gray	699,737	May 13	1149	298	99	1424
Hinge	J. MacLean	700,435	May 20	2591	598	99	1788
Hinge	A. W. Brightwell	700,612	May 20	2912	670	99	1806
Hinge	S. E. Le Marr	700,694	May 20	3077	699	99	1845
Hinge	E. M. Hulse and J. B. Hoover	702,304	June 10	1822	416	99	2500
Hinge	F. Dyer	702,640	June 17	2484	570	99	2657
Hinge	C. H. McCauley	704,077	July 8	1319	288	100	276
Hinge	W. H. Thorp	704,982	July 15	3087	665	100	658
Hinge	C. H. Foster	708,214	Sept. 2	407	94	100	2965
Hinge	A. H. Hesterhagen	708,767	Sept. 9	1306	319	100	2273
Hinge	A. B. Clark	711,715	Oct. 21	2534	537	101	558
Hinge	F. F. Tryon	712,219	Oct. 28	3516	771	101	774
Hinge	G. H. Holtzmann	712,797	Nov. 4	629	144	101	1027
Hinge	H. A. Paquette	713,338	Nov. 11	1700	384	101	1262
Hinge	D. L. Hill	711,968	Oct. 28	3061	672	101	686
Hinge	F. W. L. Schafer	691,077	Jan. 14	1537	302	98	239
Hinge	C. Evans	695,602	Mar. 25	2387	599	98	2247
Hinge	G. B. Pickop	699,970	May 13	1640	376	99	1526
Hinge	G. H. Schiek	694,670	Mar. 4	639	140	98	1848
Hinge device	R. J. Irving	693,971	Feb. 25	3345	735	98	1549
Hinge	C. H. Foster	696,029	Mar. 25	3166	714	98	2421
Hinge	W. L. Evans, Jr.	701,554	June 3	498	110	99	2311
Hinge	H. E. Jackson	699,530	May 7	753	162	99	1309
Hinge	W. L. Selleck	700,251	May 20	2138	494	99	1652
Hinge for supporting and operating doors	W. L. Selleck	694,432	Mar. 4	186	41	98	1752
Hinge	V. C. Luppert	714,384	Nov. 25	3742	826	101	1720
Hinge	F. E. Sloan	714,959	Dec. 2	633	133	101	1962
Hinge	E. A. Gay	696,671	Apr. 1	521	120	99	113
Hinge	R. B. Ward	695,355	Mar. 11	1923	429	98	1332
Hinge	F. Fullam	710,051	Sept. 30	3083	891	100	2800
Hinge	G. E. Rickel and J. W. Potter	715,869	Dec. 16	2357	532	101	2359
Hinge	J. J. H. Sturmev	703,499	July 1	216	51	100	45
Hinge	F. A. E. Hamilton	702,204	June 10	1662	373	99	2467
Hinge	F. S. Brooke	707,547	Aug. 26	2952	668	100	1776
Hinge	H. J. Valentine	709,618	Sept. 23	3139	699	100	2673
Hinge	W. M. Gamble	691,757	Jan. 28	2650	593	98	604
Hinge	H. Ritter and J. H. Rowland	715,581	Dec. 23	3786	823	101	2673
Hinge	W. S. Daniels	692,633	Feb. 4	732	169	98	950
Hinge	D. S. Stimson and A. Stevenson	704,590	July 15	2293	498	100	494
Hinge	L. D. Petre	708,163	Sept. 2	302	72	100	2044
Hinge	M. W. Murray	699,698	May 13	1100	258	99	1414
Hinge	M. A. D. Kincaid	691,551	Jan. 21	2229	501	98	499
Hinge	M. C. Bersted	691,838	Jan. 28	2801	629	98	635
Hinge	A. S. Held	694,273	Feb. 25	3920	871	98	1664
Hinge	A. L. Stump and F. Brucker	695,124	Mar. 11	1517	336	98	2048
Hinge	A. J. Rosentreter	695,494	Mar. 18	2155	487	98	2200
Hinge	J. Bardsley	695,526	Mar. 18	2218	503	98	2213
Hinge	E. Bommer	695,666	Mar. 18	2493	566	98	2269
Hinge	E. Bommer	695,706	Mar. 18	2559	579	98	2281
Hinge	J. B. Howles	701,344	June 3	122	25	99	2134
Hinge	A. Skinner	702,888	June 17	2941	678	99	2752
Hinge	E. Mathis	708,896	Sept. 9	1672	385	100	2336
Hinge	C. H. Ocumpaugh	713,669	Nov. 18	2338	521	101	1408
Hinge	T. H. Penty and W. L. Bullard	704,487	July 8	2100	455	100	441
Hinge	G. H. Parker	711,785	Oct. 21	2676	590	101	588
Hinge	E. A. Moore	711,781	Oct. 21	2570	565	101	588
Hinge	P. F. Glackin	694,628	Mar. 4	537	122	98	1357
Hinge	J. Holy	704,541	July 15	2216	480	100	479
Hinged gate	B. Wolverton	708,877	July 1	927	202	100	186
Hitcher	P. K. Young	705,810	July 29	4810	1044	100	1033
Hitching appliance	C. B. Fisher and C. L. Taylor	712,920	Nov. 4	858	199	101	1072
Hitching device	J. W. Evans	694,465	Mar. 4	245	55	98	1764
Hitching device	A. H. Debord	709,473	Sept. 23	2857	642	100	2613
Hitching device	P. T. Granbery	694,375	Mar. 4	537	122	98	1357
Hitching device	A. W. Swanberg	697,038	Apr. 5	1257	280	99	286
Hitching device	D. R. Udell	715,527	Dec. 9	1668	364	101	2194
Hitching device	L. H. Abbee	705,629	July 29	4483	972	100	967
Hitching or unhitching device	S. McIntyre	690,892	Jan. 7	991	224	98	208
Hitching post	J. A. Taylor	701,964	June 10	1218	278	99	2378
Hitching post	C. C. Crider	712,912	Nov. 4	847	196	101	1070
Hitching post	A. S. Hill	715,381	Dec. 9	1389	299	101	2139
Hitching strap	A. Howard and G. F. Lum	701,298	May 27	4171	958	99	2084
Hitching weight	A. Zierleyn	704,730	July 15	2528	546	100	544
Hobby-horse	J. Seng	710,218	Sept. 30	4321	971	100	2933
Hobby-horse	J. W. Smith	715,387	Dec. 16	2386	539	101	2364
Hod	J. Dorey	714,287	Nov. 25	3580	737	101	1688
Hod elevator	C. Carlson	715,304	Nov. 11	1399	315	101	1201
Hod elevator or hoist	F. C. Dey	706,305	Aug. 5	609	132	100	1238
Hoe	G. H. Grapes	701,330	June 3	98	20	99	2129
Hoe	E. C. Lewis	702,659	June 17	2514	576	99	2663
Hoe	S. Harper	709,903	Sept. 30	3706	835	100	2802
Hoe	J. D. McCrimmon	701,600	June 3	579	127	99	2229
Hoe	O. Barrele	702,911	June 24	2984	687	99	2779



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. G.	Vol.	Page.
Hog-belly-rolling machine.	J. McClean and L. E. Phipps.	709,997	Sept. 30	8890	877	100	2841
Hog-intestines. Utilizing	P. F. Turner	691,505	Jan. 21	2158	484	98	485
Hog-killing bed	F. E. Nicholson and G. I. Blanchard.	712,579	Nov. 4	228	55, 56	101	945
Hog or cattle splitting machine	J. C. Hughes	701,345	June 3	124	25, 26	99	2184
Hog-ringer	E. E. King	711,773	Oct. 21	2655	586	101	584
Hog-trough	F. B. Davis	697,299	Apr. 8	1594	357	99	358
Hoist.	D. E. Rowland	690,774	Jan. 7	785	174	98	166
Hoist.	D. H. Morgan	693,881	Feb. 25	3165	690	98	1513
Hoist.	D. E. Rowland	697,276	Apr. 8	1664	373	99	374
Hoist.	C. Petty	703,299	June 24	3711	854	99	2923
Hoist.	E. Y. Moore	717,243	Dec. 30	5167	1120	101	2993
Hoist and conveyor	H. F. Hodges	695,050	Mar. 11	1875	302	98	2920
Hoist, &c. Fluid-pressure-actuated	E. B. Ridgway	707,015	Aug. 12	1994	493	100	1528
Hoist for unloading ships	W. E. Hutchings	700,051	May 13	1784	412	99	1555
Hoist. Pneumatic.	W. S. Halsey	693,517	Feb. 18	2460	539	98	1352
Hoist. Pneumatic	G. E. Martin	702,979	June 24	3134	720	99	2808
Hoist. Self-dumping	E. L. Ransome	694,579	Mar. 4	469	101	98	1812
Hoist. Telescopic	F. C. Weber	715,715	Dec. 9	2099	450	101	2547
Hoists or elevators. Controlling system for electric.	A. E. Macoun	704,264	July 8	1675	305	100	2511
Hoister and conveyor	G. W. Menefee	709,547	Sept. 23	3022	672	100	2619
Hoisting and conveying apparatus.	H. H. Guffin	694,378	Mar. 4	76	17, 18	98	1727
Hoisting and conveying apparatus.	G. E. Titcomb	695,592	Mar. 18	2362	535	98	2243
Hoisting and conveying apparatus.	M. A. and O. W. Callahan	710,948	Oct. 14	1035	290	101	222
Hoisting and conveying apparatus.	T. S. Miller	712,565	Nov. 2	204	48, 49	101	940
Hoisting and conveying apparatus.	W. McIntosh	714,700	Nov. 25	3475	733	101	1659
Hoisting and conveying apparatus. Driving mechanism for	W. F. Pillmore and D. Anderegg	706,105	Aug. 5	189	40	100	1155
Hoisting and conveying apparatus for long metal bars, &c.	C. H. Morgan	710,920	Oct. 7	981	216	101	199
Hoisting and conveying machine.	T. Long	698,032	Apr. 22	3059	672	99	699
Hoisting and conveying machine.	S. Jackson	701,887	June 10	1080	245	99	2350
Hoisting and conveying mechanism	W. McIntosh	713,909	Nov. 18	2796	622	101	1507
Hoisting and dumping apparatus	C. A. Morris	699,806	May 13	1306	302	99	1456
Hoisting and dumping apparatus. Tramway for	G. D. Johnstone	694,551	Mar. 4	423	91	98	1802
Hoisting and dumping device	C. Jackson	711,049	Oct. 14	1252	273	101	273
Hoisting and transporting device	W. H. Hatfield	709,905	Sept. 30	3708	896	100	2892
Hoisting apparatus	M. W. Cox	694,091	Feb. 25	3585	793	98	1597
Hoisting apparatus	D. H. Darrin and W. M. Dollar	698,465	Apr. 29	3878	856	99	584
Hoisting apparatus	S. S. Wales	699,992	May 13	1676	385	99	1533
Hoisting apparatus	E. H. Watlington	707,660	Aug. 26	3199	718	100	1826
Hoisting apparatus	C. W. Hunt	708,713	Sept. 9	1293	294	100	2355
Hoisting apparatus	A. E. White	711,806	Oct. 21	2716	600	101	597
Hoisting apparatus	C. W. Hunt	714,700	Dec. 2	37	19	101	1857
Hoisting apparatus	C. W. Hunt	714,701	Dec. 2	98	19	101	1857
Hoisting apparatus	C. W. Hunt	714,702	Dec. 2	100	19	101	1858
Hoisting apparatus	W. A. Bock	715,747	Dec. 16	2087	468	101	2301
Hoisting apparatus	C. L. Kennicott	717,215	Dec. 30	5122	1110	101	2983
Hoisting apparatus	J. W. Johnson and W. W. Scarborough.	717,410	Dec. 30	5461	1185	101	3053
Hoisting-apparatus brake	H. Vötsch	702,894	June 17	2838	653	99	2731
Hoisting-bucket.	A. E. Norris and J. Roughan	699,000	Apr. 29	4951	1096	99	1117
Hoisting-bucket.	A. E. Norris	699,343	May 6	404	93, 94	99	1256
Hoisting-bucket.	C. M. Gearing	711,489	Oct. 21	2102	455	101	466
Hoisting-bucket.	O. and J. Johnson	716,239	Dec. 16	3098	677	101	2514
Hoisting-bucket carrier	A. Wirsing	705,806	July 29	4803	1012	100	1032
Hoisting-bucket mechanism.	A. Wirsing	707,484	Aug. 19	2813	636	100	1730
Hoisting device	E. F. Atherton	702,908	June 24	2981	686	99	2778
Hoisting device	E. F. Atherton	702,909	June 24	2982	687	99	2779
Hoisting device	E. Stowell	704,232	July 8	1602	347	100	395
Hoisting device	P. Jablonowsky	709,222	Sept. 16	2320	528	100	2490
Hoisting-engine	C. Campbell	692,780	Feb. 4	990	225	98	999
Hoisting-engine dogs. Device for operating	P. Olsen	713,487	Nov. 11	1962	443	101	1317
Hoisting-engine safety apparatus	J. Karlik and M. Witte.	716,243	Dec. 16	3109	680	101	2517
Hoisting-engines. Derrick-swinging attachment for	A. Lambert.	707,851	Aug. 26	3167	816	100	1908
Hoisting-engines or elevators. Safety controller and indicator for	C. R. Allison	697,772	Apr. 15	2589	574	99	579
Hoisting-gear	F. V. Nielsen	695,830	Mar. 18	2788	635	98	2829
Hoisting-hook	S. Cowan	709,572	Sept. 23	3063	682	100	2657
Hoisting-hook for ore-buckets, &c. Safety.	H. B. Gray	705,526	July 22	4263	922	100	911
Hoisting-machine	L. T. Pyott	706,256	Aug. 5	491	105	100	1216
Hoisting-machine control device.	G. H. Reynolds	704,271	July 8	1687	367	100	354
Hoisting machinery. Mechanical brake for	E. P. Coleman and S. E. Hitt	710,757	Oct. 7	684	144	101	140
Hoisting mechanism	C. W. Carman	706,019	Aug. 5	25	6	100	1121
Hoisting or other machines. Load-brake mechanism for	H. Sawyer	715,424	Dec. 9	1470	317	101	2155
Hoisting system	E. Y. Moore	696,181	Mar. 25	3486	780	98	2486
Holdback	J. C. Joyce	692,674	Feb. 4	815	184	98	966
Holdback	R. W. Walker	696,527	Apr. 1	240	55	99	55
Holder	H. P. Jones	707,234	Aug. 19	2356	528	100	1635
Holder. Safety.	A. Raudnitz	693,065	Feb. 11	1556	340	98	1146
Holdfast	T. B. Sauer	694,996	Mar. 11	1268	277	98	1998

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Hollow or tubular articles. Apparatus for forming	J. P. Sneddon	693,175	Feb. 11	1804	394	98	1194
Hollow or tubular articles. Forming	J. P. Sneddon	693,174	Feb. 11	1802	394	98	1193
Hollow or tubular articles of irregular shape. Apparatus for forming	J. P. Sneddon	693,171	Feb. 11	1794	393	98	1193
Hollow or tubular articles of irregular shape. Apparatus for forming	J. P. Sneddon	693,178	Feb. 11	1812	395	98	1196
Hollow or tubular articles of irregular shape. Apparatus for forming	J. P. Sneddon	693,173	Feb. 11	1799	394	98	1193
Hollow or tubular articles of irregular shape. Forming	J. P. Sneddon	693,172	Feb. 11	1797	393	98	1193
Hominy huller and washer	W. J. McCaslin	695,330	Mar. 11	1887	420	98	2124
Hominy, meal, and grits drier	W. L. Burner	707,384	Aug. 19	2637	595	100	1693
Honeycomb-uncapping machine	A. C. Miller	711,223	Oct. 14	1601	343	101	347
Hoof-pad	A. C. Tappe	690,482	Jan. 7	206	41	98	45
Hoof-pad	J. Campbell	691,111	Jan. 14	1385	315	98	303
Hoof-pad	W. J. Kent	692,305	Feb. 4	150	35, 36	98	829
Hoof-pad	E. W. Powers	710,999	Oct. 14	1184	250	101	219
Hoof-pad. Antislipping	J. H. Mitchell	700,149	May 13	1962	457	99	1505
Hoof-pad. Yielding	T. Ryan	705,615	July 29	4462	967	100	964
Hoof-trimmer	A. R. Corrington	695,540	Mar. 18	2255	509	98	2220
Hoof-trimmer	H. Hufstickler	696,177	Mar. 25	3480	779	98	2485
Hoof-trimmer	W. S. Casterlin	707,822	Aug. 26	3554	803	100	1837
Hook.							
See Barrel-hook.	Harness-hook.						
Bedstead-hook.	Hoisting-hook.						
Bracket-hook.	Hose supporter hook.						
Cable-hanging hook.	Lace-hook.						
Chain-hook.	Lacing-hook.						
Chatelaine-hook.	Meat-hook.						
Chatelaine-bag	Miner's hoisting-hook.						
hook.	Pail-hook.						
Check-hook.	Picture-hook.						
Checkrein-hook.	Releasing-hook.						
Clothes-hook.	Safety-hook.						
Coat-hook.	Shelf-hook.						
Duplex hook.	Singletree-hook.						
Fish-hook.	Snap-hook.						
Fish-trap hook.	Springless hook.						
Garment-hook.	Suspension-hook.						
Grab-hook.	Type-writer-cover hook.						
Grappling-hook.	Weed-hook.						
Hame-hook.	Whiffletree-hook.						
Hat-hook.							
Hook	C. B. Johnson	695,560	Mar. 18	2295	519	98	2228
Hook	J. J. Felder	710,445	Oct. 7	82	19	101	19
Hook and eye	A. K. Phillips	690,528	Jan. 7	313	62	98	68
Hook and eye	F. H. Gorrell	691,701	Jan. 21	2516	563	98	559
Hook and eye	W. P. Conery	692,630	Feb. 4	726	168	98	948
Hook and eye	A. McNicol	694,777	Mar. 4	555	189	98	1892
Hook and eye	E. E. Chipman	699,076	Apr. 29	5076	1122	99	1143
Hook and eye	J. Fryer	699,163	May 6	66	17	99	1189
Hook and eye	L. Reaser	699,236	May 6	190	45	99	1213
Hook and eye	S. W. P. Lea	701,583	June 3	549	120	99	2222
Hook and eye	M. E. Campany	704,512	July 15	2158	467	100	468
Hook and eye	L. A. Sutherland	705,159	July 22	3451	251	100	748
Hook and eye	C. E. Devine	706,304	Aug. 5	608	132	100	1238
Hook and eye	W. Fleischer	708,034	Sept. 2	75	17	100	1997
Hook and eye	N. D. Garis	708,542	Sept. 9	977	221	100	2190
Hook and eye	J. R. Hard	709,902	Sept. 30	3705	835	100	2802
Hook and eye	D. S. Daily	710,671	Oct. 7	527	109	101	107
Hook and eye	W. H. Collins	711,826	Oct. 21	2756	610	101	694
Hook and eye	A. J. Gastren and M. M. Krepper	715,594	Dec. 9	1733	398	101	2219
Hook and eye	J. J. Morgan and J. G. Cortelyou	716,404	Dec. 23	3420	746	101	2595
Hook and eye. Safety	T. Pedersen	690,765	Jan. 7	770	171	98	163
Hook for attaching hose-supporters to corsets.	M. B. Hammond and T. P. Taylor	710,862	Oct. 7	888	193	101	180
Hook for attaching hose-supporting pads.	M. H. Eiseman	711,657	Oct. 21	2416	532	101	532
Hoop.							
See Can-hoop.	Metallic-hoop.						
Cheese-hoop.	Rolling-hoop.						
Hoop and leg-clip for tubs, &c. Combined	A. Wahle	712,623	Nov. 4	308	72	101	963
Hoop-coiling machine	A. F. Ward	716,317	Dec. 16	3226	705	101	2540
Hoop-driving machine. Barrel	W. Burkart	710,421	Oct. 7	42	10	101	11
Hoop for barrels, &c.	B. G. Jayne	695,460	Mar. 18	2103	474	98	2189
Hoop-forming machine	N. E. Brown	698,442	Apr. 29	3338	846	99	877
Hoop-iron. Supporting device for lengths of	J. McQuiston	703,449	July 1	145	32	100	31
Hoop-lug	R. B. Moore	702,024	June 10	1331	304	99	2399
Hoop-lug	P. C. Jurs, Jr.	708,233	Sept. 2	439	100	100	2071
Hoop-lug. Tank	A. J. Behrens	704,773	July 15	2610	565	100	560
Hoop-making machine	J. C. Perry	705,130	July 22	3388	734	100	735
Hoop-nailing horse. Lining	W. J. Ott	702,467	June 17	2150	490	99	2588
Hoop-tightening device	C. Hummel	691,769	Jan. 28	2670	598	98	608
Hoops. Clamp for tank or like	J. Weigel	706,137	Aug. 5	256	53	100	1171
Hoops of tanks, vats, &c. Device for tightening or loosening	C. L. Parker	700,704	May 20	3101	775	99	1849
Hop-drying box	J. W. Seavey	692,163	Feb. 11	1778	390	98	1188
Hop handling and drying apparatus	D. Wieting	715,713	Dec. 9	2016	451	101	2266
Hopper for refining engines	C. Wurster	690,504	Jan. 7	270	54	98	59
Hopper-gate and operating mechanism therefor	C. O. Johnson	711,632	Oct. 21	2372	520	101	523
Hopper or chute gate	A. Smith	698,146	Apr. 22	3303	723	99	748
Hopple. Horse	M. Klein	700,507	May 20	2741	627	99	1771



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Hopple. Horse- Hopple or pasture-halter	W. L. Morrissey	708,063	Sept. 2	118	28	100	2006
Horizontal bar	H. A. Bostwick	705,556	July 29	4350	941	100	941
Horizontal positions. Means for keeping moving objects in	T. Wallace	715,530	Dec. 9	1673	365	101	2195
Horn-fender	N. Ach.	705,731	July 29	4674	1012	100	1004
Horn-rotating mechanism	C. W. Allen	713,373	Nov. 11	1777	399	101	1278
Horn-stand.	L. Fréchet	701,183	May 27	4084	927	99	3060
Horse-apron	W. 176 Aug. 5	706,176	Aug. 5	340	73	100	1186
Horse-bandage. Race-	J. Sullivan	713,528	Nov. 11	2078	465	101	1340
Horse-boot	J. G. Haglock	715,059	Dec. 2	791	168	101	1996
Horse-breaker and starting machine.	C. B. Tuttle	694,340	Feb. 25	4112	915	98	1697
Horse-checking apparatus	J. F. Carr	696,903	Apr. 29	4797	1056	99	1085
Horse-checking device.	R. Forrest	712,290	Oct. 28	3638	785	101	799
Horse-detacher	A. P. Hansen	695,390	Mar. 11	1981	444	98	2145
Horse-detacher	J. H. Rodgers	692,357	Feb. 4	249	60	98	850
Horse-detacher	E. Casker	697,805	Apr. 15	2653	588	99	595
Horse-detacher	F. M. Hunt	698,021	Apr. 22	3044	669	99	696
Horse-detacher	E. B. Stearns	698,577	Apr. 29	4061	838	99	922
Horse-detacher	C. J. Mrsny	699,846	May 13	1399	323	99	1476
Horse-detacher	E. D. Irwin	703,587	July 1	374	86	100	74
Horse-detacher	T. P. Rumsey	710,520	Oct. 7	247	56	101	50
Horse-detacher and brake. Combined vehicle.	J. Chial	692,767	Feb. 4	970	220	98	995
Horse-holding device	M. Lopisich	704,061	July 8	1283	277	100	270
Horse-overshoe	F. Schneider	708,668	Sept. 9	1202	274	100	2236
Horse-overshoe	J. Bartlett	708,983	Sept. 16	1845	425	100	2389
Horse-overshoe	J. B. McClintock	713,366	Dec. 16	3136	487	101	2382
Horse-protector	R. M. Sobree	707,166	Aug. 19	2228	500	100	1615
Horse-starter	R. E. Sherman	713,699	Nov. 18	2398	534	101	1420
Horse-tail holder	H. E. Gavitt	697,242	Apr. 8	1599	359	99	358
Horse-training apparatus.	A. Graf	710,267	Sept. 30	4403	992	100	2951
Horses. Fastening device for driving.	P. Mayotte	701,751	June 3	847	186	99	2285
Horses' feet. Antislipping-pad for	T. F. Hayes	702,794	June 17	2763	635	99	2715
Horses from their stalls in case of fire. Device for detaching and removing	W. B. W., H. E. M., and D. J. L. Steiner	713,522	Nov. 11	2666	469	101	1338
Horses from vehicles. Device for clearing	L. L. and J. W. Fox	694,363	Mar. 4	36	8	98	1719
Horses from vehicles. Device for clearing.	L. L. and J. W. Fox	717,379	Dec. 30	5395	1173	101	3041
Horses' legs with water. Appliance for treating.	J. T. Studley	701,521	June 3	424	97	99	2195
Horses. Pad for treating shoe-boils on	R. B. Musgrave	708,902	Sept. 9	1684	1387	100	2339
Horsehair. Manufacturing artificial	F. Lehner	713,999	Nov. 18	2975	581	101	1544
Horseshoe	J. M. Myers	690,984	Jan. 14	1169	264	98	260
Horseshoe	T. F. Kenney	691,390	Jan. 21	1958	439	98	442
Horseshoe	J. R. Holland	694,917	Mar. 4	1116	246	98	1948
Horseshoe	B. F. Locraft	696,060	Mar. 25	3216	727	98	2431
Horseshoe	W. L. King	696,450	Apr. 1	103	24	99	27
Horseshoe	G. A. Luck	696,649	Apr. 1	461	107	99	99
Horseshoe	E. B. Porter	696,935	Apr. 1	561	128	99	122
Horseshoe	J. Riley	697,173	Apr. 8	1481	332	99	335
Horseshoe	D. L. Boumal	697,791	Apr. 15	2622	581	99	587
Horseshoe	E. Odell and R. Hübner	698,545	Apr. 29	4014	887	99	913
Horseshoe	C. Strube	700,159	May 13	2011	460	99	1599
Horseshoe	A. M. Meisner	700,067	May 20	3005	639	99	1839
Horseshoe	E. B. Fisk	702,296	June 10	1808	413	99	2498
Horseshoe	J. Dillon	703,123	June 24	3405	781	99	2662
Horseshoe	F. N. Cline	704,175	July 8	1523	326	100	320
Horseshoe	J. Rice	705,144	July 22	3428	744	100	743
Horseshoe	J. W. Fisher	706,543	Aug. 12	1067	235	100	1346
Horseshoe	F. Sheeley	707,454	Aug. 19	2763	636	100	1719
Horseshoe	C. A. Judson	707,594	Aug. 26	3050	687	100	1795
Horseshoe	D. B. Bangs	708,982	Sept. 16	1844	424	100	2389
Horseshoe	F. A. Schleppy	710,618	Oct. 7	431	90	101	86
Horseshoe	W. B. Merck	711,063	Oct. 14	1276	277	101	278
Horseshoe	B. F. Gosnell, Jr.	712,373	Oct. 28	3777	826	101	830
Horseshoe	G. D. Nash	713,137	Nov. 11	1270	288	101	1175
Horseshoe	A. F. Kerns	714,380	Nov. 25	3732	822	101	1718
Horseshoe	F. Kaczynski	715,387	Dec. 9	1899	301	101	2141
Horseshoe	T. F. Judge	716,901	Dec. 30	4490	973	101	2848
Horseshoe-blanks, &c. from ductile metal. Manu- facture of	C. Holt	713,219	Nov. 11	1430	323	101	1907
Horseshoe-calk	B. McKenzie	694,776	Mar. 4	855	188	98	1892
Horseshoe-calk	J. E. Cunningham	699,839	May 13	1371	318	99	1470
Horseshoe-calk	E. E. La Clair	700,057	May 13	1792	415	99	1557
Horseshoe-calk	C. D. Meitzler	713,322	Nov. 11	1673	377	101	1257
Horseshoe. Calk-equipped	A. F. Schofield	706,205	Aug. 5	393	84	100	1197
Horseshoe-calk. Removable	H. A. Kendall	710,783	Oct. 7	748	159	101	153
Horseshoe-calk sharpener	G. W. Halstead	700,640	May 20	2961	680	99	1818
Horseshoe. Cushioned	P. J. Coates	705,908	July 29	4962	1084	100	1068
Horseshoe. Elastic	W. Tharby	713,716	Nov. 18	2436	541	101	1457
Horseshoe. Elastic-tread	J. Hirsch	713,862	Nov. 18	2739	610	101	1494
Horseshoe-machine	M. J. Sinnott	698,573	Feb. 18	2583	571	98	1376
Horseshoe-machine	O. W. Siebenhaar	694,205	Feb. 25	3797	839	98	1639
Horseshoe-machine	G. F. Pilson	701,082	May 27	3830	878	99	2015
Horseshoe-machine	G. F. Pilson	701,083	May 27	3832	880	99	2016
Horseshoe-machine	M. J. Kelly	704,049	July 8	1253	270	100	263
Horseshoe. Metal and rubber	A. Riehl	696,490	Apr. 1	173	42	99	41
Horseshoe. Nailless	E. Ogbin	691,482	Jan. 21	2115	474	98	475
Horseshoe. Nailless	M. Goldberg	693,263	Feb. 11	1951	430	98	1231

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Horseshoe. Nailless.	J. W. Morse	697,155	Apr. 8	1452	326	99	328
Horseshoe. Nailless.	P. Christiansson	715,021	Dec. 2	730	155	101	1984
Horseshoe. Non-interfering	J. T. Broach	710,889	Oct. 7	847	184	101	1773
Horseshoe-pad	II. Christopher	698,904	Apr. 20	4799	1057	99	1085
Horseshoe-pad	F. W. Wood and M. R. MacPherson	708,607	Sept. 9	1092	245	100	2213
Horseshoe-pad	D. Conroy	711,475	Oct. 21	2074	449	101	460
Horseshoe-pad	H. Biles	712,641	Nov. 4	343	79	101	903
Horseshoe-pad	B. M. Moore and G. F. Ebert	716,739	Dec. 23	4061	890	101	2732
Horseshoe-pad. Removable	D. J. Cummings	715,028	Dec. 2	740	157	101	1985
Horseshoe. Rubber-tread	H. C. Frost	701,807	June 3	935	298	99	2304
Horseshoe. Soft-tread	H. D. Alexander and H. C. White.	693,942	Feb. 25	3287	723	98	1537
Horseshoe. Soft-tread	O. E. Dyson	699,873	May 6	461	108	99	1269
Horseshoe. Soft-tread	B. P. Marclej	706,768	Aug. 12	1496	332	100	1438
Horseshoe. Spring-heeled	D. Cruise	693,541	Feb. 18	2511	553	98	1362
Horseshoes. Device for altering the shape of	S. Januss	691,385	Jan. 21	1948	437	98	440
Horseshoes. Ice-sandal for flat	I. G. Howell	707,417	Aug. 19	2704	612	100	1707
Horseshoe's box	J. B. Fladby	712,298	Oct. 28	3037	734	101	2390
Horseshoeing rasp	J. P. Daggett and H. Hestand	695,285	Mar. 11	1218	103	98	2111
Hose adapted for couplings, &c. Flexible.	M. Montgomery	702,738	June 17	2657	612	99	2692
Hose and electric signaling device. Combined	H. T. Cronk	699,455	May 6	629	143	99	1306
Hose-bracket.	L. T. Foreman	713,974	Nov. 18	2935	651	101	1535
Hose-bridge	D. Smith	693,168	Feb. 11	1785	391	98	1190
Hose-bridge	G. H. Frazier, J. W. Wagner, and H. G. Isenberg.	706,815	Aug. 12	1581	355	100	1457
Hose-bridge wagon	E. Flisinger, Jr.	715,567	Dec. 9	1751	387	101	2210
Hose-clamp	F. T. Lippincott	716,072	Dec. 16	2762	609	101	2445
Hose connection	E. E. Grove	696,038	Mar. 25	3181	717	98	2424
Hose-coupling	J. J. Bowes, Jr.	690,366	May 6	446	102	99	1266
Hose-coupling	J. E. Atkinson	701,669	June 3	707	156	99	2256
Hose-coupling	G. H. Gaugherty	703,182	June 26	3512	708	99	2382
Hose-coupling	E. E. Goff	704,192	July 15	2642	571	100	567
Hose-coupling	W. A. Ford	710,768	Oct. 7	710	149	101	145
Hose-coupling	F. P. Dolen	710,850	Oct. 7	868	188	101	176
Hose-coupling	R. M. Dixon	712,775	Nov. 4	569	131	101	1014
Hose-coupling	J. F. Sargent, Jr.	714,243	Nov. 25	3483	760	101	1668
Hose-coupling	H. Grubbs	714,476	Nov. 25	3903	802	101	1751
Hose-coupling	J. Suffer, Jr.	715,621	Dec. 9	1836	408	101	2228
Hose-coupling	H. T. Crox	710,541	Dec. 9	1866	414	101	2233
Hose-coupling and automatic valve	W. H. Keller	711,771	Oct. 21	2648	583	101	583
Hose-coupling clamp	O. Iversen	693,024	Feb. 11	1475	322	98	1130
Hose-coupling dust-guard	J. H. Brown	693,781	Feb. 18	2957	652	98	1453
Hose-coupling. Electric	G. G. Weitz	696,702	Apr. 1	586	132	99	127
Hose-coupling. Electric	M. C. Goodwin	709,216	Sept. 16	2320	526	100	2489
Hose-coupling fastener	C. Frankish	701,703	June 3	766	170	99	2369
Hose-coupling retainer	W. F. Bowers	708,117	Sept. 2	215	51	100	2026
Hose-coupling. Train-pipe	A. S. Cummins and A. J. Bland	705,210	July 22	3371	773	100	774
Hose. Hydraulic or fire.	B. L. Stowe	706,466	Aug. 5	938	215	100	1305
Hose member	W. C. Anderson	690,819	Jan. 7	872	192	98	184
Hose. Metallic spiral	E. Witzemann	714,429	Nov. 25	3824	847	101	1736
Hose-nozzle	J. E. Garrison	694,365	Mar. 4	38	9	98	1720
Hose-nozzle	E. Holbrook	696,174	Mar. 25	3476	778	98	2469
Hose-nozzle	H. Gibbs	699,884	May 6	482	113	99	1273
Hose-nozzle	H. F. Neumeyer	699,554	May 6	801	189	99	1341
Hose-nozzle sprinkling attachment	G. L. Gay	691,758	Jan. 28	2051	594	98	604
Hose or like pipes. Apparatus for cleaning the interior of	S. Hyden and K. A. Simonsson.	704,045	July 8	1247	269	100	262
Hose or pipe coupling	L. Moyle	692,735	Feb. 4	1024	292	98	1007
Hose or pipe coupling	H. A. F. Petersen	706,347	Aug. 12	1646	368	100	1471
Hose-patch	J. M. Thomas and L. B. Stumph	712,019	Oct. 28	3154	690	101	704
Hose-pipe connection	G. S. Lee	713,117	Nov. 11	1236	281	101	1168
Hose-pipes, &c. Coupling for	J. Morris, Jr.	700,798	May 27	3307	758	99	1908
Hose-protector. Railway-track	H. H. Arnold	714,126	Nov. 25	3224	712	101	1616
Hose-rack	E. Cliff	699,650	May 13	1647	237	99	1399
Hose-reel	C. Wright	714,028	Nov. 25	4192	927	101	1809
Hose-reel	A. E. Wood	698,346	Apr. 22	3647	807	99	821
Hose-reel. Swiveled	J. McKee	699,221	May 6	159	39	99	1208
Hose-signal system. Electric	G. E. Le Mond	706,968	Aug. 12	1856	415	100	1512
Hose-supporter	G. G. Weitz	693,092	Feb. 11	1609	351	98	1156
Hose-supporter	J. B. Carolin	691,440	Jan. 21	2043	458	98	461
Hose-supporter	G. H. Phelps	696,911	Apr. 1	968	222	99	211
Hose-supporter	C. J. Ross	696,912	Apr. 1	990	222	99	211
Hose-supporter	C. H. Wheeler	697,049	Apr. 8	1272	282	99	289
Hose-supporter	M. Anderson	697,596	Apr. 15	2258	503	99	512
Hose-supporter	M. H. Eiseman	705,519	July 22	4215	916	100	901
Hose-supporter	M. B. Hammond	708,037	Sept. 2	80	18	100	1998
Hose-supporter	W. S. Hunkins	711,108	Oct. 14	1358	295	101	255
Hose-supporter	C. J. Ross	711,770	Oct. 21	2647	583	101	583
Hose-supporter	L. Roser, Jr.	712,968	Nov. 4	953	221	101	1092
Hose-supporter	A. H. Cohn	713,206	Nov. 11	1408	316	101	1201
Hose-supporter	F. M. Osgood	713,673	Nov. 18	2342	522	101	1409
Hose-supporter	M. H. Eiseman	715,566	Dec. 9	1751	387	101	2210
Hose, &c. Supporter for	M. Stern	717,045	Dec. 30	4767	1033	101	2306
Hose-supporter hook	M. B. Hammond	704,249	July 8	1647	356	100	349
Hose-supporter hook	M. B. Hammond	713,214	Nov. 11	1423	321	101	1205
Hose-supporter hook	M. B. Hammond	714,300	Nov. 25	3601	792	101	1692
Hose-supporter hook	M. B. Hammond	716,413	Dec. 23	3435	749	101	2598
Hose-supporter. Lady's	L. A. Negral	709,606	Sept. 23	3119	695	100	2669
Hose-terminal	H. E. McKechney	690,754	Jan. 7	754	168	98	159
Hose-thimble expander	H. W. Colby	691,446	Jan. 21	2051	559	98	462
Hosiery-machine	F. Corpelet and A. Dupré	713,609	Nov. 18	2236	497	101	1887



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. k.	Vol.	Page.
Hosiery. Manufacture of open-striped.	E. A. Hirner	699,954	May 13	1616	370	99	1522
Hosiery with lacework stripes. Manufacture of seamless	W. Wilson	702,843	June 17	2853	658	99	2734
Hot-air and gas engine. Combination	C. A. Anderson, E. A. Erickson, and J. Wickstrom.	714,353	Nov. 25	3689	812	101	1709
Hot-air and gas engine. Combined	C. A. Anderson, E. A. Erickson, and J. Wickstrom.	714,352	Nov. 25	3684	812	101	1708
Hot-air and hot-water heater for house-warming &c. Combination	D. C. Humphreys	714,698	Dec. 2	93	18	101	1857
Hot-air and water or steam heater. Combined	A. L. Logan	708,373	Sept. 2	673	152	100	2118
Hot-air apparatus for the human body	G. W. Sawyer	709,931	Sept. 30	3758	849	100	2812
Hot-air furnace	H. W. Baker	691,094	Jan. 14	1361	308	98	298
Hot-air furnace	L. Patric	692,336	Feb. 4	268	50	98	842
Hot-air furnace	W. H. Birge	698,170	Apr. 22	3349	732	99	738
Hot-air furnace	M. Lee and W. W. Bryan	700,664	May 20	3000	687	99	1827
Hot-air furnace	F. Schrader	703,006	June 24	3175	781	99	2817
Hot-air furnace	E. L. Heald	703,195	June 24	3546	815	99	2888
Hot-air furnace	G. H. Fouts	704,309	July 8	1754	383	100	369
Hot-air furnace	T. J. March	707,437	Aug. 19	2738	620	100	713
Hot-air furnace	C. H. Foster	708,215	Sept. 2	466	94	100	2463
Hot-air furnace	J. F. Krauter	708,563	Sept. 9	1006	228	100	2196
Hot-air furnace	J. Evans	713,210	Nov. 11	1414	319	101	1304
Hot-air furnace	F. I. Jones	717,502	Dec. 30	5620	1220	101	3085
Hot-air heater	M. B. Moore and G. W. Leddon	705,422	July 22	4987	873	100	865
Hot-air machine	W. P. Hartford	711,853	Oct. 21	2804	621	101	616
Hot-air register	A. Heil	716,036	Dec. 16	2677	592	101	2427
Hot-air register	L. D. Smith	691,733	Jan. 21	2570	576	98	570
Hot-air register	A. O. Jones	699,183	May 6	101	25	99	1196
Hot-air register	J. Buckman	705,202	July 22	3538	767	100	767
Hot-air register. Side-wall	G. Auer. (Reissue)	12,004	June 24	3851	886	99	2935
Hot-air wall-register	J. B. Pust	705,606	July 29	4454	965	100	962
Hot blast and smoke-consumer. Combined	E. B. Ehrlich	698,478	Apr. 29	3362	862	99	890
Hot-blast furnace	J. B. Bradford	705,640	July 29	4495	976	100	970
Hothouse construction	H. Plardeck	701,610	June 3	593	130	99	2232
Hot-plate	P. G. Van Wie	706,503	Aug. 5	994	219	100	1318
Hot-water bag stopper	E. E. Menges	713,234	Nov. 11	1450	331	101	1213
Hot-water boiler. Sectional	B. F. Behrendt	699,136	May 6	20	5,6	99	1180
Hot-water heater	F. Rohm	690,612	Jan. 7	466	101	98	109
Hot-water heater	J. D. McLinden	692,329	Feb. 4	197	47	98	840
Hot-water heater	J. A. Jacobson	711,571	Oct. 21	2259	490	101	500
Hot-water heater	O. Löbel	714,588	Nov. 25	4112	909	101	1795
Hotel-register	W. C. Loney	694,291	Feb. 25	3955	880	98	1672
Hotel-register	F. C. Klee	704,548	July 15	2228	482	100	481
House: See Apartment-house.      Portable-house. Greenhouse.                  Poultry-house. Lighthouse.                  Summer-house.							
Hub	J. C. Working	691,735	Jan. 21	2575	577	98	571
Hub	T. G. Mandt	694,292	Feb. 25	3956	880	98	1673
Hub	J. W. Blodgett	710,241	Sept. 30	4360	980	100	2941
Hub	J. C. Westbrock and J. McCasland.	711,308	Oct. 14	1871	405	101	405
Hub and axle for bicycles, &c. Elastic	F. Schmitz	711,077	Oct. 14	1309	283	101	283
Hub and brake for motor-vehicles. Combined	F. Le Flem	705,100	July 22	3329	723	100	723
Hub and spindle. Vehicle	L. D. Crandall	713,752	Nov. 18	2495	556	101	1444
Hub-attaching device	C. E. Davidson	703,643	July 1	489	110	100	96
Hub-attaching device	A. H. Worrest	705,185	July 22	3507	761	100	761
Hub-attaching device	I. F. Wood	711,888	Oct. 21	2872	635	101	639
Hub-attaching device	A. P. Simon	713,810	Nov. 18	3201	579	101	1464
Hub. Ball-bearing	D. McKay	697,525	Apr. 15	2133	474	99	475
Hub. Ball-bearing	T. R. Garnier	711,957	Oct. 28	3069	667	101	681
Hub brake. Wheel	C. Glover and N. W. Haskins	692,267	Feb. 4	98	23	98	818
Hub-drilling machine. Metallic	G. H. Everson	704,178	July 8	1534	329	100	322
Hub-dust-cap	S. T. Copenhagen	706,530	Aug. 12	1047	230	100	1342
Hub-lust-cap. Vehicle	J. E. Beebe	718,723	Nov. 18	2459	548	101	1436
Hub. Metallic wheel	W. H. Cullers, Sr.	703,347	Feb. 11	2135	468	98	1265
Hub. Pivoted	J. H. Genter	712,393	Oct. 28	3543	796	101	800
Hub-runner. Adjustable	F. O. Bailey	704,290	July 8	1725	376	100	362
Hub spindle and thimble. Combined	S. Gregory	711,395	Oct. 14	1916	417	101	414
Hub. Vehicle	E. Sendelbach	701,767	June 3	872	193	99	2290
Hub. Vehicle	J. E. Foley	702,548	June 17	2291	521	99	2617
Hub. Vehicle	E. Keen	706,957	Aug. 19	1839	411	100	1570
Hub. Vehicle	W. A. Stevens	708,421	Sept. 2	2132	468	100	2134
Hub. Vehicle	E. B. Phillips	709,241	Sept. 16	2373	538	100	2199
Hub. Vehicle	J. C. Bledsoe and A. A. Bilyeu	711,816	Oct. 21	2738	605	101	600
Hub. Vehicle	D. Morse and N. J. Lampman	715,835	Dec. 16	2268	505	101	2338
Hub. Vehicle-wheel	J. S. Layton	695,569	Mar. 18	2330	527	98	2226
Hub. Wheel	P. M. and J. P. Gundlach	693,267	Feb. 11	1988	432	98	1233
Hub. Wheel	L. T. Gibbs	700,692	May 13	1749	404	99	1570
Hub. Wheel	E. A. Royce	701,376	May 20	2488	570	99	1718
Hub. Wheel	C. Andereg	706,003	Aug. 5	3	1	100	1117
Hub. Wheel	H. N. Thayer	709,375	Sept. 16	2652	595	100	2560
Hub. Wheel	E. Nolan	710,002	Sept. 30	3890	879	100	2843
Hub. Wheel	G. Kesselring	710,984	Oct. 14	1104	243	101	242
Hub. Wheel	J. Krauss	715,087	Dec. 2	848	181	101	2010
Hubs from tubular blanks. Machine for forming wheel	E. Einfeldt	705,518	July 22	4213	916	100	900
Hubs. Machine for forming spoke-holes in	E. Einfeldt	690,906	Jan. 7	1017	229	98	212
Huller: See Hominy-huller.      Pea-huller.							
Hulling-machine	J. E. Sanders	695,120	Mar. 11	1510	335	98	2447

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Human body. Instrument for cooling or for warming internal portions of the	R. E. Smith	697,181	Apr. 8	1485	334	99	887
Human-treatment apparatus	I. J. Hartford	712,375	Oct. 28	3781	827	101	881
Hydrant	D. F. O'Brien	694,180	Feb. 25	3757	830	98	1631
Hydrant	D. F. O'Brien	694,298	Feb. 25	3665	883	98	1674
Hydrant	H. Denney	695,147	Mar. 11	1560	346	98	2059
Hydrant	W. Henderson	697,084	Apr. 8	1345	298	99	305
Hydrant	C. L. Burkhardt	713,951	Nov. 18	2888	642	101	1525
Hydrant-cap	J. P. Mern	694,170	Feb. 25	3740	826	98	1628
Hydraulic engine	A. Legg	716,254	Dec. 16	3122	684	101	2520
Hydraulic jack	W. K. Stansbury	702,501	June 17	2920	506	99	2604
Hydraulic jack	L. S. Pitcher	706,850	Aug. 12	1651	369	100	1473
Hydraulic motor	J. C. Gelly	696,809	Apr. 1	784	178	99	166
Hydraulic motor	F. Koze	699,396	May 6	515	118	99	1281
Hydraulic motor	J. I. Newburg	703,451	July 1	148	33	100	32
Hydraulic motor	C. W. Schindler and J. Freeman	704,583	July 15	2382	466	100	492
Hydraulic motor or pump and reversing-valve therefor.	W. O. Worth	690,813	Jan. 7	859	189	98	181
Hydraulic or liquid motor or pumping apparatus	F. E. Herdman	711,662	Oct. 21	2432	534	101	536
Hydraulic press	F. E. Keyes	690,968	Jan. 14	1135	535	98	253
Hydraulic press	F. Dahl	696,010	Mar. 25	3123	705	98	2411
Hydraulic press	O. Philipp	715,598	Dec. 9	1799	399	101	2320
Hydraulic press for thick fluid substances	G. von Susskind	708,180	Sept. 2	340	80, 81	100	2051
Hydraulic-press swinging table	M. Wilkes	709,285	Sept. 16	2460	555	100	2518
Hydraulic testing-machines. Automatic gage for	W. Hurrell	702,216	June 10	1655	379	99	2472
Hydrobenzaldehyde and making same	G. Merling	714,931	Dec. 2	583	191	101	1952
Hydrocarbon apparatus	D. F. O'Brien	694,179	Feb. 25	3753	827	98	1630
Hydrocarbon-burner	S. E. Farraday and J. H. Goss	692,839	Feb. 11	1105	247	98	1050
Hydrocarbon-burner	G. A. Bonelli	693,225	Feb. 11	1918	417	98	1217
Hydrocarbon-burner	J. M. and L. P. Beech	693,682	Feb. 18	2786	613	98	1118
Hydrocarbon-burner	S. D. Mott	695,223	Mar. 11	1702	377	98	2088
Hydrocarbon-burner	C. W. Poole	696,591	Apr. 1	1352	84	99	718
Hydrocarbon-burner	L. C. Graessle	696,961	Apr. 8	1121	249	99	258
Hydrocarbon-burner	R. Witty	699,053	Apr. 29	5040	1114	99	1136
Hydrocarbon-burner	R. H. Fullaway	699,380	May 6	474	111	99	1272
Hydrocarbon-burner	J. F. Hardy	700,914	May 27	3524	809	99	1950
Hydrocarbon-burner	G. R. Elliott	701,026	May 27	3742	857	99	1997
Hydrocarbon-burner	C. J. Johnson	701,347	June 3	127	29	99	2135
Hydrocarbon-burner	A. Mende	702,449	June 17	217	481	99	2384
Hydrocarbon-burner	H. C. Martin	704,835	July 15	2846	616	100	610
Hydrocarbon-burner	J. F. Higgins	705,530	July 22	4272	924	100	913
Hydrocarbon-burner	M. W. Morgan	705,948	July 29	5059	1101	100	1084
Hydrocarbon-burner	W. R. Jeavons	706,064	Aug. 5	124	25	100	1142
Hydrocarbon-burner	A. A. Arnott	706,486	Aug. 5	968	212	100	1312
Hydrocarbon-burner	C. T. Pepper	707,001	Aug. 12	1908	427	100	1322
Hydrocarbon-burner	J. W. Neumann	708,389	Sept. 2	690	157	100	2123
Hydrocarbon-burner	W. N. Best	708,453	Sept. 2	813	185	100	2147
Hydrocarbon-burner	E. Betz	709,387	Sept. 16	2674	600	100	2564
Hydrocarbon-burner	W. H. Stewart	709,443	Sept. 16	2775	625	100	2585
Hydrocarbon-burner	L. K. Leahy	709,782	Sept. 23	3450	776	100	2736
Hydrocarbon-burner	S. Berens	710,410	Oct. 7	23	5, 6	101	7
Hydrocarbon-burner	B. N. Hawes	711,855	Oct. 21	2807	622	101	616
Hydrocarbon-burner	C. F. Jenkins	711,925	Oct. 21	2962	652	101	647
Hydrocarbon-burner	F. L. Carter	711,936	Oct. 28	2991	658	101	672
Hydrocarbon-burner	C. R. Kittle and G. E. Harpham	712,142	Oct. 28	3387	742	101	749
Hydrocarbon-burner	D. C. Wilgus	712,879	Nov. 4	780	181	101	1057
Hydrocarbon-burner	F. A. Reynolds	713,494	Nov. 11	1981	448	101	1321
Hydrocarbon-burner	H. R. Searing	713,697	Nov. 18	2394	534	101	1420
Hydrocarbon-burner	J. H. Morrissey	713,902	Nov. 18	2787	619	101	1505
Hydrocarbon-burner	A. Macleod	714,722	Dec. 2	137	27	101	1865
Hydrocarbon-burner	J. M. Wishart	714,985	Dec. 2	682	142	101	1972
Hydrocarbon-burner	H. B. Cary	715,549	Dec. 9	1722	380	101	2204
Hydrocarbon-burner	A. F. Chace	715,639	Dec. 9	1862	413	101	2233
Hydrocarbon-burner	J. M. and L. P. Beech	716,174	Dec. 16	2949	648	101	2483
Hydrocarbon-burner	H. L. Warner and W. H. Lonsdale	716,497	Dec. 23	3596	684	101	2634
Hydrocarbon-burner for stoves or furnaces	G. A. Greene	708,343	Sept. 2	143	110	210	110
Hydrocarbon-burner igniting device	G. Lane	707,852	Aug. 26	3620	816	100	1908
Hydrocarbon-burner. Retort.	A. D. Duncan and W. H. Wafer	702,638	June 17	2479	568	99	2656
Hydrocarbon-burner vapor-generating apparatus	T. J. Forde	707,689	Aug. 26	3247	728	100	1835
Hydrocarbon burning apparatus. Liquid	W. H. and G. E. Russell	708,258	Sept. 2	487	111	100	2080
Hydrocarbon composition	B. B. Clawson	692,627	Feb. 4	723	101	98	947
Hydrocarbon-engine	A. D. Blanchard	690,610	Jan. 7	463	100	98	99
Hydrocarbon-heater	A. A. Low	710,108	Sept. 30	4102	926	100	2884
Hydrocarbon in portable reservoirs. Means for producing pressure on the	J. G. Branch	694,305	Feb. 25	3974	885	98	1677
Hydrocarbon incandescent burner. Liquid	A. Albrecht	712,352	Oct. 28	3746	819	101	822
Hydrocarbon-lighting system	F. A. and R. D. Cody	702,406	June 17	2026	462	99	2569
Hydrocarbon-motor	W. J. Still	708,502	Sept. 2	903	203	100	2165
Hydrocarbon-motor. Double-cylinder	F. Dürr	699,503	May 6	707	164	99	1322
Hydrocarbon-motor feed-controlling mechanism	W. W. Tuck and A. Wassmann	710,087	Sept. 30	4058	914	100	2876
Hydrocarbon-motors. Electromagnetic regulator for admission-valves of	A. C. Krebs	691,638	Jan. 21	2402	540	98	534
Hydrocarbon-vapor burner	L. G. Heist	702,553	June 17	2298	523	99	2619
Hydrocarbon-vapor burner	J. Johnston	708,591	July 1	379	87, 88	100	75
Hydrocarbon-vapor burner	E. Le Feller	705,338	July 22	3633	890	99	796
Hydrocarbon-vapor burner. Liquid	A. Blanchard	711,918	Oct. 21	2944	648	101	644
Hydrocarbon-vapor-burning apparatus	A. B. Macklin	707,517	Aug. 19	2875	652	100	1743



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Hydro-extractor. Continuous	L. Atwood	700,112	May 13	1888	498	90	1576
Hydrogen chloride and sodium sulfate. Making	T. Meyer	702,877	June 17	2917	.....	99	2747
Hydrogen dioxide. Making	P. L. Hulin	692,189	Jan. 28	3342	.....	98	744
Hydrogen sulfid. Making	H. H. Wing	690,592	Jan. 7	3923	.....	98	58
Hydrostatic press.	W. D. Butz	710,032	Sept. 30	3558	893	100	2856
Hydrostatic presses. Regulating means for	A. W. French	715,365	Dec. 9	1363	294	101	2134
Hydro-sulfites. Making	M. Bazlen	692,760	Feb. 4	957	.....	98	994
Hypodermic-needle-cleaning device	G. Porter	715,290	Dec. 9	1214	260	101	2163
Ice, &c. Apparatus for elevating or conveying and transferring	E. A. Wright	707,487	Aug. 19	2816	637	100	1731
Ice, &c. Apparatus for elevating or conveying and transferring	E. A. Wright	707,488	Aug. 19	2819	637	100	1731
Ice, &c. Apparatus for elevating or conveying and transferring	E. A. Wright	707,489	Aug. 19	2822	638	100	1732
Ice. Apparatus for manufacturing plate	E. Barrath	706,511	Aug. 12	1012	223	100	1836
Ice. Apparatus for the manufacture of plate or block	E. Barrath	710,656	Oct. 7	498	104	101	101
Ice blocks. Apparatus for manufacturing	G. F. Buckingham	695,907	Mar. 25	2953	674	99	2374
Ice-box cover	T. F. Secor	698,564	Apr. 29	3040	894	99	918
Ice-box. Folding	D. F. Rogers	696,754	Apr. 1	679	153	99	145
Ice-breaker	C. Hilbert	704,801	July 15	2676	578	100	572
Ice-can	F. D. Swaney	705,883	July 29	4942	1074	100	1099
Ice-can	L. Block	710,662	Oct. 7	511	107	101	104
Ice-carrier	R. Bradley	707,818	Aug. 26	3544	799	100	1895
Ice-case. Transportable	W. Wolf	691,030	Jan. 14	1276	289	98	282
Ice-clipping machine	W. H. Beenk and V. Reinhold	712,637	Nov. 4	336	78	101	968
Ice-conveyer gallery. Sectional.	T. M. Lynch and H. Huey	695,466	Mar. 18	2113	476	98	2191
Ice-cream cabinet	J. Hurley	699,179	May 6	96	24	99	1195
Ice-cream can	R. Bauers	705,551	July 29	4345	939	100	940
Ice-cream dipper	E. C. Baughman	708,987	Sept. 16	1851	428	100	2391
Ice-cream disher	W. G. Bahl	698,360	Feb. 18	162	475	98	1290
Ice-cream disher	G. W. Sherer	697,677	Apr. 15	2415	537	99	542
Ice-cream disher	W. J. Bolland	714,440	Nov. 25	3842	850	101	1739
Ice-cream disher and mold	W. Maxwell	718,997	Nov. 18	2779	618	101	1593
Ice-cream freezer	J. A. Snigo	690,532	Jan. 2	318	93	98	69
Ice-cream freezer	E. R. Morse	692,059	Jan. 24	3262	729	98	714
Ice-cream freezer	E. R. Schlick	692,551	Feb. 2	590	138	98	918
Ice-cream freezer	B. Kuhl	694,973	Mar. 11	1231	269	98	1990
Ice-cream freezer	E. A. Soper	698,574	Apr. 29	4054	897	99	921
Ice-cream freezer	E. C. Werner	700,591	May 20	2875	660	99	1799
Ice-cream freezer	H. Mosebach, Jr.	701,370	June 3	155	33,34	99	2140
Ice-cream sandwiches. Machine for making	L. Weglein, Jr.	696,778	Apr. 1	730	165	99	156
Ice-cream-shipping vessel	F. D. Simpson	697,405	Apr. 15	2081	461	99	476
Ice-creper. Adjustable	J. H. Downer	710,187	Sept. 30	4259	960	100	2918
Ice-crusher for refrigerators	F. H. Nichols	708,773	Aug. 12	1504	334	100	1440
Ice cutting or shaving machine	F. H. Lippincott	706,073	Aug. 5	142	30	100	1146
Ice holder. Crushed	J. S. Callen	696,162	Mar. 25	3450	773	98	2481
Ice into cubes or blocks. Machine for sawing	J. S. Duncan	694,260	Feb. 25	3898	865	98	1660
Ice machine	T. H. Butler and O. Hammond	691,285	Jan. 14	1619	370	98	353
Ice-machine press	D. L. H. Iden	701,882	June 10	1073	243	99	2248
Ice-making apparatus	J. Humes	690,956	Jan. 14	1106	250	98	247
Ice-making apparatus. Automatic skimming-regulator for	A. O. Frick	702,856	June 17	2879	665	99	2740
Ice-making machine	R. F. Learned	714,494	Nov. 25	3929	870	101	1755
Ice-making machines. Congealing body or plate for	E. Barrath	705,015	July 22	3159	682	100	690
Ice. Manufacturing	S. N. Smith	703,314	June 24	3730	890	99	926
Ice-manufacturing apparatus	S. N. Smith	703,315	June 24	3731	860	99	287
Ice-manufacturing apparatus	S. N. Smith	703,333	June 24	3821	878	99	2947
Ice. Manufacturing artificial	E. Barrath	704,772	July 15	2609	565	100	560
Ice. Manufacturing plate	E. Barrath	706,510	Aug. 12	1011	282	100	1335
Ice-pick	W. G. Browne	690,829	Jan. 7	889	197	98	188
Ice-plane	H. Bodenstein	715,955	Dec. 16	2529	556	101	2394
Ice-planing knife	H. Bodenstein	715,956	Dec. 16	2530	556	101	2395
Ice-run	H. D. Simpson	703,314	Sept. 23	3192	847	100	2748
Ice-runway	F. H. and C. H. Eichhorn and F. P. Dernel	704,450	July 8	3029	439	100	425
Ice-saw	C. Stein	711,794	Oct. 21	2692	593	101	591
Ice-tongs	J. A. McMasters	698,730	Apr. 29	4434	970	99	1004
Ice-tray	T. W. Henning	699,319	May 6	354	83	99	1246
Iceed goods. Drier for bakery or similar	F. L. Wetzel	714,420	Nov. 25	3899	841	101	1732
Iceing. Apparatus for holding cakes during the process of	C. A. Thomson	716,788	Dec. 23	4158	911	101	2752
Iceing-frame truck	F. L. Wetzel	714,417	Nov. 25	3799	839	101	1731
Iceing or coating of bakery products. Machine for facilitating the	F. L. Wetzel	714,419	Nov. 25	3892	840	101	1732
Iceing or coating of cakes, biscuit, &c. Apparatus for facilitating the	F. L. Wetzel	714,418	Nov. 25	3890	839	101	1731
Identification device	C. A. Hyde	697,846	Apr. 15	2715	603	99	608
Identification-tag	C. Scott	703,008	June 24	3178	732	99	2817
Identifying device	I. L. Wilber	692,173	Jan. 28	3390	768	98	753
Identity-indicating device	C. W. Smith	695,584	Mar. 18	2350	533	98	2240
Igniter	C. C. and E. A. Riotte	696,147	Mar. 25	3427	709	98	2976
Igniter	C. A. Wilkinson	704,417	July 8	1952	423	100	411
Igniter. Electric	A. H. Humphrey	705,672	July 29	4559	990	100	983
Igniter for motors. Electric	C. C. Reid	694,991	Mar. 11	1259	275	98	1996
Igniter. Revolving electric	W. A. Maybach	695,321	Mar. 11	1873	417	98	2122
Igniter. Self	A. G. Ronan	708,080	Sept. 2	149	36	100	2011
Igniting device. Electrical	S. Waterman	708,279	Sept. 2	523	119	100	2088
Igniting plug	C. A. Holdridge	713,305	Nov. 11	1653	371	101	1251
Ignition apparatus. Electrical	H. T. and E. A. Dawson	690,640	Jan. 7	535	115	98	112
Ignition-arch	J. P. Sneddon	690,473	Jan. 7	181	14	99	2181
Ignition device. Electric	A. R. Mosler	698,042	Apr. 22	3078	678	99	702
Ignition-plug for explosive-motors	J. B. Boisselot	692,975	Feb. 11	1404	304	98	1114

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. lg.	Vol.	Page.
Ignition system	F. L. Gregory	696,885	Apr. 1	940	214	99	198
Illuminating and heating burner. Combination	V. K. Coffill	690,700	Jan. 7	645	141	98	136
Illuminating compound	G. E. J. Street	695,123	Mar. 11	1517		98	2048
Illuminating structure	F. L. O. Wadsworth	693,088	Feb. 11	1602	349	98	1155
Illuminator	W. Harvey	702,649	June 17	2495	572	99	2659
Illusion apparatus	W. L. Hall	709,764	Sept. 23	3411	766	100	2727
Illusion apparatus	A. W. Booraem and F. T. Howard	713,958	Dec. 16	2525	357	101	2305
Illusion apparatus	A. W. Booraem and F. T. Howard	713,959	Dec. 16	2526	357	101	2305
Illustrating apparatus	F. S. Newman	701,374	June 8	161	35.36	99	2141
Image-projecting apparatus	C. W. Carman	707,084	Aug. 19	2076	463	100	1574
Impact-engine	N. Gilpatrick	698,271	Apr. 22	3538	780	99	799
Impact-engine	W. E. Prall	713,798	Nov. 18	2579	575	101	1461
Implement. Pocket	J. Taylor and J. Robinson	699,987	May 13	1671	383	99	1532
Implement-seat	J. G. Wangerin	709,619	Sept. 23	3111	699	100	2673
Impressing-machine	C. Carlton	714,667	Dec. 2	24	6	101	1842
Impressions. Device for making	D. L. Falardeau	705,381	July 29	4841	1051	100	1040
Incandescent burner	T. M. Jamison	711,321	Oct. 14	1784	385	101	386
Incandescent burner-head	T. Gordon	712,130	Oct. 28	3367	738	101	745
Incandescent burner mantle	D. J. Prendergast and V. H. Slinack	697,361	Apr. 8	1894	404	99	404
Incandescent burner. Welsbach or other	V. H. Slinack	699,251	May 6	2255	53	99	1221
Incandescent burner. Welsbach or other	T. Stites	700,157	May 13	2008	460	99	1599
Incandescent gas-mantles. Manufacturing	J. T. Robin	713,573	Nov. 11	2162	484	101	1355
Incandescent light burner. Petroleum	M. Bramson	709,198	Sept. 16	2289	519	100	2481
Incandescent lighting device	M. D. Hooker and W. H. Birchmore	690,578	Jan. 7	403	83	98	87
Incandescent-mantle support	J. F. Bredow	694,347	Mar. 4	12	3	98	1715
Incandescent-mantle support	M. Herskovitz	705,245	July 22	3649	790	100	789
Incandescent mantles. Apparatus for burning and seasoning	W. Mackenz and E. Walker	712,821	Nov. 4	667	154	101	1034
Incandescent mantles. Machine for producing	J. T. Robin	713,572	Nov. 11	2159	488	101	1355
Incandescent mantles. Manufacture of	G. H. Maisch	712,562	Nov. 4	200		101	939
Incandescent mantles. Manufacturing	G. Buhlmann	698,102	Apr. 22	3206	702	99	730
Incandescent mantles. Means for transporting	J. F. Bredow	691,889	Jan. 28	2894	630	98	635
Incline or transfer. Adjustable	A. J. Tullock, R. Modjeski, and B. B. Carter	693,340	Feb. 11	2116	465	98	1201
Inclined elevator	J. W. Reno	696,193	Mar. 25	3508	785	98	2489
Inclined elevator	J. W. Reno	708,663	Sept. 9	1196	273	100	2235
Incrustation preventive	E. Holm	699,684	May 13	1074		99	140
Incubator	V. S. Bell	691,837	Jan. 28	2799	620	98	634
Incubator	W. P. Hall	692,277	Feb. 4	113	26.27	98	822
Incubator	A. J. Moore	704,560	July 15	2216	486	100	455
Incubator	F. Krupicka	704,841	July 15	2751	595	100	589
Incubator	O. P. Scott	709,650	Sept. 23	3191	712	100	2683
Incubator	L. P. Meister	711,433	Oct. 14	1982	430	101	427
Incubator	I. Morrow	714,596	Nov. 25	4122	912	101	1737
Incubator	C. E. Adair	714,653	Dec. 2	1	1	101	1837
Incubator	N. E. and L. V. S. Conover	716,670	Dec. 23	3947	863	101	2708
Incubator alarm attachment	R. H. Stevens, Jr	695,245	Mar. 11	1734	384	98	2095
Incubator heating and ventilating system	G. R. Adams	716,652	Dec. 23	3921	856	101	2702
Indented and perforated material	H. Parker	691,804	Jan. 28	2739	518	98	621
Index	H. J. Van Gelder	717,145	Dec. 30	4359	1076	101	2947
Index and stencil-frame. Combined card	J. S. Duncan	692,995	Feb. 11	1439	318	98	1121
Index. Book	J. T. Gale	713,869	Nov. 18	2707	605	101	1486
Index-cabinet	R. W. Dickenson. (Reissue)	12,011	July 15	3145	679	100	671
Index. Card	G. G. Hakes	705,343	July 22	3893	842	100	836
Index. Cross	R. L. Hunter	708,479	Sept. 2	658	196	100	2155
Index. Cross	R. L. Hunter	710,779	Oct. 7	741	157	101	152
Index. Ledger	S. McMullen	695,236	Mar. 11	1706	378	98	2089
Index rod. Card	D. E. Hunter	711,110	Oct. 14	1362	296	101	296
Index-rod lock. Card	E. W. Woodruff	712,166	Oct. 28	3426	730	101	736
Index system. Card	I. B. Hendrickson	715,799	Dec. 16	2193	490	101	2322
Index systems. Locking device for card	D. E. Hunter	715,807	Dec. 16	2216	494	101	2326
Index systems, &c. Locking mechanism for card	D. E. Wright	709,843	Sept. 23	3557	802	100	2759
Indexes and printing-plates. Holder for card	J. S. Duncan	692,994	Feb. 11	1437	312	98	1120
Indicating device	C. A. Christian	706,528	Aug. 12	1044	220	98	1341
Indicating instrument	L. T. Robinson	701,937	June 10	1162	267	99	2367
Indicator							
See Boiler-indicator.	Pilot-house indicator.						
Car and railway indicator.	Power-indicator.						
Indicator.	Railway-indicator.						
Car-route indicator.	Range-indicator.						
Car street indicator.	Revolution-indicator.						
Depth and inclination indicator.	Revolving indicator.						
Electrical position-indicator.	Ship's-course indicator.						
Engine-indicator.	Speed-indicator.						
Fare-indicator.	Station-indicator.						
Filling-indicator.	Steam-pressure indicator.						
Game-indicator.	Store-indicator.						
Grain-flow indicator.	Switch-indicator.						
Lamp liquid-level indicator.	Synchronism-indicator.						
Load-indicator.	Tank-indicator.						
Lubricant-indicator.	Test-indicator.						
Mail-box indicator.	Time-indicator.						
Odds-indicator.	Tonnage-resistance indicator.						
Office-indicator.	Track-indicator.						
Phonograph time-indicator.	Water-level indicator.						
Indicator	R. A. Wood	691,998	Jan. 28	3084	693	98	691
Indicator	E. V. Beals	698,356	Apr. 22	3671	811	99	826
Indicator	J. S. Baughman	702,913	June 24	2987	688	99	2790



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Indicator.....	T. F. McCullough.....	710,294	Sept. 30	4447	1002 (1003)	100	2960
Indicator.....	J. L. Crawford.....	713,069	Nov. 11	1138	261	101	1146
Indigo and intermediate products. Making.....	B. R. Seifert, C. Philipp, and M. H. Gmner.....	714,042	Nov. 18	3066		101	1564
Indigo from indol. Making.....	P. Seidel.....	698,328	Apr. 22	3624		99	816
Indigo. Making.....	T. Sandmeyer.....	697,545	Apr. 15	2168		99	492
Indigo. Making resist-white under.....	A. J. Stieglmann.....	699,083	Apr. 20	5006		99	1128
Indigo paste.....	P. Seidel.....	692,720	Feb. 4	888		98	981
Indigo. Purifying raw.....	B. Homolka.....	702,730	June 17	2643		99	2690
Indigo-vats. Preparing.....	A. W. Plaine.....	715,213	Dec. 2	1075	231	101	2057
Indoxyl and making same. Substituted.....	J. O. Henze.....	713,437	Nov. 11	1875		101	1299
Indoxyl. &c. Making.....	B. Homolka and O. Liebknecht.....	704,804	July 15	2681		100	573
Indoxyl. Making.....	B. Homolka and F. von Bolzano.....	712,798	Nov. 4	630		101	1027
Indoxyl. Making.....	O. Liebknecht and B. Homolka.....	714,000	Nov. 18	2977		101	1544
Inductance-coil.....	F. Dolezalek.....	716,206	Dec. 16	3085	662	101	2502
Induction apparatus.....	W. Scheidel.....	702,032	June 10	346	307	99	2402
Induction-coil.....	J. S. Clawson, Jr.....	709,485	Sept. 23	2461	648	100	1369
Induction-coil.....	M. S. Clawson.....	711,695	Oct. 21	2499	548	101	551
Induction-coil. Balanced-circuit.....	J. P. Alexander.....	716,653	Dec. 23	3923	857	101	2708
Induction-coil or like instrument.....	O. H. Huebel.....	717,203	Dec. 30	5101	1106	101	2978
Induction-motor.....	C. P. Steinmetz.....	714,412	Nov. 25	3790	837	101	1729
Inflatable article.....	C. W. Curlin.....	691,118	Jan. 14	1396	317	98	305
Inflatable devices. Closure for.....	W. F. Lott.....	717,229	Dec. 30	5146	1116	101	2988
Inflatable wheel. Puncture-proof.....	A. Honrath.....	709,394	Sept. 16	2534	1571	100	2394
Ingot. Compound.....	S. A. Cosgrave.....	694,618	Mar. 4	541	118	98	1828
Ingot-heating furnace.....	V. E. Edwards and P. B. Morgan.....	691,840	Jan. 28	2821	633	98	639
Ingot-mold.....	J. E. Sweet.....	707,279	Aug. 19	2450	550	100	1654
Ingot or billet heating furnace.....	J. B. Nau.....	694,569	Mar. 4	455	98	1810	
Ingot stripping and handling mechanism.....	S. T. and C. H. Wellman and J. McGeorge.....	713,029	Nov. 4	1051	245	101	1111
Ingot and mold therefor. Manufacture of compound.....	S. A. Cosgrave.....	694,731	Mar. 4	763	169	98	1872
Ingot. Piercing and shaping metallic.....	L. D. Davis.....	697,988	Apr. 22	2993	659	99	684
Inhaler.....	E. Stevens.....	699,255	May 6	233	55	99	1221
Inhaler.....	E. M. Morgan.....	702,144	June 10	1551	351	99	2415
Inhaler.....	C. H. Myers.....	705,117	July 22	3361	728	100	730
Inhaler.....	J. F. Breen.....	706,015	Aug. 5	20	5	100	1120
Inhaler.....	J. H. McCulloch.....	707,445	Aug. 19	2749	622	100	1716
Inhaler.....	C. W. Taylor.....	712,979	Nov. 4	966	225	101	1095
Inhaler.....	S. A. Morse.....	717,436	Dec. 30	5507	1195	101	3063
Inhaler. Ozone.....	R. F. W. Smith.....	695,658	Mar. 18	2482	564	98	2267
Inhaler. Pocket.....	H. J. Valentine.....	697,117	Apr. 8	1386	308	99	315
Inhaler with nasal attachment.....	G. H. Maurer.....	700,528	May 20	2778	635	99	1779
Inhaling apparatus. Portable.....	J. Planeur and L. Dutremblay.....	700,282	May 20	2188	500	99	1658
Injector.....	W. D. Labadie.....	693,553	Feb. 18	2530	557	98	1366
Injector.....	R. D. and J. C. Metcalfe.....	714,217	Nov. 25	3433	755	101	1657
Injector. Automatic.....	C. B. Allen.....	697,770	Apr. 15	2585	573	99	578
Injector-burner.....	W. Plotts.....	698,553	Apr. 29	3029	890	99	91
Injector-burner.....	J. Reagan.....	715,420	Dec. 9	1438	314	101	2153
Injector. Needle-valve.....	V. Gretter.....	693,645	Feb. 18	2719	600	98	1405
Injector. Steam.....	J. Desmond.....	708,323	Sept. 2	603	137	100	2104
Ink-bottle holder.....	E. G. Soltmann.....	714,827	Dec. 2	349	77	101	1907
Ink. Copying.....	E. P. Lawton.....	690,862	Jan. 7	937		98	197
Ink-eradicator.....	H. Mock.....	716,567	Dec. 23	3790		101	2688
Ink-pad box.....	T. Waring.....	705,610	July 29	4153	966	100	902
Ink-receptacle.....	J. Quartz, Jr.....	713,546	Nov. 11	2109	472	101	1346
Inkstand.....	L. I. Perry.....	690,766	Jan. 7	771	171	98	163
Inkstand.....	J. L. Kerstetter.....	691,721	Jan. 21	2545	570	98	565
Inkstand.....	J. V. La Grange.....	695,402	Mar. 11	2004	449	98	2151
Ink-well.....	L. M. Dyer and A. B. Colhoun.....	690,643	Jan. 7	530	116	98	113
Ink-well.....	G. Doherty.....	690,843	Jan. 7	907	202	98	192
Ink-well.....	G. H. Bruce.....	705,435	July 22	4143	904	100	885
Ink-well.....	J. F. Mentzer.....	706,329	Aug. 5	355	142	100	1247
Ink-well.....	S. G. Baldwin.....	709,133	Sept. 16	2156	494	100	2455
Ink-well.....	J. D. Dickson.....	710,250	Sept. 30	4938	980	100	2948
Ink-well.....	W. S. Claypool.....	715,984	Dec. 16	2574	569	101	2405
Ink-well. Automatic.....	A. M. Tyler.....	711,684	Oct. 21	2476	545	101	546
Ink-well. Suspended.....	M. Behrman.....	713,195	Nov. 11	1387	312	101	1198
Inking apparatus.....	H. A. Wood.....	701,130	May 27	3081	896	99	2305
Inking apparatus.....	L. B. Woodruff and F. E. Caton.....	705,184	July 22	3945	760	100	760
Inking-pad.....	J. B. Loughton.....	710,690	Oct. 7	572	120	101	117
Inking-ribbon spools. Box for.....	M. H. Chapin.....	696,132	Mar. 25	3373	761	98	2466
Inlet and catch-basin.....	H. Wheeler.....	699,260	May 6	250	60	99	1267
Insect-destroyer.....	D. J. Manning.....	691,309	Jan. 28	2918	658	98	639
Insect-destroyer.....	R. A. McCrone.....	694,882	Mar. 4	1233	293	98	1284
Insect-destroyer.....	S. A. Wood.....	701,310	June 3	507	112	99	2218
Insect-destroyer.....	C. T. Parrish.....	707,629	Aug. 26	3115	701	100	1840
Insect-destroyer.....	J. A. Yearout.....	712,889	Nov. 4	801	186	101	1061
Insect-destroying apparatus.....	R. Joost and B. T. George.....	692,672	Feb. 4	812	184	98	966
Insect-destroying compound.....	J. H. Lester.....	709,783	Sept. 23	3452		100	2737
Insect-destroying machine.....	C. V. Dyer and W. S. Willette.....	698,187	Apr. 23	3384	741	99	706
Insect-destroying machine.....	C. V. Dyer and W. S. Willette.....	708,708	Sept. 9	1362	290	100	2248
Insect-exterminator.....	M. A. Bierley.....	701,362	June 3	147	31	99	2130
Insect-guard.....	O. H. Watkins.....	694,901	Mar. 4	1084	299	98	1941
Insect parasites from vines or plants. Machine for removing.....	J. Brakeley.....	695,275	Mar. 11	1784	395	98	2105
Insect-powder. Device for smokelessly heating.....	J. C. Searle.....	692,075	Jan. 28	3329	729	98	720
Insect-repellent.....	J. C. Kessler.....	708,649	Sept. 9	1168		100	2240
Insect-screen.....	A. Frankel.....	715,508	Dec. 9	1753	388	100	2210
Insect-trap.....	H. A. Bierley.....	704,293	July 8	1730	377	100	363
Insect-trap.....	J. Rothweiler.....	713,803	Nov. 18	2589	576	101	1462
Insecticide and fertilizer.....	J. A. Emig and J. G. Krout.....	704,013	July 8	1188		100	232

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Insecticide-distributor	A. S. Lee	691,948	Jan. 28	2991	672	98	674
Insecticide-distributor for planters	H. Swindler	716,142	Dec. 16	2891	673	101	2472
Insecticides and fungicides to trees, &c. Machine for applying dust	J. J. Kiser	714,802	Dec. 2	305	66	101	1899
Insole	A. C. Rounds	707,642	Aug. 26	3144	707	100	1815
Insole	H. and J. R. Campbell	715,754	Dec. 16	2098	470	101	2303
Insole-making machine	A. B. Fowler	701,191	May 27	4029	925	99	2059
Instep-arch supporter	G. N. Phelps	692,338	Feb. 4	212	51	98	843
Insulator	E. C. Campbell	693,587	Feb. 18	2608	576	98	1381
Insulated conductor	E. Thomson and J. G. Callan	695,127	Mar. 11	1524	337	98	2050
Insulated conductor	E. Thomson and J. G. Callan. (Re-issue)	11,997	May 27	4196	962	99	2089
Insulated joint for electrical conductors	E. W. Batchelor	695,705	Mar. 18	2558	579	98	2281
Insulated joint for track-circuits	S. P. McGough	711,256	Oct. 14	1657	357	101	359
Insulated rail-joint	G. L. Hall	708,349	Sept. 2	644	145	100	2112
Insulated rail-joint	G. L. Hall	708,350	Sept. 2	645	146	100	2112
Insulated rail-joint	M. J. Greeney	711,105	Oct. 14	1353	294	101	294
Insulated rail-joint	G. L. Hall	712,131	Oct. 25	3369	738	101	745
Insulated rail-joint	G. L. Hall	712,132	Oct. 28	3370	739	101	745
Insulated rail-joint	W. E. Karns	715,813	Dec. 16	2228	496	101	2329
Insulated rail joint or connection	J. H. Allen	711,411	Oct. 14	1940	422	101	419
Insulated wire	J. A. Heany	703,196	June 24	3548	815	99	2889
Insulated wire. Manufacture of	J. A. Heany	703,197	June 24	3549	816	99	2889
Insulating and packing material and manufacturing same	M. Raphael and L. Elias	691,871	Jan. 28	2852	642	98	646
Insulating and waterproofing materials. Manufacture of electrically-	F. Greening	701,713	June 3	780	-----	99	2272
Insulating coke-ovens, &c. Means for	M. Uplike	711,026	Oct. 14	1193	263	101	262
Insulating composition and producing same	A. Gentzsch	690,383	May 6	481	-----	99	1273
Insulating compound	G. A. Porter	694,989	Mar. 11	1257	-----	98	1996
Insulating-conduit for conductors of electric tramways.	P. C. Seguy	691,495	Jan. 21	2138	479	98	480
Insulating covering material for electric cables, conductors, &c.	G. E. Heyl-Dia	692,013	Jan. 28	3105	697	98	695
Insulating covering-strands and forming same into cables. Apparatus for	H. W. Dover	699,459	May 6	637	146	99	1307
Insulating electric conductors	I. Kitsee	703,135	June 24	3427	787	99	2866
Insulating handle connection	G. Brabrook	702,087	June 10	1462	329	99	2426
Insulating-hanger	J. M. Schmidt	710,216	Sept. 30	4318	971	100	2923
Insulating-joint for pipes	F. E. Cleland and E. B. Murray	707,303	Aug. 19	2490	559	100	1662
Insulating material. Covering electric conductors with	G. E. Heyl-Dia	692,012	Jan. 28	3104	697	98	695
Insulating metallic surfaces or wires	J. A. Heany	703,198	June 24	3552	-----	99	2890
Insulating metallic surfaces or wires	J. A. Heany	715,798	Dec. 16	2192	-----	101	2322
Insulating metallic surfaces with asbestos	J. A. Heany	703,201	June 24	3555	-----	99	2891
Insulating or protective compounds. Manufacture of	C. L. V. Zimmer	713,190	Nov. 11	1378	-----	101	1196
Insulating-paint	L. M. Randolph	701,392	June 3	192	-----	99	2148
Insulating substance and manufacturing same	J. Stocker and H. Zander	695,587	Mar. 18	2392	98	2342	
Insulating support for metallic circuits	J. S. Allen	705,811	July 29	4312	1044	100	1033
Insulation	W. S. Moody	691,793	Jan. 28	2717	610	98	618
Insulation for metallic surfaces. Preparing asbestos for use as an	J. A. Heany	703,200	June 24	3554	-----	99	2890
Insulation from wire. Implement for stripping	C. C. Sibley	698,567	Apr. 29	4045	895	99	919
Insulation stripper. Wire	E. O. Henderson and J. B. Thompson	714,109	Nov. 18	3188	705	101	1590
Insulator	W. H. Nichols	697,001	Apr. 8	1133	265	99	271
Insulator	A. N. Berg and E. E. Bechtold	697,732	Apr. 15	2602	577	99	583
Insulator	H. F. Kretzer	699,761	May 13	1226	285	99	1439
Insulator	V. G. Converse	701,847	June 10	1008	225	99	2325
Insulator	V. G. Converse	701,848	June 10	1009	225	99	2326
Insulator	J. E. Calvin	704,172	July 8	1516	325	100	318
Insulator	L. McCarthy	706,194	Aug. 5	373	80	100	1663
Insulator	E. Lefrere	710,282	Sept. 30	4429	998	100	2356
Insulator	R. Peiro	697,397	Sept. 30	4451	1004	100	2961
Insulator	C. Hobert	711,623	Oct. 21	2367	519	101	522
Insulator	J. L. Shreffler	712,440	Oct. 28	3925	859	101	861
Insulator	M. Harloe	715,375	Dec. 9	1379	297	101	2137
Insulator and attachment for electric wires	C. C. Johnston	697,628	Apr. 15	2324	519	99	524
Insulator and manufacturing same	F. M. Locke	702,661	June 17	2516	576	99	2654
Insulator. Electric circuit	W. J. Walther	710,463	May 20	2646	606	99	1751
Insulator. Electrical	H. P. Baird	698,097	Apr. 22	3197	699	99	728
Insulator for electric railways. Third-rail	C. M. Hobbs	693,603	Feb. 18	2642	583	98	1389
Insulator for electric wires	T. F. King	707,429	Aug. 19	2727	616	100	1711
Insulator for handled vessels. Heat-	C. K. Deched	713,862	Nov. 18	2297	603	101	1484
Insulator for high-potential currents	R. Gaertner	696,958	Apr. 8	1117	247	99	357
Insulator for high-potential lines	C. E. Barry	717,322	Dec. 30	5235	576	101	367
Insulator. High-potential	W. E. Sharpe	705,570	May 20	2570	525	101	2261
Insulator-pin	F. M. Locke	701,063	Dec. 27	3795	870	99	2008
Insulator pin and bracket	E. T. Bailly	701,246	May 27	4124	948	99	2076
Insulator-pin machine	A. D. Catlin	701,539	June 3	460	103	99	2202
Insulator-pins. Sleeve for protecting	F. M. Locke	698,976	Apr. 29	4915	1086	99	1110
Insulator. Section	J. M. Andersen	716,978	Dec. 30	4644	1007	101	2879
Insulator-supporting engine	W. J. Sharpe	700,570	May 20	2844	652	99	1792
Insulator. Telegraph-line	J. E. Murray	713,904	Nov. 18	2791	620	101	1506
Insulator. Third-rail	E. Gonzenbach	717,339	Dec. 30	5412	1176	101	3045
Insulator. Wire	W. C. Benbow	696,665	Apr. 1	507	117	99	110
Insulators. Making	F. M. Locke	702,660	June 17	2516	576	99	2664
Interlocking board	M. W. Wolfe	714,987	Dec. 2	684	142	101	1972
Intermediate coupling	C. C. Wilson	705,989	July 29	5127	1118	100	1038
Internal-combustion engine	P. E. Harp	696,547	Apr. 1	277	64	99	63
Internal-combustion engine	W. J. Robb	700,241	May 20	2204	504	99	1662



## Alphabetical list of inventions—Continued.

Invention	Name	No.	Date	Monthly volume.		Official Gazette	
				Spec.	De'g.	Vol.	Page
Internal-combustion engine	F. Reichenbach	701,505	June 3	403	92	99	2191
Internal-combustion engine	C. W. Kelsey	701,891	June 10	1088	247	99	2352
Internal-combustion engine	J. S. Rogers	702,246	June 10	1731	391	99	2481
Internal-combustion engine	J. F. Hobart	702,430	June 17	2075	174	99	2572
Internal-combustion engine	F. Lister	704,060	July 8	1289	270	100	269
Internal-combustion engine	R. Diesel	708,029	Sept. 2	56	13	100	1992
Internal-combustion engine	J. A. Prestwich	710,302	Sept. 30	4461	1006	100	2963
Internal-combustion engine	P. F. Maccallum	710,483	Oct. 7	151	35	101	33
Internal-combustion engine	W. M. Power	713,147	Nov. 11	1287	291	101	1178
Internal-combustion engine	H. F. Wallmann	713,366	Nov. 11	1758	396	101	1274
Internal-combustion engine	H. F. Wallmann	713,367	Nov. 11	1762	396	101	1275
Internal-combustion engine	C. Hendricks	714,180	Nov. 25	3364	741	101	1644
Internal-combustion engine or motor	C. E. Henriod	717,000	Dec. 30	4693	1018	101	2890
Internal-combustion motor	A. Vogt and M. von Recklinghausen	706,366	Aug. 5	715	156	100	1261
Invalid reclining-chair	I. W. Amerman and R. L. Johannes	701,826	June 10	967	215	99	2327
Inventory and appraisal blank	F. Shock	712,101	Oct. 28	3304	124	101	792
Invoice and balance sheet	B. A. Allison	708,291	Sept. 2	548	124	100	2668
Isolin preparations, Manufacturing	M. Cohn	694,345	Mar. 11	1169	292	98	1976
Isoline, Making	A. Strebel	715,836	Dec. 16	2404	101	101	2368
Iron:							
See Branding-iron.	Sad-iron.						
Chafe-iron.	Smoothing-iron.						
Flat-iron.	Soldering-iron.						
Gas-heated iron.							
Iron and iron alloys, Manufacturing	F. C. Crean	695,670	Mar. 18	2498	567	98	2270
Iron and steel, Apparatus for the manufacture of	G. J. Snelus	714,616	Nov. 25	4170	923	101	1805
Iron and steel, Manufacture of	F. J. Tone	708,941	Sept. 9	1741	100	101	2350
Iron-bearing substances, Briqueting	J. H. Long	711,059	Oct. 14	1267	101	101	277
Iron-bearing substances, Briqueting	J. H. Long	711,060	Oct. 14	1269	101	101	277
Iron-bending machine, Angle	W. Vollmer	704,282	Sept. 16	2453	554	100	2517
Iron-bending machine, Flat	W. Vollmer	704,283	Sept. 16	2456	554	100	2517
Iron-breaking machinery, Pig	H. Bentley	708,301	Sept. 2	563	128	100	2406
Iron, Combining titanium with	A. J. Rossi	713,802	Nov. 18	2586	101	101	1462
Iron—flat and angle, Machine for bending	W. Vollmer	699,858	May 13	1423	328	99	1481
Iron, manganese, and alloys of these metals by aid of electricity, Manufacture of	A. Simon	704,393	July 8	1918	416	100	404
Iron, Manufacture of pig-	J. A. Potter	693,062	Feb. 11	1552	389	98	1145
Iron or steel, Apparatus for making	E. Meiningerhaus	697,213	Apr. 8	1552	348	99	349
Iron or steel, Removing scale oxid from the surface of	A. K. Eaton	702,050	June 10	1381	99	99	2460
Iron, Producing	O. Thiel	709,563	Sept. 23	3047	679	100	2653
Iron scrap, Treating	M. L. Sly	695,177	Mar. 11	1612	98	98	2670
Iron shears, Cold-	J. C. Burgess	714,361	Nov. 25	3706	816	101	1713
Ironing-board	G. Dawe	690,932	Jan. 14	1067	240	98	239
Ironing-board	T. D. Montague	695,324	Mar. 11	1878	418	98	2122
Ironing-board	C. W. Parsons and C. B. Kain	702,069	June 10	1439	328	99	2422
Ironing-board	M. Oniel	702,242	June 10	1725	389	99	2480
Ironing-board	G. Kahler	704,835	July 15	2737	592	100	546
Ironing-board	G. A. Wagar	719,724	Nov. 18	2441	545	101	1430
Ironing-board adjustable clamping device	F. Artés and M. Jackson	711,373	Oct. 14	1878	410	101	406
Ironing-board, Double	J. M. Gernert and J. F. Aten	701,197	May 27	4039	928	99	2061
Ironing-board support	A. J. Poehner	694,779	Mar. 4	858	189	98	1993
Ironing-machine	W. H. Dunn and D. McCurdy	691,735	Jan. 28	2647	522	98	613
Ironing-machine	C. W. Anderson	694,906	Mar. 4	1062	241	98	1943
Ironing-machine	D. H. Benjamin	695,901	Mar. 25	2916	661	98	2371
Ironing-machine	J. J. O'Shea	700,439	May 20	2603	505	99	1742
Ironing-machine	I. Harris	707,968	Aug. 26	3827	869	100	1950
Ironing-machine	D. H. Benjamin	713,384	Nov. 11	1793	404	101	1281
Ironing-machine	C. Marck	715,101	Dec. 2	876	186	101	2616
Ironing machine, Edge-	G. E. Norris	699,001	Apr. 29	4955	1097	99	1118
Ironing machine, Edge-	H. A. Twigg	700,459	May 20	2637	604	99	1749
Ironing-stand	A. F. Hyson and T. Mouat	699,922	May 13	1549	357	99	1509
Ironing-table, Folding	R. Vannoy	692,949	Feb. 11	1333	294	98	1104
Ironing-table	J. J. Click	692,984	Feb. 11	1422	309	98	1117
Ironing-table	E. Fisk	694,360	Mar. 4	33	7	98	1719
Ironing-table	D. A. Sox	694,800	Mar. 4	897	199	98	1902
Ironing-table	E. S. Churchman	696,625	Apr. 1	420	97	99	91
Ironing-table	I. M. King	713,111	Nov. 11	1226	280	101	1166
Ironing-table, Folding	J. M. Woods and J. R. Crumplar	695,851	Mar. 18	2821	641	98	2339
Ironing-table, Folding	W. E. Knapp	704,054	May 13	1787	413	99	1556
Irrigating, Check-blocker for	F. W. Smith	711,079	Oct. 14	1312	284	101	285
Irrigator, Portable	J. F. Chase	708,126	Sept. 2	236	56	100	2689
Isovaleramid derivative and making same	A. Liebrecht	697,730	Apr. 15	2513	99	99	563
Jack:							
See Chain-jack.	Pumping jack.						
Ditching-jack.	Railway-track jack.						
Fence-jack.	Screw jack.						
Floor-jack.	Shoemaker's jack.						
Harrow-jack.	Track-jack.						
Hydraulic jack.	Vehicle-jack.						
Lantern ventilating-jack.	Wagon-jack.						
Lifting-jack.	Washing-jack.						
Pipe-jack.	Window-jack.						
Jack	E. Woodings	708,948	Sept. 9	1759	405	100	2333

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	De'g.	Vol.	Page.
Jack and drop. Combined	K. B. Miller	697,515	Apr. 15	2120	472	99	484
Jack-o'-lantern	A. B. Herd	715,379	Dec. 9	1387	299	101	2138
Jacket. Foot-ball	W. P. Whitley	714,079	Nov. 18	3134	698	101	1577
Jacquard-machine driving mechanism	J. Dean	691,362	Jan. 21	1909	429	98	481
Jail or cage. Portable	J. A. Youngblood	715,927	Dec. 16	2473	543	101	2384
Jails. Interlocking-bar grating for	D. F. Youngblood	714,350	Nov. 25	3681	811	101	1707
Japanning small articles. Machine for	T. A. Perrins	701,386	June 3	184	40	99	2146
Jar:							
See Fish-jar.	Preserve-jar.						
Fruit-jar.	Self-sealing jar.						
Milk-jar.							
Jar	W. C. Schutz	703,155	June 24	3475	799	99	2874
Jar and cover	S. J. Raymond	712,094	Oct. 28	3296	722	101	730
Jar attachment	G. E. Bateman	697,314	Apr. 8	1735	387	99	389
Jar, can, &c., closure	J. W. Farnoff	710,961	Oct. 14	1062	234	101	232
Jar cap or closure	E. J. Smith	692,374	Feb. 4	275	66	98	856
Jar cap or cover	D. B. Smith	716,951	Dec. 30	4577	993	101	2866
Jar closer. Fruit-	A. A. Smelker	697,081	Apr. 15	2430	538	99	543
Jar-closing means	G. H. Fox	704,872	July 15	2805	607	100	600
Jar-closure	E. H. Austin	691,696	Jan. 21	2508	561	98	558
Jar-closure	O. Brier	696,407	Apr. 1	25	7	99	8
Jar-closure	W. Sindorf	697,371	Apr. 8	1618	408	99	406
Jar-closure	H. J. Wintherlich	701,117	May 27	3896	895	99	2030
Jar-closure	F. E. Dopheide	702,412	June 17	2041	465	99	2564
Jar-closure	A. B. Schofield	708,005	June 24	3174	531	99	2817
Jar-closure	W. B. McCrosky	706,771	Aug. 12	1501	393	100	1439
Jar-closure	F. Webb	711,028	Oct. 14	2001	264	101	264
Jar-closure	R. E. Meyer	711,452	Oct. 14	2024	439	101	436
Jar-closure	W. H. Goodfellow and H. W. Good-	712,519	Nov. 4	108	27	101	920
Jar-closure	ine.						
Jar-closure	J. M. Long, Jr.	714,719	Dec. 2	131	26	101	1864
Jar-closure	H. S. Brewington	715,345	Dec. 9	1331	287	101	2127
Jar closure and fastener	H. F. Webb	699,046	Apr. 29	5030	1112	99	1134
Jar cover	R. W. Booth	709,390	Sept. 16	2682	601	100	2565
Jar cover and fastener	H. H. Stevens	696,113	Mar. 25	3342	753	98	2458
Jar-cover and fastening therefor	J. Karmann	708,648	Sept. 9	1167	266	100	2220
Jar-cover fastener	J. P. Young	700,882	May 27	3464	795	99	1939
Jar-cover fastening	J. S. Giles	717,388	Dec. 30	5410	1176	101	3045
Jar-cover-repairing tool	L. Sarr	704,217	July 8	1534	345	100	334
Jar holder. Fruit-	E. Himmelman	694,747	Mar. 4	789	175	98	1878
Jar-holder. Safety	W. W. Blossom	712,355	Oct. 28	3750	820	101	824
Jar-holding device and cap-turner	G. W. Pagett	710,606	Oct. 7	404	84	101	80
Jar-lid-clamping device. Fruit-	W. V. Hart	698,492	Apr. 29	3920	866	99	893
Jar-opener	W. S. Marsh	705,941	July 29	5043	1099	100	1080
Jar or bottle closure	H. A. Hughes, Jr.	710,347	Jan. 21	1939	437	98	438
Jar or bottle closure	F. Tyson	691,382	Sept. 30	4538	1024	100	2979
Jar or bottle machine. Fruit	W. P. Fisher and H. P. Ludington	701,188	May 27	4023	924	99	2057
Jar or bottle press	J. Haley	711,962	Oct. 28	3048	669	101	683
Jar-stopper	L. Lohrmann	697,211	Apr. 8	1550	347	99	349
Jar-top wrench. Fruit-	E. Himmelman	694,748	Mar. 4	790	176	98	1878
Jars, &c. Cover-fastening for fruit-	I. P. Doolittle. (Reissue)	12,065	Dec. 23	4387	951	101	2810
Jars, &c. Cover or stopper for preserve-	J. M. Cairns	717,073	Dec. 30	4428	1046	101	2019
Jars. Temporary cap or cover holder for	A. Johnson	697,724	Apr. 15	2499	558	99	560
Jewel-case, &c. Portable	E. J. Deitsch	701,309	June 3	18	40	101	2118
Jewel-setting machine	W. Rundquist	696,756	Apr. 1	682	154	99	146
Jeweler's mold	F. D. Strang	695,507	Mar. 18	2180	492	98	2204
Jeweler's tool	R. H. Wade	697,120	Apr. 8	1391	309	99	316
Jeweler's tool	A. A. Nilson	698,732	Apr. 29	4438	980	99	1005
Jewelry. Means for forming claws in articles of	W. H. Ford and C. W. Stoble	711,560	Oct. 21	2240	486	101	496
Jewelry-securer	G. W. Washburn	693,764	Feb. 18	2928	644	98	1448
Jewelry. Setting for finger-rings or other articles of	C. T. Wittstein	694,594	Mar. 4	496	107	98	1818
Jig for mineral or ore washing	C. J. Hodge	713,436	Nov. 11	1873	424	101	1298
Jigs for washing minerals or ores. Actuating mechanism for	C. J. Hodge	710,777	Oct. 7	736	156	101	150
Joint:							
See Ball-and-socket	Insulated rail-joint.						
joint.	Insulating-joint.						
Beam-joint.	Knee-joint.						
Bedstead connection.	Knuckle-joint.						
ing-joint.	Pipe-joint.						
Box-joint.	Pivot-joint.						
Cable-joint.	Rail expansion-joint.						
Column-joint.	Rail-joint.						
Concrete joint.	Railway-joint.						
Eaves-trough miter-joint.	Railway-rail joint.						
Elastic joint.	Railway-track joint.						
Expansion-joint.	Roof-joint.						
Frame-joint.	Table-leg joint.						
Furniture-joint.	Universal joint.						
Hinge-joint.	Water-joint.						
Insulated joint.	Wedge-joint.						
Joint	R. B. Macphail	716,729	Dec. 23	4046	886	101	2729
Joint for pilasters, pillars, posts, &c.	W. Kopp	706,070	Aug. 5	133	27	100	1144
Joint for pipes, fittings, or other connections	M. Dean	712,047	Oct. 28	3196	698	101	712
Joint or pivotal connection for double-armed tools or appliances.	H. Malignon	714,211	Nov. 25	3427	754	101	1656
Joint-tightening device	S. Brunau	715,012	Dec. 2	718	152	101	1381
Joints for intersecting wires or rods. Forming	J. C. and W. J. Pope	707,352	Aug. 19	2581	583	100	1681
Joining device	E. H. Sheldon	713,511	Nov. 11	2048	459	101	1334
Joist-bridging	D. D. 462	702,462	June 17	2139	486	99	2385
Joist-hanger	H. W. Avery	717,316	Dec. 30	5288	1149	101	3019



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Journal-bearing	J. Stickel	696,509	Apr. 1	202	49	99	47
Journal-bearing	I. Metzger	697,864	Apr. 15	2762	612	99	119
Journal-bearing	H. H. Hewitt	698,947	Apr. 29	4863	1073	99	1099
Journal-bearing	E. Hill	702,947	June 24	3064	705	99	2792
Journal-bearing	J. Swan	708,974	July 1	1114	241	100	221
Journal-bearing	H. H. Hewitt	705,760	July 29	4725	1022	100	1015
Journal-bearing	G. N. Segets	705,871	July 29	4916	1068	100	1055
Journal-bearing	I. Metzger	707,147	Aug. 19	2196	492	100	1599
Journal-bearing	C. H. Keeney	710,466	Oct. 7	122	28	101	26
Journal-bearing	W. G. Vernon	712,425	Oct. 28	3899	858	101	857
Journal-bearing	G. N. Segets	714,113	Nov. 18	3196	706	101	1382
Journal-bearing	G. N. Segets	714,114	Nov. 18	3198	707	101	1592
Journal-bearing and air-compressor. Combined.	C. F. Du Bois	704,475	July 8	2072	449	100	436
Journal-bearing. Antifriction	W. J. Brewer	694,607	Mar. 4	527	115	98	1825
Journal-bearing-molding machine	F. J. Lass	695,740	Mar. 18	2614	593	98	2292
Journal-box	G. S. Marshall	690,975	Jan. 14	1147	260	98	805
Journal-box	W. E. Sharp	698,073	Feb. 11	1576	343	98	1149
Journal-box	G. W. Lewis	693,411	Feb. 18	2261	344	98	1311
Journal-box	P. Brown	693,997	Feb. 25	3410	751	98	1562
Journal-box	R. C. Enyart	694,358	Mar. 4	30	7	98	1718
Journal-box	T. H. Symington	697,040	Apr. 8	1257	280	99	286
Journal-box	J. F. Schumacher	702,159	June 10	1585	358	99	2452
Journal-box	G. A. Woodman	702,899	June 17	2964	688	99	2756
Journal-box	G. W. Lewis	706,243	Aug. 5	463	99	100	1210
Journal-box	A. G. Steinbrenner	707,093	Aug. 12	1968	441	100	1535
Journal-box	F. W. Sherman	717,127	Dec. 30	4924	1067	101	2939
Journal-box	S. and S. J. Reynolds	717,452	Dec. 30	5531	1202	101	3008
Journal box and bearing	F. W. Thomas	690,483	Jan. 7	208	41	98	408
Journal-box. Ball-bearing	F. E. Manahan	703,493	July 1	122	27	100	27
Journal-box dust-guard	F. E. Harrison	692,284	Feb. 4	122	28	98	823
Journal-box dust-guard	C. S. Shallenberger	701,623	June 8	642	140	99	2248
Journal-box. Dust-proof.	M. Owens	692,334	Feb. 4	206	50	98	841
Journal-box lid	G. A. Woodman	702,960	June 17	2965	683	99	2757
Journal-box lid	H. C. McCarty	708,736	July 1	667	148	100	134
Journal-box lid	J. W. Stephenson	706,700	Aug. 12	1347	299	100	1407
Journal-box lid. Dust-proof	G. A. Woodman	702,961	June 17	2966	683	99	2757
Journal-box oil-guard	F. Hachmann	711,849	Oct. 21	2783	617	101	610
Journal-box sand-guard	P. Martin	715,102	Dec. 2	877	187	101	2016
Jumper-fob	E. R. Mead	702,021	June 10	1326	308	99	2388
Junction-box	M. F. Whiton	697,052	Apr. 8	1275	283	99	290
Junction-box	W. F. Bossert	708,692	Sept. 9	1247	286	100	2245
Junction-box	C. G. M. Miller and F. D. Master-son	716,643	Dec. 23	3905	853	101	2699
Junction-box coupling	M. F. Whiton	697,051	Apr. 8	1274	283	99	290
Junction or fuse box.	M. H. Johnson	699,181	May 6	98	24	99	1195
Junction or outlet box. Electric.	J. H. Stahley	695,243	Mar. 11	1729	383	98	2094
Keg	F. X. Schwab	700,567	May 20	2837	651	99	1791
Keg for white lead or other heavy materials. Metallic	E. Norton	691,166	Jan. 14	1491	336	98	336
Keir for bleaching, &c.	W. W. L. Lishman, T. W. Haughton, and J. J. Kirkpatrick.	702,309	June 10	1827	417	99	2501
Kerite	W. R. Brixey	714,559	Dec. 2	433	101	1921	
Kerite. Manufacture of crude	W. R. Brixey	714,858	Dec. 2	431	101	1921	
Kettle	L. Gilleran	702,955	June 10	1413	316	99	2417
Kettle-alarm. Detachable.	B. Weinberg	702,864	May 27	3431	788	99	1932
Kettle. Jacketed	M. W. Johns and W. I. Kaufman	697,627	Apr. 15	2323	519	99	534
Kettle or dish scraper or cleaner	W. S. Palmer	691,801	Jan. 28	2736	617	98	621
Kettle or pot scraper	A. M. Schiele	717,456	Dec. 30	5537	1203	101	3069
Key							
New Connecting-rod key. Spring-key.							
Floor-key. Type-writer key.							
Operator's key.							
Key	A. H. Wormald	711,889	Oct. 21	2873	636	101	630
Keyboard	G. G. Allen	706,002	Aug. 5	1	736	100	1117
Keyboard-machine	T. W. Otto	707,714	Aug. 26	3291	737	100	1845
Keyboard-perforator	D. Murray	710,163	Sept. 30	4213	950	100	2008
Key connection	J. T. Schlaacks	705,792	July 29	4777	1037	100	1027
Key-fastener	B. B. Downard	706,537	Aug. 12	1059	283	100	1345
Key-guard	B. R. Bacon	706,006	Aug. 5	7	2	100	1118
Key head. Winding.	T. W. R. McCabe	708,243	Sept. 2	456	103	100	2074
Key-holder	F. E. Brown	690,306	Jan. 7	21	5	98	7
Key-holder	C. J. Schumacher	692,167	Jan. 28	3379	766	98	751
Keyhole-guard	L. Lacroix and H. Brisselet	695,318	Mar. 11	1870	416	98	2121
Keyhole-guard	L. Lacroix and H. Brisselet	701,059	May 27	3791	829	99	3008
Keyhole-guard	F. H. Bos	707,381	Aug. 19	2630	534	100	1691
Keying-clamp. Flooring or siding	B. F., C. B., and C. D. Arnold	701,784	June 3	899	200	99	2296
Keyless lock	C. F. Keller	691,273	Jan. 14	1684	383	98	366
Keyless lock	E. A. Judd	693,028	Feb. 11	1383	324	98	1131
Keyless lock	A. F. Corbin	698,114	Feb. 11	1675	364	98	1169
Keyless lock	A. W. Craig	703,387	July 1	44	1	100	11
Keyless pin or bolt.	E. D. Levitt and J. W. Polchow	704,788	May 27	3288	755	99	1946
Key-lock. Changeable-combination	W. H. Taylor	690,537	Jan. 7	326	66	98	70
Key-lock. Changeable combination	W. H. Taylor	701,230	May 27	4065	948	99	2071
Key-lock. Changeable combination	W. H. Taylor	701,231	May 27	4067	948	99	2071

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Key-opening can. Vacuum-sealed and seamed	B. H. Larkin	698,282	Feb. 11	2011	437	98	1237
Key-operated machine.	C. S. Champion	698,373	Feb. 18	2189	481	98	1296
Key-operated machines. Actuating mechanism for.	D. Murray	698,845	Apr. 29	4694	1034 1035	99	1064
Key or musical instruments. Mechanism for effecting varying touch of	L. Hupfeld	706,946	Aug. 12	1817	406	100	1504
Key-plate for use in the manufacture of tune plates or cylinders.	F. Schippers	716,287	Dec. 16	3172	407 695	101	2329
Key-remover.	H. M. McCall	717,498	Dec. 30	5508	1196	101	3063
Key-ring	J. R. Lomas	705,368	July 22	3936	853	100	845
Key-ring	J. L. Sommer	715,892	Dec. 16	2899	531	101	2368
Keyed instruments. Automatic player for	M. Clark	709,962	Sept. 30	3825	861 862 863	100	2828
Kiln:							
See Bone-black kiln. Dry-kiln.							
Brick-kiln. Drying-kiln.							
Brick-drying kiln. Limekiln.							
Ceramic-ware kiln. Lime, cement, or like							
Continuous kiln. Malt-kiln.							
Continuous down-draft kiln. Malting-kiln.							
Kiln-burning apparatus	G. F. and H. N. Gray and R. South.	708,707	Sept. 9	1281	292	100	2252
Kiln for burning bricks, &c.	E. C. Brice	695,904	Mar. 25	2925	662	98	2372
Kiln for drying green sand cores	R. F. Phillips	692,339	Feb. 4	212	51	98	843
Kinematograph	J. W. Taylor	703,938	Sept. 9	1735	402	100	2349
Kinematographic apparatus	L. E. Granichstaedten	698,856	Feb. 25	3118	691	98	1505
Kinematograph taking-up apparatus	G. F. Hatton	713,876	Nov. 18	2723	608	101	1489
Kinematograph apparatus	O. Messter	698,125	Apr. 32	3265	715	99	741
Kinotoscope	A. C. Roebuck and F. McMillan	706,113	Aug. 5	204	42, 43	100	1158
Kinotoscope. Projecting	T. A. Edison. (Reissue)	12,037	Sept. 30	4636	1047	100	2998
Kinotoscope. Projecting	W. Latham	707,934	Aug. 26	3769	847	101	1939
Kinotoscope. Projecting	J. H. White	714,845	Dec. 2	405	85, 86	101	1916
Kinotoscopic film	T. A. Edison. (Reissue)	12,038	Sept. 30	4639	1048	100	2999
Kitchen implement. Combination	H. C. Needham	694,491	Mar. 4	283	65	98	1772
Kitchen-rack	A. M. Schiele	694,793	Mar. 4	889	197	98	1900
Kitchen-table	C. L. Markstrom	696,462	Apr. 1	126	23, 30	99	82
Kitchen utensil	E. W. Leach	698,120	Apr. 22	3260	713	99	739
Kitchen-utensil handles. Holder for	U. V. Wyatt	701,305	June 3	42	9	99	2117
Kite	H. J. Trainor	701,106	May 27	3874	890	99	2025
Kite	R. H. Battersby	713,381	Nov. 11	1789	402	101	1280
Kite attachment	S. W. Fletcher	692,998	Feb. 11	1442	313	98	1121
Kite-body	C. Schneider	712,603	Nov. 4	273	65	101	955
Kite. Musical	H. R. Saunders	691,875	Jan. 28	2857	648	98	647
Kite or flying-machine	V. Tarcaz	701,644	June 3	605	145	99	2247
Kite. Parachute	M. J. Russell	702,248	June 10	1735	392	99	2482
Kneader. Dough-	L. D. Patten	699,629	May 6	948	219	99	1370
Kneading-board	L. N. Campbell	697,804	Apr. 15	2652	587	99	595
Kneading device	R. I. A. Mason	714,004	Nov. 18	2984	664	101	1545
Kneading machine. Dough-	G. W. Greenwood	696,235	Mar. 25	3582	802	98	2505
Knee-joint or hinge connection	G. W. Greenwood	704,321	July 8	1773	367	100	873
Knee-joint or hinge connection	W. H. Keeran	701,050	May 27	3779	386	99	2005
Knife:							
See Band-cutter and Loom-picker's knife.							
feeder knife. Manicure-knife.							
Broom-corn knife. Microtome-knife.							
Cheese-knife. Pocket-knife.							
Chopping-knife. Putty-knife.							
Curd-knife. Safety-knife.							
Fruit-knife. Tobacco-leaf-cutting							
Ice-planing knife. knife.							
Knife	J. E. Carlson	690,927	Jan. 14	1058	238	98	238
Knife	E. Hemstrom	691,361	Jan. 28	2838	638	98	643
Knife	A. Zwicker	694,614	Mar. 4	912	204	98	1905
Knife	E. B. Coughlin	700,617	May 20	2919	672	99	1808
Knife	I. Kinney	702,967	June 24	3112	716	99	2804
Knife	N. E. Putney	705,441	July 22	4061	880	100	872
Knife	E. D. Woods	714,086	Nov. 18	3150	697	101	1581
Knife and fork	G. Garda	708,806	Sept. 9	1482	339	100	2287
Knife and fork support and knife-sharpener. Combined	G. C. Worthington	712,228	Oct. 28	3534	773	101	778
Knife and making same	H. C. Hart	699,520	May 6	735	171	99	1327
Knife-blade-finishing machine	A. L. Sweet	698,756	Feb. 18	2912	640 641	98	1444
Knife-cleaning machine	H. Michaux	706,677	Aug. 12	1313	290 291	100	1400
Knife-cleaning machine	W. G. Kent and J. W. Sutton	714,711	Dec. 2	117	24	101	1892
Knife-cutter, or dieing-out instrument	J. M. J. A. J., and S. A. Gimson	709,008	Sept. 16	1899	433	100	2400
Knife for cutting asparagus, &c.	A. Perdiel	692,542	Feb. 4	379	135	98	912
Knife for cutting hay, cane, &c.	W. L. Iwan	696,050	Mar. 25	3198	728	98	2427
Knife for cutting ropes used in boring Artesian or oil wells.	G. F. Bell	692,816	Feb. 11	1067	240	98	1046
Knife-polishing machine. Table-	A. Gronvold	711,397	Oct. 14	1918	417	101	414
Knife-switch	J. A. Wright and W. F. O'Neill	695,188	Mar. 11	1636	361	98	2073
Knit fabrics. Manufacture of figured	E. A. Hirner	698,499	Apr. 29	3931	869	99	895
Knit fabrics. Mechanism for transversely severing webs of	F. G. Shelain	714,825	Dec. 2	34	75, 76	101	1906
Knit goods. Machine for unraveling	L. A. Désy	692,195	Jan. 28	3434	777 778	98	762
Knit goods. Tubular	W. W. Burson	715,457	Dec. 9	1529	332	101	2166
Knitted fabric	D. C. Bellis	709,734	Sept. 23	3334	751 752	100	2714



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Knitted fabric.....	R. W. Scott.....	709,825	Sept. 23	3581	795	100	2754
Knitted fabric.....	R. W. Scott.....	709,827	Sept. 23	3583	796	100	2754
Knitted fabric.....	L. N. D. Williams.....	709,839	Sept. 23	3552	801	100	2758
Knitted fabric.....	L. N. D. Williams.....	709,840	Sept. 23	3553	801	100	2759
Knitted fabric. Ribbed.....	R. W. Scott.....	709,826	Sept. 23	3582	796	100	2754
Knitted fabric. Ribbed.....	R. W. Scott.....	709,828	Sept. 23	3584	796	100	2754
Knitted or looped undergarment.....	F. H. Ruffner.....	716,482	Dec. 23	3575	781	101	2628
Knitted pile fabric. Rib-.....	G. A. Leighton.....	693,409	Feb. 18	2250	494	98	1310
Knitting-machine.....	C. J. Appleton.....	691,888	Jan. 28	2881	649	98	652
Knitting-machine.....	W. G. Stewart.....	694,036	Feb. 25	3493	709	98	1370
Knitting-machine.....	G. E. Ellis.....	697,078	Apr. 8	1330	235	99	362
Knitting-machine.....	E. J. Franck.....	697,616	Apr. 15	2295	513	99	519
Knitting-machine.....	R. W. Scott, L. N. D. Williams, and H. Swinglehurst.....	697,953	Apr. 15	2908	643	99	648
Knitting-machine.....	J. J. O'Brien.....	698,045	Apr. 22	3084	679	99	704
Knitting-machine.....	W. H. Sheridan.....	699,930	May 13	1562	360	99	1511
Knitting-machine.....	F. B. Wildman.....	703,028	June 24	3212	739	99	2824
Knitting-machine.....	D. F. Sullivan.....	703,973	July 1	1112	241	100	320
Knitting-machine.....	D. A. Booker.....	705,203	July 22	3540	767	100	768
Knitting-machine.....	H. Stoll.....	708,786	Sept. 9	1427	328	100	2285
Knitting-machine.....	M. Saldin.....	709,047	Sept. 16	1987	453	100	2418
Knitting-machine.....	H. Janssen.....	709,154	Sept. 16	2189	501	100	2462
Knitting-machine.....	L. N. D. Williams.....	709,825	Sept. 23	3555	802	100	2759
Knitting-machine.....	W. Stafford and R. C. Holt.....	733,709	Nov. 18	2415	539	101	1425
Knitting-machine.....	D. C. Bellis.....	714,998	Dec. 2	097	146	101	1976
Knitting-machine.....	G. W. Ruth.....	715,154	Dec. 2	965	208	101	2094
Knitting-machine attachment.....	R. Rohleder.....	694,195	Feb. 25	3782	836	98	1637
Knitting-machine attachment. Automatic circu- lar.....	J. F. Bard.....	706,509	Aug. 12	1008	222	100	1385
Knitting-machine bur-wheel support.....	B. A. Stewart.....	709,931	Sept. 23	3559	797	100	2756
Knitting machine. Circular.....	H. A. Houseman.....	694,382	Mar. 4	84	19, 20	98	1729
Knitting machine. Circular.....	K. Palme.....	698,549	Apr. 29	4022	888	99	914
Knitting machine. Circular.....	H. Brinton.....	700,730	May 27	3161	719	99	1877
Knitting machine. Circular.....	L. N. D. Williams.....	710,826	Oct. 7	828	178	101	160
Knitting-machine. Circular spring-needle.....	F. Wilcomb.....	705,505	July 22	4178	909	100	893
Knitting-machine needle.....	R. W. Scott.....	707,080	Aug. 26	3851	865	100	1954
Knitting machine. Rib.....	R. W. Scott.....	709,829	Sept. 23	3596	797	100	2755
Knitting machine. Rib.....	R. W. Scott.....	716,767	Dec. 23	4112	904	101	2743
Knitting-machine splicing mechanism.....	F. Wilcomb.....	691,686	Jan. 21	2485	557	98	552
Knitting-machine stop-motion.....	F. Wilcomb.....	698,089	Apr. 22	3163	695	99	720
Knitting-machine stop-motion.....	F. Wilcomb.....	698,090	Apr. 22	3173	696	99	723
Knitting-machine stop-motion.....	F. Wilcomb.....	698,091	Apr. 22	3177	696	99	724
Knitting-machine stop-motion.....	F. S. Forry.....	714,468	Nov. 25	3902	850	101	1749
Knitting-machine stop-motion. Automatic.....	G. W. Martin and J. Palmer.....	706,839	Aug. 12	1627	365	100	1467
Knitting-machine stop-motion. Automatic.....	G. W. Martin and J. Palmer.....	706,840	Aug. 12	1628	365	100	1468
Knitting-machine striping attachment. Circular.....	W. P. Young.....	713,370	Nov. 11	1769	398	101	1276
Knitting-machine tension device.....	G. W. Ruth.....	690,775	Jan. 7	787	175	98	166
Knitting-machine tucking and welting attachment.....	W. D. and L. C. Huse.....	693,397	Feb. 18	2236	490	98	1805
Knitting-machine yarn-changing mechanism. Cir- cular.....	W. P. Young.....	694,515	Mar. 4	335	74, 75	98	1793
Knitting machines. Attachment for making open or lace work in straight-.....	A. Gee.....	703,055	June 24	3269	752	99	2835
Knob and bell. Combination door.....	J. W. Freeman.....	700,488	May 20	2704	619	99	1763
Knob and bell. Combined door.....	J. W. Freeman.....	700,581	May 20	3037	634	99	1834
Knob-attaching device.....	C. E. Pickop.....	697,168	Apr. 8	1474	339	99	373
Knob attachment.....	C. Glover.....	692,295	Feb. 4	95	22	98	818
Knob attachment.....	C. Glover.....	692,296	Feb. 4	95	23	98	818
Knob attachment.....	W. Scharnweber.....	692,550	Feb. 4	589	138	98	918
Knob attachment.....	W. S. Bartholomew.....	707,375	Aug. 19	2619	594	100	1689
Knob attachment.....	S. Fader.....	711,838	Oct. 21	2773	614	101	697
Knob attachment.....	S. Fader.....	714,466	Nov. 25	3889	850	101	1748
Knob. Curtain.....	H. Higgin.....	715,380	Dec. 9	1384	296	101	319
Knob. Door.....	W. F. Gilbert.....	690,515	May 6	728	169	99	1326
Knob. Door.....	J. R. Fletcher.....	708,336	Sept. 2	624	140	100	2108
Knobs to spindles. Attaching-door.....	A. B. Vanes.....	712,023	Oct. 28	3161	691	101	705
Knockdown box.....	J. E. Neihysel.....	705,953	July 29	5066	1104	100	1085
Knockdown chair.....	F. White.....	693,197	Feb. 11	1864	403	98	1206
Knob-tying implement.....	H. D. Colman.....	707,326	Aug. 26	3560	804	100	1898
Knots. Device for untying hard.....	J. W. Mutton.....	704,357	July 8	1863	403	100	394
Knuckle-joint.....	J. H. Rusby.....	712,725	Nov. 4	480	113	101	998
Knuckle-pins. Stop-block for broken or headless.....	G. Taggart.....	714,258	Nov. 25	3513	772	101	1674
Kraut-cutter.....	G. H. Kinkade and L. Mager.....	710,326	Sept. 30	4503	1015	100	2971
Label.....	G. E. Howard.....	702,350	June 10	1915	437	99	2518
Label.....	G. E. Howard.....	709,326	Sept. 16	2599	571	100	2355
Label.....	G. E. Howard.....	714,485	Nov. 25	3917	866	101	1753

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Label-affixer.....	G. E. Howard.....	707,781	Aug. 26	3468	782	100	1880
Label-affixer.....	G. E. Howard.....	710,867	Oct. 7	894	194	101	181
Label-affixing device.....	G. E. Howard.....	707,780	Aug. 26	3467	781	100	1880
Label-affixing machine.....	W. F. Marresford.....	707,787	Aug. 26	3479	783	100	1882
Label. Ear.....	H. T. Emeis.....	700,483	May 20	2693	617	99	1761
Label for bottles, &c.....	O. C. Painter.....	708,916	Sept. 9	1714	393	100	2343
Label-gumming machine.....	J. G. and M. O. Rehfuss and S. B. Tily.....	713,493	Nov. 11	1980	447	101	1920
Label-holder.....	G. E. Howard.....	707,782	Aug. 26	3470	782	100	1880
Label-holder fastener.....	J. R. Thorne.....	704,404	July 8	1935	419	100	408
Label-holder for bottles, &c.....	O. H. C. Voigt.....	694,809	Mar. 4	906	202	98	1903
Label-holding cabinet.....	D. O. Cowles.....	713,350	Dec. 9	1340	280	101	2129
Label-making machine cutting and feeding mechanism.....	S. B. Tily, J. G. and M. O. Rehfuss.....	714,063	Nov. 18	3109	686	101	1572
Label with metal fastening-clamp.....	W. Siegfried.....	706,695	Aug. 12	1341	298	100	1446
Labels. Machine for applying paste to.....	J. W. Butterfield and B. C. Schmitt.....	693,832	Feb. 25	3063	676	98	1494
Labels. Machine for inserting and fastening strings.....	S. B. Tily, J. G. and M. O. Rehfuss.....	702,262	June 10	1753	890	100	2486
Labels to bottles. Machine for applying.....	C. J. Warren.....	707,738	Aug. 26	3354	754	100	1857
Labels with adhesives. Machine for coating.....	F. E. Jagenberg and R. Högfeldt.....	706,757	Aug. 12	1476	827	100	1434
Labels, wrappers, &c. Machine for applying.....	C. W. Cheney.....	713,853	Nov. 18	2679	597	101	1480
Labeling and wrapping mechanism. Can.....	F. H. Knapp and C. W. Blackstone.....	698,520	Apr. 29	3960	876	99	901
Labeling. Bottle.....	G. W. Cole.....	713,606	Nov. 18	2234	498	101	1987
Labeling device.....	T. Cadwallader.....	710,377	Dec. 23	3360	734	101	2382
Labeling-machine.....	E. N. Gillfillan and E. T. McKaig.....	692,055	Jan. 28	3192	721	98	712
Labeling-machine.....	J. A. Turney.....	692,492	Feb. 4	474	111	98	805
Labeling-machine.....	E. N. Gillfillan and E. T. McKaig.....	694,915	Mar. 4	1109	245	98	1946
Labeling-machine.....	J. T. Whitehurst and F. W. Wild, Jr.....	696,219	Mar. 25	3555	795	98	2500
Labeling-machine.....	F. C. H. Strasburger.....	701,229	May 27	4091	942	99	2070
Labeling-machine.....	J. J. Gaynor.....	705,832	July 29	4843	1051	100	1040
Labeling-machine.....	F. C. H. Strasburger.....	711,018	Oct. 14	1176	259	101	258
Labeling-machine.....	D. W. Kneisly.....	716,434	Dec. 23	3470	758	101	2606
Labeling machine. Bottle.....	C. Lefler.....	699,884	May 13	1483	341	99	1496
Labeling machine. Bottle.....	N. Muslar.....	700,438	May 20	2600	594	99	1742
Labeling machine. Bottle.....	W. E. Pettee.....	707,631	Aug. 26	3118	702	100	1869
Labeling machine. Can.....	F. C. Morrison.....	709,499	Sept. 23	2921	651	100	2628
Labeling-machine printing attachment.....	F. C. H. Strasburger.....	711,019	Oct. 14	1182	260	101	260
Laboratories, &c. Fitting for.....	A. W. Cooksey.....	703,897	July 1	970	211	100	194
Lace. Electrodepositing metal on.....	J. A. Daly.....	707,396	Aug. 19	2495	560	100	1664
Lace-fastener.....	E. E. Frutchey and E. T. Morrison.....	697,064	Apr. 8	1292	267	99	293
Lace fastener. Shoe.....	E. E. Frutchey.....	691,128	Jan. 14	1419	322	98	310
Lace fastener. Shoe.....	L. H. Hancock.....	701,199	May 27	4042	929	99	2061
Lace holder. Shoe.....	J. A. Leslie.....	694,653	Mar. 4	602	132	98	1840
Lace hook and clasp.....	H. R. Wilson.....	700,274	May 20	2267	517	99	1676
Lace-machine.....	C. Martin.....	707,436	Aug. 19	2735	619	100	1713
Lace-making machine.....	A. Matitsch.....	705,539	July 22	4298	929	100	918
Lace-rack.....	M. M. Savlan.....	694,428	Mar. 4	181	39	98	1751
Lace representing mosaic work. Manufacture of.....	E. E. Saunier.....	699,019	Apr. 29	4984	1103	99	1124
Lace. Shoe.....	T. O. Holland.....	696,440	Apr. 1	85	19	99	1183
Lace. Shoe.....	E. L. Pitts.....	715,599	Dec. 9	1801	399	101	2221
Laces, &c. Machine for manufacturing shoe.....	H. S. Pullman.....	690,995	Jan. 14	1188	269	98	263
Lacer. Shoe.....	W. Freck.....	691,853	Jan. 28	2829	638	98	640
Lacing device.....	E. Savoye.....	704,381	July 8	1900	411	100	401
Lacing device. Gang.....	J. C. Telfer.....	695,012	Mar. 11	1300	286	98	2004
Lacing-eye for shoes, &c.....	L. Ballbach.....	706,213	Aug. 5	402	86	100	1198
Lacing-eye-blank-fastening device.....	J. C. Telfer.....	713,715	Nov. 18	2325	541	101	1427
Lacing-hook.....	J. E. Hughes.....	711,768	Oct. 21	1263	582	101	582
Lacing-hook.....	F. J. A. Perry.....	690,993	Jan. 14	1186	268	98	263
Lacing-hook.....	F. H. Rees. (Reissue).....	11,972	Feb. 18	3045	672	98	1471
Lacing-hook.....	E. Kempshall.....	700,122	May 13	1902	442	99	1578
Lacing-hook.....	W. P. Bartel.....	704,609	July 15	2324	504	100	501
Lacing-hook.....	G. W. Chipley.....	705,562	July 29	4362	945	100	944
Lacing-hook.....	W. A. Dunham.....	707,090	Aug. 19	2325	468	101	1427
Lacing-hook.....	E. P. Purdie.....	710,210	Sept. 30	4308	968	100	2381
Lacing-hook.....	A. K. Lovell.....	714,591	Nov. 25	4115	910	101	1795
Lacing-hook.....	E. Kempshall.....	714,643	Nov. 25	4216	932	101	1813
Lacing-hook. Covered.....	F. N. Look and A. C. Estabrook.....	717,505	Dec. 30	5626	1221	101	3097
Lacing-hook for flat laces.....	W. A. Kelly. (Reissue).....	12,013	July 15	3149	680	100	672
Lacing-hook for women's shoes, &c.....	N. H. Clark.....	709,534	Sept. 23	3002	669	100	2545
Lacing-hook-setting-machine separator and stop.....	J. Pierce.....	692,340	Feb. 4	214	51	98	519
Lacing hook. Shoe.....	F. E. Vandercok.....	699,989	May 13	1672	384	99	1532
Lacing hook. Shoe.....	F. E. Vandercok.....	699,990	May 13	1674	384	99	1532
Lacing machine. Shoe.....	D. A. Williamson.....	692,956	Feb. 11	1365	297	98	1106
Lacing. Shoe.....	H. W. Hiller.....	699,889	May 13	1441	333	99	1485



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Lacing-strip.....	O. A. Albrecht.....	695,362	Mar. 11	1937	431	98	2136
Lacing-stud.....	L. L. Russell.....	704,118	July 8	1413	303	100	2927
Lacing stud and eyelet. Combined.....	G. L. Reenstierna.....	715,148	Dec. 2	955	206	101	2032
Lacing stud or hook.....	J. D. Strickler.....	695,961	Mar. 25	3024	686	98	2301
Lacing tip machine. Shoe.....	C. D. Weaver.....	708,282	Sept. 2	526	121	100	2048
Lacing tip. Shoe.....	W. L. Adams.....	712,632	Nov. 4	323	70	101	965
Ladder.....	J. C. McCombie.....	700,542	May 20	2800	639	99	1788
Ladder.....	R. L. Scott.....	704,123	July 8	1419	304	100	2949
Ladder.....	C. E. See.....	708,670	Sept. 2	1305	275	100	2237
Ladder.....	E. B. Smith.....	709,118	Sept. 16	2125	487	100	2440
Ladder.....	W. G. Siteman.....	714,753	Dec. 2	194	89	101	1877
Ladder. Aerial.....	F. S. Seagrave.....	691,878	Jan. 28	2866	645	98	649
Ladder. Aerial.....	F. S. Seagrave.....	691,879	Jan. 28	2867	646	98	649
Ladder and bench. Combination step.....	J. T. Writt.....	708,290	Sept. 2	547	124	100	2062
Ladder and escape. Fire.....	P. Bastianello.....	692,104	Jan. 28	3280	742	98	730
Ladder and hose - nozzle - controlling apparatus. Combined.....	J. Cook and A. G. Engwall.....	703,115	June 24	3381	777	99	2856
Ladder and scaffold. Combined.....	M. Bauer.....	715,944	Dec. 16	2505	551	101	2391
Ladder and settee. Combined.....	F. D. Allison.....	708,633	July 1	465	106	100	91
Ladder and shelf combined. Step.....	C. E. Page.....	693,892	Feb. 25	3189	704	98	1518
Ladder and truck therefor. Extension.....	E. A. Herndon.....	709,402	Sept. 16	2698	605	100	2568
Ladder. Double step.....	E. B. Smith.....	709,118	Sept. 16	2125	487	100	2440
Ladder. Extensible.....	M. Langen.....	715,091	Dec. 2	837	183	101	2012
Ladder. Extension.....	P. Pirsch.....	690,462	Jan. 7	146	31	98	33
Ladder. Extension.....	C. B. Totman.....	697,294	Apr. 8	1699	380	99	382
Ladder. Extension.....	C. H. Schambers.....	708,836	July 1	849	187	100	170
Ladder. Extension.....	W. H. Sibley.....	708,413	Sept. 2	742	167	100	2131
Ladder. Extension.....	W. Zottman.....	713,550	Nov. 11	2114	474	101	1347
Ladder. Fire.....	J. H. Stainbrook.....	693,728	Feb. 4	836	275	100	2237
Ladder. Fire.....	S. R. Henry.....	708,040	Sept. 2	84	19	100	1998
Ladder. Folding.....	H. Labranche and F. Thiot.....	716,057	Dec. 16	2721	600	101	2487
Ladder-iron.....	C. A. Truitt.....	696,848	Apr. 1	850	196	99	179
Ladder lock. Automatic extension.....	L. Ferguson.....	691,051	Jan. 14	1299	294	98	286
Ladder. Sectional.....	B. P. Hogan.....	700,690	May 20	3071	698	99	1844
Ladder. Step.....	H. L. Frizell.....	704,028	May 13	1741	401	99	1546
Ladder. Step.....	A. Mau and C. Paessel.....	702,574	June 17	2355	538	99	2630
Ladder. Step.....	V. B. St. John.....	705,475	July 22	4118	885	100	883
Ladder. Step.....	S. S. Adkins.....	712,351	Oct. 28	3745	810	101	832
Ladder. Step.....	P. F. Wynn.....	714,849	Dec. 2	417	88	101	1918
Ladder. Step.....	M. E. Trafton.....	716,149	Dec. 16	2905	689	101	2474
Ladder. Store-service.....	G. A. Coburn.....	706,162	Aug. 5	315	67	100	1181
Ladder. Trussed scaling.....	G. A. Edmison and A. H. Myers.....	699,374	May 5	463	108	99	1390
Ladders or the like. Antislipping foot for.....	T. H. Nance.....	707,119	Jan. 19	2361	529	100	1636
Ladle.....	F. H. Baldt.....	692,697	Feb. 4	853	185	98	974
Ladle.....	T. H. Baldt.....	694,987	Mar. 11	1157	253	98	1976
Ladle. Bottom-pouring.....	C. W. Sherman.....	698,565	Apr. 29	4042	894	99	918
Ladle shield-holder. Founder's.....	E. Grant.....	713,873	Nov. 18	2716	606	101	1488
Ladle-stopper.....	J. H. Allendorfer.....	712,111	Oct. 28	3323	728	101	796
Lamp.....	W. J. Smart.....	694,435	Mar. 4	139	42	98	1753
Lamp.....	W. R. Willson.....	695,985	Mar. 25	3067	695	98	2401
Lamp.....	F. J. Cleare.....	704,290	July 8	1737	379	100	365
Lamp.....	C. E. Gervais.....	706,923	Aug. 12	1779	398	100	1498
Lamp.....	G. E. Gervais.....	706,924	Aug. 12	1782	399	100	1498
Lamp.....	F. A. Cortis.....	708,957	Sept. 9	1783	411	100	2358
Lamp.....	T. J. Little, Jr.....	710,064	Sept. 30	4004	493	100	2865
Lamp.....	R. M. Dixon.....	711,298	Oct. 14	1746	377	101	878
Lamp.....	R. M. Dixon.....	711,299	Oct. 14	1747	378	101	379
Lamp.....	M. M. Johnson.....	712,071	Oct. 28	3257	714	101	723
Lamp.....	R. Marsh.....	713,125	Nov. 11	1252	284	101	1171
Lamp.....	R. Marsh.....	713,126	Nov. 11	1256	285	101	1172
Lamp.....	R. Marsh.....	713,127	Nov. 11	1258	285	101	1173
Lamp.....	W. J. Smart.....	694,435	Dec. 16	2385	528	101	2384
Lamp.....	M. S. Hufschmidt.....	716,043	Dec. 16	2687	594	101	2420
Lamp. Acetylene-gas.....	A. K. Miller.....	710,203	Sept. 30	4295	966	100	2928
Lamp. Acetylene-gas.....	A. K. Miller.....	710,204	Sept. 30	4299	967	100	2929
Lamp. Acetylene-gas-generating.....	E. M. Rosenbluth.....	693,060	Feb. 11	1568	342	98	1147
Lamp. Alcohol.....	S. Sternau and L. Strassburger.....	696,507	Apr. 1	199	48	99	47
Lamp and lamp-holder. Electric.....	H. J. Dowling.....	697,458	Apr. 15	199	46	99	464
Lamp and lantern. Combined.....	F. B. Waibel.....	709,616	Sept. 23	3106	713	100	2684
Lamp and socket. Incandescent electric.....	J. C. M. Brown.....	703,717	July 7	630	140	100	124
Lamp attachment.....	L. F. Köster, Jr.....	701,056	May 27	3789	867	99	2007
Lamp-bracket.....	A. Thurber.....	697,901	Apr. 15	2812	621	99	630
Lamp-burner.....	G. A. Smith.....	692,081	Jan. 28	3250	734	98	629
Lamp-burner.....	W. A. Penfield.....	693,701	Feb. 4	862	197	98	1290
Lamp-burner.....	F. Gregory.....	695,006	Feb. 11	1452	315	98	1124
Lamp-burner.....	H. S. Tompkins.....	698,464	Feb. 18	2360	517	98	1331
Lamp-burner.....	S. B. Morris.....	701,919	June 10	1135	260	99	2361
Lamp-burner.....	H. H. Zimmerman.....	704,422	July 8	1961	426	100	413
Lamp-burner.....	T. B. Abbott.....	707,811	Aug. 26	3531	798	100	1892
Lamp-burner.....	F. Lehmann.....	708,368	Sept. 2	668	150	100	2117
Lamp-burner.....	R. J. Bratton.....	713,201	Nov. 11	1394	314	101	1290
Lamp-burner.....	B. F. Fowler.....	713,364	Dec. 9	1362	294	101	2134
Lamp-burner attachment.....	H. L. Hills.....	694,858	Mar. 4	1003	222	98	1925
Lamp-burner attachment.....	A. L. Higgins.....	718,098	Nov. 11	1205	276	101	1161
Lamp burner. Oil.....	F. T. Williams.....	691,832	Jan. 28	2791	627	98	633
Lamp carbon-guide. Electric.....	W. J. Deming.....	715,643	Dec. 9	1869	415	101	2234
Lamp carbon-holder. Electric.....	P. F. Maines.....	717,333	Dec. 30	5152	1117	101	2989

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Lamp carbon-holder. Electric-arc.	J. A. Heany	711,567	Oct. 21	2253	489	101	498
Lamp. Carbureting.	G. Wedderburn	707,190	Aug. 19	2282	511	100	1620
Lamp. Carbureting.	O. D. Howell	714,696	Dec. 2	89	17	101	1856
Lamp. Carriage.	E. M. Rosenbluth	693,070	Feb. 11	1570	342	98	1148
Lamp. Carriage.	E. M. Rosenbluth	702,595	June 17	2395	547	99	2638
Lamp. Carriage.	I. H. Atwood	711,929	Oct. 28	2974	548	101	669
Lamp-chimney attachment.	A. T. Osbron	714,514	Nov. 25	3974	880	101	1764
Lamp-chimney holder.	J. A. Skaer	718,518	Nov. 11	2051	459	101	1335
Lamp-chimney protector.	W. C. Burriss	709,398	Sept. 16	2686	602	100	2566
Lamp circuit and cut-out. Electric-arc.	M. H. Baker	702,392	June 17	2002	457	99	2556
Lamp circuits. Maintaining uniform resistance in arc.	F. A. Gilbert	710,068	Sept. 30	4011	905	100	2-67
Lamp. Cluster incandescent gas.	S. Joseph	692,449	Feb. 4	400	96	98	881
Lamp coil. Arc.	W. H. Northall	714,226	Nov. 25	3448	758	101	1660
Lamp. Compound incandescent electric.	H. Gilmore	706,314	Aug. 5	626	137	100	1242
Lamp. Desk.	A. R. Fergusson	711,622	Oct. 21	2356	515	101	519
Lamp-dome support.	R. M. Dixon	711,297	Oct. 14	1745	377	101	378
Lamp. Electric	W. McConnell	695,756	Mar. 18	2641	600	98	2299
Lamp. Electric	C. Hubert	700,650	May 20	2977	683	99	1821
Lamp. Electric	H. H. Beecher, Jr.	704,851	July 15	2765	597	100	592
Lamp. Electric	A. Kusebauch	712,551	Nov. 4	183	43	101	935
Lamp. Electric	M. W. Hanks	716,889	Dec. 30	4468	968	101	2844
Lamp. Electric	A. J. Wurts	716,974	Dec. 30	4636	1005	101	2877
Lamp. Electric-arc.	S. H. Johnson	691,549	Jan. 21	2224	500	98	498
Lamp. Electric-arc.	H. C. Spinney	601,821	Jan. 28	2770	624	98	628
Lamp. Electric-arc.	H. Etheridge	691,851	Jan. 28	2825	634	98	639
Lamp. Electric-arc.	S. M. Meyer	693,041	Feb. 11	1511	329	98	1187
Lamp. Electric-arc.	S. M. Meyer	693,663	Feb. 18	2746	606	98	1410
Lamp. Electric-arc.	J. A. Heany	693,705	Feb. 18	2830	623	98	1426
Lamp. Electric-arc.	J. A. Heany	693,706	Feb. 18	2832	624	98	1427
Lamp. Electric-arc.	M. S. Okun	694,410	Mar. 4	147	32	98	1744
Lamp. Electric-arc.	R. Froment	696,807	Apr. 1	779	177	99	165
Lamp. Electric-arc.	J. Eberhardt	697,077	Apr. 8	1329	295	99	301
Lamp. Electric-arc.	H. Bremer	697,439	Apr. 15	1985	439	99	457
Lamp. Electric-arc.	C. E. Harthan	697,482	Apr. 15	2061	455	99	473
Lamp. Electric-arc.	M. S. Okun	698,046	Apr. 22	3089	680	99	704
Lamp. Electric-arc.	E. Aubach and F. Gubing	698,388	Apr. 22	3730	824	99	898
Lamp. Electric-arc.	P. H. F. Spies	698,575	Apr. 29	4037	897	99	921
Lamp. Electric-arc.	C. Gilbert	698,931	Apr. 29	4840	1068	99	1094
Lamp. Electric-arc.	A. Lees	699,196	May 6	121	32	99	1200
Lamp. Electric-arc.	J. S. Nowotny	699,225	May 6	165	40, 41	99	1209
Lamp. Electric-arc.	J. L. Davies	701,016	May 27	3723	852	99	1993
Lamp. Electric-arc.	G. G. Tilden	701,423	June 3	249	56	99	2159
Lamp. Electric-arc.	G. G. Tilden	704,485	July 15	2117	458	100	473
Lamp. Electric-arc.	H. Etheridge	704,526	July 15	2184	473	100	473
Lamp. Electric-arc.	J. S. Nowotny	705,122	July 22	3371	730	100	732
Lamp. Electric-arc.	J. S. Nowotny	705,541	July 22	4313	933	100	920
Lamp. Electric-arc.	R. Fleming	706,545	Aug. 12	1071	236	100	1347
Lamp. Electric-arc.	F. A. Gilbert and E. O. Lundin	706,547	Aug. 12	1074	237	100	1348
Lamp. Electric-arc.	C. L. Bundy	707,333	Aug. 19	2634	595	100	1603
Lamp. Electric-arc.	E. Edwards	708,032	Sept. 2	70	16, 17	100	1995
Lamp. Electric-arc.	R. Fleming	708,132	Sept. 2	248	59	100	2033
Lamp. Electric-arc.	C. E. Harthan	710,055	Sept. 30	3991	900	100	2862
Lamp. Electric-arc.	A. F. Shore	710,374	Sept. 30	4584	1034	100	2987
Lamp. Electric-arc.	L. C. H. Mensing	712,947	Nov. 4	921	213	101	1085
Lamp. Electric-arc.	J. A. Heany	715,797	Dec. 16	2191	490	101	2322
Lamp. Electric-arc.	H. Cuénod	717,497	Dec. 30	5614	1218	101	3084
Lamp. Electric glower.	H. N. Potter	696,380	Mar. 25	3904	866	98	2571
Lamp. Electric tube.	D. M. Moore	702,319	June 10	1852	422	99	2505
Lamp. Electric tube.	D. M. Moore	702,320	June 10	1854	422	99	2505
Lamp-extinguisher.	L. D. Lawrence	706,572	Aug. 12	1110	246	100	1356
Lamp. Formaldehyde Gas.	R. H. Humphrey (Reissue)	11,986	May 13	204	494	99	1603
Lamp. Gas.	A. H. Humphrey	696,640	Apr. 1	445	104	99	96
Lamp. Gas.	L. C. Fuller	701,323	June 3	79	16	99	2125
Lamp. Gas.	T. Maguire	702,143	June 10	1548	351	99	2445
Lamp. Gas.	R. Marsh	712,823	Nov. 4	670	136	101	1035
Lamp. Gas.	T. Brabson	714,444	Nov. 25	3852	852	101	1741
Lamp. Gas arc.	J. K. Russell and W. F. Clausen	691,001	Jan. 14	1202	272	98	266
Lamp gas-cap. Arc.	E. H. Beiden	710,659	Oct. 7	504	105	101	102
Lamp. Gas incandescent.	D. S. Williams	717,482	Dec. 30	5585	1212	101	3078
Lamp. Gas incandescent.	D. S. Williams	717,483	Dec. 30	5588	1213	101	3079
Lamp. Gas or vapor.	O. C. Hoffmann	715,801	Dec. 16	2199	491	101	2323
Lamp-globe holder.	R. D. Cranston	716,673	Dec. 23	3952	864	101	2708
Lamp globe-holder. Arc.	M. E. Stevens	697,757	Apr. 15	2558	598	99	572
Lamp-globe support.	R. M. Dixon	711,296	Oct. 14	1743	377	101	378
Lamp glower and attaching terminal wires thereto. Electric.	E. R. Roberts	710,369	Sept. 30	4577	1032	100	2986
Lamp glower and making same. Pyroelectric.	C. P. Steinmetz	701,959	June 10	1208	275	99	2376
Lamp glower. Electric.	H. N. Potter and W. Nernst	717,022	Dec. 30	4729	1025	101	2698
Lamp glowers. Circuit-breaker for electric.	F. M. Goddard	710,356	Sept. 30	4554	1027	100	2982
Lamp glowers. Making electric.	M. W. Hanks	690,850	Jan. 7	924	206	98	195
Lamp-hanger.	H. J. Harrison	698,308	Mar. 11	1859	413	98	2118
Lamp-hanger.	H. J. Harrison	698,278	Apr. 22	3549	782	99	801
Lamp-hanger.	T. Lindsay and L. L. White	700,517	May 20	2757	631	99	1775
Lamp hanger. Adjustable electric.	H. G. Breitwieser	709,533	Sept. 23	3000	668	100	2645



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Lamp heater-wire support and making same. Electric.	H. N. Potter	695,946	Mar. 25	2996	678	98	2385
Lamp high-pressure burner. Incandescent.	J. and G. Keith	719,768	Nov. 18	2530	563	101	1451
Lamp holder. Electric incandescent.	E. G. Sheppard	701,949	Nov. 10	1190	271	99	2373
Lamp-holders. Match-safe attachment for miners.	J. A. Brown	709,452	Sept. 16	2800	680	100	2591
Lamp hood and switch	H. Etheridge	697,708	Apr. 15	2474	552	99	554
Lamp. Hunter's	R. C. Kruschke	711,871	Oct. 21	2848	629	101	625
Lamp. Hydrocarbon.	S. B. Morris	691,068	Jan. 14	1323	299	98	291
Lamp. Hydrocarbon.	C. H. De Voll	699,912	May 13	1531	352	99	1506
Lamp. Hydrocarbon.	T. H. Blair	700,475	May 20	2672	612	99	1756
Lamp. Hydrocarbon.	J. G. Branch	703,231	June 24	3610	830	99	2002
Lamp. Hydrocarbon.	J. Bystrom	703,384	July 1	38	8	100	10
Lamp. Hydrocarbon.	W. Hawks	705,582	July 29	4394	953	100	950
Lamp. Hydrocarbon.	G. R. Stillman	707,177	Aug. 19	3256	504	100	1613
Lamp. Hydrocarbon incandescent	P. B. Curran	705,044	July 22	3307	683	100	699
Lamp. Hydrocarbon incandescent	G. Washington	706,504	Aug. 5	992	219	100	2318
Lamp. Hydrocarbon-vapor incandescent	W. S. Proske	714,947	Dec. 2	615	129	101	1958
Lamp. Incandescent	H. Garwood	692,260	Feb. 4	88	20	98	817
Lamp. Incandescent	H. Boehm	693,222	Feb. 11	1914	416	98	1217
Lamp. Incandescent	E. McQuat	694,068	Feb. 25	3545	782	98	1590
Lamp. Incandescent	L. Thayer	695,844	Mar. 18	2809	639	98	2333
Lamp. Incandescent	P. M. J. Juge and A. E. Grisel	696,100	Mar. 25	3308	745	98	2452
Lamp. Incandescent	H. J. Jaeger	703,721	July 2	572	169	100	1375
Lamp. Incandescent	H. Meyers	708,158	Sept. 2	397	74	100	2045
Lamp. Incandescent	L. S. Pfouts	711,523	Oct. 21	2169	473	101	481
Lamp. Incandescent electric	A. A. Chaillet	701,295	June 3	29	6	99	2114
Lamp. Incandescent electric	H. Gilmore	706,313	Aug. 5	624	136	100	1242
Lamp. Incandescent electric	E. S. Gardner	707,099	Aug. 19	2102	469	100	1580
Lamp. Incandescent electric	G. C. Webster	708,432	Sept. 2	773	173	100	2137
Lamp. Incandescent electric	A. V. W. Miller	708,681	Sept. 9	1172	267	100	2231
Lamp. Incandescent electric	J. B. Hirsch	711,539	Oct. 21	2191	477	101	486
Lamp. Incandescent electrode vapor electric	P. C. Hewitt	690,952	Jan. 14	1098	247	98	245
Lamp. Incandescent gas	W. Tice	694,695	Mar. 4	691	150	98	1857
Lamp. Incandescent gas	A. B. Redell	698,225	Apr. 22	3454	759	99	781
Lamp. Incandescent gas	J. Lowy	708,070	June 24	3306	760	99	2841
Lamp. Incandescent gas	L. T. Alton	703,978	July 8	1127	244	100	239
Lamp. Incandescent gas	F. M. Brooks	705,813	July 28	1047	104	100	1896
Lamp. Incandescent gas	G. T. Reuten	707,185	Aug. 19	2273	509	100	1617
Lamp. Incandescent gas	L. D. Frenot and A. Gimonet	710,446	Oct. 7	83	19	101	19
Lamp. Incandescent gas	T. Brabson	714,443	Nov. 25	3850	851	101	1740
Lamp. Incandescent hydrocarbon	G. Galkin	714,472	Nov. 25	3896	860	101	1750
Lamp. Incandescent oil	E. E. Flora	711,153	Oct. 14	1444	313	101	915
Lamp. Incandescent spirit	R. B. Wether	716,316	Dec. 16	3325	708	101	2540
Lamp. Incandescent vapor	A. J. Simpson, Jr.	712,341	Oct. 28	3725	814	101	818
Lamp. Inclosed arc.	W. L. Cheney, G. R. Davison, and E. W. Skinner.	702,405	June 17	2024	462	99	2560
Lamp. Interchangeable direct and alternating current arc	M. H. Baker	715,741	Dec. 16	2072	465	101	2297
Lamp lighter and match-extinguisher	W. R. Cain and O. B. Kane	696,854	Apr. 1	859	198	99	182
Lamp lighter. Time	O. V. Sigurdsson and H. Burtles	699,027	Apr. 29	4995	1105	99	1125
Lamp liquid-level indicator	W. R. Jeavons	714,377	Nov. 25	3730	822	101	1718
Lamp. Mercury-vapor	H. N. Potter	707,975	Aug. 26	3841	863	100	1953
Lamp. Mercury-vapor	H. N. Potter	707,976	Aug. 26	3843	863	100	1953
Lamp. Miner's safety	A. M. Dando and F. H. Stair	700,407	May 20	2543	582	99	1229
Lamp. Oil	H. E. Bottlewalla	706,717	Aug. 12	1375	306	100	1413
Lamp or gas-burner heating attachment	E. H. Truax	699,598	May 13	1584	303	99	1515
Lamp or oil-heater burners. Wick-stop for	W. B. Penfield	691,710	Jan. 21	2528	566	98	561
Lamp protector. Electric	F. B. Garretson	715,254	Dec. 9	1156	247	101	2091
Lamp reflector-shade. Electric arc	W. E. Goldsborough	702,791	June 17	2758	635	99	2714
Lamp. Regenerative gas	T. S. Leese	713,460	Nov. 11	1915	433	101	1307
Lamp. Self-extinguishing non-explosive	T. E. Freeman and T. M. Henderson	696,864	Apr. 1	877	203	99	186
Lamp service. Interchangeable hood-support for high-tension electric	J. H. B. Conger and C. J. Eichhorn	712,652	Nov. 4	859	83	101	972
Lamp-shade	S. Takaba	693,460	Feb. 18	2354	515	98	1330
Lamp shade-holder. Incandescent electric	E. A. Russell	703,308	June 24	3724	858	99	2925
Lamp shade-holder. Incandescent electric	R. W. Schmelz	700,856	Aug. 12	1669	371	100	1474
Lamp shade-holder. Incandescent electric	R. W. Schmelz	708,739	Sept. 9	1336	395	100	2265
Lamp. Signal	T. McWatters	705,280	July 22	3725	809	100	802
Lamp. Signal	F. K. Wright	705,808	July 29	4806	1043	100	1032
Lamp-socket	C. H. Dressel	714,564	Nov. 25	4033	899	101	1780
Lamp-socket	J. C. Tournier	690,447	Jan. 7	216	43	98	47
Lamp-socket	H. P. Clausen	690,928	Jan. 14	1060	238	98	238
Lamp-socket	P. H. Fielding	714,292	Nov. 25	3588	789	101	1689
Lamp socket. Electric	S. A. Koltonski	692,458	Feb. 4	413	98	98	883
Lamp socket. Electric	J. D. Pierce	693,738	Feb. 18	2888	635	98	1440
Lamp socket. Electric	M. Norden	698,218	Apr. 22	3445	756	99	780
Lamp socket. Electric	H. T. Paiste	712,149	Oct. 22	3490	845	100	750
Lamp socket. Electric	M. Norden	714,022	Nov. 18	3014	671	101	1552
Lamp socket. Electric	C. D. Platt	716,578	Dec. 23	3778	821	101	2671
Lamp socket. Electric incandescent	G. H. Proctor	709,467	July 1	167	39	100	36
Lamp socket. Incandescent	N. Marshall	690,976	Jan. 14	1149	260	98	256
Lamp socket. Incandescent	H. T. Paiste	696,261	Mar. 25	3635	812	98	2517
Lamp socket. Incandescent	W. H. Perkins	698,133	Apr. 22	3280	719	99	743
Lamp socket. Incandescent	H. P. Dixon	698,344	Apr. 22	3740	826	99	840
Lamp socket. Incandescent	C. A. Chase	701,680	June 3	724	159	99	2260
Lamp socket. Incandescent	W. A. Church	711,243	Oct. 14	1636	352	101	355
Lamp socket. Incandescent	O. E. Kenney	712,685	Nov. 4	410	96	101	982
Lamp socket. Incandescent	O. E. Kenney	712,686	Nov. 4	411	96	101	983
Lamp socket. Incandescent	A. P. Seymour	716,487	Dec. 23	5382	782	101	2630
Lamp socket. Incandescent electric	A. McKenzie	691,593	Jan. 21	2246	596	98	503
Lamp socket. Incandescent electric	J. W. H. Uytendogaart	699,087	Feb. 11	1601	349	98	1155

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Lamp sockets. Insulating lining for incandescent.	H. T. Paiste	692,700	Feb. 4	861	197	98	976
Lamp sockets. Machine for molling incandescent.	C. A. Chase	707,399	Aug. 19	2482	557	100	1661
Lamp. Spirit.	W. J. D. Mast	703,604	July 1	403	94	100	80
Lamp. Street.	F. A. R. Adam	691,886	Jan. 28	2877	648	98	651
Lamp. Street.	J. C. Heinrich and J. W. McCuen	697,717	Apr. 15	2488	1555	99	558
Lamp. Student's.	A. P. Storrs	698,580	Apr. 29	4067	899	99	924
Lamp support.	W. J. Bailey	713,332	Nov. 18	2640	589	101	1473
Lamp support. Electric.	C. M. Stread	707,633	Aug. 26	3101	716	100	1825
Lamp support. Incandescent.	F. W. Morse	695,646	Mar. 18	2466	559	98	2264
Lamp-supporting device. Electric.	W. F. Brewster.	703,984	July 8	1136	246	100	241
Lamp switch. Electric.	J. F. Krayner	697,727	Apr. 15	2508	560	99	562
Lamp. Train-signal.	E. F. Moses and J. Lange	697,868	Apr. 15	2766	613	99	620
Lamp. Vapor-burning.	E. J. Frost.	713,395	Nov. 11	1629	363	101	1245
Lamps. Apparatus for automatically lighting or extinguishing gas.	T. F. Westenholz	713,031	Nov. 4	1054	1246	101	1112
Lamps. Apparatus for distributing hydrocarbon under pressure to hydrocarbon.	J. G. Branch.	698,364	Apr. 22	3087	814	99	830
Lamps. Automatic lighter or extinguisher for gas.	N. H. Shaw	691,917	Jan. 28	2931	1661	98	662
Lamps by electricity. Device for lighting.	S. M. Meyer	705,773	July 29	4747	1028	100	1020
Lamps connected in series. System of distribution for electric	M. C. Beebe	695,900	Mar. 25	2915	660	98	2370
Lamps. Contact for electrical glow.	A. Lefebre.	697,856	Apr. 15	2738	607	99	614
Lamps. Controlling arc.	E. Oxley.	697,007	Apr. 8	1196	268	99	273
Lamps. Controlling electric.	E. Oxley.	697,161	Apr. 8	1461	328	99	330
Lamps. Exhausting incandescent electric	S. E. Doane	710,186	Sept. 30	4257	959	100	2918
Lamps. Gas-detecting attachment for miners' safety.	M. D. Mackie	692,885	Feb. 11	1213	299	98	1074
Lamps, glasses, &c. Device for cleaning	K. Lurtz.	698,627	Apr. 29	3978	873	99	905
Lamps having incandescent mantles. Burner for oil.	J. C. Nielsen	692,470	Feb. 4	436	102	98	888
Lamps. Mantle for incandescent gas.	O. Kaufmann	708,812	Sept. 9	1495	342	100	2300
Lamps. Manufacturing incandescent electric	E. S. Gardner.	697,469	Apr. 15	2039	449	99	467
Lamps of relatively low voltage. Exhausting incandescent electric	S. E. Doane	710,099	Sept. 30	4085	922	100	2881
Lamps or motors. Electric-current controller for incandescent	H. A. Strauss.	717,468	Dec. 30	5561	1207	101	3073
Lamps. Removable heater for electric	M. W. Hanks	695,928	Mar. 25	2965	671	98	2380
Lamps. Treating ballast-wires for electric	H. N. Potter	699,232	May 6	183		99	1211
Lampblack apparatus	J. L. Mann	706,429	Aug. 5	861	189	100	1288
Lampblack-making apparatus	J. H. Mann	706,431	Aug. 5	873	190	100	1292
Lampblack. Producing.	J. J. Ogilvy	706,001	July 29	5140	1123	100	1102
Land-roller.	D. C. Stark.	694,213	Feb. 25	3814	843	98	1642
Land-roller.	C. K. Longenecker	699,694	May 13	1095	257	99	1413
Land-roller.	A. Yoost.	709,729	Sept. 23	3327	749	100	2712
Land-roller.	R. S. Buch.	713,598	Nov. 18	2214	492	101	1383
Lantern	G. L. Wilson	701,276	May 27	4187	961	99	2087
Lantern.	A. T. Bishop	705,316	July 29	4821	1047	100	1096
Lantern	H. R. Menzie and J. E. Rogers	717,012	Dec. 30	4712	1021	101	2894
Lantern	J. T. Casey	717,346	Dec. 30	5339	1161	101	3030
Lantern-globes. Manufacture of.	A. B. Houghton	717,501	Dec. 30	5619	1220	101	3085
Lantern-holder.	H. H. Hutchins.	711,501	Oct. 21	2122	461	101	471
Lantern-lighter	F. C. Smith	715,166	Dec. 2	985	214	101	2038
Lantern-pinion.	A. H. Neureuther	712,325	Oct. 28	3699	808	101	813
Lantern. Railway.	E. G. Bishop	697,348	Apr. 8	1782	400	99	390
Lantern. Signal.	E. B. Hughes	699,526	May 6	746	174	99	1329
Lantern. Signal.	C. A. E. Ruebel.	699,576	May 6	853	199	99	1351
Lantern. Signal.	G. H. Bradet.	707,545	Aug. 26	2950	667	100	1775
Lantern. Signal.	S. and J. Weber	714,073	Nov. 18	3125	691	101	1575
Lantern. Signal.	A. C. Bunne	716,332	Dec. 16	3362	713	101	2548
Lantern-slide-moving device. Automatic	W. Fredrick	695,518	Mar. 18	2268	513	98	2222
Lantern. Tubular.	H. J. Valentine.	714,066	Nov. 18	3116	688	101	1573
Lantern ventilating-jack	A. F. Prahm	698,053	Apr. 22	3103	683	99	708
Lap-board	W. R. Hoffmann	696,044	Mar. 25	3189	720	98	2426
Lap-ring	R. L. Kilgore	697,630	Apr. 15	2330	520	99	526
Lap-robe	J. T. Forster	702,297	June 10	1809	413	99	2498
Lapping-machine	W. I. Lewis	695,160	Mar. 11	1593	352	98	2064
Lapping-machine	W. I. Lewis	710,107	Sept. 30	4093	925	100	2823
Lapping-pin	J. D. Winchester	700,185	May 30	2091	478	99	1664
Last.	J. C. Iredale	692,447	Feb. 4	397	96	98	880
Last.	E. S. Morton	694,659	Mar. 4	619	134	98	1843
Last.	E. C. Verrill	696,215	Mar. 25	3550	794	98	2499
Last.	C. B. Koters	696,246	Mar. 25	3603	806	98	2510
Last.	A. G. Fitz	705,574	July 29	4382	950	100	948
Last.	F. J. Shainsey	706,499	Aug. 5	980	218	100	1317
Last.	J. D. Winchester	707,988	Aug. 26	3893	875	100	1964
Last.	D. L. Purinton	708,077	Sept. 2	145	35	100	2011
Last.	A. B. Taylor	709,425	Sept. 16	2742	616	100	2578
Last.	G. W. French	715,472	Dec. 9	1560	338	101	2172
Last.	W. B. Arnold	716,511	Dec. 23	3636	794	101	2640
Last and union therefor. Transversely-divided boot or shoe	A. D. Tyler, Jr	697,044	Apr. 8	1263	281	99	287
Last. Darning.	A. E. Macdonald	694,562	Mar. 4	440	95	98	1806
Last. Darning.	E. D. White	700,866	May 27	3433	789	99	1933
Last. Darning.	M. G. Tilney	705,484	July 22	4142	900	100	887
Last. Hinged	J. T. Brown	699,785	May 13	1267	294	99	1448
Last-sawing machine	E. W. Gerrish	698,006	Apr. 22	3022	664	99	691
Last. Sectional shoe.	N. F. Hagström	709,358	July 1	1077	232	100	214
Last. Shoe.	J. O. Caldwell and W. L. Damon	717,342	Dec. 30	5330	1160	101	3028
Last-trimming machine	B. Gallagher	692,844	Feb. 11	1111	249	98	1052
Lasting-machine	R. H. Chamberlin	693,687	Feb. 18	2802	616	98	1422
Lasting-machine.	M. F. Kelley	693,720	Feb. 18	2852	628	98	1431



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Lasting-machine	J. Cavanagh, Jr.	696,717	Apr. 1	616	1137	99	134
Lasting-machine	S. W. Ladd	696,740	Apr. 1	654	1147	99	140
Lasting-machine	R. Eder	698,476	Apr. 29	3900	861	99	889
Lasting-machine	M. F. Kelley	701,052	May 27	3782	866	99	2005
Lasting-machine	S. Snow	701,411	June 3	223	50	99	2153
Lasting-machine	S. Snow	701,412	June 3	225	51	99	2154
Lasting-machine	M. F. Kelley. (Reissue)	12,012	July 15	3146	680	100	672
Lasting-machine, Pneumatic	C. K. Pickles	704,098	July 8	1357	1295	100	284
Latch	G. E. Ballard	691,520	Jan. 21	2185	490	98	490
Latch	C. P. Howard	696,176	Mar. 25	3478	779	98	2485
Latch	T. C. Hamilton	698,940	Apr. 29	4854	1071	99	1068
Latch	G. H. Pierce	702,074	June 10	1445	324	99	2423
Latch	A. Charles	702,185	June 10	1467	366	99	2463
Latch	J. W. Czernak and J. Tischler	705,301	July 22	3764	817	100	811
Latch	D. W. Tower	708,097	Sept. 2	178	42	100	2018
Latch	O. H. Burden	708,862	Sept. 9	1694	366	100	2323
Latch	C. Garber	709,538	Sept. 23	3006	670	100	2646
Latch	E. S. Cowan	712,120	Oct. 28	3345	732	101	741
Latch	W. S. Bartholomew	712,899	Nov. 4	821	161	101	1065
Latch	S. F. Beckwith	716,669	Dec. 23	3946	862	101	2798
Latch	J. W. Connolly	716,669	Dec. 23	3946	862	101	2798
Latch	R. E. Miller	712,145	Oct. 28	3392	743	101	750
Latch, Adjustable gravity	H. Chesher	696,411	Apr. 1	88	9	99	12
Latch and bolt, Combined	D. W. Tower	703,975	July 1	1116	241	100	221
Latch and lock, Combined	C. B. Livingston	692,463	Feb. 4	423	100	98	886
Latch, Door	I. D. Beach	695,267	Mar. 11	1773	362	98	2106
Latch, Door	W. H. Wilsey	697,360	Apr. 8	1732	884	99	367
Latch, Door	S. M. Moore	712,367	Nov. 4	209	49	101	941
Latch, Door or gate	C. J. Moore	712,318	Oct. 28	3684	805	101	800
Latch, Door thumb	H. Chesher	692,827	Feb. 11	1086	243	98	1046
Latch, Gate	P. J. Setbacken	714,954	Dec. 2	626	132	101	1961
Latch-operating device, Door	G. H. Kuff	695,319	Mar. 11	1871	416	98	2121
Latch, Self-locking	J. H. Kruse	696,684	Apr. 1	543	125	99	118
Latch, Sliding-door	G. G. Deffenbaugh	702,590	July 1	51	10	100	13
Lath for plastering-foundations	J. John	690,435	Jan. 7	94	21	98	23
Lathe	L. G. Merritt	699,547	May 6	788	185	99	1238
Lathe	F. Lorich	706,673	Aug. 12	1308	288	100	1399
Lathe	J. L. Osgood	707,155	Aug. 19	2200	405	100	1642
Lathe	O. G. Edmund	712,277	Oct. 28	3614	789	101	795
Lathe alignment-gage	W. C. Fox and C. J. Shaw	711,763	Oct. 21	2637	580	101	580
Lathe attachment	J. E. Mills	697,265	Apr. 8	1644	1368	99	370
Lathe attachment	W. H. Dent	697,819	Apr. 15	2671	593	99	308
Lathe attachment	J. D. Hewitt	701,724	June 3	804	178	99	2276
Lathe attachment	R. M. Russell	710,807	Oct. 7	793	170	101	163
Lathe attachment for cutting spirals	E. Rivett	692,033	Jan. 28	3143	709	98	703
Lathe attachment for relieving the teeth of cutters.	F. W. Parker	690,768	Jan. 7	767	171	98	162
Lathe auxiliary appliance	S. H. Croker	704,440	July 8	1996	434	100	420
Lathe back gearing	J. Hartness	703,411	July 1	85	16	100	20
Lathe center rest	A. Kingsbury	716,432	Dec. 23	3465	756	101	2696
Lathe centering attachment	J. M. Fleming	707,573	Aug. 26	3016	678	100	1787
Lathe-dog	T. C. Thompson	715,900	Dec. 16	2413	534	101	2371
Lathe, Engine	W. T. S. Johnson	706,665	Aug. 12	1289	284	100	1394
Lathe-feed	B. M. W. Hanson and F. W. Gordon	701,564	June 8	513	113	99	2214
Lathe for turning irregular forms	W. L. Cole	696,693	Mar. 25	3278	741	98	2443
Lathe for turning irregular forms	F. J. Leland	703,798	July 1	789	172	100	157
Lathe grinding attachment	R. M. Russell	710,808	Oct. 7	798	171	101	163
Lathe, Multiple-spindle	F. Hirsch	694,277	Feb. 25	3925	874	98	1665
Lathe-pan device	H. C. Osborn	697,413	Apr. 8	1930	430	99	429
Lathe-relieving attachment	B. M. W. Hanson	714,894	Dec. 2	510	107	101	1938
Lathe-tool	W. F. Koeller and H. Dyer	693,974	Feb. 25	3349	736	98	1550
Lathe-tool-carriage	W. F. Barnes	699,440	May 6	599	137	99	1299
Lathe, Turret	J. P. Lavigne	700,146	May 13	1985	455	99	1594
Lathe-turret stop	B. M. W. Hanson	699,310	May 6	341	73	99	1243
Lathe-turret stop	B. M. W. Hanson	701,719	June 3	788	175	99	2273
Lathe work, Multiple gage for	E. J. Bowers	696,309	Mar. 25	3743	836	98	2541
Lathes, Automatic reversing tapping attachment for	A. Klein	693,655	Feb. 18	2733	603	98	1408
Lathes, Feed mechanism for screw-cutting	W. A. Wood	715,921	Dec. 16	2456	541	101	2381
Lathes, Pivot-grinding attachment for jewelers'	J. E. and W. R. Jackson	715,663	Dec. 9	1914	427	101	2344
Lathes, &c. Spindle attachment for	A. C. Witzel	704,726	July 15	2523	545	100	543
Lathing, Metallic	F. A. Mitchell	704,072	July 8	1314	296	100	275
Lathing-tool	W. S. Moore	713,131	Nov. 11	1263	286	101	1174
Laundry-bag	G. H. Grant	690,854	Jan. 7	921	206	98	194
Laundry bracket or clamp	J. T. Watkins	694,302	Feb. 25	3971	884	98	1676
Laundry gloss	O. M. Nash	713,344	Dec. 16	2292	517	101	2344
Laundry-machine	D. W. Keith	693,030	Feb. 11	1487	325	98	1132
Laundry purposes, Polishing-block for	M. Lehmann	706,967	Aug. 12	1855	415	100	1512

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Lavatory .....	J. T. Moore .....	712,834	Nov. 4	608	161	101	1042
Lawn cutter and roller. Motor-propelled .....	W. P. Simpson .....	706,864	Aug. 12	1676	375	100	1477
Lawn edge-trimmer .....	W. W. McCallum .....	715,888	Dec. 16	2572	506	101	2389
Lawn-rake .....	W. L. Friess .....	697,137	Apr. 8	1122	317	99	3232
Lawn-rake .....	F. A. Smith .....	710,900	Oct. 7	944	207	101	192
Lawn-seat .....	M. C. Farr .....	886,425	Apr. 1	60	14	99	16
Lawn-sprinkler .....	H. Papenfus .....	690,762	Jan. 7	766	176	98	162
Lawn-sprinkler .....	A. Vandervoort .....	691,419	Jan. 21	2001	449	98	451
Lawn-sprinkler .....	H. H. Gray .....	702,792	June 17	2760	635	99	3714
Lawn-sprinkler .....	P. Moderson .....	706,986	Aug. 12	1883	421	100	1515
Lawn-sprinkler .....	J. Smith .....	717,042	Dec. 30	4761	1032	101	2908
Lawn-sprinkler. Traveling .....	A. Munch .....	693,421	Feb. 18	2281	500	98	1314
Lawn-trimmer .....	W. H. Moss .....	695,166	Mar. 11	1533	354	98	2061
Lawn-trimming implement .....	C. Fernstrom .....	709,976	Sept. 30	3850	869	100	2834
Leaching ores, &c. Apparatus for .....	G. Moore .....	708,334	Aug. 5	693	144	100	1249
Lead and lead alloys. Electrolytic refining of .....	G. E. Betts .....	713,777	Nov. 11	1588	359	101	1237
Lead and zinc fumes. Refining .....	F. L. Bartlett .....	715,238	Dec. 9	1130	242	101	2085
Lead. Apparatus for making white .....	J. H. Montgomery .....	714,009	Nov. 18	2992	666	101	1547
Lead. Apparatus for manufacturing white .....	F. J. Corbett .....	694,139	Feb. 25	3660	809	98	1613
Lead. Apparatus for producing white .....	J. W. Bailey .....	709,954	Sept. 30	3737	857	100	2824
Lead. Apparatus for producing white .....	J. W. Bailey .....	709,956	Sept. 30	3810	858	100	2823
Lead carbonate. Producing .....	J. W. Bailey .....	709,955	Sept. 30	3803	858	100	2823
Lead drier. White .....	T. E. Kearns .....	693,860	Feb. 25	3137	694	98	1508
Lead. Electrodeposited .....	A. G. Betts .....	713,278	Nov. 11	1589	359	101	1238
Lead from lead ores. Obtaining metallic .....	A. Gernot .....	690,520	Jan. 7	303	.....	98	66
Lead. Making white .....	W. H. Rowley .....	713,155	Nov. 11	1300	267	101	1381
Lead. Manufacturing white .....	F. J. Corbett .....	694,138	Feb. 25	3657	809	98	1613
Lead. Manufacturing white .....	C. H. Beckerman .....	713,670	Nov. 1	759	176	101	1054
Lead-press .....	R. F. Hall .....	693,308	May 6	337	78	99	1243
Lead. Producing white .....	J. W. Bailey .....	709,957	Sept. 30	3814	859	100	2825
Lead sulfate into lead carbonate. Converting .....	A. S. Ramage .....	715,214	Dec. 2	1078	281	101	2057
Leading-spindle .....	O. Sundt .....	697,291	Apr. 8	1696	379	99	381
Leaf-holder .....	C. P. Weaver .....	704,410	July 8	1944	421	100	400
Leaf-sheets. Means for extending and thickening .....	A. O. and E. R. Kittredge .....	714,713	Dec. 2	130	25	101	1162
Leaf-turner .....	J. Talbot .....	690,395	Jan. 7	18	4	98	7
Leaf-turner .....	P. Stein .....	699,037	Apr. 29	5015	1109	99	2818
Leather .....	M. Pianko .....	704,707	July 15	2184	536	100	555
Leather and producing it. Imitation .....	H. Rosenberg .....	695,627	Mar. 18	2434	.....	98	2256
Leather articles. Machine for buffing .....	J. R. Scott .....	694,431	Mar. 4	184	10, 41	98	1732
Leather articles. Machine for buffing .....	J. R. Scott .....	699,248	May 6	208	.....	99	1216
Leather-coloring machine .....	W. H. Moore .....	693,561	Feb. 18	2541	561	98	1369
Leather-cutting machine .....	H. Stockman .....	703,160	June 24	3481	800	99	2876
Leather-folding machine .....	R. H. Lufkin .....	712,657	Nov. 18	2321	517	101	1405
Leather. Imitation .....	G. Youngwitz .....	715,928	Dec. 16	2473	.....	101	2385
Leather-lace cutter .....	G. J. Borkander .....	704,294	July 8	1732	377	100	364
Leather. Making pebbled .....	M. Pianko .....	698,411	Apr. 22	3767	831	99	846
Leather. Manufacture of artificial .....	G. S. and C. Falkenstein .....	714,791	Dec. 2	282	60	101	1895
Leather-press .....	J. Thomson .....	712,865	Nov. 4	752	175	1-1	1052
Leather-scarfing machine .....	P. Stein .....	703,012	June 24	3183	733	99	2818
Leather-setting-frame clamp .....	J. T. Lykens .....	705,105	July 22	3342	727	100	726
Leather shredding and grinding machine .....	R. J. Young .....	697,228	Apr. 8	1581	353	99	355
Leather-skiving machine .....	B. Fischer .....	698,918	Apr. 29	4823	1064	99	1091
Leather-skiving machine .....	J. W. Poole .....	707,351	Aug. 19	2578	582	100	1681
Leather-staking machine .....	W. H. Moore .....	711,172	Oct. 14	1496	322	101	326
Leather-strap-cutting machine .....	W. F. Murphy .....	711,518	Oct. 21	2159	471	101	478
Leather. Stretching .....	J. Caldwell .....	702,867	June 17	2895	670	99	2743
Leather-stretching apparatus .....	T. Murdock .....	712,706	Nov. 4	440	103	101	958
Leather-stretching clamp .....	J. Schneider .....	707,869	Aug. 26	3645	821	100	1913
Leather-stretching device .....	J. Caldwell .....	690,397	Jan. 7	21	5	98	8
Leather-stretching device .....	J. Caldwell .....	692,615	Feb. 4	709	164	98	944
Leather-stretching device .....	J. Caldwell .....	696,716	Apr. 8	614	137	99	133
Leather-stretching device .....	J. Caldwell .....	697,449	Apr. 15	1994	440	99	450
Leather-stretching device .....	J. Caldwell .....	699,823	May 13	1360	316	99	1468
Leather-stretching device .....	J. Caldwell .....	704,510	July 15	2147	465	100	465
Leather-stretching device .....	J. Schneider .....	717,288	Dec. 30	5243	1139	101	3009
Leather-stretching machine .....	J. Caldwell .....	701,838	June 10	988	220	99	2332
Leather-stretching-machine clamp .....	R. L. Braucht .....	691,106	Jan. 14	1379	344	98	302
Leather-surface. Finishing .....	C. J. Miller .....	702,450	June 17	2119	481	99	2581
Leather-treating machine .....	H. A. Ballard and W. A. Copeland .....	691,303	Jan. 14	1750	399	98	379
Leather-working machine .....	H. A. Ballard .....	691,302	Jan. 14	1746	397	98	378
Leather-working machine .....	E. E. Chain and W. B. Turner .....	691,306	Jan. 14	1764	401	98	383
Leather-working machine .....	E. E. Chain and W. A. Copeland .....	691,307	Jan. 14	1768	402	98	383
Leather-working machine .....	A. F. Jones .....	695,729	Mar. 18	2596	588	98	2239
Leather-working machine .....	C. P. Vaughn .....	695,770	Mar. 18	2661	605	98	2302
Leather-working machine .....	J. K. Miller .....	702,023	June 10	1329	303	99	2398
Leather-working machines. Operating-roll for .....	A. F. Jones .....	710,102	Sept. 30	4099	923	100	2882
Leathers. Varnish for making enamel or patent .....	H. C. McKay .....	704,082	July 8	1327	.....	100	278
Leaves. Device for holding removable .....	R. G. Whitlock .....	700,867	May 27	3455	725	99	1383
Ledger .....	J. E. Winn .....	704,320	July 8	1938	426	100	412
Ledger. Flat-opening loose-leaf .....	G. F. C. Houghton .....	716,232	Dec. 16	3079	672	101	2511
Ledger-leaf .....	W. G. Jones .....	711,900	Oct. 21	2898	640	101	635
Ledger. Loose-leaf .....	A. V. Wells .....	693,767	Feb. 18	2933	645	98	1449



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Ledger. Loose-leaf.....	J. Barker.....	700,604	May 20	2894	665	99	1808
Ledger. Loose-leaf.....	F. Sedgwick.....	701,092	May 27	3844	882	99	2419
Ledger. Loose-leaf.....	E. B. Goodman.....	710,966	Oct. 14	1069	883	101	234
Ledger. Loose-leaf.....	H. P. Sorman.....	712,297	Oct. 28	3650	797	101	842
Ledger. Self-indexing.....	S. B. Kirtley.....	711,249	Oct. 14	1647	335	101	367
Ledger. Separable.....	J. F. Warne.....	715,184	Dec. 2	1023	222	101	2045
Ledger, trial-balance, and balance-sheet book combined. Continuous-index.....	C. W. Marshall.....	714,003	Nov. 18	2980	603	101	1544
Leer.....	R. Naysmith and B. F. Reese.....	707,943	Aug. 19	2566	579	100	1678
Leers. Adjustable sheave-arm for.....	J. Goodman.....	708,543	Sept. 9	978	221	100	2191
Leg and ankle joint. Artificial.....	S. E. Stangs.....	714,052	Nov. 18	3085	682	101	1569
Leg. Artificial.....	J. A. Peer.....	694,325	Feb. 25	4074	907	98	1689
Leg. Artificial.....	M. C. Baldwin.....	708,005	Sept. 2	10	2	100	1988
Leg. Artificial.....	J. A. Peer.....	710,996	Oct. 14	1126	248	101	247
Leg-guard.....	J. Mitchell.....	693,730	Feb. 18	2877	249	98	1438
Leg-guard.....	B. F. Shible.....	696,764	Apr. 1	699	158	99	149
Leg-improver.....	H. A. Rhonemus.....	707,258	Aug. 19	2396	537	100	1642
Legging.....	S. W. Alvord.....	715,935	Dec. 16	2486	548	101	2387
Lemon-juice extractor.....	F. Beamer.....	713,382	Nov. 11	1790	402	101	1281
Lemon-squeezer.....	A. Baumgarten.....	703,517	July 1	256	59	100	51
Lemon-squeezer.....	J. G. Bulloch.....	703,988	July 8	1061	259	100	244
Lemon-squeezer.....	C. A. White.....	713,034	Nov. 4	1084	247	101	1113
Leopeltage motion.....	H. E. Sutcliffe.....	691,204	Jan. 14	1536	353	98	389
Lens.....	C. A. H. Harting.....	716,035	Dec. 16	2676	591	101	2427
Lens-cutting machine.....	G. W. Fowle.....	696,168	Mar. 25	3461	775	98	2488
Lens-drilling machine.....	W. Bowker, E. M. Long, and C. W. Howland.....	695,002	Mar. 23	2919	661	98	2371
Lens-drilling machine.....	L. Wilhelm.....	695,080	Mar. 23	3037	662	98	2398
Lens-grinding machine.....	F. G. Wilson.....	691,225	Jan. 14	1599	363	98	347
Lens-grinding machine.....	J. F. Byington.....	710,180	Sept. 30	4248	957	100	2916
Lens marking or cutting machine.....	C. W. Howland.....	701,046	May 27	3770	864	99	2403
Lens-mount.....	C. A. Zeiser.....	710,550	Oct. 7	302	66	101	61
Lens, &c. Spring-clamp for.....	E. L. Lembke.....	702,803	June 17	2782	699	99	2718
Lens system.....	E. F. Grün.....	695,606	Mar. 18	2393	541	98	2249
Lens system.....	E. Abbe.....	697,959	Apr. 22	2925	646	99	673
Lenses accurately in relation to their focal center while being cut. Apparatus for cutting elliptical or other shaped.....	J. West.....	691,220	Jan. 14	1582	361	98	345
Lenses. Apparatus for determining and marking focal center of spherical.....	J. West.....	691,217	Jan. 14	1575	358	98	344
Lenses. Machine for forming and finishing edges of.....	J. West.....	691,219	Jan. 14	1578	360	98	344
Lenses while such lenses are being shaped and edged. Apparatus for attaching holding devices to.....	J. West.....	691,218	Jan. 14	1576	359	98	344
Letter-box.....	H. Hettinger.....	692,552	Feb. 11	1127	252	98	1055
Letter-box.....	T. C. McLin.....	703,147	June 24	3451	791	99	2871
Letter-box.....	J. E. Coursen.....	707,554	Aug. 29	2366	670	100	1778
Letter-box attachment.....	C. H. Tracy and F. C. Gould.....	702,510	June 17	2285	599	99	2606
Letter-box. Street.....	F. D. Osborn.....	705,357	July 29	5072	1105	100	1096
Letter-sheet and envelop. Combined.....	H. V. Wagoner.....	704,153	July 8	1485	318	100	311
Letters. Apparatus for automatically insuring, registering, and franking.....	A. Franc and F. Voland.....	692,512	Feb. 4	512	121	98	903
Lettering and ornamenting metallic articles. Die for.....	N. Stafford.....	716,648	Dec. 23	3915	855	101	2701
Leucogalloyanin and making same.....	C. De la Harpe.....	704,301	July 8	1741	422	100	366
Levees, &c. Live-wood wall for.....	J. Patten.....	700,076	May 18	1819	423	99	1562
Level.....	T. F. Hickey.....	697,718	Apr. 15	2489	556	99	538
Level and plumb.....	J. V. Janin.....	691,146	Jan. 14	1448	329	98	816
Level and plumb. Combined.....	R. W. Pritt.....	704,369	July 8	1877	407	100	396
Level and plumb. Spirit.....	S. W. Spring.....	710,888	Sept. 30	4613	1041	100	2994
Level attachment.....	W. Owens.....	711,880	Oct. 21	2857	631	101	627
Level. Ditching and terracing.....	E. A. Bostrom.....	700,717	May 30	3130	711	99	1854
Level. Gravity.....	G. Seyffarth.....	704,219	July 8	1596	346	100	334
Level. Plumb.....	O. F. Sinigar.....	714,957	Dec. 2	630	133	101	1962
Level. Plumb, and inclinometer.....	G. W. Lingle.....	709,990	Sept. 30	3879	874	100	2838
Level. Spirit.....	D. Lesh.....	691,063	Jan. 14	1317	298	98	290
Level. Spirit.....	J. H. Jackson.....	691,631	Jan. 21	2392	537	98	592
Level. Spirit.....	J. R. Wood.....	692,097	Jan. 28	3273	740	98	729
Level. Spirit.....	S. E. Roe.....	703,396	June 24	3732	857	99	2925
Level. Spirit.....	J. A. Traut.....	703,678	July 1	562	126	100	111
Level. Spirit.....	L. Desmarais.....	716,001	Dec. 16	2615	575	101	2415
Leveling and measuring the grade of surfaces. Apparatus for.....	W. F. Cook.....	695,145	Mar. 11	1537	345	98	2959
Leveling device.....	T. E. Brown.....	704,611	July 15	2326	505	100	501
Leveling instrument.....	G. H. Prier.....	701,612	June 3	597	181	99	2233
Leveling-machine.....	J. J. Heys.....	698,016	Feb. 11	1466	819	98	1127
Leveling-machine.....	J. J. Heys.....	703,204	June 24	3559	817	99	2891
Leveling-machine.....	J. J. Heys.....	707,414	Aug. 19	2697	610	100	1705
Leveling-rod. Engineer's.....	J. H. Beckley.....	695,528	Mar. 18	2228	504	98	2215
Leveling-rod. Self-computing.....	A. S. Doak.....	716,006	Dec. 16	2621	577	101	2416
Leveling-rods. Extension-fitting for.....	G. S. Goodale.....	707,225	Aug. 19	2344	524	100	1633
Lever mechanism.....	M. J. Todd.....	709,807	Sept. 23	3497	788	100	2746
Lever-operating mechanism.....	C. A. Christofferson.....	713,854	Nov. 18	2686	599	101	1432

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Lever press. Compound.	S. J. Webb	716,319	Dec. 16	3229	705	101	2341
Lever. Reverse.	J. Player	696,482	Apr. 1	162	39	99	39
Lever. Shunting.	W. Taylor	704,978	July 15	3675	661	100	657
Lever. Shunting.	W. Taylor	705,974	July 29	5101	1112	100	297
Lever. Thumb-latch for adjustment.	J. Macphail	700,213	May 20	2139	490	99	1648
Lid-controlling device.	L. J. Sticklin	710,903	Oct. 7	951	200	101	194
Lid or cover actuating device.	J. C. Lodor	705,261	July 22	3696	801	100	796
Lid-supporting device.	J. M. Butcher	711,890	Oct. 21	2874	636	101	630
Life-buoy. Night.	C. C. A. E. Wiese	706,707	Aug. 12	1355	302	100	1409
Life-guard.	T. E. C. Wilson	697,122	Apr. 8	1393	309	99	316
Life-preserver.	C. Gore	691,341	Jan. 14	1863	420	98	467
Life-preserver.	G. Hamberger and G. A. Stelzer	692,278	Feb. 4	115	27	98	822
Life-preserver.	H. Prevost	697,362	Apr. 8	1804	404	99	404
Life-preserver.	G. B. Conley	704,000	July 8	1169	254	100	248
Life-preserver.	C. Hunt	710,275	Sept. 30	4416	995	100	2953
Life-preserver.	J. B. Hamilton	715,261	Dec. 9	1166	240	101	2103
Life-preserver.	J. E. Armstrong	715,938	Dec. 16	2492	549	101	2103
Life-preserver. Automatic self-inflating.	J. Graham and R. M. Tatlock	701,329	June 3	95	19	99	2129
Life-preserver blank.	H. A. Ayvad	708,363	July 1	2	1	100	8
Life-raft.	D. G. Martens	696,463	Apr. 1	127	30, 31	99	33
Life-saving apparatus.	I. W. Maccolini	691,153	Jan. 14	1460	332	98	319
Life-saving apparatus.	E. J. Johnson	703,133	June 24	3424	786	99	2866
Life-saving apparatus.	J. Strakele	714,757	Dec. 2	211	41	101	1880
Life-saving net.	J. M. Russell	713,922	Nov. 18	2822	627	101	1512
Life-saving suit.	H. M. Brand	693,996	Feb. 25	3400	750	98	1561
Lift safety-door.	J. Davies	715,464	Dec. 9	1541	334	101	2169
Lift. Salesman's.	C. A. Bouck	713,843	Nov. 18	2661	593	101	1477
Lifter.					594		
See Hay-rack lifter.	Store-goods lifter.						
Pan-lifter.	Wagon-body lifter.						
Pie-lifter.	Well-tube lifter.						
Potato-lifter.							
Lifting and carrying device.	J. M. Zwerner	698,616	Apr. 29	4174	918	99	945
Lifting and conveying apparatus.	C. F. Nickey	691,962	Jan. 28	3017	677	98	678
Lifting device.	P. J. M. Waslyng	696,613	Apr. 1	402	679	99	88
Lifting device.	A. H. Flowers	701,189	May 27	4027	925	99	2058
Lifting device. Article.	P. Beider	704,692	July 15	2456	530	100	529
Lifting-gate.	F. G. Neumann	704,661	July 15	2408	521	100	519
Lifting-jack.	A. Miller	706,984	Aug. 12	1880	421	100	1517
Lifting-jack.	H. McDermaid	692,536	Feb. 4	569	134	98	914
Lifting-jack.	L. H. Koons	695,316	Mar. 11	1867	415	98	2120
Lifting-jack.	L. R. Goodwin	696,558	Apr. 1	297	71	99	67
Lifting-jack.	F. H. Ford	698,922	Apr. 29	4829	1065	99	1092
Lifting-jack.	E. Woodings	701,823	June 3	962	213	99	2310
Lifting-jack.	J. Hüppi	704,683	July 15	2440	527	100	526
Lifting-jack.	O. E. Fields	706,043	Aug. 5	80	17	100	1133
Lifting-jack.	J. C. Barley	706,880	Aug. 12	1702	381	100	1482
Lifting-jack.	C. Mykolashuk	711,782	Oct. 21	2671	589	101	587
Lifting-jack.	R. O. Hopkinson	713,642	Nov. 18	2294	511	101	1399
Lifting-jack and air-pump. Combined.	J. G. Schmidt and W. P. Mueller	708,408	Sept. 2	736	165	100	2130
Lifting-jack for cars, &c.	E. B. Clark	698,372	Apr. 22	3704	818	99	833
Lifting-jack lever.	W. E. Bushnell	702,920	June 24	2997	690	99	2781
Lifting-jack or elevator.	C. Beierstorf	698,896	Apr. 29	4785	1053	99	1082
Lifting-jack. Screw.	T. Hampton	716,337	Dec. 16	3273	715	101	2549
Lifting-machine.	W. H. Jordan	712,072	Oct. 28	3258	714	101	723
Light.							
See Compass-light.	Skylight.						
Display-light.	Vault-light.						
Night-light.							
Light and mirror. Combined.	G. J. Paynter and F. C. Watson	695,338	Mar. 11	1897	423	98	2127
Light effects. System of and apparatus for controlling.	R. F. Spangenberg	715,702	Dec. 9	1985	444	101	2259
Lighthouse. Floating.	J. C. Williams	708,287	Sept. 2	537	122	100	2090
Lighting.	R. Thayer	697,292	Apr. 8	1697	379	99	382
Lighting. Air-pressure system of.	J. E. Raff	697,015	Apr. 8	1217	271	99	277
Lighting device.	B. S. Philbrook	691,071	Jan. 14	1328	300	98	292
Lighting implement.	C. Molitor	704,559	July 15	2245	496	100	865
Lightning-arrester.	C. E. Egan	708,329	Sept. 2	373	139	100	2106
Lightning-arrester.	H. R. Sargent	714,455	Nov. 25	3573	853	101	1745
Lightning-arrester and binding-post. Combined.	H. R. Sargent	717,285	Dec. 30	5236	1137	101	3007
Lightning-arrester for overhead wires.	E. E. Yaxley	701,122	May 27	3910	899	99	2033
Lightning-conductor.	G. Gola	701,032	May 27	3752	859	99	1999
Lightning-conductor.	A. Leloug	693,555	Feb. 18	2532	558	98	1366
Lightning-conductor anchor-fastener.	F. E. Klein	701,577	June 3	536	117	99	2219
Lighting.	C. Bajohr	693,213	Feb. 11	1992	412	98	1214
Lighting.	J. E. Cordova	708,138	Sept. 2	3573	853	101	1745
Limb. Artificial.	J. F. Rowley	692,360	Feb. 4	253	61	98	851
Limb. Artificial.	J. E. Seeley	692,719	Feb. 4	887	202	98	961
Limb. Artificial.	I. R. and W. D. Fenner	701,318	June 3	72	15	99	2123
Limb. Artificial.	H. Yearsley	701,450	June 3	295	66	99	2169
Limb. Artificial.	E. F. Loeffler	703,431	July 1	117	26	100	26
Limb. Artificial.	C. P. White	708,685	Sept. 9	1331	282	100	1242
Limb stump-socket. Artificial.	L. Stumpf	692,803	Feb. 4	1046	235	98	1010
Limb-support.	H. R. Bigsby	705,024	July 22	3174	686	100	693
Lime. Apparatus for draining crystals of sulfate of.	C. S. Wheelwright	712,347	Oct. 23	3737	817	101	821
Lime-burning apparatus.	G. A. Mace	708,240	Sept. 2	451	103	100	2073
Lime, cement, or like kiln.	I. Isserlis	691,145	Jan. 14	1446	329	98	316



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Invention.	Name	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr.g.	Vol.	Page.
Limekiln .....	W. Gleason .....	693,599	Feb. 18	2637	581 582	98	1388
Limekiln .....	A. P. Broomell .....	712,251	Oct. 28	3569	780 781	101	786
Limekiln .....	S. W. Shoop .....	717,459	Dec. 30	5542	1204	101	3070
Lime pulverizing and separating machine .....	C. M. Avery .....	696,396	Apr. 1	6	2	99	4
Line-grip .....	F. L. Ferre .....	702,191	June 10	1643	398	99	2464
Line spreader and guide .....	T. N. Mathias .....	700,705	May 27	3300	757	99	1907
Lining material .....	C. S. Bird .....	694,532	Mar. 4	358	78	98	1790
Lining—Waist .....	M.-E. de Latour .....	715,588	Dec. 9	1786	396	101	2217
Link. Detachable .....	W. H. Baker .....	691,433	Jan. 21	2030	455	98	458
Link-motion block .....	O. D. Holt .....	703,924	July 1	1009	219	100	201
Linoleum, &c. Apparatus for producing color patterns in .....	C. Tönjes .....	693,759	Feb. 18	2921	642	98	1446
Linoleum-cutter .....	F. L. Tripp .....	697,902	Apr. 15	2813	692	99	630
Linoleum. Machine for the manufacture of inlaid .....	D. N. Melvin .....	704,068	July 8	1293	281 282	100	273
Linoleum. Machine for the manufacture of inlaid .....	D. N. Melvin .....	704,069	July 8	1303	283 284	100	274
Linoleum. Machine for the manufacture of inlaid .....	D. N. Melvin .....	704,070	July 8	1309	284 285 286	100	275
Linoleum. Machinery for the manufacture of inlaid .....	C. H. Scott .....	697,551	Apr. 15	2176	483 484	99	494
Linoleum. Manufacture of .....	C. H. Scott .....	697,552	Apr. 15	2180	484 485	99	495
Linoleum. Manufacture of inlaid .....	K. Klic and O. Poppe .....	692,677	Feb. 4	818	98	967	
Linoleum-press .....	H. W. Godfrey .....	699,753	May 13	1205	281	99	1435
Linotype .....	D. F. Daley .....	694,141	Feb. 25	3064	810	98	1614
Linotype-galley .....	F. E. Milholland .....	701,368	June 3	153	33	99	2140
Linotype-justifying device .....	J. R. Rogers .....	694,788	Mar. 4	881	195	98	1898
Linotype-leader .....	B. Cole and A. O. Wilson .....	711,288	Oct. 14	1726	373 374	101	373
Linotype-machine .....	P. T. Dodge .....	690,707	Jan. 7	657	144	98	139
Linotype-machine .....	M. H. Whittaker .....	691,685	Jan. 21	2483	556 557	98	552
Linotype-machine .....	P. T. Dodge .....	696,806	Apr. 1	777	176	99	165
Linotype-machine .....	P. T. Dodge .....	697,456	Apr. 15	2017	445	99	463
Linotype-machine .....	J. B. Bell .....	701,989	June 10	1266	287 288 289 290 291	99	2387
Linotype-machine .....	J. B. Bell .....	701,990	June 10	1271	291 292	99	2387
Linotype-machine .....	P. T. Dodge .....	702,781	June 17	2739	630	99	2710
Linotype-machine .....	P. T. Dodge .....	702,782	June 17	2742	631	99	2710
Linotype-machine .....	P. T. Dodge .....	702,783	June 17	2744	631	99	2711
Linotype-machine .....	O. Mergenthaler and W. T. Hoofnagle .....	707,645	Aug. 26	3154	709	100	1816
Linotype-machine .....	G. A. Bates .....	712,755	Nov. 4	530	123 124	101	1007
Linotype-machine attachment .....	A. D. Smith .....	708,416	Sept. 2	749	169	100	2133
Linotype-machine matrix .....	J. R. Rogers .....	694,789	Mar. 4	883	196	98	1899
Linotype-machine trimming mechanism .....	F. J. Wich .....	711,807	Oct. 21	2718	600 601 602	101	597
Linotype-machines. Alining mechanism for .....	A. G. Cotsworth .....	705,386	July 22	3959	858	100	850
Linotype-machines. Matrix-distributing mechanism for .....	C. A. Albrecht .....	716,975	Dec. 30	4639	1005 1006	101	2878
Linotype-machines. Mechanism for pushing the linotypes out of molds of .....	C. A. Albrecht .....	710,652	Oct. 7	491	103	101	99
Linotype-machines. Tool for cutting cast types in .....	C. A. Albrecht .....	696,532	Apr. 1	249	56	99	57
Linotype-machines. Trimming mechanism for .....	F. J. Wich .....	705,801	July 29	4792	1040 1041	100	1030
Linotype-matrix .....	P. T. Dodge .....	700,022	May 13	1723	396	99	1542
Linotype mold-block. Automatically-cored .....	C. Holliwell .....	696,637	Apr. 1	439	102 103	99	95
Linotype or other metal-casting machines. Adjustable mold for .....	M. P. Freebey .....	692,183	Jan. 28	3413	773	98	753
Linotype or similar composing-machine .....	J. Gray .....	703,248	June 24	3635	834 835 836	99	2907
Linotype-slug holder .....	G. E. Wallin .....	699,728	May 13	1132	268	99	1425
Linotype-slug slotting apparatus .....	J. Roxburgh and R. McClean .....	712,969	Nov. 4	953	221	101	1062
Linotypes. Device for forming accents on .....	J. Pinel .....	708,661	Sept. 9	1191	273	100	2284
Linotypes. Means for producing fudge or late-news .....	R. C. Elliott and C. Holliwell .....	691,615	Jan. 21	2355	530	98	524
Liquid. Apparatus for delivering equal quantities of .....	A. Musciacco .....	692,328	Feb. 4	195	45, 46	98	840
Liquid brake .....	S. Diamant and C. Margoni .....	712,048	Oct. 28	3197	699 700	101	712
Liquid charging and dispensing apparatus .....	C. A. Wilkinson .....	699,047	Apr. 29	5091	1112	99	1134
Liquid-concentrating apparatus .....	W. Venuleth .....	691,210	Jan. 14	1564	355	98	341
Liquid-container .....	H. R. Myers .....	698,309	Apr. 22	3546	793	99	810
Liquid-containing vessel .....	L. J. Tardy .....	701,102	May 27	3859	887	99	2022
Liquid controlling and measuring device .....	G. Wiberg .....	712,627	Nov. 4	315	73, 74	101	964
Liquid-cooler .....	P. J. Doyle .....	691,613	Jan. 21	2353	529	98	523
Liquid-cooling apparatus .....	J. Stocker .....	700,990	May 27	3652	839	99	1976
Liquid-cooling boxes. Means for supporting pipe-coils for .....	A. F. Meyer .....	714,218	Nov. 25	3435	756	101	1658
Liquid-cooling device .....	B. W. Mason .....	691,790	Jan. 28	2714	609	98	617
Liquid cooling or heating apparatus .....	J. Neubecker .....	707,863	Aug. 26	3635	819	100	1911

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Liquid-defecating apparatus	J. E. Hatton	705,924	July 29	5011	1091	100	1074
Liquid-delivery apparatus	P. Sheedy and A. Campbell	704,129	July 8	1435	307	100	302
Liquid-dispensing apparatus	W. E. Gallagher	692,438	Feb. 4	378	92	98	877
Liquid-dispensing apparatus	W. and W. Hucks, Jr.	694,646	Mar. 4	589	130	98	1887
Liquid-dispensing apparatus	S. W. Moran	710,291	Sept. 30	4440	11001	100	2938
Liquid-dispersing or spray-making apparatus	C. H. Prödt	709,556	Sept. 23	3035	676	100	2651
Liquid distributing or dosing tank and mechanism	S. W. Miller	709,233	Sept. 16	2350	532	100	2495
Liquid-drawing device	L. H. Handy	701,335	June 3	104	21	99	2130
Liquid-elevating system	D. P. Burdon	693,813	Feb. 18	3014	666	98	1465
Liquid-feed-regulating mechanism	D. T. Sharples	699,249	May 6	210	50	99	1217
Liquid from brewers grains, &c. Machine for extracting	L. Atwood	696,883	Apr. 1	935	213	99	197
Liquid-fuel burner	J. W. Neumann	698,408	Apr. 22	3762	880	99	845
Liquid-fuel burner	J. W. Neumann	702,880	June 17	674	99	1740	
Liquid-fuel burner	R. Halley	707,510	Aug. 19	2859	649	100	1740
Liquid-fuel burner	C. G. Lundholm	708,893	Sept. 9	1665	382	100	2334
Liquid-fuel spraying and burning apparatus	A. Köhler	709,579	Sept. 23	3078	684	100	2660
Liquid-fuel-spraying apparatus	J. I. D. Swensson	711,267	Oct. 14	1675	360	101	362
Liquid-gage	G. S. Thompson	717,055	Dec. 30	4793	1039	101	2912
Liquid-heating apparatus	J. Fliegel	705,745	July 29	4702	1018	100	1010
Liquid-heating furnace	D. Laird	691,866	Jan. 28	2845	641	98	644
Liquid heating or cooling apparatus	H. Seiler	697,554	Apr. 15	2184	485	99	496
Liquid heating or cooling apparatus	H. Feldmeier	706,170	Aug. 5	327	69.70	100	1184
Liquid-holder. Fountain	M. Pfeifer	695,945	Mar. 25	2996	677	98	2385
Liquid-meter	W. G. Kent	693,632	Feb. 11	1490	326	98	1133
Liquid-meter	S. Bouclet	698,625	Apr. 27	414	326	99	948
Liquid-meter	J. C. Anderson	711,191	Oct. 14	1839	330	101	335
Liquid-meter	J. C. Anderson	711,192	Oct. 14	1541	331	101	335
Liquid-meter	P. Samain	714,823	Dec. 2	337	74.75	101	1906
Liquid-meter-pressure regulator	M. Pink	702,075	June 10	1445	325	99	2423
Liquid-purifier	E. Gathmann	717,385	Dec. 30	5403	1175	101	3043
Liquid-raising apparatus	G. L. Cudner and J. Dyer	703,045	June 24	3252	748	99	2831
Liquid-raising apparatus	A. Scholl	716,941	Dec. 30	4559	990	101	2861
Liquid-raising apparatus	V. Schwaninger	716,942	Dec. 30	4560	990	101	2862
Liquid-receptacle	W. Elkan	709,211	Sept. 16	2313	525	100	2487
Liquid-receptacle stand	E. M. Paine	715,287	Dec. 9	1309	259	101	2102
Liquid-separator	C. J. Jeppesen	691,469	Jan. 21	2094	469	98	471
Liquid-separator	S. C. Hauberg	705,669	July 29	4553	988	100	982
Liquid-separator	P. L. Kimball, (Reissue)	12,055	Nov. 18	3214	709	101	1596
Liquid-separator. Centrifugal	P. M. Sharples	690,893	Jan. 7	971	220	98	204
Liquid-separator. Centrifugal	W. W. Marsh	707,132	Aug. 19	2154	484	100	1591
Liquid-separator. Centrifugal	J. J. Berrigan	715,001	Dec. 2	702	148	101	1977
Liquid-separators. Liner for centrifugal	N. W. Gales	694,736	Mar. 4	772	172	98	1875
Liquid-supply apparatus	711,671	Oct. 21	2458	540	101	541	
Liquid-supplying device	C. E. L. Didelon	698,265	Apr. 22	3330	777	99	797
Liquid-tanks. Automatic device for discharging	W. S. Shields	703,090	June 24	3346	769	99	2850
Liquid-tanks. Device for charging or discharging	S. W. Miller	702,066	June 10	1431	322	99	2419
Liquid under pressure. Machinery for the production of	A. Vogt and M. von Recklinghausen	711,597	Oct. 21	2310	505	101	510
Liquids. Apparatus for storing, measuring, and delivering aerated	F. G. Pirie and F. Sharman	694,187	Feb. 25	3770	833	98	1634
Liquids by means of steam or compressed air. Apparatus for raising	A. Scholl	708,669	Sept. 9	1203	375	100	2236
Liquids. Clarifying	H. Lubberger	706,075	Aug. 5	145	206	100	1146
Liquids from solids. Apparatus for separating	D. Stewart	703,846	July 1	867	1190	100	174
Liquids from the bottoms of casks. Device for drawing off	G. H. Pabst	715,503	Dec. 9	1618	350	101	2184
Liquids. Machine or apparatus for raising or lowering the temperature of	F. H. Floyd	708,703	Sept. 9	1271	291	100	2250
Liquids. Means for ascertaining the level of	C. May	712,699	Nov. 4	432	101	101	986
Liquids of varying densities. Transportable device for drawing constant quantities of	A. Musciacco	698,993	Apr. 29	4941	1094	99	1115
Liquids, partial liquids, &c. Device for mixing	H. C. Wehmeier and W. J. Dauben-	697,579	Apr. 15	2223	496	99	504
Liquids. Receptacle for containing and administering volatile	C. L. Gebauer	711,045	Oct. 14	1241	271	101	271
Liquids under pressure. Producing	A. Vogt and M. von Recklinghausen	716,794	Dec. 23	4168	914	101	2753
Liquids. Vessel for containing and distributing	W. H. Birchmore	714,092	Nov. 18	3159	699	101	1582
Liquids with gases or gases with liquids. Apparatus for treating	A. Vosmaer and A. Lebreton	709,379	Sept. 16	2656	596	100	2561
Liquor from diffusion vessels. Drawing off and measuring	K. Sedlacek	696,300	Mar. 25	3518	788	98	2493
Liquors. Apparatus for refining, aging, mellowing, and purifying alcoholic	J. F. Duffy	698,183	Apr. 22	3370	737	99	762
Liquors at high pressure and at various degrees of temperature. Apparatus for dispensing	S. H. Atchison	715,534	Dec. 9	1678	366	101	2196
Liquors. Dispensing malt	C. A. Bartliff	712,431	Oct. 29	3908	855	101	858
Liquors from kegs. Treating air for forcing malt	C. A. Bartliff	708,984	Sept. 16	1846	425	100	2390
Liquors from kegs. Treating air for forcing malt	C. A. Bartliff	710,404	Oct. 7	15	4	101	6
Liquors. Manufacture of fermented	J. Schneible	700,833	May 27	3378	776	99	1922
Liquors. Refining, aging, mellowing, and purifying alcoholic	J. F. Duffy	698,184	Apr. 22	3371	738	99	763
Lister. Sulky	G. Engelmann	696,555	Apr. 1	233	69.70	99	66
Lister. Sulky	G. Engelmann	714,288	Nov. 25	3581	788	101	1688
Listing-machine	L. Matthews	711,638	Oct. 21	2384	523	101	526



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. G.	Vol.	Page.
Lithographic process.....	C. H. Prinke.....	694,574	Mar. 4	463	.....	98	1811
Lithographic purposes. Electrolytically preparing metals and alloys for.....	O. C. Strecker.....	716,306	Dec. 16	3208	702	101	2537
Lithographing or printing press roller.....	A. W. Kling.....	710,327	Sept. 30	4505	1015	100	2972
Lithopone. Making.....	I. P. Lihne.....	697,713	Apr. 15	2514	.....	99	503
Live-rolls. Gear-cover and frame for.....	H. G. Dittbenner.....	711,947	Oct. 23	3021	664	101	677
Load-binder.....	J. F. Neville.....	706,090	Aug. 5	168	34	100	1151
Load-binder.....	F. W. Vickers.....	710,639	Oct. 7	465	97	101	93
Load-indicator.....	M. F. Sinclair.....	695,890	Mar. 18	2893	656	98	2351
Load-retaining apparatus for vehicles.....	W. M. Cain.....	708,526	Sept. 9	954	216	100	2186
Load-retaining means for vehicles.....	W. M. Cain.....	706,797	Aug. 12	1552	348	100	1450
Loads. Means for moving heavy.....	A. Schulz.....	704,387	July 8	1908	413	100	403
Loader and digger. Portable mechanical.....	G. C. Brown.....	709,199	Sept. 16	2291	520	100	2482
Loading apparatus.....	J. Straub.....	704,142	July 8	1468	314	100	308
Loading apparatus. Dirt.....	O. Tiffany.....	710,620	Oct. 7	818	175	101	167
Loading-beam.....	E. Scharer.....	699,021	Apr. 29	3986	1103	99	1124
Loading cars, wagons, &c. Apparatus for.....	A. P. Hartzell.....	697,716	Apr. 15	2487	555	99	558
Loading device.....	W. F. Murphy.....	703,444	July 1	136	31	100	30
Loading device.....	H. Ellis.....	716,692	Dec. 23	3987	872	101	2716
Loading device. Barge.....	W. L. Killebrew.....	701,053	May 27	3784	866	99	2006
Loading device. Vessel.....	W. F. Mills.....	712,948	Nov. 4	922	214	101	1085
Loading manure, &c., on wagons. Apparatus for.....	A. F. Woods.....	693,769	Feb. 18	2399	646	98	1560
Loading or unloading apparatus.....	J. T. Dempsey.....	698,845	Feb. 25	3997	685	98	1500
Loading or unloading apparatus.....	D. J. Farthing.....	690,749	May 13	1189	377	99	1431
Loading or unloading bulk cargoes. Apparatus for.....	A. W. Robertson.....	692,355	Feb. 4	243	58.59	98	849
Loading or unloading device.....	M. F. Johnson.....	708,360	Sept. 2	657	148	100	2114
Loading or unloading device. Lumber.....	W. Sauntry.....	707,162	Aug. 19	2223	498	100	1694
Location-tracer.....	H. S. Bacon.....	706,713	Aug. 12	1369	305	100	1112
Lock:							
See Air-lock. Key-lock.							
Alarm-lock. Keyless lock.							
Automobile-lock. Ladder-lock.							
Bag-lock. Loom-beam lock.							
Bicycle-lock. Loom shuttle-lock.							
Binder-lock. Milk-receptacle lock.							
Bolt-lock. Nut-lock.							
Bottle-lock. Oar-lock.							
Caisson air-lock. Padlock.							
Can-lock. Permutation-lock.							
Car-check lock. Pipe-joint lock.							
Car-door lock. Quoin-lock.							
Carriage-lock. Registering-lock.							
Carriage-door lock. Safe-lock.							
Check-lock. Safe-door lock.							
Combination lock. Sash-lock.							
Cylinder-lock. Seal-lock.							
Desk-lock. Seat-lock.							
Door-lock. Shutter-lock.							
Electric lock. Switch-lock.							
End-gate lock. Table-lock.							
Espagnolette-lock. Telephone-lock.							
Fence-lock. Time-lock.							
Fire-door lock. Traveler's lock.							
Firearm-lock. Valve-lock.							
Galley-lock. Vehicle-robe lock.							
Gravity-lock. Vehicle-seat lock.							
Hat and coat lock. Vehicle steering-lock.							
Index-rod lock. Window-lock.							
Lock.....	A. R. Fergusson.....	691,124	Jan. 14	1406	321	98	307
Lock.....	A. R. Fergusson.....	691,125	Jan. 14	1411	321	98	309
Lock.....	E. F. Rogers.....	691,180	Jan. 14	1512	340	98	330
Lock.....	C. D. Logan.....	692,792	Feb. 4	1019	230	98	1005
Lock.....	F. A. Hickson.....	693,602	Feb. 18	2641	583	98	1388
Lock.....	O. Katzenberger.....	693,719	Feb. 18	2850	628	98	1431
Lock.....	R. H. Hearn.....	695,642	Mar. 18	2458	558	98	2262
Lock.....	J. J. Treat.....	697,568	Apr. 15	2205	491	99	501
Lock.....	C. W. Barrett.....	697,599	Apr. 15	2262	504	99	513
Lock.....	A. R. Fergusson.....	697,614	Apr. 15	2262	512	99	519
Lock.....	M. E. Blatchley.....	697,933	Apr. 15	2874	633	99	641
Lock.....	A. Frederiksen.....	698,486	Apr. 29	3913	865	99	892
Lock.....	H. G. Carleton.....	698,811	Apr. 29	4601	1015	99	1044
Lock.....	H. G. Carleton.....	698,812	Apr. 29	4603	1013	99	1044
Lock.....	C. H. Bridget.....	699,831	May 13	1356	315	99	1467
Lock.....	E. Weber and F. C. Frey.....	700,106	May 13	1874	436	99	1573
Lock.....	G. T. Roberts.....	700,242	May 20	2205	504	99	1663
Lock.....	M. Schrauder.....	702,338	June 10	1879	429	99	2510
Lock.....	L. Labeau.....	703,281	June 24	3686	848	99	2917
Lock.....	C. Kunzelmann.....	703,429	July 1	112	25.26	100	25
Lock.....	A. F. Wahlberg.....	703,506	July 1	225	53	100	47
Lock.....	J. F. Allen.....	703,514	July 1	252	58	100	51
Lock.....	C. S. Huntington.....	703,927	July 1	1013	220	100	202
Lock.....	J. F. Lydon.....	703,962	July 1	1065	236	100	217
Lock.....	A. R. Fergusson.....	704,180	July 8	1357	330	100	323
Lock.....	J. L. Culler.....	704,865	July 15	2283	622	100	596
Lock.....	A. H. Wallace.....	705,495	July 22	4163	906	100	890
Lock.....	A. R. Fergusson.....	705,660	July 29	4335	986	100	979
Lock.....	W. A. Markey.....	705,942	July 29	5044	1099	100	1080
Lock.....	H. W. Simpson.....	707,028	Aug. 12	1959	439	100	1532
Lock.....	H. Bryda.....	707,757	Aug. 26	3416	769	100	1869
Lock.....	C. Kunzelmann.....	709,018	Sept. 16	1923	1441	100	2405

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Lock	G. G. Smith	709,056	Sept. 16	2004	457	100	2421
Lock	H. W. Eicher	709,809	Sept. 16	2508	565	100	2529
Lock	W. R. Paige and H. A. Hoods	710,071	Sept. 30	4020	907	100	2568
Lock	O. E. Hickey	710,505	Oct. 7	214	47	101	44
Lock	J. Høhagen	710,692	Oct. 7	562	117	101	116
Lock	G. De Cesare	711,040	Oct. 14	1232	268	101	270
Lock	R. L. Kirk	711,111	Oct. 14	1364	297	101	296
Lock	C. Bayer	711,376	Oct. 14	1884	411	101	408
Lock	F. A. Richardson	711,528	Oct. 21	2185	476	101	484
Lock	C. Kuebler	712,078	Oct. 28	3260	716	101	726
Lock	C. Stoddard	713,359	Nov. 11	1745	393	101	1272
Lock	L. Dalton and D. Cross	714,438	Nov. 25	3877	856	101	1746
Lock	J. O'Connor	716,270	Dec. 16	3142	688	101	2524
Lock	I. W. Wolf	716,510	Dec. 23	3635	794	101	2640
Lock and latch	J. C. Alman	715,934	Dec. 16	2483	547	101	2386
Lock and latch. Combined	M. C. Patrick	692,068	Jan. 28	3216	726	98	717
Lock and latch. Combined	L. H. Mullikin	697,156	Apr. 8	1454	327	99	328
Lock and latch. Combined	E. A. Fogel	699,301	May 6	323	74	99	1240
Lock and latch. Combined	J. B. Cox	705,387	July 22	3961	858	100	850
Lock and latch. Combined	H. A. Schroeder	712,604	Nov. 4	273	65	101	955
Lock and latch. Combined	J. B. Cox	716,671	Dec. 23	3949	863	101	2708
Lock-case	T. H. Despie	713,001	Nov. 11	1745	393	101	1272
Lock-cylinder	D. Hoyt	696,820	Apr. 1	800	183	99	169
Lock-hub	E. H. Mix	696,067	Mar. 25	3231	731	98	2434
Lock or clutch for sectional cases	W. H. Taylor	696,608	Apr. 1	389	91	99	86
Lock storm-hood attachment	F. L. Forster	692,052	Jan. 28	3188	720	98	711
Locks. Extension-cylinder for pin-	T. H. Young	696,620	Apr. 1	412	95	99	90
Locks. Gage for measuring keys for pin-tumbler	A. Cramond	701,850	June 10	1011	235	99	2336
Locking appliances. Safety concussion device for	E. S. Phelps	709,240	Sept. 16	2370	538	100	2498
Locking device	W. H. Taylor	713,714	Nov. 18	2432	541	101	1426
Locking device	E. A. Foote, Jr.	697,938	Apr. 15	2887	636	99	644
Locking device. Drawer	J. W. Gonce	709,010	Sept. 16	1903	437	100	2400
Locking device. Drawer	W. D. Meigs	711,994	Oct. 28	3107	680	101	664
Locking-hook. Safety	A. H. Noyes	708,010	Sept. 9	1694	390	100	2341
Locking mechanism for safes or vaults. Duplex	H. D. Hibbard	691,942	Jan. 28	2978	670	98	670
Locket	F. C. Miller	711,516	Oct. 21	2152	468	101	477
Locket. Combination puzzle-	A. D. Fisher	692,650	Feb. 4	758	174	98	955
Loco-extermiator.	J. Knight	698,715	Apr. 29	4410	973	99	999
Locomotive	L. Atwood	693,209	Feb. 11	1196	410	98	1213
Locomotive	S. M. Vauclain	696,283	Mar. 25	3671	821	98	2525
Locomotive	J. Player	697,535	Apr. 15	2151	478	99	489
Locomotive	J. Player	697,536	Apr. 15	2156	479	99	490
Locomotive	L. Atwood	708,292	Sept. 2	550	125	100	2093
Locomotive	J. H. Williams	709,429	Sept. 16	2747	617	100	2579
Locomotive	A. P. Dodge	713,558	Nov. 11	2134	477	101	1350
Locomotive ash-pan	H. L. Browder	690,827	Jan. 7	886	196	98	187
Locomotive ash-pan	M. Toltz and A. Lipschutz	695,968	Mar. 25	3032	687	98	2392
Locomotive ash-pan	J. Player	696,485	Apr. 1	166	40	99	40
Locomotive ash-pan	J. Player	696,486	Apr. 1	168	41	99	41
Locomotive-boiler	C. W. Newton	692,896	Feb. 11	1236	273	98	1079
Locomotive-boiler	S. S. Riegel	694,786	Mar. 4	876	194	98	1897
Locomotive-boiler	S. G. Crossley	699,791	May 13	1279	295	99	1450
Locomotive-boiler	J. J. Gage	706,490	Aug. 5	974	214	100	1313
Locomotive-boiler	C. Vanderbilt	707,657	Aug. 26	3195	717	100	1825
Locomotive-boiler	J. H. Williams	709,430	Sept. 16	2750	618	100	2580
Locomotive-boiler	J. S. S. Fulton	711,044	Oct. 14	1238	270	101	271
Locomotive-boiler	W. B. Warren	716,600	Dec. 23	3925	830	101	2682
Locomotive-cylinder	H. A. Wahlert	696,525	Apr. 1	238	54	99	55
Locomotive-cylinder circulator	J. Player	696,484	Apr. 1	164	40	99	40
Locomotive-deobstructor.	P. Sheedy and A. Campbell	704,130	July 8	1438	308	100	303
Locomotive-draft-regulator	E. P. Hollis	711,569	Oct. 21	2256	490	101	499
Locomotive-draw-bar attachment	O. Hörenz	702,005	June 10	1297	297	99	2392
Locomotive driving-wheel	W. F. Richards	700,982	May 27	3637	836	99	1973
Locomotive driving-wheel	L. H. Kenyon	697,850	Apr. 15	2726	605	99	611
Locomotive driving-wheel	L. H. Kenyon	707,335	Aug. 19	2553	576	100	1675
Locomotive. Electric	E. C. Lindsay	713,464	Nov. 11	1925	435	101	1309
Locomotive emergency-gear	W. W. Murch	706,988	Aug. 12	1885	422	100	1518
Locomotive-engine	C. Hagans	698,276	Apr. 22	3548	781	99	800
Locomotive-engine.	J. E. Roberts	716,107	Dec. 16	2830	623	101	2460
Locomotive-engine. Compound	C. M. Muchnic	705,692	July 29	4594	997	100	989
Locomotive-engine ventilator	N. Kershner	697,493	Apr. 15	2076	460	99	475
Locomotive-exhaust	F. Robinson	715,873	Dec. 16	2365	524	101	2360
Locomotive forced-draft appliance.	J. A. Eson	705,225	July 22	3599	779	100	779
Locomotive front-end-coupling gear	J. F. Dunn	695,291	Mar. 11	1830	407	98	2113
Locomotive loading device	G. Hoffman	707,927	Aug. 26	3753	843	100	1937
Locomotive-pedestal.	T. E. Collins	707,502	Aug. 19	2845	604	100	1737
Locomotive-pilot and car-coupling therefor.	E. Grafstrom	695,684	Mar. 18	2524	571	98	2274
Locomotive sand-delivering pipe	I. T. Lewis	709,414	Sept. 16	2722	611	100	2574
Locomotive sanding device	J. C. Hooper	704,037	July 8	1235	266	100	260
Locomotive-springs. Spring-hanger for underhung.	H. A. Gillis	690,851	Jan. 7	918	205	98	194
Locomotive steam-boiler	W. J. Thomas and J. B. Stetson	715,319	Dec. 9	1279	273	101	2118



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Locomotive track-sanding device	B. Henrikson	700,924	May 27	3541	812	99	1954
Locomotive with driven boggy	C. Hagans	699,517	May 6	730	170	99	1326
Log and speed-recorder. Combined electric	F. N. Denison	713,753	Nov. 18	2436	556	101	1444
Log-car stake-holder	O. S. Perkins	713,914	Nov. 4	1025	240	101	1105
Log-cars. Automatic toggle-chain release for	W. Ashcraft and J. C. Lubbes	711,371	Oct. 14	1679	362	101	363
Log-loader	J. R. McGiffert	715,840	Dec. 16	2279	508	101	2340
Log-raft	A. F. Griffiths	711,847	Oct. 21	2783	616	101	610
Log-raft	J. Ayres	715,939	Dec. 16	2493	519	101	2388
Log register. Electric	W. B. Armstrong	703,691	July 1	593	131	100	117
Log-releasing device for scows	E. W. Spencer	705,465	July 22	4103	832	100	880
Log-turner	T. S. Wilkin	691,517	Jan. 21	2181	488	98	489
Log-turner	J. J. Skinner	698,750	Apr. 29	4465	985	99	1011
Log-turner	T. H. Dillon	699,085	Apr. 29	5087	1126	99	1145
Log-turner	W. L. Leland	702,374	June 24	3127	719	99	2807
Logs. Means for chaining	H. McAdden	701,903	July 15	2856	619	100	612
Logging-cars, &c. Dog attachment for	G. T. Hudgens	712,931	Nov. 4	878	205	101	1076
Logging-cars. Means for retaining and releasing loads on	R. E. White	695,357	Mar. 11	1926	429	98	2133
Logging-stake	F. O. Kilgore	713,650	Nov. 18	2307	514	101	1401
Logging-truck	J. Lindsey. (Reissue)	11,987	May 13	2034	464	99	1604
Loom	E. Wackerhagen	691,088	Jan. 14	1351	305	98	297
Loom	W. Fischer, Jr.	691,370	Jan. 21	1928	432	98	4334
Loom	W. Barsley	691,578	Jan. 21	2281	412	98	510
Loom	C. F. Roper	692,911	Feb. 11	1259	279	98	1083
Loom	J. Willis	693,677	Feb. 18	2777	611	98	1417
Loom	E. Nierhaus and P. Kaiser	694,108	Feb. 25	3610	798	98	1602
Loom	C. J. Nauen	695,622	Mar. 18	2420	548	98	2254
Loom	J. E. Painter	697,745	Apr. 15	2536	565	99	567
Loom	D. F. Conklin and T. G. Singer	705,649	July 29	4510	979	100	973
Loom	F. Barlet	706,376	Aug. 5	746	163	100	1267
Loom	O. L. Owen	708,251	Sept. 2	469	107	100	2077
Loom	A. S. Horlacher	710,458	Oct. 7	107	24, 25	101	23
Loom	W. Caldwell	712,358	Oct. 28	3753	821	101	824
Loom	G. F. Hutchins and E. H. Ryon	714,909	Dec. 2	543	116	101	1944
Loom	W. B. Erskine	715,772	Dec. 16	2136	478	101	2311
Loom-beam lock	O. L. Owen	703,667	July 1	540	122	100	106
Loom-beam lock	H. H. McLean	708,246	Sept. 2	463	105	100	2076
Loom bobbin-holder. Circular	C. N. Brown	694,128	Feb. 25	3643	805	98	1610
Loom detector mechanism. Wef-replenishing	W. H. Baker and F. E. Kip	692,591	Feb. 4	666	156	98	935
Loom electric filling-changing mechanism	S. M. Armstrong and J. A. Clark	695,363	Mar. 11	1928	432	98	2136
Loom electrical wef-indicator mechanism	S. M. Hamblin	694,981	Mar. 11	1204	263	98	1964
Loom fabric-scouring attachment	P. Spindler	702,116	June 10	1504	339	99	2435
Loom filling-carrier	H. W. Smith	691,816	Jan. 28	2762	622	98	626
Loom. Filling-replenishing	J. C. Edwards	691,456	Jan. 21	2072	464	98	466
Loom. Filling-replenishing	J. Northrop	691,481	Jan. 21	2111	474	98	474
Loom. Filling-replenishing	N. Ward	691,734	Jan. 21	2574	577	98	571
Loom. Filling-replenishing	J. Northrop	697,004	Apr. 8	1188	267	99	272
Loom. Filling-replenishing	W. I. Stimpson	698,579	Apr. 29	4063	898	99	923
Loom. Filling-replenishing	E. S. Stimpson	710,023	Sept. 30	3932	888	100	2349
Loom filling-replenishing mechanism	C. H. Draper and E. S. Stimpson	695,040	Mar. 11	1358	298	98	2016
Loom filling-replenishing mechanism	J. A. G. Goulet	695,045	Mar. 11	1366	300	98	2018
Loom filling-replenishing mechanism	G. F. Hutchins	702,876	June 17	2914	673	99	2747
Loom filling-replenishing mechanism	C. F. Roper	711,736	Oct. 21	2576	567	101	567
Loom. Filling-supplying	A. M. Marcoux	693,558	Feb. 18	2537	559	98	1367
Loom-fixer's knife	C. Foster	707,690	Aug. 26	3257	728	100	1838
Loom for making straw matting	W. Wattie	693,091	Feb. 11	1607	350	98	1155
Loom for the manufacture of knotted carpets	H. Panitschek and J. Ahorn	716,092	Dec. 16	2794	615	101	2453
Loom for weaving bordered fabrics	G. W. Cumnock and F. E. Warren	702,635	June 17	2468	566	99	2653
Loom for weaving pile fabrics	A. F. McCollum	709,447	Sept. 16	2782	626	100	2586
Loom for weaving tufted fabrics	H. Wyman and J. A. Clark	712,888	Nov. 4	787	185	101	1061
Loom for weaving tufted pile fabrics	C. H. Landenberger	706,072	Aug. 5	135	28, 29	100	1145
Loom for weaving velvets	W. G. Hartley	703,580	July 1	365	84	100	72
Loom. Hammock	Z. L. Chadbourne	695,792	Mar. 18	2714	618	98	2314
Loom harness-controlling mechanism	T. H. Mc Nerney	706,335	Aug. 5	665	144	100	1249
Loom-harness evener	A. S. Cowan	701,689	June 8	727	160	99	2261
Loom harness-motion	T. Brindle and M. O. Steere	700,613	May 20	2913	671	99	1906
Loom harness-operating mechanism	W. R. Harding	693,796	Feb. 18	2981	658	98	1458
Loom-heddle	C. F. Roper	696,084	Mar. 25	3261	737	98	2440
Loom-jacquard	G. Hove	711,499	Oct. 21	2119	460	101	470
Loom jacquard mechanism	R. Chwalla	693,540	Feb. 18	2509	553	98	1362
Loom. Kindergarten	F. A. Foster	700,636	May 20	2956	679	99	1817
Loom. Kindergarten	B. E. Lindberg	703,799	July 1	785	172	100	157
Loom. Kindergarten	J. E. Painter	703,815	July 1	817	180	100	163
Loom. Kindergarten	L. M. Comstock	709,535	Sept. 23	3003	669	100	2645

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Loom. Lappet.....	T. Stone and J. Hampson .....	716,493	Dec. 23	3592	784	101	2692
Loom. Leno.....	E. H. Ballou .....	708,951	Sept. 9	1764	407	100	2355
Loom let-off-arresting mechanism .....	E. S. Stimpson .....	710,024	Sept. 30	3935	888	100	2850
Loom loose-reed motion .....	A. B. Taplin .....	696,212	Mar. 25	3544	798	98	2489
Loom loose-reed motion .....	E. Herzog .....	710,192	Sept. 30	4205	902	100	2920
Loom multiplier mechanism .....	A. S. Cowan and B. F. McGuiness .....	698,821	Apr. 29	4621	1019	99	1048
Loom multiplier mechanism .....	H. Wyman and A. A. Gordon, Jr. ....	700,999	May 27	3674	843	99	1980
Loom. Narrow-ware .....	H. Riehl, Jr .....	699,977	May 13	1658	881	99	1530
Loom. Narrow-ware .....	J. C. Brooks .....	704,295	July 8	1733	378	100	364
Loom pattern mechanism .....	E. W. Davenport and H. Bardsley .....	691,608	Jan. 21	2340	526	98	521
Loom pattern mechanism .....	A. S. Cowan .....	699,104	Apr. 29	5120	1182	99	1152
Loom pattern mechanism .....	C. Alvord .....	713,042	Nov. 4	1073	250	101	1115
Loom-picker .....	F. A. Wardwell .....	691,212	Jan. 14	1569	356	98	342
Loom picker-check .....	C. A. St. Onge .....	697,562	Apr. 15	2197	488	99	499
Loom picker-check .....	A. St. Andrews .....	706,270	Aug. 5	540	117	100	1225
Loom picker-motion .....	D. Durkin .....	693,592	Feb. 18	2621	579	98	1384
Loom picker-operating mechanism. Swivel .....	F. Brown .....	701,534	June 3	449	101	99	2200
Loom-picker. Pneumatic .....	J. von Miniszewski .....	691,726	Jan. 21	2558	572	98	568
Loom picker-staff check .....	R. and W. Riding and F. P. King .....	711,002	Oct. 14	1138	252	101	250
Loom picker-stick .....	H. Wilde and J. W. Lee .....	710,827	Oct. 7	829	179	101	169
Loom picker-stick buffer .....	F. A. Mills .....	700,965	May 27	3608	830	99	1968
Loom picker-stick check device .....	M. Dumont .....	711,698	Oct. 21	2304	550	101	532
Loom picker-stick connection .....	E. Chevalette .....	694,332	Mar. 4	20	98	98	1716
Loom. Pile-fabric .....	F. Tonnar .....	716,352	Dec. 16	3301	790	101	2555
Loom pile-wire head .....	H. L. Matton .....	697,263	Apr. 8	1642	328	99	370
Loom pile-wire motion .....	L. H. Hartley, T. H. Namack, and J. Newhall .....	698,279	Apr. 23	3550	782	99	801
Loom positive shuttle-motion .....	F. S. Gable .....	714,294	Nov. 25	3591	790	101	1690
Loom-reed .....	R. Wilms .....	700,593	May 20	2380	601	99	1800
Loom. Ribbon.....	R. Kohlhaas .....	699,878	May 13	1468	337	99	1493
Loom. Ribbon.....	R. Kohlhaas .....	699,879	May 13	1472	338	99	1493
Loom shaking-strap .....	O. Hoffmann .....	704,642	July 15	2378	515	100	512
Loom shedding mechanism .....	J. W. Platt .....	690,873	Jan. 7	950	213	98	200
Loom shedding mechanism .....	B. Hilbert .....	695,609	Mar. 18	2400	543	98	2250
Loom shedding mechanism .....	G. W. Stafford .....	709,453	Sept. 16	2801	631	100	2591
Loom shedding mechanism .....	G. W. Stafford .....	709,454	Sept. 16	2806	631	100	2592
Loom shedding mechanism .....	G. W. Stafford .....	709,455	Sept. 16	2809	632	100	2593
Loom shedding mechanism .....	A. C. Fischer .....	711,391	Oct. 14	1909	415	101	412
Loom shedding-motion .....	W. C. Asimos .....	690,388	Jan. 7	7	2	98	4
Loom shpper mechanism .....	C. M. Day .....	702,346	June 10	1906	436	99	2315
Loom-shuttle .....	H. Bardsley .....	691,577	Jan. 21	2279	512	98	509
Loom-shuttle .....	E. W. Davenport and H. Bardsley .....	691,607	Jan. 21	2338	526	98	521
Loom-shuttle .....	F. H. Martin .....	697,508	Apr. 15	2099	466	99	480
Loom-shuttle .....	O. Gleason .....	697,713	Apr. 15	2484	554	99	557
Loom-shuttle .....	C. N. Brown .....	702,281	June 10	1789	408	99	2493
Loom-shuttle .....	I. F. Peck .....	702,672	June 17	2335	581	99	2668
Loom-shuttle .....	N. Caisse .....	702,703	June 17	2338	582	99	2670
Loom-shuttle .....	L. W. Campbell .....	703,982	July 8	1157	231	100	245
Loom-shuttle .....	H. Bardsley .....	705,898	July 29	4905	1081	100	1065
Loom-shuttle .....	A. Schaub .....	708,592	Sept. 9	1058	240	100	2206
Loom-shuttle .....	H. Lindsay .....	712,817	Nov. 4	663	153	101	1033
Loom-shuttle .....	J. Auth .....	713,587	Nov. 18	2189	488	101	1377
Loom-shuttle .....	E. E. Shelters .....	714,408	Nov. 25	3782	835	101	1728
Loom-shuttle .....	J. Goldwell and C. G. Gildard .....	714,676	Dec. 2	42	9	101	1840
Loom shuttle-binder .....	E. S. Stimpson .....	703,498	July 1	215	51	100	45
Loom shuttle-binder .....	F. A. Guillelte, W. J. Lynch, and H. A. Guillelte .....	709,317	Sept. 16	2522	568	100	2532
Loom shuttle-box-operating mechanism .....	H. Bardsley .....	693,681	Feb. 18	2784	613	98	1418
Loom shuttle-check .....	J. C. Bryan .....	699,445	May 6	604	138	99	1300
Loom shuttle-checking means .....	C. H. Draper .....	692,635	Feb. 11	1099	246	98	1049
Loom shuttle-checking mechanism .....	C. H. Draper .....	705,911	July 29	4901	1086	100	1070
Loom shuttle-checking mechanism .....	W. W. Tubby and W. H. Broomhead .....	705,980	July 29	5108	1114	100	1094
Loom shuttle-driving means .....	J. Houston .....	708,419	July 1	97	21	100	22
Loom shuttle-exchanging device .....	C. and G. Brun and J. Bicking .....	714,665	Dec. 2	19	4	101	1840
Loom shuttle-guard .....	J. P. Lange .....	696,826	Apr. 1	811	186	99	172
Loom shuttle-lock .....	F. A. Mills .....	706,190	Aug. 5	367	79	100	1192
Loom shuttle-motion .....	J. A. Gendron .....	714,169	Nov. 25	3343	736	101	1640
Loom shuttle-motion .....	J. Poysse .....	715,602	Dec. 9	1804	401	101	2322
Loom shuttle-motion .....	A. Chevreton .....	716,376	Dec. 23	3363	735	101	2583
Loom-shuttle. Self-threading .....	E. S. Stimpson .....	692,801	Feb. 4	1043	234	98	1009
Loom-shuttle. Self-threading .....	J. Northrop .....	697,005	Apr. 8	1198	267	99	372
Loom-shuttle tension device .....	H. K. Seitz and C. H. Hannigan .....	693,164	Feb. 11	1779	390	98	1129
Loom-shuttles. Apparatus for operating guided .....	A. Barbier .....	708,752	Sept. 9	1363	310	100	2372
Loom stop-motion .....	N. and G. Fortier .....	694,362	Mar. 4	35	8	98	1719
Loom stop-motion .....	C. E. Müller and J. E. Jackson .....	700,969	May 27	3615	831	99	1969
Loom stop-motion. Ribbon.....	W. I. Post .....	699,112	Apr. 29	5124	1135	99	1154
Loom stopping device .....	W. T. Lucie .....	707,130	Aug. 19	2152	483	100	1591
Loom stopping mechanism .....	H. Côté .....	706,164	Aug. 5	318	67,68	100	1182
Loom stopping mechanism. Automatic .....	A. D. Emery .....	705,913	July 29	4995	1087	100	1071
Loom. Swivel.....	R. Atherton .....	691,927	Jan. 28	2948	663	98	665
Loom. Swivel.....	G. F. Hutchins and J. T. Cyr .....	698,203	Apr. 22	3420	753	99	774
Loom-swivel .....	J. Wadsworth .....	706,133	Aug. 5	245	51,52	100	1168
Loom take-up .....	F. C. Gerfin .....	704,314	July 8	1765	385	100	371
Loom take-up .....	J. Mirth .....	712,831	Nov. 4	687	159	101	1039



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Loom take-up mechanism	Z. L. Chadbourne	695,373	Mar. 11	1959	437	98	2141
Loom take-up mechanism	G. Schmidt, Sr	709,582	Sept. 23	3081	685	100	2061
Loom take-up mechanism	C. F. Roper	716,282	Dec. 16	3164	686	101	2525
Loom-temple	E. S. Stimpson	692,087	Jan. 28	3259	737	98	723
Loom-temple-holding device	J. A. Perkins and L. A. King	714,737	Dec. 2	163	33	101	1870
Loom thread-parter	E. S. Stimpson	704,715	July 15	2497	540	100	538
Loom thread-parting mechanism	C. F. Roper	701,938	June 10	1168	267	99	2368
Loom warp-beam support. Narrow-ware	F. B. Wilkins	695,983	Mar. 25	3062	694	98	2399
Loom warp stop-motion	J. Coldwell and C. G. Gildard	690,636	Jan. 7	514	112	98	110
Loom warp stop-motion	J. V. and E. Cunniff	691,533	Jan. 21	2201	495	98	404
Loom warp stop-motion	J. E. Lemyre	692,316	Feb. 4	172	40	98	894
Loom warp stop-motion	J. V. and E. Cunniff	692,431	Feb. 4	367	90	98	875
Loom warp stop-motion	H. Wyman	694,083	Feb. 25	3571	789	98	1595
Loom warp stop-motion	H. J. Jarry	697,253	Apr. 8	1637	365	99	366
Loom warp stop-motion	H. J. Jarry	702,654	June 17	2504	573	99	2661
Loom warp stop-motion	H. A. Owen	703,666	July 1	538	121	100	106
Loom warp stop-motion	C. H. Draper	708,536	Sept. 9	968	122	100	2189
Loom warp stop-motion	J. V. and E. Cunniff	713,610	Nov. 18	2238	496	101	1387
Loom warp stop-motion	H. Wyman	714,000	Nov. 18	3156	699	101	1582
Loom warp stop-motion	E. S. Stimpson	717,132	Dec. 30	4092	1069	101	2941
Loom warp stop-motion. Narrow-ware	F. B. Wilkins	695,981	Mar. 25	3059	287	98	2398
Loom weft-detecting device	H. I. Harriman	714,690	Dec. 2	72	15	101	1852
Loom weft-fork clearer	W. D. Denny	693,501	Feb. 18	2435	532	98	1347
Loom weft-motion. Haircloth	W. W. Harrison and J. Holt	691,375	Jan. 21	1930	434	98	436
Loom. Weft-replenishing	H. I. Harriman	692,138	Jan. 28	3337	756	98	743
Loom. Weft-replenishing	H. W. Smith	697,684	Apr. 15	2425	540	99	544
Loom. Weft-replenishing	W. E. Moore and F. R. Clark	704,485	July 8	2094	451	100	440
Loom. Weft-replenishing	H. I. Harriman	709,440	Sept. 16	2769	624	100	2584
Loom weft-replenishing mechanism	C. and G. Brun	691,043	Jan. 14	1283	291	98	263
Loom weft-replenishing mechanism	W. H. Baker and F. E. Kip	692,590	Feb. 4	663	155	98	934
Loom weft-replenishing mechanism	H. W. Smith	692,938	Feb. 11	1309	286	98	1096
Loom weft-replenishing mechanism	H. W. Smith	692,934	Feb. 11	1314	287	98	1096
Loom weft-replenishing mechanism	H. W. Smith	692,935	Feb. 11	1319	288	98	1097
Loom weft-replenishing mechanism	F. O'Donnell	695,696	Mar. 18	2546	576	98	2378
Loom weft-replenishing mechanism	J. M. Shay	696,657	Apr. 1	480	111	99	103
Loom weft-replenishing mechanism	R. Talbot and W. Rossetter	710,379	Sept. 30	4593	1036	100	2989
Loom weft-replenishing mechanism	W. H. Baker and F. E. Kip	714,274	Nov. 25	3542	780	101	1681
Loom weft-replenishing mechanism	J. T. Bolton	716,373	Dec. 23	3352	732	101	2581
Loom weft stop-motion	G. Fair	710,767	Oct. 7	706	149	101	144
Loom weft stop-motion. Narrow-ware	F. B. Wilkins	695,982	Mar. 25	3060	694	98	2399
Looms. Appliance for beating up the weft in.	H. Panitschek and C. Herold	696,263	Mar. 25	3639	814	98	3518
Looms at intervals. Means for stopping	G. A. Cluff	704,436	July 8	1986	432	100	418
Looms by the quantity of weft in the shuttles.	J. H. Klerx	709,910	Sept. 30	3716	838	100	2804
Looms by the quantity of weft in the shuttles.	J. H. Klerx	709,911	Sept. 30	3719	838	100	2805
Looms by the quantity of weft in the shuttles.	J. H. Klerx	715,391	Dec. 9	1406	303	101	2142
Looms. Connector for sweep-sticks and picker-sticks of	H. E. Taplin	708,745	Sept. 9	1346	307	100	2297
Looms. Electric-circuit closer for	H. W. Smith	691,079	Jan. 28	3044	685	98	684
Looms. Electric-circuit closer for	H. W. Smith	692,924	Feb. 11	1291	283	98	1092
Looms. Electric-circuit closer for	H. W. Smith	692,925	Feb. 11	1293	284	98	1092
Looms. Electric-circuit closer for	H. W. Smith	692,926	Feb. 11	1295	284	98	1093
Looms. Electric-circuit closer for	H. W. Smith	692,927	Feb. 11	1296	284	98	1093
Looms. Electric-circuit closer for	H. W. Smith	692,928	Feb. 11	1298	284	98	1093
Looms. Electric-circuit closer for	H. W. Smith	692,929	Feb. 11	1299	285	98	1094
Looms. Electric-circuit closer for	H. W. Smith	692,930	Feb. 11	1301	285	98	1094
Looms. Electric-circuit closer for	H. W. Smith	692,931	Feb. 11	1302	285	98	1094
Looms. Electric filling-changing mechanism for	H. W. Smith	692,932	Feb. 11	1304	285	98	1095
Looms. Electrical warp stop-motion for	W. H. Baker and F. E. Kip	713,836	Nov. 18	2647	590	101	1474
Looms. Electromagnetic pattern-controlling apparatus for	A. P. S. Macquisten	701,311	May 27	4060	593	99	2064
Looms. Electromechanical controlling mechanism for	J. C. Edwards	690,644	Jan. 7	532	116	98	114
Looms. Filling-carrier receptacle for filling-replenishing	C. F. Roper	711,126	Oct. 14	1388	301	101	303
Looms. Filling-carrier receptacle for weft-replenishing	J. L. Burton	708,524	Sept. 9	951	210	100	2186
Looms. Magnetic feeler for	C. P. Bostian	698,437	Apr. 29	3828	841	99	875
Looms. Means for automatically changing shuttles in	A. Smith and S. Jackson	713,702	Nov. 18	2402	535	101	1421
Looms. Means for defining the beat of the lay of.	C. H. Warren	701,973	June 10	1234	282	99	2381
Looms. Mechanical warp stop-motion for	H. Wyman	702,609	June 17	2424	553	99	2644
Looms. Oscillating lease-rod for	H. Wilde	713,035	Nov. 4	1065	127	101	1113
Looms. Shuttle-guide for weft-replenishing	A. E. Stafford	708,672	Sept. 9	1207	275	100	2237
Looms. Thread-parter for filling-replenishing	C. F. Roper	711,737	Oct. 21	2580	567	101	568
Looms. Tuft-yarn spool for tufted-pile-fabric.	J. F. Riddell	701,934	June 10	1157	266	99	2307
Lounge. Convertible	T. Hauser	716,634	Dec. 23	3890	849	101	2696

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drk.	Vol.	Page.
Lounge, Folding.	R. Sanders.	712,599	Nov. 4	264	64	101	952
Low-water alarm.	C. H. Shuttleworth.	692,488	Feb. 4	465	109	98	893
Low-water alarm.	J. A. Broekhuis.	713,553	Nov. 11	2118	474	101	1348
Low-water alarm, Electric.	E. W. Rider.	703,472	July 1	176	41	100	37
Low-water alarm for automobile-tanks. Audible.	G. E. Whitney.	698,775	Apr. 29	4505	995	99	1020
Lubricant and making same.	G. F. Downs.	697,996	Apr. 22	904	107	99	889
Lubricant holder. Non-fluid.	G. W. Brown.	694,600	Mar. 4	330	115	98	1825
Lubricant-indicator.	P. C. E. Goetze.	700,682	May 20	3038	694	99	1835
Lubricants. Testing.	P. C. E. Goetze.	700,683	May 20	3040	694	99	1835
Lubricating apparatus.	H. Hamelle.	691,905	Jan. 28	2913	657	98	658
Lubricating apparatus.	W. J. Ruff.	696,197	Mar. 25	3510	787	98	2491
Lubricating axle-bearings. Means for.	J. Abbott.	714,133	Nov. 25	3219	711	101	1615
Lubricating-can.	J. Schmidt.	696,501	Apr. 1	188	46	99	44
Lubricating car-journals. Device for.	J. E. Gill.	701,029	May 27	3748	858	99	1998
Lubricating device.	M. W. Taylor.	692,558	Feb. 4	600	141	98	920
Lubricating device.	A. Lofdahl.	701,364	June 3	149	32	99	2139
Lubricating device.	B. H. Locke.	704,555	July 15	2239	485	100	483
Lubricating device.	H. G. Reist.	708,170	Sept. 2	323	77	100	2047
Lubricating device.	F. B. Duncan.	708,324	Sept. 2	304	137	100	2104
Lubricating device.	S. W. Wardwell.	712,745	Nov. 4	515	121	101	1004
Lubricating device.	A. G. Elvin.	713,410	Nov. 11	1830	412	101	1289
Lubricating device for the st-p-bearings of shafts.	C. Mittag.	714,007	Nov. 18	2089	665	101	1546
Lubricating hydraulic cylinders. Means for.	L. G. M. West.	700,270	May 20	2260	516	99	1675
Lubricating-pad grapple.	J. Loesewitz.	709,604	Sept. 23	3117	694	100	2669
Lubricating-pump.	J. F. McCanna.	691,478	Jan. 21	2106	473	98	473
Lubricating-pump-operating apparatus.	B. Ivor.	709,986	Sept. 30	3874	872	100	2837
Lubricating steam-turbines. &c.	A. C. E. Rateau and G. Sautter.	691,914	Jan. 28	2927	659	98	661
Lubricator.					1600		
See Automatic lubricator.	Piston-lubricator.						
See Automatic lubricator.	Pneumatically-operated lubricator.						
See Automatic lubricator.	Pulley-lubricator.						
See Automatic lubricator.	Railway-track lubricator.						
See Automatic lubricator.	Trolley-lubricator.						
See Automatic lubricator.	Truck-lubricator.						
See Automatic lubricator.	Valve-lubricator.						
Lubricator.	H. Ritter.	691,570	Jan. 21	2260	508	98	505
Lubricator.	T. S. James.	691,632	Jan. 21	2263	538	98	532
Lubricator.	B. T. McCanna and T. A. Delaney.	694,406	Mar. 4	135	30	98	1741
Lubricator.	G. Fisher.	695,603	Mar. 18	2383	539	98	2247
Lubricator.	O. G. Kipp.	699,191	May 6	112	29	99	1199
Lubricator.	H. Harris.	701,567	June 3	518	114	99	2215
Lubricator.	H. A. Lyddon.	701,745	June 3	836	184	99	2283
Lubricator.	J. J. Tunney. (Reissue).	712,002	June 21	3848	885	99	2954
Lubricator.	J. Gottbrecht.	703,403	July 1	72	14	100	17
Lubricator.	J. M. Pfaudler.	705,608	July 29	4450	965	100	961
Lubricator.	W. F. Richards.	706,201	Aug. 5	385	82	100	1195
Lubricator.	F. W. Edwards.	706,224	Aug. 5	429	91	100	1204
Lubricator.	O. G. Kipp.	706,570	Aug. 12	1108	245	100	1355
Lubricator.	F. Carledge.	708,022	Sept. 2	36	8,9	100	1988
Lubricator.	J. H. Deane and J. M. Luckner.	711,235	Oct. 14	1742	375	101	377
Lubricator.	A. E. Norris.	714,941	Dec. 2	603	126	101	1955
Lubricator.	G. Whitaker.	715,717	Dec. 9	2013	451	101	2265
Lubricator and liquid-dispenser.	C. F. Clements.	710,184	Sept. 30	4254	959	100	2018
Lubricator-cup.	E. L. Rampazzi.	714,329	Nov. 25	3646	804	101	1701
Lubricator for elevator-ropes. &c.	M. H. Halloran.	709,318	Sept. 16	2325	508	100	3532
Luggage-carrier.	J. A. Britton.	707,755	Aug. 26	3413	760	100	1808
Luggage-rack.	H. Clark.	690,689	Jan. 7	643	140	98	136
Lumber. Compound.	S. H. Smith.	704,944	July 15	3001	643	100	643
Lumber-conveyer.	E. E. Thomas.	707,806	Aug. 26	3523	795	100	1891
Lumber-conveyer for double-cutting band-mills.	E. E. Thomas.	693,630	Feb. 18	2694	594	98	1390
Lumber-conveyer for double-cutting band-mills.	E. E. Thomas.	693,809	Feb. 18	3008	625	98	1464
Lumber. Drying redwood.	H. B. Phillips.	698,134	Apr. 22	3282	719	99	743
Lumber edging and matching machine.	H. A. Gale.	698,111	Apr. 22	3238	707	99	735
Lumber-gluing press.	P. Schneider.	716,288	Dec. 16	3173	695	101	2529
Lumber jointing and sizing machine.	R. S. Hill.	691,257	Jan. 14	1669	380	98	364
Lumber. Making artificial.	W. S. Huntington.	709,488	Sept. 23	2905	649	100	2625
Lumber or structure. Compound.	G. L. Smith.	693,915	Feb. 25	3235	713	98	1527
Lunch-box. Folding bicycle.	B. L. Ekelund.	698,393	Apr. 22	3747	827	99	841
Lunch-box. Heated.	R. S. Skinner.	711,357	Oct. 14	1832	403	101	401
Lung-tester. Dummy.	E. and U. S. De Moulins.	692,251	Feb. 4	64	14	98	812
Lung-testing machine.	E. Donne.	711,697	Oct. 21	2502	549	101	552
Lungs. Apparatus for testing the volume of air from the.	M. Benedict.	701,130	May 27	3925	902	99	2036
Macaroni-twisting apparatus.	E. E. Kleinschmidt.	698,119	Apr. 22	3255	713	99	738
Machine parts. Flexible device for connecting stationary or movable.	F. Reichenbach.	701,615	June 3	600	132	99	2233
Machine-tool feed mechanism.	H. B. Binsse.	695,665	Mar. 18	2492	566	98	2269
Machine-tools. Device for adjusting the work on.	H. Hess.	693,015	Feb. 11	1464	318	98	1127
Machine-wrench.	J. W. Aldridge.	706,629	Aug. 12	1217	270	100	1378
Machinist's V-block.	E. M. Cobb and E. A. Spaulding.	709,362	Sept. 30	3875	819	100	2796
Magnesia compound.	E. Rueff.	694,424	Mar. 4	169	38	98	1749
Magnesium. Making peroxid of.	F. Elias.	709,086	Sept. 16	2065	484	100	2434
Magnesium-peroxid compound. Making.	F. Fuhrmann.	698,399	Apr. 22	3748	858	99	842
Magnesium sulfate. Making.	H. H. Wing.	714,984	Dec. 2	678	141	101	1971



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Magnesium sulfate. Making	H. H. Wing	690,508	Jan. 7	267	54	98	58
Magnet. Blow-out	W. B. Potter	705,138	July 22	3418	742	100	741
Magnet-coil. Ventilated	W. Spencer, Jr	715,618	Dec. 9	1829	406	101	2226
Magnet for dynamo-electric machines or electric motors. Field	R. Lundell	695,163	Mar. 11	1589	353	98	2065
Magnet holding and adjusting apparatus for compensating binnacles.	A. M. Ritchie	702,330	June 10	1873	427	99	2500
Magnet. Polarized	E. C. Knapp	698,027	Apr. 22	3052	671	99	697
Magnetic and mechanical brake. Combined	J. F. McElroy	717,448	Dec. 30	5516	1198	101	3064
Magnetic and non-magnetic materials from one another. Apparatus for separating	J. W. R. T. Heberle	709,982	Sept. 30	3868	871	100	2836
Magnetic core for inductance-coils	J. C. Lee and E. H. Colpitts	705,985	July 29	5090	1096	100	1078
Magnetic qualities of materials. Apparatus for testing the	C. V. Drysdale	701,174	May 27	3904	918	99	2651
Magnetic separator	F. A. M. Schiechel	691,007	Jan. 14	1211	274	98	268
Magnetic separator	G. Gröndal	691,262	Jan. 14	1662	378	98	302
Magnetic separator	J. H. A. McPhee	698,311	Apr. 22	3398	792	99	810
Magnetic separator	J. C. Winder	708,329	June 24	3765	867	99	2935
Magnetic separator	A. Dings	707,088	Aug. 19	2082	465	100	1576
Magnetic separator	J. P. Wetherill	708,185	Sept. 2	348	83	100	2652
Magnetic separator	J. P. Wetherill	708,186	Sept. 2	350	83.84	100	2653
Magnetic separator	J. P. Wetherill	708,187	Sept. 2	352	84	100	2654
Magnetic separator	C. Scholl	715,160	Dec. 2	877	212	101	2696
Magnetic wheel	J. O. Heinze, Jr	700,484	Sept. 23	2898	647	100	2924
Magneto-electric generator	J. M. Wilson	695,358	Mar. 11	1928	430	98	2133
Magneto-electric generator	V. G. Apple	697,063	Apr. 22	2933	647	99	674
Magneto-electric machine	F. R. Simms and R. Bosch	690,469	Jan. 7	168	35	98	37
Magneto-therapeutic apparatus	J. Burry	703,989	July 8	1152	250	100	244
Magneto-therapeutic apparatus	J. Burry	717,072	Dec. 30	4825	1046	101	2919
Magnifying-glass. Binocular	E. Berger	701,788	June 3	906	202	99	2238
Mail and parcel carrier	H. O. Harden	692,443	Feb. 4	94	35	98	810
Mail-bag catcher	B. E. Watson	695,322	Mar. 11	1748	387	98	2007
Mail-bag catcher	C. C. Mcllary	704,904	July 15	2857	620	100	612
Mail-bag catcher	G. B. and J. C. Klink	706,323	Aug. 5	645	141	100	1245
Mail-bag catcher	G. W. Smith	707,267	Aug. 19	2410	540	100	1645
Mail-bag catcher	R. L. Slagle	708,930	Sept. 9	1723	398	100	2347
Mail-bag catcher	H. H. Houser and S. C. Gorman	710,806	Oct. 7	892	194	101	181
Mail-bag catcher and deliverer	C. W. Stänglen	716,777	Dec. 23	4138	907	101	2748
Mail-bag catching and delivering device	C. R. Bennett	694,008	Mar. 4	1096	242	98	1944
Mail-bag catching and delivering machine	W. B. Rohrer	707,017	Aug. 12	1939	433	100	1529
Mail-bag catching and delivering mechanism	G. R. Moore	691,285	Jan. 14	1714	389	98	373
Mail-bag catching and delivering mechanism	R. J. Meyer	709,074	June 24	3313	762	99	2843
Mail-bag crane	C. J. Nordvall	696,257	Mar. 25	3630	847	98	2321
Mail-bag crane	L. B. Sweetland	701,771	June 8	882	197	99	2293
Mail-bag deliverer and catcher	G. R. Berrien	696,358	Apr. 22	3677	811	99	827
Mail-bag-delivering device	J. Swihart	713,362	Nov. 11	1751	395	101	1273
Mail-bag fastener	C. A. and F. L. Merrill	715,475	Dec. 9	1696	347	101	2182
Mail-bag fastener and lock	E. Stevenson	706,211	Aug. 5	541	117	100	1225
Mail-bag gripping and delivering device	S. R. Patten	693,890	Feb. 25	3207	708	98	1522
Mail-bag receiver and deliverer	W. T. Fulton, E. Lefevre, and C. W. Copeland	715,781	Dec. 16	2156	482	101	2314
Mail-bag receiving and delivering apparatus	A. P. Hauss	707,412	Aug. 19	2691	608	100	1704
Mail-bags, &c. Fastening for	R. H. Easdown	712,783	Nov. 4	598	137	101	1022
Mail-box	A. M. Burnham	692,178	Jan. 28	3399	769	98	755
Mail-box	J. M. Ball	692,814	Feb. 11	1065	239	98	1041
Mail-box	A. Stansel	693,917	Feb. 25	3239	713	98	1528
Mail-box	M. M. Conklin	694,053	Feb. 25	3526	776	98	1585
Mail-box	J. W. Currier	690,721	Apr. 1	622	139	99	135
Mail-box	A. F. Corbin	697,450	Apr. 15	2010	444	99	462
Mail-box	D. B. Smith	695,253	May 4	929	54	99	321
Mail-box	690,746	Mar. 13	1186	276	99	1430	
Mail-box	S. A. Jones	702,230	June 10	1692	381	99	2173
Mail-box	J. M. Reasoner	702,479	June 17	2169	495	99	2591
Mail-box	W. N. Moore	706,843	Aug. 12	1639	367	100	1470
Mail-box	P. P. I. Fyfe	710,854	Oct. 7	875	190	101	177
Mail-box	C. H. Shuttleworth	714,409	Nov. 25	3783	836	101	1728
Mail-box	S. M. Smiley	715,240	Dec. 9	1193	248	101	2085
Mail-box-door register	H. S. Mills	713,325	Nov. 11	1683	379	101	1258
Mail-box indicator	C. E. Herd	703,920	July 1	1004	218	100	200
Mail-box indicator	L. T. Carothers	713,958	Nov. 18	2901	644	101	1528
Mail-box-locking system	J. E. Walsh	699,597	May 6	888	206	99	1358
Mail-box. Rural-delivery	J. E. Wright and L. J. Edwards	693,770	Feb. 18	2940	646	98	1450
Mail-box. Rural-delivery	W. L. Vestal	694,219	Feb. 25	3821	845	98	1644
Mail-carrier	A. L. Mumma	708,441	July 1	133	30	100	29
Mail-catcher	C. E. P. Hobart	707,696	Aug. 26	3264	730	100	1839
Mail-catcher and deliverer	J. F. Mills, Jr., and C. Fremd, Jr	694,878	Mar. 4	1045	232	98	1933
Mail-chute	A. C. Badger	708,950	Sept. 9	1763	406	100	2355
Mail delivering and catching device	W. J. Noble	708,399	Sept. 2	700	157	100	2123
Mail delivery and collection system	F. S. Vogue	705,982	July 29	5114	1114	100	1095
Mail-distributing case. Adjustable	H. F. W. Mohr	714,220	Nov. 25	3437	756	101	1658
Mail from cars. Apparatus for delivering	R. L. Slagle and E. F. Pywell	693,167	Feb. 11	1783	391	98	1189
Mail-marking machine	E. Cheshire	690,695	Jan. 7	626	137	98	132

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Mail-marking machine.....	E. Cheshire.....	690,696	Jan. 7	630	187 138 139 140	98	133
Mail-marking machine.....	E. Cheshire.....	690,697	Jan. 7	636	140	98	134
Mail-marking machine.....	C. V. Fyke.....	690,942	Jan. 14	1079	242	98	242
Mail-marking machine.....	J. H. Barr and C. V. Fyke.....	692,176	Jan. 28	3394	769	98	754
Mail-marking machine.....	J. Geary.....	694,007	Feb. 25	3428	754 755	98	1566
Mail-marking machine.....	J. French.....	694,850	Mar. 4	983	218 219	98	1921
Mail-marking machine.....	H. E. Waite.....	700,586	May 20	2966	658	99	1798
Mail-matter-carrying apparatus.....	G. S. Pothe.....	705,440	July 22	4059	880	100	872
Mail-matter. Metallic device for fastening up.....	G. T. Shilton.....	713,352	Nov. 11	1733	390	101	1269
Mail-package box.....	W. H. Mulloy.....	716,921	Dec. 30	4525	982	101	2855
Mail-pouch.....	G. F. Snider.....	700,844	May 27	3398	780	99	1926
Mail-pouch.....	J. H. and P. J. Hutton.....	711,502	Oct. 21	2124	461	101	471
Mail-pouch address and fastening attachment.....	H. D. Weller.....	699,431	May 6	354	132	99	1535
Mail-pouch crane and hanger.....	L. W. Barker.....	712,807	Nov. 4	416	190	101	1064
Mail-pouch deliverer.....	H. R. Kennedy.....	712,141	Oct. 28	3354	742	101	748
Mail-pouch fastener.....	W. H. Williams.....	692,398	Feb. 4	313	75	98	864
Mail-pouches to railway-cars. Device for deliver- ing.....	J. W. Reynolds.....	704,757	July 15	2582	558	100	554
Mail receiving and delivering mechanism for rail- ways.....	F. H. Burr.....	707,500	Aug. 19	2841	643	100	1736
Mail-service apparatus.....	G. A. Owen.....	698,547	Apr. 29	4017	887 888	99	913
Mail-service apparatus.....	G. A. Owen.....	699,407	May 6	533	123 124	99	1284
Mail-service apparatus.....	G. A. Owen.....	699,408	May 6	538	124 125	99	1285
Mail-service apparatus. Rural-route.....	M. S. Hoover.....	710,457	Oct. 7	105	24	101	23
Malt-wagon door.....	W. F. Shelly.....	706,694	Aug. 12	1340	298	100	1406
Mailing-package.....	O. Marsteller.....	690,977	Jan. 14	1153	260	98	256
Mailing-tube.....	T. Wheatley.....	696,614	Apr. 1	403	94	90	88
Maize for the production of grits, flakes, &c. Treat- ment of.....	T. T. Gaff and J. F. Gent.....	707,059	Aug. 12	2020	100	1546	
Maize or Indian corn. Degerming.....	T. T. Gaff and J. F. Gent.....	707,058	Aug. 12	2018	451	100	1546
Mallet.....	W. E. Bolster.....	698,436	Apr. 29	3826	843	99	875
Mallet.....	J. F. Knutney.....	715,814	Dec. 16	2230	496	101	2330
Malt-drum.....	F. Knittel.....	691,471	Jan. 21	2096	469	98	471
Malt-drying apparatus.....	W. P. Rice.....	715,606	Dec. 9	1811	400	101	2223
Malt-houses. Apparatus for conveying grain in.....	W. P. Rice.....	709,558	Sept. 23	3038	672	100	2052
Malt-kiln.....	J. F. Dornfeld.....	693,121	Feb. 11	1681	367	98	1171
Malt-kiln.....	T. Haynes, Jr.....	702,552	June 17	3297	523	99	2018
Malt-kiln.....	P. G. Toepper.....	704,597	July 15	2305	501	100	497
Malt liquors. Manufacture of.....	J. Schenckle.....	694,671	Mar. 4	640	140	98	1848
Malted biscuit and making same. Granular.....	J. Lambert.....	701,742	June 3	835	100	99	2283
Malting-drum.....	J. F. Dornfeld.....	715,465	Dec. 9	1543	385	101	2169
Malting-drum. Pneumatic.....	H. Smith.....	700,842	May 27	3391	778 779	99	1924
Malting-kiln. Pneumatic.....	B. Berg.....	706,716	Aug. 12	1372	806	100	1412
Malting rice.....	E. C. Schrotky.....	693,509	Feb. 18	507	257	98	1373
Mandolin attachment.....	F. G. McPherson.....	702,987	June 24	3148	724	99	2812
Mandolin. Self-playing.....	A. I. Mitchell.....	693,417	Feb. 18	2276	498	98	1313
Mandrel for shaping hollow or tubular wrought- metal articles.....	F. D. Sweet.....	693,186	Feb. 11	1839	399	98	1201
Mandrel or chuck. Expandible.....	J. H. Bryan.....	714,448	Nov. 25	3860	853	101	1742
Manger.....	A. C. Faust and P. Kearns.....	712,919	Nov. 4	857	199	101	1072
Manger and hay-rack for stables. Combined.....	T. M. Swinton.....	692,382	Feb. 4	287	70	98	859
Mangle.....	W. H. Baker.....	699,063	Apr. 29	5060	1118 1119	99	1140
Mangle.....	D. Lumgair.....	700,062	May 13	1798	417	99	1558
Mangle.....	W. E. Andree.....	702,687	June 17	2565	589	99	2674
Manhole-casing.....	C. F. Bingham.....	692,231	Feb. 4	19	5	98	801
Manhole-cover.....	F. Barker.....	694,455	Mar. 4	228	50	98	1761
Manhole-cover.....	L. M. G. Delaunay-Belleville.....	713,370	Nov. 18	2331	650	101	1534
Manicure-knife.....	W. E. Reed.....	695,342	Mar. 11	1903	424	98	2123
Manifold device.....	E. Leesser.....	704,891	July 15	2838	614	100	608
Manifold duplicating device.....	H. H. Norrington.....	709,853	Sept. 23	3575	806	100	2764
Manifolding device.....	C. H. Mann.....	698,302	Apr. 22	3585	791	99	808
Manifolding sales device.....	C. E. Frisbie.....	703,781	July 1	744	165	100	149
Mantle materials. Machine for saturating.....	O. Wiederhold.....	696,357	Mar. 25	3849	856	99	2561
Mantle-support.....	J. F. W. Jost.....	696,178	Mar. 25	3481	779	99	2486
Mantle-support.....	J. I. Robin.....	696,492	Apr. 1	176	43	99	42
Mantle-support.....	J. I. Robin.....	696,493	Apr. 1	177	43	99	42
Mantle-support.....	J. E. Murray and J. J. Hoover.....	708,383	Sept. 2	688	155	100	2121
Mantle-trimmer.....	C. Wagner and W. Wendtland.....	695,354	Mar. 11	1921	428	98	2132
Mantle-trimming mechanism.....	J. T. Robin.....	709,044	Sept. 16	1980	452	100	2416
Manure-distributor.....	J. Howell.....	705,329	July 29	5023	1094	100	1076
Manufacture from apatite or similar mineral phosphate. Manufacturing.....	J. G. Wiborgh and W. Palmaer.....	707,886	Aug. 26	3682	100	1922	
Map or chart case.....	J. E. Doldt.....	699,293	May 6	310	71	99	1238
Maps. Manufacture of spherical.....	H. Henrijean and A. Patesson.....	701,340	June 3	114	24	99	2132
Marble. Manufacturing artificial.....	J. Czernak.....	704,621	July 15	2341	100	504	
Marble-shooter.....	W. R. Kizer.....	716,433	Dec. 23	3469	757	101	2606
Marble, stone, &c. Coloring.....	W. G. and A. C. Roach.....	700,090	May 13	1846	76	99	1568
Margarin, &c. Machine for kneading and washing.....	L. B. Donkers.....	701,473	June 3	345	66	99	2180
Marine brake.....	H. Simpson.....	703,487	July 1	196	47	100	41
Marine structures. Erecting.....	E. Becker.....	710,658	Oct. 7	501	105	101	102
Marker for agricultural machines. Row.....	F. L. Block.....	691,436	Jan. 21	2039	456 457	98	460
Marking-machine.....	R. N. Moody.....	701,071	May 27	3805	872	99	2010
Marking-machine.....	F. J. Hagen.....	709,011	Sept. 16	1905	487 488	100	2401
Marking-pin.....	L. J. Davis.....	691,361	Jan. 21	1908	420	98	431



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Invention.	Name.	No.	Date	Monthly volume		Official Gazette	
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Marl. Apparatus for digging, treating, and delivering	C. J. Reilly and S. B. Newberry	699,974	May 13	1647	377	99	1527
Mason's gage. Brick or stone	H. C. Newman	713,789	Nov. 18	2561	571	101	1457
Massage apparatus. Ear	M. R. Hutchison	717,407	Dec. 30	5458	1184	101	3033
Massage apparatus. Electric	F. B. Turck	695,971	Mar. 25	3040	690	98	2394
Massage apparatus. Electrical	O. A. En Holm	715,650	Dec. 9	1889	417	101	2237
Massage device	C. I. Proben and G. Fischer, Jr.	693,064	Feb. 11	1555	340	98	1145
Massage-machine	C. Pfanschmidt and J. Siefert	702,829	June 17	2813	647	99	2729
Massage-machine. Electric	E. B. Jacobson	698,022	Apr. 22	3045	669	99	696
Massage-roller. Electric	W. B. Preston	693,063	Feb. 11	1554	339	98	1145
Massaging device	C. E. Mason	709,108	Sept. 16	2103	482	100	2444
Massaging implement	J. B. Wantz	703,100	June 24	3293	772	99	2833
Massaging instrument	H. E. Law	696,345	Mar. 25	3216	851	98	2553
Massaging-machine	W. W. M. Hickey	710,689	Oct. 7	556	116	101	114
Masse-cuite-purifying apparatus	M. Weinrich	696,217	Mar. 25	3553	795	98	2590
Mast-arm fixture. Swinging jointed	E. N. Davis	716,333	Dec. 16	3264	713	101	2548
Mast or flagstaff truck	S. H. M. Seib	691,976	Jan. 28	3041	688	98	688
Mat:							
See Door-mat.	Press-mat.						
Floor-mat.							
Mat	A. Baumgarten	690,551	Jan. 7	353	72	98	77
Mat-cutter	C. Arnold	701,838	June 10	971	217	99	2328
Match	C. M. Bowman	707,080	Aug. 19	2069		100	1573
Match-box	C. Schafer	691,183	Jan. 14	1519	342	98	332
Match-box	G. Law	693,723	Feb. 18	2838	38	101	1433
Match-box	J. T. Matthews	694,169	Feb. 25	3738	825	98	1628
Match-box	K. Halfacre	694,471	Mar. 4	251	56	98	1765
Match-box	G. Greenland	697,245	Apr. 8	1603	360	99	359
Match-box	S. Biren	697,601	Apr. 15	2270	546	99	514
Match-box	J. B. Frederick	705,578	July 29	4388	952	100	949
Match-box	E. Altimus	710,551	Oct. 7	303	66	101	61
Match-box	F. Seider	714,749	Dec. 2	188	38	101	1565
Match-box	E. G. Nordblom	716,088	Dec. 16	2782	613	101	2450
Match-box and cigar-cutter. Combined	F. H. Grothe	691,372	Jan. 21	1925	433	98	435
Match-box. Collapsible	J. Dellinger	695,800	Mar. 18	2731	632	98	2317
Match-box. Combination	C. St. Jacques	707,277	Aug. 19	2447	549	100	1654
Match-box filling and closing machine	F. Schafer	712,419	Oct. 28	3868	849	101	852
Match-box-filling machine	L. Mettewie, L. Rochet, and A. Beeck	697,514	Apr. 15	2113	470	99	483
Match-box holder	A. H. Doty	699,606	May 13	1034	241	99	1402
Match-boxes, &c. Apparatus for applying the preparation to striking-surfaces of	S. E. Pasfield	709,645	Sept. 23	3181	711	100	2081
Match-boxing machine	M. Paridon	703,668	July 1	541	122	100	106
Match-boxing machine	C. F. Christ	705,037	July 22	3193	689	100	697
Match-boxing machine	A. E. Ellinwood	707,568	Aug. 26	3000	674	100	1784
Match-boxing machine	W. F. Hutchinson	709,267	Sept. 16	2425	549	100	2511
Match delivering and igniting device	W. H. Burden	695,789	Mar. 18	2706	615	98	2312
Match ignition material	R. E. A. Gans	698,698	Apr. 29	4366		99	489
Match-lighter	J. Proops and S. Hilsum	714,028	Nov. 18	3026	673	101	1555
Match-machine	S. Backus	699,437	May 6	592	135	99	1297
Match-machine	K. Wiessner	700,392	May 20	2515	575	99	1723
Match-machine	W. F. Hutchinson	709,266	Sept. 16	2422	549	100	2510
Match-machine	W. H. Parker	712,712	Nov. 4	454	108	101	892
Match-machine conveyor-chain	E. M. Lockwood, Jr.	698,526	Apr. 29	3975	879	99	903
Match-machine conveyor-chain	E. M. Lockwood, Jr.	700,433	May 20	2586	592	99	1739
Match-machine dipping-roll	J. P. Wright	704,190	Sept. 16	2274	517	100	2478
Match-machines. Power-transmitting device for	T. W. Synnot	702,683	June 17	2359	587	99	2673
Match-making machine	J. Dela Mar	690,905	Jan. 7	1012	228	98	212
Match-making machine	E. H. Eisenhart	692,126	Jan. 28	3314	751	98	737
Match-making machine	F. Schafer	703,154	June 24	3460	734	99	2872
Match-making machine	H. C. La Flamboy	715,673	Dec. 9	1931	433	101	2248
Match-making machine	E. H. Eisenhart	716,691	Dec. 23	3981	871	101	2714
Match-making machine	J. A. E. Criswell	716,809	Dec. 23	4201	920	101	2759
Match-making machine	J. A. E. Criswell	716,810	Dec. 23	4212	923	101	2763
Match-making machine	J. A. E. Criswell	716,811	Dec. 23	4226	924	101	2767
Match-making machine	J. A. E. Criswell	716,812	Dec. 23	4234	925	101	2769
Match-making machine	J. A. E. Criswell	716,813	Dec. 23	4247	928	101	2774
Match-making machine	J. A. E. Criswell	716,814	Dec. 23	4256	928	101	2777
Match-making machine	J. A. E. Criswell	716,815	Dec. 23	4266	929	101	2781

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Match-making machine.....	J. A. E. Criswell.....	716,816	Dec. 23	4274	931 932	101	2783
Match-making machine.....	J. A. E. Criswell.....	716,817	Dec. 23	4282	932	101	2786
Match-making machine.....	J. A. E. Criswell.....	716,818	Dec. 23	4286	933	101	2787
Match-making machine.....	J. A. E. Criswell.....	716,819	Dec. 23	4290	933 934	101	2788
Match-making machine.....	J. A. E. Criswell.....	716,820	Dec. 23	4295	934 935	101	2790
Match-making machine.....	J. A. E. Criswell.....	716,821	Dec. 23	4300	935	101	2791
Match-making machine.....	J. A. E. Criswell.....	716,822	Dec. 23	4307	936	101	2793
Match-making machine.....	J. A. E. Criswell.....	716,823	Dec. 23	4313	937 938 939	101	2795
Match-making machine.....	J. A. E. Criswell.....	716,824	Dec. 23	4321	939	101	2796
Match-making machine.....	J. A. E. Criswell.....	716,825	Dec. 23	4325	939 940	101	2797
Match-making machine.....	J. A. E. Criswell.....	716,826	Dec. 23	4330	940 941	101	2798
Match-making machine.....	J. A. E. Criswell.....	716,827	Dec. 23	4337	941 942	101	2800
Match-making machine.....	J. A. E. Criswell.....	716,828	Dec. 23	4343	943	101	2801
Match-making machine.....	J. A. E. Criswell.....	716,829	Dec. 23	4347	943 944	101	2802
Match-making machinery. Splint-frame for.....	E. M. Lockwood, Jr.....	695,219	Mar. 11	1698	375	98	2086
Match-safe.....	J. R. Webb.....	693,033	Feb. 25	3571	720	98	1534
Match-safe.....	S. D. Locke.....	698,406	Apr. 22	3759	829	99	845
Match-safe.....	S. L. Whitehead.....	698,774	Apr. 29	4504	995	99	1020
Match-safe.....	G. H. Staten.....	700,451	May 20	2020	599	99	1746
Match-safe.....	W. G. Hurley.....	701,729	June 3	813	179	99	2278
Match-safe.....	H. T. Randle.....	713,151	Nov. 11	1235	292	101	1180
Match-safe.....	W. W. Kyle.....	715,090	Dec. 2	856	182	101	2012
Match-safe and cigar-lighter. Unitary.....	O. B. Hughes.....	696,337	Mar. 25	3806	848	98	2553
Matches. Making.....	W. H. Parker.....	703,453	July 1	150	34	100	32
Matches. Making.....	W. H. Parker.....	704,091	July 8	1339	292	100	280
Material of construction.....	E. Thacher.....	691,416	Jan. 21	1998	448	98	450
Material of construction.....	E. Thacher.....	714,971	Dec. 1	137	101	100	163
Matrices. Making justified.....	W. W. Cathcart.....	700,300	May 20	2326	530	99	1687
Matrices. Producing.....	I. Kitsee.....	716,053	Dec. 16	2714	.....	101	2436
Matrix.....	J. L. Winter.....	691,025	Jan. 28	2946	.....	98	664
Matrix-band retainer.....	A. J. Hiniker.....	698,280	Apr. 22	3552	782	99	801
Matrix die mechanism.....	A. W. Cathcart.....	700,301	May 20	2328	530	99	1687
Matrix for making gramophone, zonophone, or similar records.....	B. Kaplan.....	697,256	Apr. 8	1632	366	99	367
Matrix-making machine.....	G. B. Shepard.....	711,593	Oct. 21	2302	501 502 503 504	101	508
Matrix-making machine.....	G. B. Shepard.....	713,246	Nov. 11	1486	336 337 338	101	1218
Matrix-plate. Stipple.....	B. Smith.....	694,115	Feb. 25	3621	801	98	1605
Matrix. Treating.....	J. A. Potter and W. C. Harvie.....	710,300	Sept. 30	4456	1005	100	2962
Matting. Straw.....	W. Wattie.....	693,090	Feb. 11	1604	350	98	1155
Mattress.....	F. Plettenberg.....	692,705	Feb. 4	867	198	98	976
Mattress.....	J. Marshall.....	698,529	Apr. 29	3983	881	99	906
Mattress.....	D. Frankenthal.....	702,132	June 10	1646	308	99	2464
Mattress. Adjustable invalid.....	M. Damburn.....	696,802	Apr. 1	770	153	99	163
Mattress-filler.....	G. W. Wareham.....	697,045	Apr. 8	1265	281	99	288
Mattress-filling machine.....	K. Wessel.....	707,745	Aug. 26	3376	760	100	1861
Mattress-filling machine.....	K. Wessel.....	707,746	Aug. 26	3381	761	100	1863
Mattress-filling machine.....	W. Wuest, Jr.....	715,450	Dec. 9	1515	323	101	2164
Mattress. Hospital.....	D. T. Rosett.....	710,076	Sept. 30	4032	909	100	2871
Mattress-making machine.....	D. Wagner.....	716,354	Dec. 16	3304	720 721	101	2555
Mattress or cushion and heating attachment therefor.....	A. G. Schmied.....	697,279	Apr. 8	1672	374	99	376
Mattress. Spring-wire.....	C. H. Closterman.....	694,614	Mar. 4	536	117	98	1827
Mattress-sterilizer.....	W. H. Bussler.....	713,056	Nov. 11	1115	257	101	1141
Mattress stretcher. Wire.....	J. Hoey.....	693,018	Feb. 11	1469	321	98	1128
Mattress-stuffing machine.....	C. W. Johansen.....	703,658	July 1	516	116	100	101
Mattress-stuffing machine.....	H. W. Pennypacker.....	708,969	July 1	1104	228 229	100	219
Mattress-stuffing machine.....	W. S. Allender and T. Stocker.....	717,064	Dec. 30	4808	1012 1043	101	2915
Mattress-upholstering machine.....	C. E. Hadley.....	716,531	Dec. 23	3671	802 803	101	2647
Mattress. Wire.....	C. S. Lloyd.....	706,970	Aug. 12	1858	416	100	1512
Measure. Adjustable.....	A. J. C. and F. Sansone.....	713,088	Nov. 18	225	130	101	1416
Measure and sterilizer. Combination liquid.....	F. Nolf.....	695,167	Mar. 11	1594	354	98	2066
Measure for builders. Angle.....	F. Nolf.....	717,257	Dec. 30	5191	1126	101	2998
Measure. Lumber.....	J. Greene.....	702,200	June 10	1656	371	99	2466
Measure. Oil.....	G. E. Bernard.....	702,767	June 17	2718	624	99	2706
Measure reel. Tape.....	V. G. Hills and J. E. Chapson.....	692,665	Feb. 4	797	181	98	902
Measure. Rotary.....	J. F. Steckenreiter.....	699,855	May 13	1416	327	99	1479
Measure. Tape.....	W. Chesterman.....	701,681	June 3	725	160	99	2260
Measure. Tape.....	F. H. Nash.....	712,148	Oct. 28	3399	744	101	751
Measure. Tea.....	B. S. Perkins.....	714,026	Nov. 18	3022	672	101	1554
Measurer and register. Log.....	E. L. Arthur.....	700,288	May 20	2296	524	99	1681
Measurer. Lumber.....	B. G. Moss.....	694,405	Mar. 4	133	29	98	1740
Measuring alternating electric currents.....	M. E. Thompson.....	714,973	Dec. 2	654	138	101	1967
Measuring alternating electric currents.....	M. E. Thompson.....	715,220	Dec. 2	1086	293	101	2059
Measuring and cutting device for spool-cabinets. Thread.....	J. Droeve.....	694,950	Mar. 11	1179	258	98	1980
Measuring and drafting device for garments.....	A. Adelberg.....	711,611	Oct. 21	2335	510 511	101	515
Measuring and drafting device. Garment.....	C. Ryan.....	717,284	Dec. 30	5233	1137	101	3006



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Measuring and drawing liquids. Apparatus for.....	E. Franc.....	697,830	Apr. 15	2685	596	99	602
Measuring and emptying device for bottles.....	B. Arthurs.....	709,858	Sept. 30	3586	808	100	2779
Measuring and filling apparatus.....	A. C. Wright.....	711,144	Oct. 14	1429	310	101	312
Measuring and recording measurements of material. Mechanism for.....	J. Hall.....	697,246	Apr. 8	1604	360	99	359
Measuring and recording oscillating movements of bodies. Apparatus for.....	M. Arndt.....	693,990	Feb. 25	3401	747	98	1560
Measuring and recording variable diameters of tubing, &c. Device for.....	L. B. Mellor.....	713,784	Nov. 18	2553	568	101	1456
Measuring and registering device. Liquid.....	G. M. Marshall.....	695,691	Mar. 18	2538	574	98	2977
Measuring apparatus.....	F. Huff.....	699,555	May 13	1619	370	99	1522
Measuring apparatus. Distance.....	P. Hofman.....	716,710	Dec. 23	4016	880	101	2721
Measuring apparatus. Liquid.....	J. Marchbank and N. P. Bidstrup.....	702,019	June 10	1321	302	99	2397
Measuring-cabinet. Liquid.....	J. M. Kinnard.....	703,270	June 24	3682	648	99	2917
Measuring-cabinet. Computing.....	E. Hornaday.....	696,564	Apr. 1	307	72	99	69
Measuring-can.....	W. E. Sherwood.....	700,984	May 27	3640	837	99	1974
Measuring-can. Closed.....	C. H. Weber.....	697,041	Apr. 8	1298	282	99	384
Measuring-case.....	A. R. and H. G. Wormwood.....	702,083	June 10	1456	327	99	2125
Measuring coal to gas-retorts. Mechanism for.....	W. R. Herring.....	706,940	Aug. 12	1897	404	100	1503
Measuring-cup.....	J. M. Strout.....	703,697	June 24	3358	771	99	2852
Measuring depths. Lead for.....	E. Krumhoff.....	707,599	Aug. 26	3058	088	100	1796
Measuring device.....	F. S. Baldwin.....	692,756	Feb. 4	946	214	98	991
Measuring device.....	C. Christensen.....	706,389	Aug. 5	783	170	100	1272
Measuring device.....	F. Hill.....	709,600	Sept. 23	3111	693	100	2668
Measuring device. Counter.....	J. C. W. Meyer.....	714,219	Nov. 25	3436	756	101	1658
Measuring device. Liquid.....	C. Dyer.....	690,936	Jan. 14	1071	241	98	240
Measuring device. Liquid.....	S. E. Humphreys.....	699,621	May 6	936	217	99	1368
Measuring device. Shoemaker's.....	T. Cort.....	709,665	Sept. 23	3217	718	100	2689
Measuring electric currents. Instrument for.....	W. Thomson.....	706,361	Aug. 5	708	15	100	1359
Measuring horses. Standard for.....	W. H. Netherland.....	707,862	Aug. 26	3633	810	100	1911
Measuring instrument.....	P. E. Shaw.....	693,628	Feb. 18	2687	593	98	1397
Measuring instrument.....	I. B. Hagan.....	697,335	Apr. 8	1765	305	99	305
Measuring instrument.....	G. J. Luck.....	704,263	July 8	1674	364	100	351
Measuring instrument.....	C. A. Brown and R. C. Kerr.....	708,520	Sept. 9	947	214	100	2185
Measuring instrument.....	T. S. Tilley.....	711,801	Oct. 21	2704	596	101	594
Measuring instrument. Combination.....	R. Barr.....	703,109	June 21	3375	775	99	2855
Measuring-instrument connection.....	J. E. Woodbridge.....	713,583	Nov. 11	2180	486	101	1359
Measuring instrument. Electric.....	R. H. Read.....	716,103	Dec. 16	2825	622	101	2459
Measuring instrument. Electrical.....	F. A. La Roche.....	691,393	Jan. 21	1963	441	98	443
Measuring instrument. Electrical.....	T. Duncan.....	698,647	Apr. 29	4241	986	99	957
Measuring instrument. Electrical.....	T. Duncan.....	698,679	Apr. 29	4319	954	99	977
Measuring instrument. Electrical.....	T. Duncan.....	698,680	Apr. 29	4322	951	99	978
Measuring instrument. Electrical.....	T. Duncan.....	698,681	Apr. 29	4327	955	99	979
Measuring instrument. Electrical.....	T. Duncan.....	698,682	Apr. 29	4330	955	99	980
Measuring instrument. Electrical.....	T. Duncan.....	698,683	Apr. 29	4334	955	99	982
Measuring instrument. Electrical.....	T. Duncan.....	698,684	Apr. 29	4336	956	99	982
Measuring instrument. Electrical.....	T. Duncan.....	698,685	Apr. 29	4339	956	99	983
Measuring instrument. Electrical.....	T. Duncan.....	698,686	Apr. 29	4342	956	99	984
Measuring instrument. Electrical.....	T. Duncan.....	698,687	Apr. 29	4345	957	99	985
Measuring instrument. Electrical.....	T. Duncan.....	698,689	Apr. 29	4349	958	99	986
Measuring instrument. Electrical.....	T. Duncan.....	698,690	Apr. 29	4351	959	99	986
Measuring instrument. Electrical.....	T. Duncan.....	698,691	Apr. 29	4353	959	99	986
Measuring instrument. Electrical.....	T. Duncan.....	698,692	Apr. 29	4356	960	99	987
Measuring instrument. Electrical.....	V. Arcioni.....	700,111	May 13	1882	438	99	1574
Measuring instrument. Electrical.....	E. B. Jacobson.....	704,543	July 15	2218	480	100	479
Measuring instrument. Electrical.....	C. W. Atkinson.....	714,127	Nov. 25	3225	712	101	1616
Measuring instrument. Electrical.....	E. Weston.....	716,971	Dec. 30	4626	1003	101	2876
Measuring instrument. Lens.....	F. Hardinge.....	703,725	July 1	649	144	100	130
Measuring instrument. Liquid.....	G. Schirmer.....	711,128	Oct. 14	1390	332	101	303
Measuring instrument. Recording electrical.....	E. Weston and A. O. Benecke.....	713,257	Nov. 11	1517	344	101	1223
Measuring instrument. Recording electrical.....	E. Weston and A. O. Benecke.....	713,258	Nov. 11	1522	344	101	1224
Measuring instrument. Recording electrical.....	E. Weston and A. O. Benecke.....	713,259	Nov. 11	1526	345	101	1224
Measuring machine. Cloth or paper.....	J. H. Nieman.....	694,983	Mar. 11	1250	273	98	1904
Measuring-machine for plastic material.....	F. J. G. Rainbow.....	692,903	Feb. 11	1248	277	98	1082
Measuring-machine for rolled goods.....	H. R. Meade.....	709,231	Sept. 16	2345	531	100	2494
Measuring-receptacle for liquids, &c.....	J. W. Zimmerman.....	710,932	Oct. 7	1002	222	101	204
Measuring tank and pump.....	F. L. Wieburg.....	691,515	Jan. 21	2179	488	98	489
Measuring-tank. Automatic.....	J. E. Hartman.....	716,530	Dec. 23	3770	806	101	2654
Measuring the areas of surfaces. Machine for.....	J. E. Nightingale.....	701,498	June 3	392	82	99	2189
Measuring the degree of exposure to light. Instrument for.....	F. Schoeler.....	707,164	Aug. 19	2225	499	100	1605
Measuring the energy of three-phase alternating-current circuits.....	F. Conrad.....	717,496	Dec. 30	5612	1218	101	3084
Measuring the energy of three-phase alternating-current circuits. Means for.....	F. Conrad.....	716,867	Dec. 30	4421	950	101	2894
Measuring the lengths of fabrics. Apparatus for.....	F. C. Stephan.....	713,524	Nov. 11	2970	463	101	1398
Measuring-weir.....	H. A. Icke.....	695,450	Mar. 18	2100	473	98	2189
Meat-chopper.....	J. Emig.....	694,951	Mar. 11	1184	259	98	1980
Meat-chopper.....	L. B. Cobb and C. M. Jenkins.....	706,800	Aug. 12	1558	348	100	1452
Meat-chopping machine.....	C. G. Schmidt and H. C. Chambers.....	713,690	Nov. 18	2381	531	101	1416
Meat-curing apparatus.....	C. J. Lincoln.....	705,367	July 22	3985	852	100	845
Meat-cutter.....	H. G. Voigt.....	694,704	Mar. 4	705	154	98	1860
Meat-cutting block.....	M. T. Sharp.....	698,627	Feb. 18	2685	593	98	1397

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Meat-cutting machine	L. Ballbach	692,594	Feb. 4	673	157	98	986
Meat-hook	A. T. Clark	697,197	Apr. 8	1531	342	99	345
Meat-hook	F. D. Broga	712,492	Nov. 4	52	13, 14	101	908
Meat. &c. Machine for cutting	F. Graft	709,539	Sept. 23	3008	670	100	2646
Meat. Making a preparation for preserving	E. Markovits and F. Guthmann	711,990	Oct. 28	3102	242	101	694
Meat. &c. Means for extracting juice from raw	H. Bremer	692,823	Feb. 11	1076	24	98	1044
Meat needle and larder	T. H. Means	711,578	Oct. 21	2270	492	101	502
Meat-pounder	M. Peters. (Reissue)	12,045	Oct. 21	2966	653	101	648
Meat. Preserving	H. von Rom	699,979	May 13	1660	99	1530	
Meat-reducing device	H. C. Chambers	709,697	Sept. 23	3276	733	100	2701
Meat-salting machine	B. Hiller	713,218	Nov. 11	1429	323	101	1207
Meat-smoking apparatus	C. H. Evers and C. R. Hildebrandt	712,662	Nov. 4	374	87	101	976
Meat-tenderer	E. Stone	690,538	Jan. 7	318	64	98	69
Meat-tenderer	R. Stone	698,074	Apr. 22	3137	691	99	715
Meat-tenderer	P. E. Tarleton	714,062	Nov. 18	3107	686	101	1572
Meat-tenderer	F. M. Robinson	715,695	Dec. 9	1970	441	101	2256
Meat tenderer and seasoner	C. G. Childers	717,077	Dec. 30	4833	1047	101	2920
Mechanical brake	E. P. Coleman and S. E. Hitt	710,758	Oct. 7	690	146	101	141
Mechanical friction-brake	E. P. Coleman and S. E. Hitt	710,759	Oct. 7	693	146	101	142
Mechanical motor	R. K. McLellan	709,644	Sept. 23	3179	710	100	2681
Mechanical motor	H. S. Durand	709,668	Sept. 23	3225	719	100	2691
Mechanical motor	J. Cardiff	712,359	Oct. 28	3755	821	101	825
Mechanical movement	E. A. Mainguet	691,644	Jan. 21	2410	542	98	536
Mechanical movement	C. Stone	692,379	Feb. 4	282	59	98	857
Mechanical movement	H. McCormack	692,696	Feb. 4	851	138	98	973
Mechanical movement	C. Dietz	692,993	Feb. 11	1435	312	98	1120
Mechanical movement	F. McKean	697,100	Apr. 8	1364	303	99	310
Mechanical movement	E. Horton	697,342	Apr. 8	1774	307	99	397
Mechanical movement	J. W. Sharrard and T. W. Lloyd	699,823	May 13	1342	312	99	1465
Mechanical movement	F. W. Jaeger	700,202	May 20	2119	485	99	1645
Mechanical movement	A. H. Ray	701,088	May 27	3838	881	99	2017
Mechanical movement	J. D. A. Johnson	702,099	June 10	1481	334	99	2430
Mechanical movement	B. Ivor	702,652	June 17	2501	573	99	2061
Mechanical movement	H. H. Fefel	703,396	July 1	61	11, 12	100	15
Mechanical movement	J. and C. Quist	703,825	July 1	894	183	100	167
Mechanical movement	A. Wahle	705,493	July 22	4138	904	100	889
Mechanical movement	T. J. Lockwood	707,705	Aug. 26	3282	734	100	1843
Mechanical movement	F. E. Herdman	711,663	Oct. 21	2436	535	101	537
Mechanical movement	H. Edmonds	712,276	Oct. 28	3612	789	101	794
Mechanical movement	F. J. Donoughe	712,366	Oct. 28	3764	824	101	826
Mechanical movement	D. H. Haywood	712,628	Nov. 4	123	30	101	923
Mechanical movement	L. D. Gibson	712,638	Dec. 16	2663	587	101	824
Mechanical movement	M. W. Hibbard	716,038	Dec. 16	3679	592	101	2437
Mechanical movement for nut-making or other machinery	O. C. Burdick and B. C. Candee	707,202	Aug. 19	2302	515	100	1624
Mechanical power	D. R. Myers	712,147	Oct. 28	3898	744	101	751
Medical appliance. Electromagnetic	F. H. Volery	713,365	Nov. 11	1757	395	101	1274
Medical battery	F. Greer	699,677	May 13	1058	247	99	1406
Medical cabinet	W. S. Bowley and L. B. Freeman	700,561	May 20	3826	649	99	1789
Medical electrical apparatus. Automatic	A. F. and J. C. Vetter	712,220	Oct. 28	3518	771	101	774
Medical electrode	G. G. Marshall	707,438	Aug. 19	2739	620	100	1714
Medicated tampon	E. M. Pond	706,778	Aug. 12	1515	336	100	1442
Medicating water. Tank for	C. W. Perkins	691,290	Jan. 14	1725	392	98	375
Medicinal vapor or liquid from the smoke of green wood. Apparatus for producing	H. E. Smith	713,515	Nov. 11	2053	459	101	1335
Medicine-administering apparatus	W. P. and E. H. King	705,251	July 22	3663	762	104	791
Medicine-applicator	B. A. Washburn	695,356	Mar. 11	1925	429	98	2133
Medicine-bottle dropping attachment	A. C. Bechtold	705,018	July 22	3167	684	100	692
Medicine-capsule	D. S. Kann	710,060	Sept. 30	3999	902	100	2364
Medicine-carrier	J. Schaffer	692,166	Jan. 28	3379	765	98	751
Medicine-dropper	W. F. Ware	703,101	June 24	3364	772	99	2533
Medicine-holder. Magnetic	L. G. Woolley	712,447	Oct. 28	3934	861	101	833
Melting-furnace	J. Essner and E. Laurans	692,435	Feb. 4	373	96	98	770
Melting-furnace	E. H. Schwartz	708,782	Sept. 9	1418	327	100	2283
Melting-furnace. Brass-founder's	A. J. and E. H. Weatherhead	691,213	Jan. 14	1570	357	98	342
Memorandum and indicating device	C. D. Weaver	701,236	May 27	4106	945	99	2073
Memorandum clip-board	R. B. Dickey	690,842	Jan. 7	905	202	98	192
Menthol. Chlorinated methyl-ether of	E. Wedekind	703,104	June 24	3368	765	99	2854
Menograph	W. H. Smyth and K. I. Faust	691,013	Jan. 14	1224	276	98	270
Mercantile-stock register	E. A. Weigley	715,444	Dec. 9	1502	326	101	2162
Mercerizing	W. Kleinfewers	698,026	Apr. 22	3051	671	99	697
Mercerizing apparatus	A. Römer	694,109	Feb. 25	3611	790	95	1602
Mercerizing apparatus	P. Hahn	711,623	Oct. 21	2358	515	101	520
Mercerizing-machine	M. Frings	704,531	July 15	2194	475	100	475
Merchandise. Structure for storage and delivery of	R. E. Leetham	699,690	May 13	1088	254	99	1412
Merchandise. System for distributing	R. O. Wickes	690,627	Jan. 7	500	108	98	107
Merchandise-transfer apparatus	A. W. Swanitz	701,961	June 10	1210	275	99	2377
Merchandise-transfer apparatus	A. W. Swanitz	715,435	Dec. 9	1488	321	101	2159
Merchandise-transfer apparatus	A. W. Swanitz	715,436	Dec. 9	1490	323	101	2159
Merry-go-round	W. F. Mangels	698,235	Feb. 11	2088	444	98	1243
Merry-go-round	B. Kippels	698,234	Apr. 22	3575	788	99	806
Merry-go-round	G. D. Bulmer	703,761	July 1	711	157	100	142
Merry-go-round	C. Loeff, Jr.	703,801	July 1	788	173	100	158



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Merry-go-round .....	G. W. Schofield .....	708,885	Sept. 9	1549	354	100	2310
Merry-go-round .....	E. Bollinger .....	709,462	Sept. 23	2833	1636	100	2609
Merry-go-round .....	J. Fromm .....	716,700	Dec. 23	3999	875	101	2717
Merry-go-round. Land, marine, or submarine .....	A. Davidson .....	710,043	Sept. 30	3967	895	100	2857
Merry-go-round, seesaw, and jogger-board attachment.	W. W. Curtright .....	707,555	Aug. 26	2968	671	100	1779
Message-box .....	A. F. Shriver .....	708,594	Sept. 9	1060	240	100	2207
Metal and making metallic hydrosols. Reducing.	H. S. Blackmore .....	717,328	Dec. 30	5305	---	101	3023
Metal and the manufacture thereof. Covered strip of soft .....	I. W. Heysinger .....	690,427	Jan. 7	77	17	98	19
Metal articles. Machine for finishing .....	H. H. Burns .....	699,613	May 6	918	1214	99	1365
Metal bars. Rosette for forming crossed joints for.	M. Mendel .....	690,598	Jan. 7	449	95, 96	98	96
Metal-bending machine .....	F. Ditchfield .....	709,753	Sept. 23	3389	1761	100	2723
Metal-bending machine .....	F. Ditchfield .....	709,754	Sept. 23	3390	761	100	2723
Metal-bending machine .....	W. W. Macfarren .....	713,894	Nov. 18	2771	616	101	1501
Metal-bending-machine guide .....	C. Weber .....	702,836	June 17	2842	654	99	2732
Metal-bending tool .....	J. J. Dolan and E. Estep .....	704,521	July 15	2175	471	100	472
Metal binding-strips. Machine for making .....	F. W. R. Yager .....	696,784	Apr. 1	740	1167	99	158
Metal blanks. Machine for forming, shaping, hardening, and tempering .....	E. E. Fay .....	691,253	Jan. 14	1646	376	98	359
Metal-boring machine .....	C. C. Roberts .....	707,016	Aug. 12	1936	433	100	1528
Metal can .....	F. P. McColl .....	703,445	July 1	138	31	100	30
Metal can .....	J. N. Bradley .....	706,296	Aug. 5	593	129	100	1235
Metal can or receptacle for packing soap, &c. .....	F. L. Bartelt .....	698,169	Apr. 22	3348	732	99	758
Metal cleaning and preserving composition .....	W. C. Oberwalder .....	716,956	July 29	5071	---	101	1086
Metal-cleaning composition .....	E. E. Brown .....	697,373	Apr. 22	2957	---	99	678
Metal. Covering textile porous material with .....	J. A. Daly .....	694,946	Mar. 11	1170	---	98	1978
Metal-crimping machine .....	G. Cunin .....	706,030	Aug. 5	51	11, 12	100	1128
Metal-crimping machine .....	H. B. Irvin .....	711,631	Oct. 21	2370	520	101	523
Metal cutting, coping, and upsetting machine. Combined shape .....	D. Hammond .....	700,419	May 20	2563	587	99	1733
Metal cutting, punching, and shaping machine .....	F. Bowen .....	691,234	Jan. 14	1607	367	98	350
Metal-cutting roll. Expanded .....	O. Bradford .....	711,416	Oct. 14	1948	424	101	420
Metal-cutting tool .....	C. McRorie and D. J. Hunter .....	705,695	July 29	4606	999	100	992
Metal-cutting-tool holder .....	F. W. Taylor and S. Newbold .....	709,526	Sept. 23	2990	666	100	2643
Metal cylinders, &c. Manufacture of welded plate.	T. F. Rowland .....	694,994	Mar. 11	1262	276	98	1997
Metal-drawing apparatus .....	E. W. Vaughan .....	714,763	Dec. 2	222	44, 45	101	1882
Metal-dressing machine .....	F. P. Stiker and O. C. Burton .....	707,372	Aug. 19	2420	542	100	1648
Metal-dressing-machine carrier .....	F. P. Stiker and O. C. Burton .....	711,648	Oct. 21	2998	528	101	528
Metal-dressing-machine chute .....	F. P. Stiker and O. C. Burton .....	711,237	Oct. 14	1627	350	101	353
Metal-dressing machines. Slide for .....	F. P. Stiker and O. C. Burton .....	707,373	Aug. 19	2435	516	100	1652
Metal-finishing machine. Strip .....	C. O. Webster .....	716,322	Dec. 16	3235	707	101	2542
Metal-foil fabric .....	H. L. Parker .....	706,100	Aug. 5	182	38	100	1154
Metal for electrical or other purposes. Means and appliances for the manufacture of covered strips of soft .....	I. W. Heysinger .....	706,053	Aug. 5	99	21, 22	100	1137
Metal-forming machine .....	H. W. Forslund .....	715,046	Dec. 2	768	1163	101	1991
Metal-founding .....	J. Gilson .....	696,035	Mar. 25	3177	717	98	2423
Metal from receptacles. Drawing molten .....	L. Lincoln .....	697,638	Apr. 15	2343	523	99	528
Metal gate .....	W. B. Cantrell .....	700,737	May 27	3183	726	99	1881
Metal grinding and polishing apparatus .....	L. C. Forwood .....	716,403	Dec. 23	3417	745	101	2594
Metal into molds. Apparatus for pouring .....	J. V. Coleman .....	691,244	Jan. 14	1625	371	98	354
Metal. Machine for cutting beveled edges on plate or sheet .....	P. Parcells .....	703,213	June 24	3579	822	99	2895
Metal. Making leaf .....	F. Haenle .....	699,920	May 13	1546	---	99	1508
Metal ornamentation .....	T. Häussermann .....	712,789	Nov. 4	607	140	101	1023
Metal parts. Heating .....	R. Deissler. (Reissue) .....	12,003	June 24	3850	---	99	2955
Metal-piercing machinery for making hollow bodies.	B. F. McTear .....	705,780	July 29	4757	1030	100	1022
Metal pigs from their molds. Means for ejecting .....	E. E. Slick .....	691,977	Jan. 28	3042	684	98	683
Metal-planer tool-relief .....	A. L. De Leeuw .....	713,614	Nov. 18	2248	500	101	1390
Metal-plate lifting device .....	E. B. Clark, 2nd .....	710,041	Sept. 30	3963	894	100	2857
Metal plate. Treating .....	J. Howell and S. J. Drew .....	713,440	Nov. 11	1878	425	101	1299
Metal plates or packs. Feeding and heating .....	T. V. Allis .....	699,182	May 6	12	3	99	1179
Metal-pots. Self-feeding mechanism for .....	J. Place and W. J. Lewis .....	697,011	Apr. 8	1204	1269	99	274
Metal receptacles. Apparatus for shaping .....	M. L. Deering .....	701,549	June 3	480	107	99	2207
Metal receptacles. Shaping .....	M. L. Deering .....	701,550	June 3	488	108	99	2210
Metal rod or bar conveyor .....	J. R. George .....	716,999	Dec. 30	4692	1017	101	2800
Metal rods or bars. Conveyor for .....	V. E. Edwards .....	701,024	May 27	3737	856	99	1996
Metal-sawing apparatus .....	C. O. Morgan .....	703,946	July 1	1050	228	100	310
Metal-shearing machine .....	C. Clark .....	703,041	June 24	3243	746	99	2829
Metal-shearing-machine frame .....	B. Wesselmann .....	710,310	Sept. 30	4473	1009	100	2965
Metal-shears .....	I. Morris .....	711,435	Oct. 14	1986	430	101	428
Metal sheet-piling .....	G. W. Jackson .....	697,943	Apr. 15	2893	688	99	645
Metal sheets in packs. Compound for use in reducing .....	T. V. Allis .....	704,355	July 8	1718	---	100	361
Metal sheets or strips. Apparatus for separating packs of .....	J. H. Swindell .....	712,617	Nov. 4	297	70	101	961
Metal sheets. Producing .....	T. V. Allis .....	704,387	July 8	1722	375	100	362

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. K.	Vol.	Page.
Metal shell-band and cap.	J. Jr. and L. S. Mardock	698,537	Apr. 29	3999	284	99	909
Metal-strip-folding machine.	E. M. Cobb	713,062	Nov. 11	1128	259	101	1144
Metal strips. &c. Gripping mechanism for feeding.	W. Fehr	699,508	May 6	715	167	99	1324
Metal surfaces. Producing designs or delineations on.	R. F. Bartle and A. B. Hoen	702,693	June 17	2575	598	99	2676
Metal surfaces. &c. Tool for finishing.	I. Ritter, Jr.	700,825	May 27	3359	772	99	1918
Metal to molds. Apparatus for supplying molten.	C. C. Webster	716,320	Dec. 16	3231	706	101	2541
Metal to molds. Apparatus for supplying molten.	C. C. Webster	716,321	Dec. 16	3233	707	101	2542
Metal. Treating.	G. C. Carlson	714,450	Nov. 25	3863	833	101	1743
Metal-treating apparatus.	G. C. Carlson	694,348	Mar. 4	15	4	98	1716
Metal. Treating scrap.	J. M. O'Connor	715,211	Dec. 2	1073	.....	101	2057
Metal tubes. Making.	E. Emerson	695,635	Mar. 18	2444	553	98	2252
Metal upon another. Impacting one.	S. H. Thurston	706,701	Aug. 12	1346	300	100	1407
Metal wheel.	W. H. Schofield	697,850	Apr. 15	2904	641	99	617
Metal wheel.	E. Einfeldt	703,697	July 1	602	133	100	119
Metal wheel.	W. P. Bettendorf	712,484	Nov. 4	38	11	101	905
Metal wheels. Machine for making.	E. Einfeldt	700,025	May 13	1729	399	99	1544
Metal wheels. Making.	E. Einfeldt	700,024	May 13	1727	397	99	1543
Metal wheels. Making.	J. C. Steward	714,253	Nov. 25	3498	770	101	1671
Metal-working apparatus. Electric.	G. D. Burton	696,004	Mar. 25	3100	702	98	2407
Metal-working machine.	W. M. Roberts	697,887	Apr. 15	2794	618	99	626
Metal-working-machine feed mechanism.	B. M. W. Hanson	711,851	Oct. 21	2788	619	101	611
Metal-working-machine feed mechanism.	B. M. W. Hanson	711,852	Oct. 21	2796	620	101	614
Metal-working-machine feeding device.	T. S. Haley	700,325	May 20	2384	543	99	1697
Metal-working tool.	A. Tindel	707,035	Aug. 12	1970	442	100	1335
Metals and alloys. Treating metallic oxides in the production of.	F. C. Weber	705,727	July 29	4664	1011	100	1903
Metals and producing alloys thereof. Reducing.	H. S. Blackmore	699,282	May 6	286	.....	99	1233
Metals by electrolysis. Apparatus for obtaining.	G. Taddei	715,626	Dec. 9	1843	410	101	2220
Metals by electrolysis. Recovering.	H. A. Frasch	697,831	Apr. 15	2686	597	99	602
Metals. Compound for cleaning and soldering.	J. H. Young	712,230	Oct. 28	3539	.....	101	780
Metals. Electrically pulverizing.	P. Barry	700,399	May 30	2528	579	99	1726
Metals from complex or sulfid ores. Extracting.	G. C. Clancy and L. W. Marsland	713,024	Dec. 2	734	155	101	1884
Metals from mixtures of metals. Eliminating.	J. H. Clamer	707,551	Aug. 26	2961	.....	100	1777
Metals from ore. &c. Extraction of.	B. Hunt	699,108	Apr. 29	5128	.....	99	1153
Metals from ores and scrap containing same. Extracting.	S. S. Sadtler	700,563	May 20	2829	650	99	1790
Metals from ores. Apparatus for extracting.	J. Randall	708,494	Sept. 2	892	262	100	2162
Metals from ores. Recovering.	J. W. Neill and J. H. Burfeind	702,582	June 17	2368	541	99	2633
Metals from solutions containing same. Apparatus for separating.	S. T. Muffly	714,598	Nov. 25	4126	913	101	1797
Metals from solutions containing same. Precipitating.	S. T. Muffly	714,599	Nov. 25	4128	913	101	1798
Metals from sulfid ores by treatment with chlorid or sulfur and electrolysis. Extraction of.	J. Swinburne and E. A. Ashcroft	691,822	Jan. 28	2772	624	98	628
Metals from sulfid ores. Extracting.	J. Swinburne and E. A. Ashcroft	695,126	Mar. 11	1522	637	98	2049
Metals from their ores. Apparatus for separating.	W. A. R. Loose	708,567	Sept. 9	1012	229	100	2197
Metals from their ores, &c., in electrically-heated furnaces. Reduction of.	R. C. Contardo	705,651	July 29	4515	980	100	974
Metals from their ores. Leaching and extraction of.	C. Hoepfner	704,639	July 15	2472	.....	100	511
Metals from their ores. Obtaining.	N. S. Keith	714,914	Dec. 2	557	119	101	1947
Metals from their ores. Reducing.	M. Ruthenburg	711,738	Oct. 21	2535	567	101	570
Metals from their oxid ores. Extracting.	J. Rudolphs and J. Landin	698,739	Apr. 29	4448	.....	99	1007
Metals. Fusion of.	H. A. E. Menne	708,940	July 1	1099	225	100	207
Metals. Grinding or polishing.	J. Miskolczy	698,126	Apr. 22	3266	715	99	741
Metals. Hardening.	M. J. R. Greenman	710,452	Oct. 7	99	.....	101	22
Metals. Hardening.	J. Dejeu	712,365	Oct. 28	3763	824	101	826
Metals in a finely-divided state. Producing.	E. Pohl	706,475	Aug. 5	951	207	100	1308
Metals. Melting and treating.	E. H. Schwartz	708,783	Sept. 9	1422	327	100	2284
Metals. Method of and apparatus for electrodeposition of.	C. J. Reed	712,133	Oct. 28	3407	746	101	753
Metals on metallic surfaces and the products thereof. Depositing.	S. Cowper-Coles	701,298	June 3	33	.....	99	2115
Metals. Preventing oxidation of molten.	J. H. Walker	698,769	Apr. 29	4496	993	99	1018
Metals. Producing.	G. H. Clamer	696,092	Mar. 25	3277	787	98	2443
Metals. Recovering.	E. D. Kendall	698,292	Apr. 22	3570	805	99	805
Metals. Refining composite.	T. Ulke	694,699	Mar. 4	667	.....	98	1859
Metals. Treating copper or other ores for obtaining their contents of.	N. S. Keith	700,941	May 27	3573	822	99	1961
Metallic hoop for vessels.	J. R. Bostwick	711,694	Oct. 21	2498	548	101	551
Metallic particles from paper, &c. Burning.	G. H. Davis	692,834	Feb. 11	1067	246	98	1049
Metallic particles from strips or webs. Apparatus for removing.	G. H. Davis	692,989	Feb. 11	1429	319	98	1118
Metallic strap.	E. H. Vogel	705,626	July 29	4479	971	100	966
Metallic sulfids soluble. Rendering.	G. C. Collins	702,047	June 10	1378	.....	99	2408
Metallic tie.	W. W. Fike	709,850	Sept. 23	3572	805	100	2763
Metallic tie and rail-clamp. Combined.	W. M. Gilpin	694,737	Mar. 4	774	172	98	1875
Metallic tie and rail-fastener.	M. Berringer	694,716	Mar. 4	726	161	98	1865
Metallic tie and rail-fastener.	J. Brookes	695,192	Mar. 11	1631	362	98	1974
Metallic tie and rail-fastener.	E. E. Myers	696,382	Apr. 1	839	81	99	75
Metallic tie and rail-fastener.	B. R. and H. P. Cronk	696,720	Apr. 1	621	139	99	134
Metallic tie and rail-fastener.	A. Scholer	705,617	July 29	4465	968	100	964
Metallic tie and rail-fastener.	G. T. Abel	711,751	Oct. 21	2613	574	101	575
Metallic tie and rail-joint.	J. F. Cleary	705,563	July 29	4364	945	100	945
Metallic tie and rail-joint combined.	C. A. Frye	701,194	May 27	4087	928	99	2060
Metallic tube. Flexible.	C. Rudolph	714,352	Nov. 25	3649	804	101	1701



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Metallic tube without joints. Flexible.	C. Rudolph.	712,418	Oct. 28	3868	847	101	852
Metallic wheel.	G. H. Emerson.	697,079	Apr. 8	1385	296	99	302
Metallic yarn and textile fabric.	L. Harmel.	700,915	May 27	3528	809	99	1951
Metallurgical furnace and precipitating water-tank.	G. Bryan.	711,281	Oct. 14	1704	368	101	368
Combined							
Metallurgical filter.	F. H. Long.	702,064	June 10	1429	321	99	2420
Metallurgical furnace.	J. A. Hunter.	699,750	May 13	1216	283	99	1437
Metallurgical furnace.	P. Meehan.	711,062	Oct. 14	1272	276	101	277
Metallurgical process.	E. G. Acheson.	693,482	Feb. 18	2400		98	1340
Metallurgical product or alloy.	J. Stevenson, Jr.	714,618	Nov. 25	4175		101	1806
Meter:							
See Ampere-hour meter. Fluid-meter.							
Current-meter. Gas-meter.							
Current-meter. Liquid-meter.							
ter. Motor-meter.							
Diaphragm-meter. Water-meter.							
Electric meter. Watt meter.							
Electricity-meter.							
Meter-box connection.	J. J. Hoppes.	699,174	May 6	83	22	99	1193
Meters. Means for preventing creeping of.	A. D. Lunt.	696,459	Apr. 8	117	24	99	20
Metering apparatus. Multirate.	E. Oxley.	710,070	Sept. 30	407	907	100	2868
Metering. Multirate.	E. Oxley.	717,262	Dec. 30	5198	1129	101	2999
Metering system. Multirate.	A. D. Lunt.	706,575	Aug. 12	1119	247	100	1357
Mica-board-making machine.	H. F. Watson.	697,696	Apr. 15	2451	546	99	549
Mica chimney.	A. P. Storrs.	700,991	May 27	3653	839	99	1976
Micrometer.	C. J. Banks.	706,148	Aug. 5	285	60	100	1175
Micrometer-gage.	J. Stromberg.	694,804	Mar. 4	901	200	98	1902
Micrometer-gage.	R. J. Simpson.	706,696	Aug. 12	1342	298	100	1406
Micrometer-gage.	A. Rieffel.	716,279	Dec. 16	3155	691	101	2526
Microphone for high-tension currents.	R. Gaillard and E. Ducretet.	712,056	Oct. 28	3235	708	101	719
Microscope.	C. F. Dieckmann.	712,409	May 20	2545	588	99	1729
Microscope-stage. Mechanical.	C. F. Dieckmann.	703,047	June 24	3256	748	99	2331
Microtome-knife.	E. Bausch.	708,398	Sept. 2	558	127	100	2035
Middlings-purifier.	A. S. Craik.	697,451	Apr. 15	2010	444	99	462
Mileage or percentage sheet or chart for public carriers.	F. H. Jones.	712,544	Nov. 4	162	38, 39	101	931
Milk. Aerating and preserving.	R. G. Nash.	714,510	Nov. 25	3964	878	101	1762
Milk-albumen. Producing oxidized.	H. Oppermann.	704,662	July 15	2409		100	530
Milk-albumen. Producing soluble.	H. V. Dunham.	702,093	Sept. 10	1836		100	2497
Milk and cream. Acid-mixer for facilitating the testing of.	M. D. Beach.	709,461	Sept. 23	2831	696	100	2608
Milk and cream during the process of separation.	A. B. Borgström.	699,782	May 13	1263	293	99	1447
Means for ventilating.							
Milk and obtaining same. Modified.	E. von Dungern.	700,631	May 20	2951		99	1816
Milk-can.	C. H. Bagley.	691,093	Jan. 14	1359	308	98	298
Milk-can.	C. J. Nordin.	692,066	Jan. 28	3213	725	98	717
Milk-can.	G. Rothenhauser.	692,548	Feb. 4	588	138	98	918
Milk-can.	E. C. Seaman.	697,553	Apr. 15	2183	485	99	496
Milk-can.	O. N. Ahlberg.	700,596	May 20	2883	662	99	1800
Milk-can.	C. M. Hopkins and E. H. Dorn.	705,404	July 22	3991	864	100	857
Milk-can.	H. S. Reynolds.	707,011	Aug. 12	1928	431	100	1526
Milk-can.	E. H. Carswell.	712,993	Nov. 4	380	232	101	1098
Milk-cooler.	W. C. Black.	699,097	Apr. 20	5108	1120	99	1149
Milk-cooler.	W. L. Haley.	702,134	June 10	1534	346	99	2442
Milk-cooler.	W. S. Daniel and W. O. Shackelford.	714,459	Nov. 25	3879	856	101	1747
Milk-cooler.	A. H. Reid.	715,604	Dec. 9	1808	401	101	2222
Milk-cooler and aerator.	F. M. Reynolds.	695,171	Mar. 11	1695	356	98	2068
Milk extracts. Making.	O. Eberhard.	712,274	Oct. 28	3610		101	794
Milk heater.	F. D. Talcott.	712,945	Oct. 28	3733	817	101	820
Milk in dry form. Preserving.	J. A. Just.	712,545	Nov. 4	184	39	101	932
Milk jar or bottle.	H. C. Enrich.	703,125	June 24	3410	782	99	2863
Milk-jar protector.	F. S. Twombly.	712,446	Oct. 28	3933	860	101	863
Milk-modifying gage.	J. A. Mitchell.	696,834	Apr. 1	828	190	99	175
Milk or cream cooling apparatus.	E. G. N. Salenius.	716,112	Dec. 16	2841	625	101	2465
Milk paste-urizer and sterilizer.	C. E. Huggan.	705,245	July 22	3652	790	100	789
Milk. Preserving.	W. H. Birchmore.	713,841	Nov. 18	2656	592	101	1475
Milk. Producing dry condensed.	W. A. Hall.	694,100	Feb. 25	3359		98	1600
Milk-receptacle lock.	F. Muller.	700,358	May 20	2442	557	99	1710
Milk-warmer and night-lamp. Nursery.	J. M. Fisk.	697,825	Apr. 15	2678	595	99	600
Milker. Cow.	A. A. and H. A. Ewald.	693,850	Feb. 25	3106	687	98	1502
Milker. Cow.	F. M. Devore.	700,749	May 27	3223	738	99	1890
Milker. Cow.	D. Y. Wilson.	702,386	June 10	1976	451	99	2531
Milker. Cow.	F. A. West.	710,384	Sept. 30	4605	1089	100	2992
Milker. Cow.	E. A. Nugent.	712,326	Oct. 28	3699	808	101	813
Milking apparatus.	S. Henry.	712,529	Nov. 4	128	30	101	925
Milking-machine.	J. C. Matthews.	712,563	Nov. 4	201	47	101	939
Milking-shield.	H. H. Kagey.	709,774	Sept. 23	3438	773	100	2733
Milk.							
See Band-mill.	Grit-mill.						
Bronze-mill.	Pulverizing-mill.						
Centrifugal mill.	Ratting-mill.						
Chilian mill.	Roller-mill.						
Crushing-mill.	Rolling-mill.						
Curd-mill.	Sawmill.						
Fanning-mill.	Stamping-mill.						
Flour-mill.	Windmill.						
Grinding-mill.							
Mill.	W. E. Copenhaver.	692,243	Feb. 4	47	10	98	508
Mill.	A. Thirion.	707,805	Aug. 26	3522	794	100	1800
Mill-power. Automatic cut-off for.	B. Strittmatter.	694,803	Mar. 4	900	200	98	1902

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Mill speeding attachment	J. W. Cushing	693,642	Feb. 18	2714	599	98	1404
Mills. Bur for	J. Jorgensen	705,410	July 22	4008	867	100	861
Mills. Skid-arm for double-cutting band	E. E. Thomas	689,120	Apr. 29	5150	1140	99	1157
Milling-cutter	B. M. W. Hanson	703,577	July 1	361	83	100	72
					309		
Milling-machine	G. W. Smith and E. J. Lees	704,134	July 8	1445	310	100	304
					311		
					312		
Milling-machine cutter	J. F. Cadell	700,736	May 27	3181	725	99	1881
Milling-machine feed mechanism	W. R. Fox and M. Lund	707,095	Aug. 19	2092	467	100	1577
Millstones. Grooving	J. Schweitzer	706,259	Aug. 5	494	106	100	1216
Mine-cage chair	J. O. Bardill	699,135	May 6	16	4, 5	99	1179
Mine-exploder. Electric	W. Norres	707,626	Aug. 26	3110	700	100	1808
Mine-gate	N. K. Bowman	695,858	Mar. 18	2833	648	98	2338
					644		
					744		
Mine-timber	D. W. Brunton	692,111	Jan. 28	3289	745	98	732
Mine trap-door	J. Wack	713,181	Nov. 11	1364	306	101	1193
					307		
Mine turn-table	W. L. Eppers and J. Hamilton	710,351	Oct. 7	869	188	101	176
					189		
Mine-ventilating apparatus	C. Kuderer	713,457	Nov. 11	1907	431	101	1305
Mine-ventilator	P. T. Reynolds	703,831	July 1	841	185	100	169
Mines. Brake for uphauls for	C. L. E. Schenk	699,024	Apr. 29	1989	1104	99	1124
Mines. Car-dump for elevators in	J. Moses	692,888	Feb. 11	1221	270	98	1076
Mines. Downhaul for	C. L. E. Schenk	699,022	Apr. 29	4987	1103	99	1124
Mines. Downhaul for	C. L. E. Schenk	699,023	Apr. 29	4989	1104	99	1124
Mines. Electric apparatus for exploding	S. Evershed	694,914	Mar. 4	1107	244	98	1946
Mines. Machine for extracting coal in pieces from	C. Wissemann	701,579	June 10	1548	284	99	2383
Mines, &c. Raising or lowering apparatus for	D. Davy	695,287	Mar. 11	1821	404	98	2111
					405		
Mines. Self-closing door for	F. Günther	698,275	Apr. 22	3547	781	99	800
Miner's hoisting-hook	C. F. Pohlman	712,959	Nov. 4	938	218	101	1089
Miner's safety loading-tool	A. V. Des Moines	692,637	Feb. 4	740	171	98	951
Miner's squib	F. H. and E. Gross	693,964	Feb. 25	3323	93	98	1081
Miner's tool. Combination	M. Hardegg	705,987	July 29	5138	1120	100	1100
Mining-car cage	W. Towers	714,262	Nov. 25	3519	774	101	1675
Mining-elevator	H. W. Davis	694,002	Feb. 25	3420	753	98	1564
Mining-machine	M. B. Wyile	700,466	May 20	2651	607	99	1752
					608		
Mining-machine	H. B. Dierdorff	700,628	May 20	2946	677	99	1815
Mining-machine	J. M. McHugh	702,147	June 10	1554	333	99	2446
Mining-machine	R. E. Noble	711,643	Oct. 21	2391	525	101	527
Mining machine. Coal	J. Burton and W. B. Lodwick	699,864	May 13	1430	330	99	1483
Mining machine. Coal	W. S. Bogle	716,181	Dec. 16	2986	652	101	2492
					653		
Mining-machine truck	A. Palmros	702,817	June 17	2809	646	99	2725
Mineral compound	V. A. F. R. D.	703,516	July 1	255	100	100	51
Mineral substances by heat and pressure. Treating	V. Karavodine	712,807	Nov. 4	147	149	99	1030
Minerals by selective action of oils. Apparatus for separating	A. S. Elmore	692,643	Feb. 4	748	173	98	933
Minerals by the selective action of oils, &c. Apparatus for the separation of	A. S. Elmore	708,905	July 1	982	214	100	196
Mirror	O. Jackson	713,643	Nov. 18	3295	511	101	1399
Mirror. Adjustable	M. H. Moss	707,151	Aug. 19	2822	938	100	1615
Mirror-adjuster	J. J. Banks	704,497	July 15	2121	459	100	459
Mirror. Bicycle	P. A. Aurness	702,763	June 17	2709	622	99	2704
Mirror-bracket	S. Svendsgaard	699,901	May 13	1513	348	99	1502
Mirror-frame	P. N. Staff	693,077	Feb. 11	1584	345	98	1151
Mirror-frames, &c. Adjustable standard for	J. Lowenthal	707,707	Aug. 26	3285	735	100	1844
Mirror-hanging	J. G. Allen	710,235	Sept. 30	4351	978	100	2939
Mirror. Mouth	W. E. Knight	695,140	Feb. 11	1220	376	98	1173
Mirror-support	M. V. Dunham	715,088	Dec. 2	755	160	101	1989
Mirror-support. Folding	B. C. Lyon	708,239	Sept. 2	449	102	100	2073
Mirror. Toilet	E. M. Gover	714,297	Nov. 25	3597	791	101	1691
Miter-box	J. M. Kelly	692,302	Feb. 4	147	34	98	828
Miter-box	R. H. Dorn	697,203	Apr. 8	1541	345	99	347
Miter-box	F. E. Abbott and B. H. Randel	709,251	Sept. 16	2396	542	100	2505
Miter-box	G. M. Green	713,213	Nov. 11	1420	321	101	1205
Miter-box	M. D. Converse	716,384	Dec. 23	3350	738	101	2586
Miter-box	M. D. Converse	716,522	Dec. 23	3657	798	101	2644
Miter-machine	W. J. Parsons	694,323	Feb. 25	4072	906	98	1688
Mitering and tool-guiding device	J. M. J. Phelan	704,919	July 15	2932	629	100	631
					630		
Mitering-machine	J. T. Zika	702,043	June 10	1366	311	99	2405
Mitering-machine	J. L. Tyler	707,734	Aug. 26	3336	747	100	1854
Mitering-machine	J. Locke	710,479	Oct. 7	146	34	101	32
Mittrailleuse. Fork-pivot for	J. T. S. Schouboe	700,885	May 27	3382	776	99	1922
Mitten	W. L. Pollard	694,188	Feb. 25	3771	833	98	1634
					834		
Mitten	F. Bertheau	699,137	May 6	21	6	99	1180
Mitten	C. C. Pratt	701,931	June 10	1154	265	99	2365
Mitten	C. J. Breda	704,503	July 15	2135	462	100	462
Mitten	R. B. McMasters	709,350	Sept. 16	2579	582	100	2544
Mixer:							
See Air and gas mixer.	Dough-mixer.						
Clay-mixer.	Gas and air mixer.						
Concrete-mixer.	Rotary mixer.						
Mixer and kneader	L. Cohnhoff	691,115	Jan. 14	1393	316	98	304
					317		
Mixers, &c. Hopper-bottom for	C. T. Drake	698,182	Apr. 22	3368	737	99	762
Mixing and kneading machine	A. Friedrich	713,088	Nov. 11	1181	270	101	1156
					271		



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Mixing-glass. Bar.....	H. Morgan.....	699,792	Feb. 18	2880	634	98	1438
Mixing-machine.....	T. L. Smith.....	690,783	Jan. 7	805	178	98	170
Mixing-machine.....	E. Ruttkamp.....	707,261	Aug. 10	2400	539	100	1643
Mixing-machine.....	J. H. Elward.....	707,404	Aug. 19	2677	604	100	1701
Mixing-machine vehicles, &c. Drawing mechanism for.....	C. T. Drake.....	699,667	May 13	1035	1241	99	1402
Mixing-machines, &c. Conveyor attachment for.....	C. T. Drake.....	698,910	Apr. 29	4806	1069	99	1087
Mixing-machines, &c. Conveyor for.....	C. T. Drake.....	701,312	June 8	55	11, 12	90	2120
Mixing or spraying device.....	C. C. and E. A. Riotte.....	696,146	Mar. 25	3424	769	98	2475
Mixing-tank.....	J. F. Lybrink.....	714,315	Nov. 25	3622	798	101	1696
Modeling and decorating apparatus.....	M. B. Church.....	710,842	Oct. 7	853	1185	101	174
Moistener.....	L. S. Duncan.....	703,771	July 1	728	161	100	146
Moistener and affixer. Stamp.....	J. F. Amann.....	701,243	May 27	4119	1947	99	2475
Moistener and sealer. Envelop.....	F. A. Jones.....	705,531	July 22	4274	924	100	913
Moistener. Envelop.....	N. Schwab.....	697,548	Apr. 15	2171	482	99	493
Moistener. Envelop and stamp.....	G. M. Williams.....	701,441	June 3	281	62	99	2166
Moistener. Stamp and envelop.....	C. W. Millar.....	701,911	June 10	1127	257	99	2350
Moistening and applying gummed paper. Device for.....	A. Hoffmann.....	691,379	Jan. 21	1935	435	98	437
Moistening and closing envelops, &c. Apparatus for.....	J. R. Turner.....	714,624	Nov. 25	4185	1925	101	1808
Moistening device.....	H. M. Cloude.....	716,191	Dec. 16	3009	657	101	2497
Moistening-machine.....	P. C. Crawford.....	704,779	July 15	2617	567	100	561
Mold:							
See Brick-mold. Jeweler's mold.							
Bullet-mold. Post or pole mold.							
Butter-mold. Press-mold.							
Button-mold. Soap-mold.							
Casting-mold. Sugar-mold.							
Cigar-mold. Tank-mold.							
Croquette-mold. Tire-curing mold.							
Curb-mold. Tooth-mold.							
Ingot-mold. Type-mold.							
Mold.....	O. Nolan.....	710,881	Oct. 7	914	1198	101	186
Mold.....	E. Strauch.....	712,211	Oct. 28	3503	768	101	771
Mold.....	W. F. J. Lutz.....	714,385	Nov. 25	3743	826	101	1720
Mold.....	A. A. Clark.....	714,560	Nov. 25	4058	898	101	1788
Mold and core making apparatus.....	H. C. Lambert.....	697,635	Apr. 15	2334	1521	99	527
Mold-cutter.....	W. H. Ford.....	713,000	Nov. 4	1001	235	101	1100
Mold-flask partition.....	H. W. Bell.....	701,830	June 10	973	917	99	2328
Mold flask. Sand.....	R. C. Tolmie.....	701,105	May 27	3872	889	99	2025
Mold for hollow concrete articles.....	W. W. Reeves.....	705,789	July 29	4772	1035	100	1026
Mold-forming apparatus. Sand.....	S. J. Adams.....	704,951	July 15	3013	648	100	646
Mold-making machine. Sand.....	H. E. Pridmore.....	693,441	Feb. 18	2311	507	98	1321
Mold mechanism.....	C. H. Veeder.....	698,592	Apr. 29	4103	1906	99	931
Mold mechanism.....	C. H. Veeder.....	698,594	Apr. 29	4117	1907	99	933
Mold mechanism.....	C. H. Veeder.....	698,595	Apr. 29	4119	1907	99	934
Mold opening or closing device.....	W. F. Koepfen.....	708,814	Sept. 9	1507	345	100	2301
Molds. Chaplet for supporting cores in.....	W. A. Bole.....	702,620	June 17	2439	556	99	2647
Molds. Forming sand.....	S. J. Adams.....	697,387	Apr. 8	1870	418	99	418
Molds. Forming sand.....	S. J. Adams.....	697,388	Apr. 8	1874	418	99	418
Molds. Forming sand.....	S. J. Adams.....	704,952	July 15	3022	649	100	648
Molders' chaplets. Apparatus for the manufacture of.....	R. B. Haskins.....	709,541	Sept. 23	3011	671	100	2647
Molder's flask.....	F. Lips.....	714,207	Nov. 25	3414	752	101	1654
Molding.....	F. Baldt, Sr.....	703,169	June 24	3497	917	99	2878
Molding.....	F. Baldt, Sr.....	703,172	June 21	3500	917	99	2879
Molding and compressing machine.....	A. Sendlein.....	711,883	Oct. 21	2864	1633	101	628
Molding apparatus.....	C. R. Davis.....	696,551	Apr. 1	286	67	99	65
Molding apparatus.....	C. M. Day.....	697,134	Apr. 8	1417	316	99	322
Molding apparatus.....	W. E. McCleary.....	697,948	Apr. 15	2901	640	99	646
Molding apparatus.....	W. C. Wright.....	703,034	June 24	3231	743	99	2827
Molding apparatus.....	J. C. Reed.....	703,740	July 1	672	150	100	135
Molding apparatus.....	J. C. Reed.....	715,293	Dec. 9	1231	263	101	2107
Molding apparatus. Sand.....	S. J. Adams.....	697,385	Apr. 8	1861	417	99	417
Molding apparatus. Sand.....	S. J. Adams.....	697,386	Apr. 8	1867	418	99	418
Molding-apparatus sprue.....	C. R. Davis.....	695,543	Mar. 18	2260	511	98	2221
Molding-board.....	O. C. Sweet.....	698,077	Apr. 22	3144	632	99	717
Molding-flask.....	J. Mills.....	710,331	Sept. 30	4512	1017	100	2673
Molding-machine.....	B. C. White.....	695,773	Mar. 18	2666	606	98	2304
Molding-machine.....	J. Stuart.....	701,772	June 3	880	195	99	2202
Molding-machine.....	J. Hoagland.....	703,258	June 24	3651	899	99	2011
Molding-machine.....	B. A. Franklin.....	703,647	July 1	496	112	100	97
Molding-machine.....	W. M. Duncan.....	704,712	July 15	2493	539	100	537
Molding-machine.....	J. R. Thomas.....	706,130	Aug. 5	238	49, 50	100	1167
Molding-machine.....	J. N. Battenfeld.....	706,487	Aug. 5	970	213	100	1312
Molding-machine.....	C. Herman.....	706,751	Aug. 12	1461	322	100	1431
Molding-machine.....	J. P. Appleby.....	707,535	Aug. 26	2927	662	100	1770
Molding-machine.....	E. E. Punzelt.....	711,072	Oct. 14	1300	281	101	283
Molding-machine.....	J. Anderson.....	713,047	Nov. 11	1091	253	101	1137

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Molding-machine	C. M. Day and J. Anderson	714,285	Nov. 25	3574	786	101	1687
Molding-machine	J. C. Bradley and T. H. Gilbert	715,964	Dec. 16	2536	560	101	2397
Molding-machine. Continuous.	B. Fletcher	690,716	Jan. 7	692	151	98	146
Molding-machine. Core.	J. M. Fyott, Jr.	699,710	May 13	1115	282	99	1418
Molding-machine engine.	L. S. Stiles	703,013	June 24	3186	734	99	2819
Molding-machine. Sand.	D. L. Adams	697,593	Apr. 15	2250	502	99	510
Molding-machine. Sand.	J. J. McClelland	704,078	July 8	1320	288	100	277
Molding-machine. Sand.	J. R. Davies	705,215	July 22	3582	774	100	775
Molding-machine sprue-pin.	C. R. Davis	695,146	Mar. 11	1559	345	98	2059
Molding. Metallic strip.	D. Reyam	711,788	Oct. 21	2681	591	101	589
Molding-press	J. F. Buckley	702,193	June 10	1693	365	99	2462
Money arm-band	C. O. Anderson	710,732	Oct. 7	639	133	101	180
Money-changer. Mechanical.	G. W. Castlen	700,744	Sept. 23	3373	757	100	2720
Money holder or envelop. Folding.	E. L. Miller	709,496	Sept. 23	2916	650	100	2367
Monkey-wrench	C. P. Whittemore	705,799	July 29	4790	1090	100	1080
Monkey-wrench.	A. C. McFarland	713,480	Nov. 11	1949	441	101	1314
Monoline-machine	W. W. Wotherspoon	711,143	Oct. 14	1421	308	101	311
Monorailway	L. Beecher	695,137	Mar. 11	1547	342	98	2056
Monorailway	E. A. Green	709,263	Sept. 16	2415	547	100	2509
Monument inscription-frame.	T. B. White	695,774	Mar. 18	2678	608	98	2386
Moorings block or clump	C. C. Lenox	709,914	Sept. 30	3725	829	100	2896
Mop	H. A. Hayden	701,482	June 3	369	82	99	2184
Mop and brush holding means. Combined	P. Schmidt	693,671	Feb. 18	2763	609	98	1413
Mop and wringer. Combined	F. Bracey	708,857	Sept. 9	1592	365	100	2320
Mop and wringer therefor	E. Hilker	699,953	May 13	1615	369	99	1522
Mop and wringer therefor. Combined	E. Hilker	716,417	Dec. 23	3443	751	101	2601
Mop. Floor.	J. M. Michaud	716,262	Dec. 16	3181	686	101	2382
Mop-head	H. S. Brevington	694,826	Mar. 4	320	209	98	1911
Mop-head	J. C. Cook	695,063	Mar. 11	1367	306	98	2024
Mop-head	A. S. Held	699,312	May 6	346	80	99	1244
Mop-head	A. S. Held	699,313	May 6	347	81	99	1245
Mop-head	A. S. Held	699,314	May 6	347	81	99	1245
Mop-head	A. S. Held	699,315	May 6	348	81	99	1245
Mop-head	E. B. Campbell	700,675	May 29	3017	691	100	1350
Mop-head	J. C. Cook	706,244	Aug. 5	464	99	100	1210
Mop-head	J. C. Cook	716,444	Dec. 23	3497	764	101	2612
Mop head and wringer.	G. G. Glenn	717,091	Dec. 30	4853	1051	101	2924
Mop-holder.	I. N. Anderson	693,772	Feb. 18	2944	648	98	1451
Mop-holder.	P. Schmidt	696,759	Apr. 1	688	156	99	147
Mop-holder.	A. L. Wilson	701,557	June 3	687	152	99	2252
Mop holder and wringer	A. W. Smith	704,132	July 8	1443	308	100	303
Mop holder and wringer	A. W. Smith	704,133	July 8	1444	308	100	304
Mop-wringer	W. Geddes	694,469	Mar. 4	249	56	98	1765
Mop-wringer	A. H. Allison	694,517	Mar. 4	345	76	98	1785
Mop-wringer	F. W. Towne	697,223	Apr. 8	1572	352	99	353
Mop-wringer	H. C. White	698,773	Apr. 29	4501	994	99	1019
Mop-wringer	A. M. Burnham	699,073	Apr. 29	5073	1121	99	1142
Mop-wringer	J. von Kanel	707,235	Aug. 19	2358	529	100	1635
Mop-wringer	J. C. Thomson	709,586	Sept. 23	3084	687	100	2662
Mop-wringer	H. Giberson	712,294	Oct. 28	3646	796	101	801
Mop-wringer	W. W. M. Hickey	714,374	Nov. 25	3726	821	101	1717
Mopping device	H. F. Ackerman	701,985	June 10	1258	286	99	2386
Mopping device	H. F. Ackerman	704,671	July 15	2424	524	100	822
Mordanting animal fiber.	O. P. Amadi	700,284	May 20	2239	99	100	1800
Morse apparatus. Device for automatically unrolling the paper ribbon in	L. Cerebotani	710,667	Oct. 7	520	108	101	105
Mortar-bed	J. M. Holloway	708,344	June 24	3805	874	99	2944
Mortar composition	E. K. Welch	706,138	Aug. 5	257	100	101	171
Mortising-machine.	C. J. Seaquest	706,458	Aug. 5	922	200	100	1302
Mortising-machine.	W. B. Reasoner	715,864	Dec. 16	2350	520	101	2357
Mortising-machine. Hinge.	A. J. MacKenzie	699,335	May 6	389	90	99	1233
Mortising-machine. Window-frame.	F. V. Phillips	699,008	Apr. 29	4965	1099	99	1120
Mortising, tenoning, and grooving machine	J. Clarke	697,236	Apr. 8	1500	355	99	357
Mosaic blocks. Die for cutting	W. A. Arnold	702,391	June 17	2001	456	99	2555
Mosaic work. Making.	J. S. Parker	702,328	June 10	1869	425	99	2508
Mosaics. Means for setting	F. Alcan	706,874	Aug. 12	1668	379	100	1480
Mosquito-bar or canopy support	P. J. Junz	707,112	June 3	129	27	99	2135
Mosquito-canopy	M. E. Webber	709,528	Sept. 23	2395	667	100	2644
Motion. Apparatus for converting rotary into reciprocating	R. H. Yale	701,982	June 10	1253	285	99	2384
Motion-checking device	H. Lemp	692,871	Feb. 11	1168	259	98	1064
Motion-checking device	H. Lemp	692,875	Feb. 11	1178	261	98	1066
Motion-checking device	H. Lemp	692,876	Feb. 11	1181	262	98	1067
Motion-checking devices. Mechanism for operating	O. F. Persson	692,900	Feb. 11	1242	275	98	1080
Motion. Converting	C. H. Fraley and G. F. Miller	697,829	Apr. 15	2683	596	99	601
Motion-converting mechanism	J. H. Baker	691,697	Jan. 21	2309	562	98	558
Motion-converting mechanism	G. W. Zelliff	696,786	Apr. 29	4975	1101	99	1159
Motion-converting mechanism	J. M. Rauhoff	699,013	Apr. 29	4975	1101	99	1159
Motion-converting mechanism	J. Horrocks	707,112	Aug. 19	2131	475	100	1546
Motion. Means for transmitting rotary	P. W. Dunne	704,245	July 8	1636	354	100	342
Motion. Mechanical movement for converting	J. T. Watts	691,511	Jan. 21	2171	486	98	488
Motion. Mechanical movement for converting	J. T. Watts	705,499	July 22	4198	907	100	891
Motion. Mechanism for converting	M. C. Nixon	700,363	May 20	2453	562	99	1712
Motion. Mechanism for converting rotary into reciprocating	B. H. Locke	704,810	July 15	2701	584	100	577
Motion mechanism. Variable.	A. B. Tenney	697,041	Apr. 8	1260	280	99	287
Motion-transmitter	H. Tuttle	697,573	Apr. 15	2212	493	99	502



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Invention	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Motion-transmitting device.....	C. F. Stokes and C. E. McGlinchey.	705,624	July 29	4474	970 971	100	966
Motion-transmitting device.....	G. G. Beitzel.	713,385	Nov. 11	1797	404	101	1292
Motion-transmitting mechanism. Variable.....	J. Nielsen.	701,603	June 3	582	128	99	2230
Motive-power apparatus.....	J. Hofmann.	694,642	Mar. 4	583	128	98	1836
Motive-power engine.....	M. T. Minogue.	706,494	Aug. 5	979	215	100	1314
Motive power. Generating.....	R. Stenersen.	691,500	Jan. 21	2149	482	98	483
Motive-power-generating apparatus.....	L. D. Copeland.	711,289	Oct. 14	1729	374	101	973
Motor:							
See Air-motor. Pneumatic motor.							
Air and vapor motor. Pump-motor.							
Air or vacuum motor. Rotary motor.							
Automatic motor. Sound-motor.							
Bicycle-motor. Spring-motor.							
Car-motor. Steam-motor.							
Current-motor. Steam and internal-combustion motor.							
Electric motor. Switch-motor.							
Explosive-motor. Tidal-motor.							
Fluid-motor. Tide-motor.							
Gas-machine weight motor. Tide or other motor.							
Gas-motor. Tool-motor.							
Gravity-motor. Toy-vehicle motor.							
Hand-motor. Treadle-motor.							
Hydraulic motor. Water-motor.							
Hydrocarbon-motor. Wave-motor.							
Induction-motor. Wave and tide motor.							
Internal-combustion motor. Wave-power motor.							
Mechanical motor. Weight-motor.							
Petroleum-motor. Wind-motor.							
Motor.....	F. E. Wells.	691,424	Jan. 21	2008	450	98	452
Motor.....	D. Hurst.	692,668	Feb. 4	801	182	98	180
Motor.....	J. C. Walker.	696,612	Apr. 1	393	92, 93	99	87
Motor.....	J. M. Maxwell.	701,067	May 27	3800	871	99	2010
Motor.....	W. Dieter and H. Orum.	701,857	June 10	1025	229	99	2338
Motor.....	H. de Chardonnet.	702,404	June 17	2022	462	99	2559
Motor.....	P. B. Laskey.	702,972	June 24	3120	718	99	2806
Motor.....	C. M. Kiler.	703,426	July 1	109	24	100	24
Motor.....	R. Widner.	705,001	July 15	3121	673	100	666
Motor.....	J. Ulrich.	705,489	July 22	4151	903	100	889
Motor.....	R. L. Barnhart.	705,897	July 29	4962	1080	100	1064
Motor.....	W. Evans.	706,489	Aug. 5	973	214	100	1313
Motor.....	M. Villazon.	707,809	Aug. 26	3529	797	100	1892
Motor.....	C. J. Cullen.	709,877	Sept. 30	3628	820	100	2787
Motor.....	W. T. Fox.	710,769	Oct. 7	711	150	101	145
Motor.....	H. J. Schmick.	712,855	Nov. 4	738	170	101	1050
Motor.....	J. G. Hudspith.	715,480	Dec. 9	1577	342	101	2176
Motor.....	B. V. Szabó.	716,143	Dec. 16	2892	637	101	2472
Motor control.....	J. D. Ihlder.	713,222	Nov. 11	1434	325	101	1208
Motor-control system.....	W. B. Potter.	712,589	Nov. 4	244	60	101	948
Motor-control system.....	F. E. Case.	716,189	Dec. 16	3001	656	101	2496
Motor-controller.....	G. E. Krause and A. L. Bolen.	712,549	Nov. 4	177	41	101	934
Motor-controller.....	G. E. Krause and A. L. Bolen. (Re-issue.)	12,064	Dec. 16	3315	724 725	101	2557
Motor-controller locking device.....	G. G. and A. G. Guenther.	710,632	Oct. 7	543	113	101	111
Motor-controller-operating mechanism.....	F. A. Merrick and J. D. Forrer.	708,724	Sept. 9	1314	300	100	2260
Motor-controlling apparatus.....	G. T. and L. Woods.	697,928	Apr. 15	2860	632	99	638
Motor-driven device or mechanism.....	W. E. Gibbs.	702,371	June 10	1948	443	99	2524
Motor-feed-regulator.....	W. E. Gibbs.	691,259	Jan. 14	1658	377	98	361
Motor-engine.....	D. A. Deerow.	715,559	Dec. 9	1740	383	101	2207
Motor-gearing.....	W. E. Canedy.	693,337	Feb. 25	3074	678	98	1496
Motor-generator.....	P. J. Collins.	702,407	June 17	2027	462	99	2560
Motor-meter.....	T. Duncan.	698,658	Apr. 29	4262	943	99	962
Motor-meter.....	T. Duncan.	698,659	Apr. 29	4265	943	99	963
Motor-meter.....	T. Duncan.	698,661	Apr. 29	4270	944 945	99	964
Motor-meter.....	T. Duncan.	698,664	Apr. 29	4276	947	99	966
Motor-meter. Alternating-current.....	T. Duncan.	698,655	Apr. 29	4255	942	99	960
Motor-meter. Induction.....	T. Duncan.	698,656	Apr. 29	4258	942	99	961
Motor-meter. Induction.....	T. Duncan.	698,657	Apr. 29	4260	943	99	961
Motor-meter. Induction.....	T. Duncan.	698,658	Apr. 29	4347	957 958	99	985
Motor-meter. Polyphase.....	T. Duncan.	698,660	Apr. 29	4267	944	99	964
Motor or engine.....	A. E. Olney.	694,182	Feb. 25	3763	831	98	1632
Motor-regulation.....	R. T. Lozier.	714,210	Nov. 25	3423	733	101	1656
Motor shut-off device.....	T. D. Millea.	702,193	June 10	1496	337	99	2438
Motor speed-limiting device. Series.....	L. A. Tirrell.	712,308	Dec. 30	5266	1143	101	3014
Motor-starting device. Induction.....	A. H. Abell.	714,351	Nov. 25	3582	811	101	1707
Motors. Cooling attachment for internal-combustion.....	F. Thourot.	702,750	June 17	2680	617	99	2697
Motors. Cooling means for rotary.....	L. Wilson.	700,276	May 20	2270	518 519	99	1676
Motors from distant points. Controlling.....	N. C. Bassett.	713,380	Nov. 11	1787	401 402	101	1280

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Motors. Means for starting explosion.....	J. W. Hinchley .....	714,902	Dec. 2	581	113	101	1942
Motors. Means for synchronizing .....	F. E. Case .....	715,019	Dec. 2	737	151	101	1983
Motors. Protecting device for induction.....	J. H. Diggle .....	708,902	July 1	977	213	100	196
Motors. Starting induction .....	A. Schwartz .....	714,824	Dec. 2	340	75	101	1906
Motors. Synchronizing .....	F. E. Case .....	715,195	Dec. 2	1040	224	101	2049
Motors to machines. Means for connecting .....	C. E. Donnatin and C. V. Greena- myer .....	712,659	Nov. 4	369	85	101	974
Motors. Vibration-equalizing support for .....	A. Bochet .....	715,954	Dec. 16	2519	555	101	2394
Mounting entomological specimens. Device for .....	C. B. Riker .....	696,750	Apr. 1	672	152	99	144
Mouse-trap .....	R. Chassé .....	714,281	Nov. 25	3560	783	101	1684
Mouth and nose guard .....	M. B. Goodwin .....	715,052	Dec. 2	779	166	101	1994
Mouth-organ .....	R. Field and A. Hanson .....	708,805	Sept. 9	1480	339	100	2236
Mouthpiece material. Cutting mechanism for form- ing projections on .....	K. Harnisch .....	716,535	Dec. 23	3686	804	101	2927
Movement-controlling mechanism. Variable .....	H. D. Meier .....	710,302	Sept. 30	4289	966	100	2920
Movement-cure apparatus .....	G. J. Macaura .....	716,448	Dec. 23	3504	765	101	2614
Movements and indicating positions electrically. Means for transmitting .....	W. A. Thiermann .....	706,281	Aug. 5	564	122	100	1229
Movements and indicating the position of indicators) or the like. System of and apparatus for trans- mitting .....	W. A. Thiermann .....	705,462	July 22	4131	898 899	100	885
Moving boulders, &c. Machine for .....	P. Bouchry .....	698,253	Apr. 22	3502	771	99	791
Moving heavy bodies. Apparatus for .....	C. V. Fowler .....	700,819	May 20	2373	541	99	1695
Moving stand or figure .....	H. E. Hupton .....	713,221	Nov. 11	1432	325	101	1207
Mower .....	J. F. Appleby .....	698,167	Apr. 22	3341	730	99	757
Mower .....	J. Q. Adams and S. Hough .....	708,513	July 1	250	781	100	50
Mower .....	A. Mayer .....	710,280	Sept. 30	4438	1001	100	2058
Mower attachment. Lawn .....	W. J. Gleason .....	703,650	July 1	503	113 114	100	99
Mower buncher attachment .....	J. F. Wheeler .....	693,003	Feb. 11	1611	351 352	98	1156
Mower grass-catcher attachment. Lawn .....	O. Hoffmann .....	692,445	Feb. 4	335	95	98	880
Mower grass-receptacle. Lawn .....	L. Wildermuth .....	715,721	Dec. 9	3022	432	101	2367
Mower. Lawn .....	C. D. Spates .....	697,415	Apr. 8	1933	430	99	430
Mower. Lawn .....	E. H. Clifton .....	700,173	May 20	2067	473	99	1633
Mower. Lawn .....	W. Boss .....	701,255	May 27	4143	952	99	2079
Mower. Lawn .....	W. H. H. Heydrick .....	707,324	Aug. 19	2536	570	100	1671
Mower. Lawn .....	F. L. Adams .....	710,131	Sept. 30	4156	986	100	2937
Mower. Lawn .....	W. S. Colwell .....	712,500	Nov. 4	65	16	101	911
Mower. Lawn .....	F. L. Adams .....	715,452	Dec. 9	1519	329	101	2164
Mower. Lawn .....	C. Zickler .....	715,164	Dec. 16	2929	644	101	2478
Mower. Lawn .....	F. L. Adams .....	716,357	Dec. 23	3321	726	101	2575
Mower. Motor lawn .....	T. and W. H. Coldwell .....	707,304	Aug. 19	2492	559 560	100	1663
Mower or harvester finger-bar attachment .....	W. Gaternann .....	700,029	May 13	1742	401	99	1546
Mower or reaper cutting apparatus .....	W. M. Goehrend .....	691,461	Jan. 21	2083	466	98	466
Mowers, reapers, &c. Cutting apparatus for .....	H. L. Hopkins .....	697,407	Apr. 8	1912	427	99	425
Mowers, reapers, &c. Cutting apparatus for .....	E. A. Johnston .....	708,146	Sept. 2	274	65	100	2038
Mowers, reapers, &c. Cutting apparatus for .....	E. A. Johnston .....	708,147	Sept. 2	275	65	100	2038
Mowers, reapers, &c. Cutting apparatus for .....	A. Stevens .....	710,816	Oct. 7	811	174	101	166
Mowing-machine .....	A. Von Loeper .....	693,287	Feb. 11	2018	440	98	1239
Mowing-machine .....	P. L. Shepler .....	707,981	Aug. 26	3852	865	100	1954
Mowing-machine .....	B. C. White and T. J. Jones .....	710,228	Sept. 30	4339	976	100	2367
Mowing-machine .....	A. Stevens .....	710,815	Oct. 7	810	174	101	166
Mowing-machine .....	E. Potter .....	712,960	Nov. 4	939	218	101	1089
Mowing-machine .....	S. V. Kennedy .....	716,430	Dec. 23	3465	756	101	2605
Mowing-machine attachment .....	T. B. Fagan. (Reissue) .....	11,978	Apr. 1	1012	225	99	214
Mowing-machine. Automobile .....	G. H. Ellis and J. F. Steward .....	698,188	Apr. 22	3383	743	99	766
Mowing-machine cutter .....	A. Chanal .....	715,020	Dec. 2	729	155	101	1983
Mowing-machine cutter-bar .....	J. T. Myers .....	703,806	July 1	795	175	100	160
Mowing-machine finger-bar-adjusting device .....	C. G. Hunter .....	702,433	June 17	2084	475	99	2573
Mowing-machine gearing .....	W. A. Kirby .....	702,442	June 17	2098	478	99	2576
Mowing-machine. Grass or grain .....	C. F. Richter .....	711,125	Oct. 14	1387	301	101	302
Mowing-machines. Means for adjusting finger- bars of .....	W. D. Myers .....	690,452	Jan. 7	127	27	98	29
Mud-chamber .....	D. Neale .....	716,572	Dec. 23	3768	820	101	2669
Muffle-furnace .....	G. M. Conyers and A. B. de Saulles .....	712,502	Nov. 4	68	17, 18	101	911
Muffle-furnace. Continuous .....	G. Geille .....	714,473	Nov. 25	3893	861	101	1750
Muffle-furnace for irons .....	W. Dicken. (Reissue) .....	11,998	June 3	962	214	99	2310
Muffler .....	H. Henniger .....	704,824	July 15	2722	589	100	2043
Muffler .....	C. E. Christman .....	701,151	May 27	3957	911	99	583
Muffler .....	A. G. Ronan .....	702,031	June 10	1344	307	99	2401
Muffler .....	H. N. Motsinger .....	706,844	Aug. 12	1641	397	100	1471
Muffler .....	C. E. Christman .....	717,078	Dec. 30	4835	1048	101	2921
Muffler. Exhaust .....	R. E. Bousfield .....	706,636	Aug. 12	1226	272	100	1850
Muffler. Exhaust .....	H. N. Whitteley .....	714,077	Nov. 18	3132	693	101	1577
Muffler. Exhaust .....	W. Barber .....	714,128	Nov. 25	3228	712 713	101	1616
Mule .....	F. Reynolds and W. J. Underwood .....	698,321	Apr. 22	3614	798	99	814
Multicircuit-generators. Regulating .....	H. H. Wait .....	716,355	Dec. 16	3307	721	101	2556
Multicircuit-generators. Regulating mechanism) for .....	H. H. Wait .....	716,356	Dec. 16	3309	722 723	101	2556
Multiple-cylinder engine .....	L. C. Worrton and A. Vanderbeek .....	715,725	Dec. 9	2030	454 455	101	2269
Multiple effect .....	B. Thoens .....	699,088	Apr. 29	5017	1110	99	1131
Multiple switch .....	H. H. Cutler .....	702,409	June 17	2033	464	99	2502
Multiple switch. Series .....	A. B. Porter .....	698,136	Apr. 22	3284	719	99	744
Multipress. Double .....	H. A. W. Wood .....	701,120	May 27	3904	897 898	99	2032
Multipress. Double .....	H. A. W. Wood. (Reissue) .....	12,016	July 22	4333	936 937	100	923
Muscle-developer .....	E. Viko .....	714,067	Nov. 18	3117	688 689	101	1573



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Muscle-tester. Coin-controlled	C. C. Yancey	694,226	Feb. 25	3832	849	98	1646
Musie-box	G. Otto and F. Schaub	700,550	May 20	2809	642	99	1785
Musie-box note-sheet-lifting mechanism	G. A. Brachhausen	714,857	Dec. 2	430	98	101	1921
Musie cabinet. Sheet	O. H. Stewart	690,478	Jan. 7	396	39	98	43
Musie carrier. Sheet	R. L. Mattoch	698,878	Feb. 25	3159	698	98	1512
Musie-chart	C. T. Meredith	714,316	Nov. 25	3674	788	101	1636
Musie-chart. Mechanical	C. M. Halvorsen	708,139	Sept. 2	263	63	100	2036
Musie-holder	G. Burt	692,612	Feb. 4	704	163	98	943
Musie-holder	A. D. Crist	704,003	July 8	1172	255	100	249
Musie holder and turner	J. F. Black	713,051	Nov. 11	1101	254	101	1138
Musie-leaf turner	J. Lombardi	692,320	Feb. 4	184	42	98	837
Musie-leaf turner	C. H. Dascomb	694,839	Mar. 4	956	213	98	1015
Musie-leaf turner	A. Botermans	698,252	Apr. 22	3501	771	99	791
Musie-leaf turner	B. F. D. Miller	699,548	May 6	793	186	99	1339
Musie-leaf turner	G. E. Adams	707,671	Aug. 26	3211	720	100	1829
Musie-leaf turner	J. Ahern	709,625	Sept. 23	3148	702	100	2674
Musie-leaf turner	G. H. Straight	711,189	Oct. 14	1536	326	101	334
Musie-leaf turner	J. E. Solomon and M. L. Spence	712,609	Nov. 4	284	67	101	1338
Musie-leaf turner	G. Johnson	716,638	Dec. 23	3895	851	101	2637
Musie marking and reading instrument	M. S. Logan	698,298	Apr. 22	3579	789	99	807
Musie-rack	J. H. Stanfield	694,500	Mar. 4	294	68	98	1774
Musie-rack	R. W. Mills	696,993	Apr. 8	1168	261	99	268
Musie rack and turner	G. P. Benton	692,229	Feb. 4	16	4	98	801
Musie rack or stand	E. B. Straight	717,133	Dec. 30	4934	1070	101	2941
Musie retainer. Sheet	J. Rawlins	704,104	July 8	1382	298	100	291
Musie-roll	L. B. Doman	697,821	Apr. 15	2673	594	99	599
Musie-roll and spool therefor	M. Gally	713,870	Nov. 18	2708	605	101	1487
Musie-roll for automatic musical instruments	P. Welin	694,450	Mar. 4	217	48	98	1759
Musie-roller-actuating mechanism	F. Engelhardt	691,898	Jan. 28	2902	653	98	656
Musie-sheet for automatic musical instruments. Perforated	C. H. Shaw	709,054	Sept. 16	2002	456	100	2420
Musie-sheet-perforating apparatus	H. M. Salyer	702,887	June 17	2984	676	99	2750
Musie-sheet turner	C. E. Bertogliatti	705,023	July 22	3173	686	100	693
Musie-sheets. End-fastener for perforate l	H. E. Beach	709,296	Sept. 16	2484	559	100	2524
Musie-sheets with a line indicating an effect to be produced. Device for marking perforated	F. L. Young	692,969	Feb. 11	1392	302	98	1111
Musical ball	J. Stone	700,850	May 27	3410	783	99	1928
Musical instrument	W. Van Nette	694,589	Mar. 4	482	105	98	1815
Musical instrument	H. G. Spiegel	695,958	Mar. 25	3017	684	98	2289
Musical instrument	H. Langfelder	702,224	June 10	1605	382	99	2474
Musical instrument	R. F. Flemmings	711,208	Oct. 14	1571	337	101	341
Musical instrument	F. J. Hepp	711,765	Oct. 21	2638	581	101	581
Musical instrument	D. H. Haywood	715,364	Dec. 9	1169	250	101	2933
Musical-instrument action. Stringed	H. Steenbock	717,130	Dec. 30	4980	1069	101	2940
Musical instrument. Automatic	J. McTammany	692,207	Jan. 28	3458	781	98	768
Musical instrument. Automatic	J. Carpentier	697,980	Apr. 22	2966	653	99	689
Musical instrument. Automatic	E. de Kleist	700,781	May 27	3270	733	99	1903
Musical instrument. Automatic	G. A. Brachhausen	713,053	Nov. 11	1104	255	101	1139
Musical instrument. Automatic	E. de Kleist	715,484	Dec. 9	1582	343	101	2177
Musical-instrument automatic playing attachment	H. M. Salyer	711,004	Oct. 14	1142	252	101	250
Musical-instrument automatic playing attachment	C. E. Peterson	712,844	Nov. 4	717	166	101	1016
Musical instrument. Automatic stringed	F. W. Wood and E. H. Stiles, Jr	702,898	June 17	2960	682	99	2756
Musical instrument. Automatically-operated	H. E. Sharps	696,762	Apr. 1	694	157	99	148
Musical-instrument bridge	E. E. Jackson	698,955	Apr. 29	4878	1076	99	1102
Musical-instrument controller. Mechanical	F. L. Young	692,968	Feb. 11	1391	302	98	1111
Musical-instrument devices. Automatic spring-winding mechanism for mechanical	H. E. Sharps and W. F. Cooper	697,754	Apr. 15	2552	568	99	571
Musical instrument. Electrical self-playing	H. E. Beach	709,295	Sept. 16	2483	559	100	2523
Musical instrument head-piece. Stringed	J. Brandt	713,390	Nov. 11	1805	406	101	1284
Musical-instrument keyboard playing attachment	E. S. Votey	696,216	Mar. 25	3552	794	98	2509
Musical instrument. Mechanical	J. McTammany	692,208	Jan. 28	3462	783	98	769
Musical instrument. Mechanical	C. L. Emmons	698,480	Apr. 29	3905	863	99	890
Musical instrument. Mechanical	J. McTammany	705,952	July 29	5063	1102	100	1084
Musical instrument. Mechanical	E. C. Phillips	711,674	Oct. 21	2461	541	101	542
Musical instrument. Mechanical	E. S. Votey	717,146	Dec. 30	4960	1076	101	2947
Musical instrument. Mechanical stringed	R. Gabrielsky	708,337	Sept. 2	625	141	100	2108
Musical-instrument pegs. Holder for stringed	S. A. Gregg	711,396	Oct. 14	1918	417	101	414
Musical-instrument players. Tracker-board for automatic	E. M. Skinner	715,307	Dec. 9	1260	268	101	2114
Musical-instrument playing attachment	H. M. Salyer	700,880	May 27	3370	774	99	1920
Musical instrument. Self-playing	J. Kruff	715,089	Dec. 2	854	182	101	2011
Musical-instrument self-playing attachment	J. Courville	700,677	May 20	3020	691	99	1831
Musical-instrument self-playing attachment	H. M. Salyer	700,829	May 27	3364	773	99	1919
Musical instrument. Stringed	F. A. Porter	690,463	Jan. 7	148	31	98	33
Musical instrument. Stringed	K. Grienauer	703,572	July 1	346	79	100	70
Musical instrument. Stringed	W. Gabrielson	711,104	Oct. 14	1353	294	101	294
Musical-instrument strings. Tension apparatus for stringed	P. Pechenart	705,288	July 22	3740	812	100	805
Musical-instrument tracker	E. S. Votey	712,162	Oct. 28	3419	749	101	755
Musical-instrument transposing device	M. Clark	709,963	Sept. 30	3853	863	100	2829
Musical-instrument tune-controlling device	E. de Kleist	713,653	Nov. 18	2312	516	101	1102

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Musical-instrument valve. Pneumatic.....	M. Clark	698,905	Apr. 29	4800	1058	99	1085
Musical instruments. Machine for cutting perforated sheets for automatic	M. Clark	698,104	Apr. 22	3208	702 703 704	99	730
Musical instruments. Melody-stop for mechanically-played	R. W. Pain	718,676	Nov. 18	2356	524	101	1412
Musical instruments. Operating-sheet for automatic	E. S. Votey	707,283	Aug. 19	2460	551	100	1656
Musical instruments. Playing attachment for key.	H. M. Salyer	703,743	July 1	679	151	100	135
Musical instruments. Pneumatic motor for mechanical	H. F. Hall	711,158	Oct. 14	1459	316	101	318
Musical sounder	H. Rodemeyer	696,978	May 13	1639	381	99	1530
Musical stringed instrument	G. H. Lewis	692,248	Feb. 4	57	13	98	810
Musets. Drag for gathering	J. W. Sharp	702,250	June 10	1737	392	99	2482
Mustache-guard	E. C. Gladwin	702,790	June 17	2757	634	99	2714
Mustard-pot.	H. Grimm	703,250	June 24	3641	837	99	2909
Mutoscope	H. P. Gillette	696,869	Apr. 1	889	205	99	188
Muzzle	H. A. Dorries	713,617	Nov. 18	2254	501	101	1391
Muzzle. Cattle	A. F. Hendricks and C. A. Logwood.	692,659	Feb. 4	779	178	98	958
Muzzle. Horse	H. Bark	691,097	Jan. 14	1365	310	98	299
Nail:							
See Wall-nail.							
Nail-assorting apparatus	B. F. Mayo	707,137	Aug. 19	2163	485 486	100	1593
Nail-assorting apparatus	B. F. Mayo	707,139	Aug. 19	2175	488	100	1595
Nail-assorting apparatus	A. D. Elliott	707,140	Aug. 19	2178	489	100	1596
Nail-assorting machines. Raceway for.	B. F. Mayo	707,142	Aug. 19	2184	489	100	1597
Nail-assorting mechanism	B. F. Mayo	707,136	Aug. 19	2160	485 486	100	1593
Nail-assorting mechanism	B. F. Mayo and A. D. Elliott	707,138	Aug. 19	2168	487 488	100	1595
Nail-assorting mechanism	C. C. Small	707,141	Aug. 19	2181	489	100	1596
Nail-cabinet. Self-handling	J. D. Leen	698,535	Feb. 18	2481	544	98	1356
Nail-clipper. Right and left	J. D. Leen	702,516	June 17	2242	511	99	2608
Nail-coating	H. V. Brauch and B. Hemann	696,796	Apr. 1	760		99	162
Nail cutter and file.	E. Forquignon	691,126	Jan. 14	1416	321	98	310
Nail-extractor.	E. N. Sperry	708,841	Sept. 9	1561	356	100	2312
Nail-forming machine	T. Gare	711,248	Oct. 14	1645	354 355	101	357
Nail-holding implement	F. Boek	696,832	Apr. 1	858		99	182
Nail-machine.	E. Schwarz	705,450	July 22	4082	887	100	876
Nail machine. Wire	J. H. Clark and A. Mayer	701,467	June 3	333	73, 74	99	2178
Nail-making machine	N. Dussault	701,178	May 27	3999	919 920	99	2052
Nail-making machine.	J. H. Goetsche	716,030	Dec. 16	2666	588	101	2425
Nail-puller	W. Pearce	700,440	May 20	2604	589	99	1743
Nail-puller	E. C. Fowler	700,756	May 27	3232	740	99	1891
Nail-puller	E. C. Fowler	700,757	May 27	3233	740	99	1892
Nail-puller	I. W. Stearns	700,846	May 27	3401	782	99	1927
Nailing apparatus	P. R. Glass	695,385	Mar. 11	1974	442	98	2144
Nailing device.	H. von Kalinowski	694,649	Mar. 4	595	131	98	1888
Nailing implement	S. Van Aukun	692,740	Feb. 4	916	209	98	966
Nailing-machine	E. T. Freeman. (Reissue).	11,962	Jan. 21	2579	578 579	98	572
Nailing-machine	P. R. Glass	695,428	Mar. 11	2041	458	98	2158
Nailing-machine	H. W. Morgan	696,466	Apr. 1	133	32, 33	99	34
Nailing-machine	J. W. Reed	712,331	Oct. 28	3708	811	101	815
Nailing-machine nail-controlling mechanism	F. O. Tobey	712,866	Nov. 4	754	175	101	1053
Name-plate or printing machine	J. F. Blake	713,389	Nov. 11	1802	405	101	1294
Napkin-holder	L. J. Martin	715,678	Dec. 9	1944	435	101	2231
Napkin-support	W. R. Walker	703,864	July 1	898	197	100	180
Nasal distender	W. Moore	690,527	Jan. 7	312	62	98	68
Nasal irrigator.	C. H. Pattison	716,931	Dec. 30	4543	986	101	2858
Nasal shield	T. Carence	701,538	June 3	458	108	99	2202
Navigating or surveying instrument	J. B. Blish	714,276	Nov. 25	3548	781	101	1582
Nebulizer	H. Golttermann	694,630	Mar. 4	55	1231	98	2351
Nebulizer	W. and J. Boekel	698,598	Apr. 29	4766	1053	99	1082
Nebulizer	C. Truax	707,282	Aug. 19	2157	551	100	1656
Neck-forming tool	E. Hoffman	714,304	Nov. 25	3605	793	101	1692
Neckband-shaper	M. H. Ellenbogen and A. L. Levi.	701,181	May 27	4008	921	99	2054
Neckband-shaper	D. B. Ashman	712,752	Nov. 4	524	122	101	1016
Necktie	T. F. Dunn	699,235	May 6	313	72	99	1238
Necktie.	D. Oppenheimer.	704,569	July 15	2262	498	100	488
Necktie-fastener	G. C. Street	704,591	July 15	2265	498	100	495
Necktie	F. A. Arbenz	708,192	Sept. 2	363	86	100	2055
Necktie.	C. Reynolds	709,680	Sept. 23	3244	725	100	2095
Necktie-band fastener	W. G. Dunham	697,936	Apr. 15	2884	636	99	644
Necktie-band fastener	A. B. Schucker	698,561	Apr. 29	4037	893	99	918
Necktie-box, &c.	I. Levy	703,141	June 24	3442	789	99	2869
Necktie-fastener	E. Kiene	692,146	Jan. 28	3326	718	99	2807
Necktie-fastener	G. A. Clinton	696,810	Apr. 1	756	179	99	259
Necktie-fastener	W. H. Hart, Jr.	696,965	Apr. 8	1125	250	99	780
Necktie-fastener	S. B. Palmer	698,219	Apr. 22	3447	756	99	780
Necktie-fastener	J. H. McQuaid	699,341	May 6	402	93	99	1256
Necktie-fastener	A. N. Dow	701,172	May 27	3991	918	99	2051
Necktie-fastener	I. S. Altman	702,610	June 17	2426	553	99	2044
Necktie-fastener	W. Lawrence	702,973	July 24	3126	718	99	2807
Necktie-fastener	G. C. Street	705,382	July 23	3055	857	100	849
Necktie-fastener	J. Weil	705,501	July 22	4173	908	100	802
Necktie-fastener	O. Kraus	707,786	Aug. 26	3476	783	100	1881
Necktie-fastener	J. H. Franz	716,699	Dec. 23	3998	875	101	2717
Necktie-frame	A. Cole	701,154	May 27	3964	912	99	2045
Necktie-holder	Z. Guzik	691,543	Jan. 21	2217	499	98	997
Necktie-holder	J. Udell	698,588	Apr. 29	4070	901	99	988



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Necktie-holder	P. M. Lewis	708,284	June 24	3690	850	99	2918
Necktie-holder	E. Armstrong	711,812	Oct. 31	3730	604	101	599
Neckwear	J. A. Turner	691,208	Jan. 14	1562	355	98	341
Neckwear	S. Fleisch	696,363	Mar. 25	3873	861	98	2564
Neckwear-fastener	J. Weil	710,547	Oct. 7	298	65	101	60
Neckwear-fastener and shield	W. H. Hart, Jr.	694,272	Feb. 25	3919	871	98	1664
Neckwear-holder	W. H. Hart, Jr.	713,565	Nov. 11	2146	480	101	1353
Needle-holder	G. Ermold	695,292	Mar. 11	1831	407	98	2113
Needle-holder	R. Miller	697,866	Apr. 15	2764	618	99	629
Needle-making machine	E. Fontaine	712,054	Oct. 28	3207	702	101	713
Needle. Tape-	C. L. Hughes	694,281	Feb. 25	3937	876	98	1669
Needle. Tape-	J. and H. N. Brown	695,788	Mar. 18	2706	615	98	2312
Needle. Tape-	E. B. Noyes	696,185	Mar. 25	3492	782	98	2488
Needle. Tape-	M. A. Curtis	699,153	May 6	49	14	99	1186
Needle. Tape-	T. E. Whittemore	705,800	July 29	4791	1040	100	1080
Needle-tempering apparatus	J. Funk	696,032	Mar. 25	3154	481	98	2423
Needle-threader	G. Printz	698,855	Apr. 29	1710	1038	99	1067
Needle-threader	O. A. Aicardi	707,191	Aug. 19	2283	511	100	1620
Needle-threading device	A. Olson	694,984	Mar. 11	1251	213	98	1994
Negative plates for bichromated-gelatin processes.	A. Leuchter	710,106	Sept. 30	4096	925	100	2883
Producing							
Negative-retoucher	P. Francois	712,922	Nov. 4	861	200	101	1073
Negatives. Device for enlarging	G. B. Hutchings	693,713	Feb. 11	2844	627	98	1429
Negatives. Producing trichromatic half-tone-process	F. E. Ives	707,421	Aug. 19	2710	614	100	1708
Nest for hens, &c	D. V. Miller	701,494	June 3	386	87	99	2187
Nest. Poultry-	G. C. Lathrop	694,759	Mar. 4	816	181	98	1885
Nest. Trap-	W. Schlie	700,245	May 20	2215	506	99	1664
Nest. Trap-	W. P. Willett	712,348	Oct. 28	3730	817	101	821
Net. Dip-	S. W. Perkins	691,465	Jan. 21	2088	707	98	462
Net. Landing-	T. S. Coffin	708,797	Sept. 9	1461	334	100	2293
Net. Trap-	J. C. Turnipseed	699,041	Apr. 29	5021	1110	99	1132
Newspaper folding, wrapping, addressing, and assorting machine	L. A. Agnew	713,271	Nov. 11	1553	351	101	1230
Newspaper-holder	J. Conzett	690,837	Jan. 7	900	199	98	190
Newspaper-holder	J. Wilton	702,518	June 17	2245	511	99	2608
Newspapers. Inserting-machine for	S. R. Hayden	707,587	Aug. 26	3041	684	100	1793
Nickel and copper-nickel ores. Treatment of	C. Perron	709,277	Sept. 16	2445	100	2515	
Nickel. Melting	H. L. Haas	709,218	Sept. 16	2323	100	2489	
Night-light	G. H. Lilley	716,845	Dec. 23	4376	949	101	2808
Nipper. Hoof-	J. Emanuel	717,173	Dec. 30	5059	1096	101	2969
Nippers	G. J. Capewell	690,325	Jan. 14	1053	237	98	2462
Nippers	G. A. Lowry	715,401	Dec. 9	1420	307	101	2145
Nipple	E. E. Menges	710,114	Sept. 30	4113	928	100	2886
Nipple. Bottle-	P. Gauss	705,916	July 29	5002	1089	100	1072
Nipple. Child's teething-	W. Howell	699,757	May 13	1213	282	99	1437
Nipple. Nursing bottle-	C. A. Tatum	712,157	Oct. 28	3412	747	101	754
Nit-oven	A. P. O'Brien	694,024	Feb. 25	3459	763	98	1572
Nitrocellulose	L. Bachrach	692,102	Jan. 28	1000	288	98	739
Nitrocellulose-and-casein compounds. Manufacture of	C. Bernadac	700,471	May 20	2965	99	1755	
Nitro compounds. Reducing	H. Gerresheim	691,132	Jan. 14	1425	98	312	
Nitro compounds. Reducing aromatic	E. Wirth	714,428	Nov. 25	3823	101	1736	
Nitro compounds. Reduction of	M. Buchner	700,672	May 20	3013	99	1829	
Nitro compounds. Separating solvents from	E. Gathmann	704,628	July 15	2353	511	100	597
Nitrogen compounds from atmospheric nitrogen.	C. S. Bradley and D. R. Lovejoy	709,867	Sept. 30	3611	817	100	2784
Nitroglycerin. Apparatus for the manufacture of	F. L. Nathan, J. M. Thomson, and W. Rintoul.	702,325	June 10	1864	424	99	2307
Nitro or other compounds. Electrolytic reduction of	M. Buchner	700,670	May 20	3008	690	99	1829
Noria	D. Hutton	690,584	Jan. 7	415	90	98	90
Note-sheet or music-disk	J. Natterer	696,910	Apr. 1	987	222	99	211
Nozzle	C. A. Snider	692,375	Feb. 4	276	67	98	856
Nozzle	J. Bean	700,009	May 13	1701	391	99	1538
Nozzle	C. R. Harris	705,754	July 29	4716	1020	100	1013
Nozzle	C. H. Oumpaugh	713,670	Nov. 18	2339	522	101	1408
Nozzle. Blast-	J. S. Thurman	695,967	Mar. 25	3031	687	98	2392
Nozzle for fluid-holding tanks. Filling	F. W. Howard	696,730	Apr. 1	646	146	98	139
Nozzle for sprinkling-vehicles. Spray-	L. G. Weiler	703,167	June 24	3494	893	99	2673
Nozzle for urinals. Spray-	W. U. Griffiths	703,651	July 1	505	114	100	99
Nozzle-grip	W. G. Esch	708,537	Sept. 9	969	219	100	2189
Nozzle-grip	W. G. Esch	708,538	Sept. 9	970	219	100	2189
Nozzle. Spray-	E. Martin	699,801	May 13	1299	301	99	1455
Nozzle. Spraying-	R. E. Chapin	713,632	Nov. 18	2676	597	101	1489
Nozzles. Safety attachment for hydraulic	F. Boutry	708,693	Sept. 9	1249	286	100	2245
Numbering apparatus. Consecutive-	O. G. Bary	708,295	Sept. 2	534	126	99	2673
Numbering-machine	J. H. Reinhardt	692,072	Jan. 28	3223	728	98	719
Numbering-machine	J. F. McNutt	694,408	Mar. 4	137	31	98	1741
Numbering-machine	S. R. Shoup	694,682	Mar. 4	664	145	98	1853
Numbering-machine	A. P. Waterman and G. H. E. Berthold.	709,128	Sept. 16	2143	491	100	2452
Numbering-machine	J. J. Chattaway	710,140	Sept. 30	4171	940	100	2900

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Numbering-machine	F. M. Turck	710,880	Sept. 30	4594	1087	100	2989
Numbering-machine	C. B. Post	711,590	Oct. 21	2294	500	101	507
Numbering or marking machine	A. B. Neill	712,324	Oct. 28	3694	807	101	811
Nut and bolt	L. C. Amberson	715,192	Dec. 2	1037	528	101	2048
Nut and bolt threading machine	F. P. Burnett	717,337	Dec. 30	5323	1154	101	3026
Nut and oil-cap for wheels. Combined axle-	A. C. Atkin	702,612	June 17	2429	554	99	2645
Nut and pipe wrench. Adjustable	M. S. Thomas	696,650	Apr. 1	495	114	99	107
Nut. Cap	A. G. Anderson	692,812	Feb. 11	1062	238	98	1041
Nut-cracker	W. V. Dickey	696,805	Apr. 1	776	176	99	165
Nut-cracker	H. M. Quackenbush	698,734	Apr. 29	4441	980	99	1005
Nut-cracker	J. A. Hutchinson	690,529	May 6	731	176	99	1330
Nut-cracker	K. Hordish	706,179	Aug. 5	3147	74	100	1187
Nut-cracker	A. Wickstrom	707,997	Aug. 26	3592	874	100	1964
Nut-cracking machine.	A. Gerstmayr	702,721	June 17	2637	604	99	2687
Nut-finishing machine	O. Tyberg	715,523	Dec. 9	1648	358	101	2190
Nut-finishing machine	O. Tyberg	715,523	Dec. 9	1653	360	101	2191
Nut-finishing machine	O. Tyberg	715,524	Dec. 9	1657	361	101	2192
Nut-finishing machine	O. Tyberg	715,525	Dec. 9	1663	363	101	2193
Nut-lock	P. S. Eklund	690,846	Jan. 7	910	203	98	192
Nut-lock	L. T. Stephenson	690,900	Jan. 7	1004	227	98	211
Nut-lock	D. T. Wallace	690,902	Jan. 7	1008	227	98	211
Nut-lock	M. Bartley. (Reissue)	11,963	Jan. 28	3500	791	98	776
Nut-lock	E. T. Wilcox	692,572	Feb. 4	622	146	98	925
Nut-lock	E. T. Wilcox	692,573	Feb. 4	623	147	98	925
Nut-lock	T. W. Rieck and E. W. Euge	693,154	Feb. 11	1761	387	98	1184
Nut-lock	T. M. Price	693,805	Feb. 18	3003	664	98	1463
Nut-lock	J. O. Wolford	694,125	Feb. 25	3639	804	98	1609
Nut-lock	J. W. Norman	694,178	Feb. 25	3752	829	98	1630
Nut-lock	E. F. Briggs	694,246	Feb. 25	3862	856	98	1653
Nut-lock	C. S. Pruden	695,489	Mar. 18	2146	485	98	2198
Nut-lock	H. J. Mertz	695,941	Mar. 25	2990	675	98	2384
Nut-lock	A. T. Wilson	696,290	Mar. 25	3684	824	98	2528
Nut-lock	J. C. Culbertson	696,317	Mar. 25	3773	841	98	2547
Nut-lock	N. J. McLean	696,998	Apr. 8	1178	264	99	270
Nut-lock	D. J. Sullivan	697,290	Apr. 8	1695	379	99	381
Nut-lock	R. S. Boykin	697,316	Apr. 8	1737	388	99	390
Nut-lock	S. Benson	697,394	Apr. 8	1885	421	99	420
Nut-lock	H. M. McChesley	697,416	Apr. 8	1935	431	99	430
Nut-lock	M. McDonald	697,520	Apr. 15	2128	472	99	486
Nut-lock	G. O. Hoy and J. J. Peifer	697,870	Apr. 15	2769	614	99	621
Nut-lock	L. Lehoczky and S. Furst	698,337	Apr. 29	4680	1031	99	1061
Nut-lock	E. S. Morris	698,974	Apr. 29	4912	1085	99	1109
Nut-lock	W. D. Hughes	699,925	May 13	558	350	99	1510
Nut-lock	B. W. Bolen	700,051	May 20	2980	684	99	1822
Nut-lock	C. W. Faust, Jr	701,284	June 3	12	3	99	2111
Nut-lock	T. C. Bornman	702,642	June 17	2486	570	99	2657
Nut-lock	J. H. Swindell	702,770	June 17	2723	625	99	2707
Nut-lock	D. T. Wallace	703,015	June 24	3193	736	99	2821
Nut-lock	M. Bartley. (Reissue)	703,166	June 24	3490	802	99	2877
Nut-lock	J. Butler	12,006	July 1	1120	242	100	222
Nut-lock	A. McKinley	703,280	July 1	31	7	100	9
Nut-lock	J. W. B. Turk	703,448	July 1	143	32	100	31
Nut-lock	J. F. Robinson	703,504	July 1	223	53	100	46
Nut-lock	G. H. Layng	703,612	July 1	420	98	100	83
Nut-lock	F. K. Poplewell	704,053	July 8	1259	272	100	264
Nut-lock	R. D. Hughes	704,101	July 8	1378	297	100	290
Nut-lock	G. Coleman	704,332	July 8	1794	392	100	377
Nut-lock	C. Grumme	704,617	July 15	2333	507	100	503
Nut-lock	J. McVey	704,633	July 15	2361	513	100	509
Nut-lock	R. Minges and J. Ewell, Jr	705,120	July 22	3367	730	100	731
Nut-lock	C. L. Dunham	705,420	July 22	4023	872	100	864
Nut-lock	G. W. Vandevender	705,743	July 29	4700	1017	100	1010
Nut-lock	H. Anderson	705,797	July 29	4787	1035	100	1029
Nut-lock	O. Baillargeon	705,812	July 29	4812	1044	100	1034
Nut-lock	C. W. Langham	706,212	Aug. 5	401	86	100	1198
Nut-lock	F. Hart	706,325	Aug. 5	648	141	100	1246
Nut-lock	R. Kantner	706,409	Aug. 5	822	179	100	1280
Nut-lock	W. Graham	706,955	Aug. 12	1836	411	100	1508
Nut-lock	J. P. Birmingham	707,102	Aug. 19	2112	471	100	1582
Nut-lock	L. McConnell	707,499	Aug. 19	2840	642	100	1736
Nut-lock	C. H. Chittum	708,385	Sept. 2	602	134	100	2121
Nut-lock	G. H. Roberts, Sr	708,635	Sept. 9	1134	256	100	2223
Nut-lock	G. L. Pittman	708,865	Sept. 9	1609	368	100	2324
Nut-lock	S. C. Baughn, Jr	709,043	Sept. 16	1978	452	100	2416
Nut-lock	T. Lynch	709,357	Sept. 16	2589	584	100	2546
Nut-lock	F. Moser	709,433	Sept. 16	2753	619	100	2581
Nut-lock	B. E. Swords	709,717	Sept. 23	3309	745	100	2708
Nut-lock	D. G. Horton and J. M. Nicholson	710,795	Oct. 7	762	184	101	157
Nut-lock	F. Cavallaro	711,866	Oct. 14	1868	407	101	404
Nut-lock	G. W. Whitehurst	711,704	Oct. 21	2514	552	101	554
Nut-lock	M. E. Byers	711,823	Oct. 21	2749	608	101	603
Nut-lock	J. W. Whitehurst	712,748	Nov. 4	519	121	101	1005
Nut-lock	W. D. Evans and J. C. Wiggins	712,904	Nov. 4	832	193	101	1067
Nut-lock	J. H. Leonard	712,905	Nov. 4	833	193	101	1067
Nut-lock	J. H. Leonard	712,918	Nov. 4	835	193	101	1072
Nut-lock	J. H. Leonard	713,585	Nov. 18	2187	487	101	1377
Nut-lock	J. H. Leonard	714,809	Dec. 2	315	69	101	1901



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Nut-lock	W. E. Karns	715,270	Dec. 9	1183	252	101	2097
Nut-lock	O. C. Moore	715,498	Dec. 9	1610	348	101	2 82
Nut-lock	W. A. Somerby	715,591	Dec. 16	2398	531	101	2397
Nut-lock	O. Feher	716,018	Dec. 16	2644	582	101	2429
Nut-lock	W. H. Nelson	716,085	Dec. 16	2778	613	101	2419
Nut-lock	F. Peterson	716,095	Dec. 16	2805	618	101	2455
Nut-lock	A. A. and E. L. Golden	716,218	Dec. 16	3 58	667	101	2507
Nut-lock	P. K. Eversole	716,395	Dec. 23	33 49	741	101	2530
Nut-lock	A. M. Hart	716,708	Dec. 23	4013	879	101	2721
Nut-lock	W. F. Collins	716,886	Dec. 30	4663	1011	101	2874
Nut-lock	J. Waser, Jr.	717,018	Dec. 30	4799	1040	101	2913
Nut-lock	W. E. Ball	717,321	Dec. 30	5294	1151	101	3020
Nut-lock	Z. Frei	717,382	Dec. 30	5399	1174	101	3042
Nut-lock	J. E. Montgomery	717,431	Dec. 30	5590	1193	101	3061
Nut. Lock	L. B. Gray	695,304	Mar. 11	1855	412	98	2118
Nut. Lock	J. L. Alger	701,530	June 8	443	100	99	2199
Nut. Lock	P. J. Wilson	704,162	July 8	1496	321	100	314
Nut. Lock	A. C. Foot	716,988	Dec. 30	4698	1010	101	2910
Nut-lock and key	J. F. Fierke	702,363	June 10	1935	441	99	2532
Nut-lock for rail-joints	C. W. Robinson	705,612	July 29	4457	966	100	963
Nut-lock. Vehicle-axle	C. Schaefer	699,020	Apr. 29	4985	1108	99	1124
Nut-locking device. Axle	M. Conrad	693,111	Feb. 11	1667	363	98	1168
Nut-locking device. Screw	A. Budde	716,860	Dec. 30	4412	956	101	2833
Nut-tapping machine	J. Stephens	691,199	Jan. 14	1549	350	98	338
Nut-tapping machine	M. R. Nolan	695,760	Mar. 18	2646	601	98	2300
Nut-tapping machine	T. Ferry	698,828	Apr. 29	4661	1026	99	1057
Nut. Vehicle-axle	T. H. Tash	703,016	June 24	3195	736	99	2821
Nut. Vehicle-axle lock	W. Beifield, R. Shearer, J. Findlay, and G. Beifield.	710,240	Sept. 30	4359	980	100	2941
Nut-wrench	W. F. Hamilton	695,047	Mar. 11	1870	301	98	2019
Nut-wrench	C. C. Smith	701,952	June 10	1195	272	99	2374
Nut-wrench	A. S. Gray	717,390	Dec. 30	5413	1177	101	3046
Nut-wrench. Adjustable	J. T. Viles	710,382	Sept. 30	4601	1038	100	2990
Nut wrench. Axle	L. H. Brownell	701,144	May 27	3947	908	99	2041
Nut wrench. Axle	R. A. Moody	707,248	Aug. 19	2382	533	100	1640
Nuts, &c. Machine for facing	C. W. James	711,504	June 3	3128	462	101	471
Oar	C. C. McNeill	701,759	June 8	1858	190	99	2288
Oar attachment	M. A. Linder	708,153	Sept. 2	2827	69	100	2041
Oar. Bow-facing	G. B. Shedd	691,080	Jan. 14	1340	303	98	294
Oar. Bow-facing	O. F. Sprague	692,084	Jan. 28	3254	735	98	724
Oar. Bow-facing	R. B. Hanson	706,491	Aug. 5	975	214	100	1313
Oar-lock	C. A. Tansley	695,011	Mar. 11	1299	286	98	2004
Oar-lock	E. M. Martyn	701,758	June 3	1858	190	99	2287
Oar-lock	L. H. Bullard and A. E. Chambers	714,469	Oct. 23	2083	446	101	457
Oar-lock. Folding	J. M. Birtels	713,551	Nov. 11	2115	474	101	1347
Oar-lock guard	H. Ditchburn	709,667	Sept. 23	3223	719	100	2910
Observatory. Balloon	J. Greth	691,719	Jan. 21	2541	569	98	564
Obstetrical tractor	E. D. St. Cyr	713,166	Nov. 11	1334	300	101	1187
Obtundent handpiece. Hot-water	A. F. Merriman, Jr.	712,701	Nov. 4	434	192	101	987
Odor-indicator	D. W. Marion	708,379	Sept. 2	683	151	100	2120
Odor-distributing apparatus	C. T. Bradshaw	712,177	Oct. 28	3445	755	101	760
Office-indicator	W. W. Wilder, Jr.	697,907	Apr. 15	2823	625	99	631
Office-indicator	W. H. Mercer	717,241	Dec. 30	5165	1119	101	2962
Oil and air mixing and gas-generating apparatus	J. Behm	704,732	July 15	2531	547	100	544
Oil and air regulator. Automatic	F. W. Parfitt	694,886	Mar. 4	1058	234	98	1936
Oil and making same. Paint	J. E. Karns	706,581	Aug. 19	1846	255	100	1510
Oil. Apparatus for separating naphtha from	E. R. Edson	704,011	July 8	1184	250	100	251
Oil. Apparatus for separating solvents from	C. Erisman	698,398	Apr. 22	3747	827	99	842
Oil-atomizer	H. P. Morris	700,797	May 27	3305	758	99	1908
Oil-burner	B. G. Devoe and C. W. Dailey	693,502	Feb. 18	2436	532	98	1347
Oil-burner	B. G. Devoe	698,467	Apr. 29	3882	857	99	885
Oil-burner	E. W. Dunn	701,177	May 27	3998	919	99	2052
Oil-burner	A. Johnson	702,408	June 10	1301	296	99	2303
Oil-burner	J. B. Payne	702,377	June 10	1963	448	99	2528
Oil-burner	W. R. Jeavons	702,560	June 17	2312	527	99	2621
Oil-burner	A. H. Fox	703,566	July 1	340	77	100	68
Oil-burner	E. B. Raymond	704,374	July 8	1886	409	100	398
Oil-burner	J. W. Leavelle	705,413	July 22	4013	868	100	862
Oil-burner	J. S. Chenhall	703,529	July 29	4882	1048	100	1062
Oil-burner	W. G. A. Pfeiffer and L. D. Staples	706,341	Aug. 5	676	147	100	1252
Oil-burner	G. W. Arper	708,691	Sept. 9	1246	286	100	2245
Oil-burner	O. Tillman	708,978	Sept. 9	1829	421	100	2368
Oil-burner	E. Stewart	709,370	Sept. 16	2643	593	100	2558
Oil-burner	J. P. Simonsen	709,803	Sept. 23	3491	787	100	2444
Oil-burner	S. M. Trapp	709,941	Sept. 30	3775	852	100	1912
Oil-burner	E. J. Sharp	710,429	Oct. 7	4342	947	101	131
Oil-burner	C. W. Sievert	710,699	Oct. 7	943	207	101	186
Oil-burner	W. E. Chandler	713,397	Nov. 11	1817	408	101	1286
Oil-burner	F. M. Reed and C. R. Umbenhowe	714,112	Nov. 18	3195	706	101	1591
Oil-burner	L. A. Pfeiffer and L. D. Staples	714,394	Nov. 25	3756	828	101	1722
Oil-burner	J. Fisher	715,044	Dec. 2	764	162	101	1991
Oil-burner	G. F. Robertson	715,151	Dec. 2	960	208	101	2093
Oil-burner	F. N. Wilcox	715,227	Dec. 2	1104	236	101	2093
Oil-burner	W. D. Dawson	715,354	Dec. 9	1345	290	101	2130
Oil-burner	E. R. Waterman	715,912	Dec. 16	2434	538	101	2374
Oil-burner	W. S. Jenkins	716,049	Dec. 16	2698	597	101	2432
Oil-burner	C. W. Sievert	716,121	Dec. 16	2855	629	101	2465
Oil-burner	V. F. Lissoe and L. D. Lovekin	716,724	Dec. 23	4089	894	101	2727
Oil-burner asphaltum-collector	G. W. Arper	715,234	Dec. 9	1124	241	101	2083
Oil burner. Crude	G. E. Witt	693,338	Feb. 25	3273	721	98	1536

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Oil burner. Crude.....	H. T. Wilson.....	700,275	May 20	2268	517	99	1676
Oil burner. Crude.....	T. E. Lewis, A. J. Ray, and M. B. Wesson.....	701,902	June 10	1101	252	99	2354
Oil burner. Crude.....	J. A. Landis, W. A. Johnston, and L. W. Bosley.....	703,282	June 24	3687	849	99	2918
Oil burner. Crude.....	J. A. Meyer.....	703,706	July 1	611	136	100	121
Oil burner. Crude.....	H. G. Tucker.....	704,669	July 15	2422	523	100	522
Oil burner. Crude.....	J. B. Seeger.....	710,718	Oct. 7	614	128	101	125
Oil burner. Crude.....	L. S. Flatau.....	713,419	Nov. 11	1846	417	101	1293
Oil burner. Crude.....	M. A. Fesler.....	714,467	Nov. 25	3891	859	101	1748
Oil burner. Crude.....	T. O. Bateman and H. T. Wilson.....	714,995	Dec. 2	695	145	101	1975
Oil burner. Crude.....	D. E. Smith.....	716,549	Dec. 23	4354	950	101	2809
Oil-burner vaporizer, mixer, and regulator	G. E. Larkins.....	697,093	Apr. 8	1355	300	99	807
Oil. Burning	G. L. Badger.....	698,354	Apr. 22	3670	810	99	826
Oil-cake-packing apparatus	A. W. French.....	708,218	Sept. 2	414	95	100	2066
Oil-can	J. Swisher.....	692,080	Jan. 28	3262	737	98	726
Oil-can	W. S. Weir.....	695,512	Mar. 18	2187	494	98	2206
Oil-can	P. Wall and B. W. Moore.....	696,384	Mar. 25	3924	869	98	2575
Oil-can	G. B. Archer.....	699,059	Apr. 29	5052	1117	99	1188
Oil-can	W. J. Paul.....	702,070	June 10	1440	323	99	2422
Oil-can	T. Voita.....	703,862	July 1	896	197	100	180
Oil-can	J. A. Baeuerle.....	705,013	July 22	3157	681	100	689
Oil-cup	B. M. W. Hanson.....	697,082	Apr. 8	1341	297	99	804
Oil-cup	W. E. S. Strong.....	697,109	Apr. 8	1376	305	99	812
Oil-cup	W. E. S. Strong.....	697,110	Apr. 8	1378	305	99	813
Oil-cup	J. B. L. McKenzie.....	702,068	June 10	1436	323	99	2421
Oil-cup. Crank-pin.....	W. G. Montgomery.....	692,186	Jan. 28	3419	774	98	759
Oil-cup. Shaft-bearing	F. E. Bocorselski.....	694,065	Mar. 4	524	114	98	1824
Oil-distributing apparatus for calming waves	N. Salvesen.....	710,013	Sept. 30	3920	885	100	2847
Oil-engine. Hydrocarbon	D. A. Briggs.....	701,140	May 27	3942	907	99	2040
Oil-engine. Internal-combustion	H. F. Wallmann.....	690,542	Jan. 7	332	68	98	72
Oil. Extracting	L. D. Vorce.....	704,993	July 15	3099	668	100	661
Oil. Extracting cotton-seed	G. H. Johnson.....	691,342	Jan. 14	184	98	98	407
Oil-feed cup. Automatic	G. A. Naufts.....	693,734	Feb. 18	2882	694	98	1438
Oil-feeder	L. G. Nilson.....	702,815	June 17	2806	645	99	2724
Oil-feeder. Multiple	A. Winton.....	710,928	Oct. 7	995	219	101	203
Oil-feeder. Water-pressure safety	J. C. Quinn.....	703,824	July 1	833	183	100	166
Oil for calming waves. Means for conveying	C. L. Hillman.....	717,196	Dec. 30	5088	1103	101	2975
Oil from cotton-seed. Extracting	J. McFarlane and D. C. Reinohl.....	695,474	Mar. 18	214	479	99	2182
Oil from fish-livers. Extracting	A. S. Hamilton.....	711,307	Oct. 14	1764	382	101	393
Oil-fuel generator	W. H. Dye.....	705,565	July 29	4367	946	100	945
Oil-heater	S. B. Mors.....	715,836	Dec. 16	2270	505	101	2388
Oil heater. Carbon	L. K. Hosea.....	698,502	Apr. 29	3935	870	99	896
Oil heater, strainer, and separator	E. A. Burrow.....	707,760	Aug. 26	3421	770	100	1870
Oil-heating and heat-regulating device	G. F. Porter.....	713,345	Nov. 11	1716	387	101	1365
Oil-hole cover or cup	C. F. Tucker.....	693,927	Feb. 25	3256	717	98	1531
Oil-hole protector	F. L. Everhardt and H. F. Emme.....	706,839	Aug. 12	1573	352	100	1455
Oil. Obtaining edible vegetable	G. C. Warr and W. T. Wright.....	692,743	Feb. 4	923	-----	98	987
Oil or gasoline can	L. E. and E. H. Morris and C. L. Schmucker.....	701,755	June 3	851	187	99	2286
Oil. Paint.....	H. Zing.....	694,085	Feb. 25	3575	-----	98	1595
Oil. Paint.....	W. E. Dempster.....	706,907	Aug. 12	1755	-----	100	1363
Oil. Producing cotton-seed	C. O. Phillips.....	705,785	July 29	4375	1033	100	1024
Oil-quenching apparatus	M. E. Donally.....	696,014	Mar. 25	3132	707	98	2413
Oil. Refining	E. Rocca.....	699,571	May 6	827	194	99	1346
Oil-refining apparatus	E. Rocca.....	699,572	May 6	829	195	99	1347
Oil-refining apparatus	E. Douillet.....	707,960	Aug. 26	3811	856	100	1947
Oil-retaining box	G. W. Wilmot, N. Maley, and G. T. Brown.....	707,043	Aug. 12	1984	445	100	1538
Oil-sand flooder	A. E. Barnhart.....	692,758	Feb. 4	953	216	98	992
Oil-saver	C. F. Rigby.....	696,747	Apr. 1	669	152	99	143
Oil-separating apparatus	E. M. Thacker.....	711,446	Oct. 14	2009	435	101	433
Oil-separating device	D. J. Lewis, Jr.....	716,561	Dec. 23	3742	815	101	2663
Oil-separator	R. Schulz.....	707,728	Aug. 26	3930	745	100	1852
Oil-spraying apparatus	W. S. Proskoy.....	707,636	Aug. 26	3131	705	100	1812
Oil-tank	J. J. Paquette.....	702,584	June 17	2374	541	99	2634
Oil-vapor engine	G. Wood.....	703,511	July 1	243	56,57	100	50
Oil-yieldable or oil-containing material. Drying	R. N. Edson.....	703,393	July 1	57	11	100	14
Oils and products produced thereby. Effecting the drying of non-drying	E. N. Blakeman, Jr.....	702,172	June 10	1616	-----	99	2458
Oils. Apparatus for separating solvents from	L. D. Vorce.....	704,990	July 15	3102	668	100	661
Oils. Apparatus for the vaporization, combustion, and utilization of hydrocarbon	T. Tomlinson.....	690,486	Jan. 7	218	42,43	98	47
Oils. Extracting	A. F. Lundeborg.....	707,854	Aug. 26	3624	817	100	1909
Oils or the distillates or residuals thereof. Treating mineral	J. S. Stewart-Wallace and W. B. Cowell.....	716,132	Dec. 16	2873	633	101	2469
Oils. Producing varnish	W. A. Smith.....	708,178	Sept. 2	337	-----	100	2050
Oils. Purifying hydrocarbon	F. J. Warren.....	705,168	July 22	3467	-----	100	731
Oils. Refining	F. Linde.....	692,187	Jan. 28	3567	-----	98	748
Oils. Refining	J. N. Harris.....	692,283	Feb. 4	121	28	98	823
Oils. Refining	E. Douillet.....	700,181	May 20	2084	476	99	1637
Oils. Refining asphaltic mineral	J. C. Mims.....	713,475	Nov. 11	1942	499	101	1313
Oil. Car-journal	A. M. Alden.....	697,700	Apr. 15	2461	549	99	552
Oil. Hand	E. Armstrong.....	714,272	Nov. 25	3540	778	101	1681
Oil. Machine or engine	J. B. Walker.....	693,341	Feb. 11	2120	465	98	1262
Oil. Saw	G. J. Kraushaar.....	711,114	Oct. 14	1367	298	101	297
Oiling apparatus. Windmill	W. G. Clements.....	691,338	Jan. 14	1858	419	98	406
Oiling device	S. W. Scott.....	716,292	Dec. 16	8181	696	101	2530
Oiling device	A. O. Wyman.....	708,448	Sept. 2	801	182	100	2143
Oiling device	C. E. Hott.....	713,439	Nov. 11	1677	425	101	1299



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Oiling device. Automatic.	G. W. Thurston	714,337	Nov. 25	3657	806	101	1702
Oiling device. Motor-vehicle.	W. A. Hatcher and J. W. Packard	700,768	May 27	3260	746 747	99	1808
Oiling fiber and making same. Composition for	C. Sella	704,939	July 15	2995	100	642	
Oleaginous compound	C. Adams	709,291	Sept. 16	2473	100	2321	
Olive crusher and pitter	W. L. Morris and E. D. Smith	717,245	Dec. 30	574	101	2394	
Onion-clipping machine	J. S. Taylor	703,099	June 24	3351	171	99	2853
Opera-chair	J. A. Wilkinson	714,547	Nov. 25	4085	893	101	1778
Opera-chair. Folding	A. R. Milner	702,451	June 17	2120	481	99	2582
Opera-glass. Folding	E. Batault	706,512	Aug. 12	1015	224	100	1336
Operator's key	A. Carliss	692,825	Feb. 11	1081	243	98	1045
Ophthalmometer. Refracto-	H. Van Patton	704,150	July 8	1478	317	100	310
Ophthalmoscope	E. B. Meyrowitz	709,790	Sept. 23	3462	780	100	2790
Optical appliance. Electrically-controlled	W. B. Wheeler	709,837	Sept. 23	3548	890	100	2758
Optical instrument	S. A. Rhodes	709,359	Sept. 16	2590	584 585	100	2546
Optical instrument. Educational	G. W. McPatrick	708,792	Sept. 23	3465	780 781	100	3740
Optical instrument for testing the eyes	G. B. Porter	712,719	Nov. 4	471	111	101	996
Optical-instrument guard	P. S. Reid	708,831	Sept. 9	1541	353	100	2308
Optical objective	C. C. Allen	696,788	Apr. 1	746	170	99	159
Optical wire	D. V. Brown	704,778	July 15	2617	566	100	561
Optometer	E. W. Beebe	695,996	Mar. 25	3088	700	98	2404
Optometer	F. A. Hardy	698,833	Apr. 29	4672	1029	99	1060
Optometer	E. Clarke	711,099	Oct. 14	1346	293	101	239
Orange or lemon cleaner	J. T. Haley	703,916	July 1	996	217	100	169
Orchard-heating device	C. Froude	695,343	Mar. 31	1979	441	98	2143
Ordnance	J. Kurig	708,151	Sept. 2	282	67, 68	100	2169
Ordnance	J. Kurig	715,672	Dec. 9	1929	432	101	2947
Ordnance. Breech block and chamber for	C. Holmström	705,841	July 29	4860	1055	100	1043
Ordnance. Breech-loading	J. W. Stockett	705,157	July 22	3445	749	100	747
Ordnance breech mechanism	C. Holmström	708,884	Sept. 9	1647	378	100	2331
Ordnance. Device for the prevention of erosion in.	H. Maxim	707,135	Aug. 19	2158	485	100	1592
Ordnance disabling-lock	C. A. Secane	716,946	Dec. 30	4565	991	101	2893
Ordnance. Elevating and sight-adjusting gear for.	H. H. Grenfell	693,702	Feb. 18	2825	621 622	98	1426
Ordnance. Firing attachment for breech-loading	J. W. Stockett	699,256	May 6	234	55	99	1222
Ordnance firing-gear	K. Deinlein	704,806	July 15	2793	603	100	598
Ordnance. Firing-pin arrangement for breech-loading	G. Ehrhardt	709,701	Sept. 23	3282	735	100	2702
Ordnance-loading apparatus	R. T. Brankston	704,955	July 15	3029	650	100	649
Ordnance. Means for positioning and firing heavy.	T. M. Foote	691,254	Jan. 14	1648	376 377	98	359
Ordnance. Obturator for breech-loading	A. T. Dawson and G. T. Buckham	695,799	Mar. 18	2729	622	98	2316
Ordnance-primer	C. von Görtz	694,265	Feb. 25	3911	868	98	1662
Ordnance ramming apparatus	A. T. Dawson and J. Horne	708,870	Sept. 9	1618	370 372	100	2326
Ordnance recoil apparatus	K. Deinlein	701,801	June 3	924	206	99	2302
Ordnance recoil-check	G. A. Loeban	715,278	Dec. 9	1195	254	101	2099
Ordnance. Semi-automatic breech-loading	W. H. Bevans	708,375	July 1	21	5	100	7
Ordnance-sight	L. K. Scott	712,420	Oct. 28	3886	851 852	101	854
Ore-bin	G. H. Hulet	705,761	July 29	4727	1023	100	1015
Ore-breaker	A. C. Calkins	707,385	Aug. 19	2640	596	100	1694
Ore bucket, dumper, and chute	L. Collier	700,741	May 27	3194	728	99	1883
Ore-classifier	J. Klein	696,739	Apr. 1	632	147	99	140
Ore concentrating and dredging apparatus	A. B. Stetson	714,755	Dec. 2	196	39, 40	101	1877
Ore-concentrating machine	W. McDermott and F. E. Elmore	695,695	Mar. 18	2544	575 576	98	2378
Ore-concentrating table	I. A. Cammett	713,747	Nov. 18	2484	538	101	1441
Ore-concentrating table	W. G. Dodd	716,205	Dec. 16	3082	662	101	2502
Ore-concentrator	W. G. Dodd	694,005	Feb. 25	3425	754	98	1565
Ore-concentrator	W. Thurmond	694,444	Mar. 4	205	45	98	1756
Ore-concentrator	L. Look	695,064	Mar. 11	1897	307 308	98	2025
Ore-concentrator	A. H. Stebbins	696,604	Apr. 1	377	89	99	83
Ore-concentrator	A. H. Stebbins	696,605	Apr. 1	380	89, 90	99	84
Ore-concentrator	A. H. Stebbins	696,606	Apr. 1	384	90	99	84
Ore-concentrator	C. M. Kimball	698,293	Apr. 22	3572	788	99	1001
Ore-concentrator	W. G. Dodd	701,859	June 10	1028	229	99	2338
Ore-concentrator	L. Cohen and J. Gross	702,541	June 17	2282	519	99	2615
Ore-concentrator	H. S. Bailey and W. E. Wild	706,793	Aug. 12	1542	345 346	100	1447
Ore-concentrator	L. Look	711,903	Oct. 21	2904	641	101	636
Ore-concentrator	G. E. Woodbury	715,328	Dec. 9	1296	278	101	2121
Ore-concentrator. Dry	R. E. and E. Waugh	703,356	June 24	3838	879 880 881	99	2949
Ore-concentrator. Dry	H. M. Sutton, W. L. and E. G. Steele	714,257	Nov. 25	3507	771 772	101	1672
Ore-conveying surface for electrical separators	H. M. Sutton, W. L. and E. G. Steele	714,649	Nov. 25	4224	934	101	1816
Ore-crusher	E. E. Hanna	691,135	Jan. 14	1429	324	98	312
Ore-crusher	A. C. Calkins	697,802	Apr. 15	2647	386 387	99	594
Ore-crusher	R. H. Aiken	701,001	May 27	3678	844	99	1981
Ore crusher and pulverizer	A. J. Pette	703,401	July 1	160	37	100	34
Ore crushing and pulverizing machinery	A. M. Bean	691,582	Jan. 21	2288	514	98	511
Ore-crushing machine	C. C. Lane	709,822	Sept. 23	3528	795	100	2753
Ore-elevator	H. A. Vezin	702,892	June 17	2947	679	99	2753
Ore-furnace	W. A. Kōneman	712,812	Nov. 4	653	151 152	101	1031

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Ore-grading apparatus .....	F. W. Wood .....	711,650	Oct. 21	2403	529	101	530
Ore-leaching apparatus .....	J. Brown .....	709,135	Sept. 16	2160	530	100	2456
Ore-lixiviating apparatus .....	P. Naef .....	700,972	May 27	3620	495	99	1970
Ore-mixing machine .....	J. P. Schuch, Jr. ....	713,694	Nov. 18	2389	533	101	1418
Ore or pulp sampler .....	W. G. Dodd .....	693,690	Feb. 18	2808	617	98	1423
Ore-pocket .....	F. K. Hoover and A. J. Mason .....	702,731	June 17	2543	608	99	2690
Ore-pulp distributor .....	F. W. Sherman .....	695,654	Mar. 18	2479	562	98	2266
Ore-roaster .....	J. L. Hopper .....	702,004	June 10	1296	296	99	2392
Ore-roaster. Gravimetric .....	J. A. Ogden .....	691,868	Jan. 28	2848	641	98	645
Ore roasting and cooling apparatus .....	W. C. Davis .....	700,135	May 13	1951	449	99	1586
Ore-roasting and fume-saving apparatus. Com- bined .....	W. H. Motter .....	708,977	Sept. 9	1827	421	100	2367
Ore-roasting apparatus .....	A. M. Beam .....	708,615	Sept. 9	1102	217	100	2215
Ore-roasting apparatus .....	W. F. Collins .....	714,099	Nov. 18	3174	702	101	1586
Ore-roasting furnace .....	J. P. Cappeau .....	691,112	Jan. 14	1386	315	98	303
Ore-roasting furnace .....	T. D. Merton .....	697,863	Apr. 15	2761	316	99	619
Ore-roasting furnace .....	D. C. Jackling .....	706,756	Aug. 12	1471	325	100	1433
Ore-roasting furnace .....	T. Edwards .....	714,464	Nov. 25	3885	857	101	1748
Ore-roasting furnace .....	A. C. Johnson .....	715,080	Dec. 2	837	758	101	2007
Ore-roasting furnace. Revolving .....	P. Naef .....	711,338	Oct. 14	1821	395	101	394
Ore-sampler .....	C. R. Foster and W. Coolidge .....	694,734	Mar. 4	767	117	98	1973
Ore-sampler .....	S. E. Bretherton .....	704,853	July 15	2769	598	100	593
Ore-separating apparatus .....	B. C. Cook .....	706,163	Aug. 5	316	67	100	1181
Ore-separating machine .....	J. C. Hoefler .....	693,709	Feb. 18	2839	625	98	1428
Ore-separator .....	J. J. Snider .....	691,819	Jan. 28	2766	623	98	627
Ore-separator .....	J. M. McClave, F. H. Kirby, and E. R. Cumbe. ....	697,351	Apr. 8	1788	401	99	400
Ore-separator .....	F. R. Waters .....	700,711	May 20	3119	709	99	1852
Ore-separator .....	F. C. O'Brien .....	702,990	June 24	3152	725	99	2812
Ore-separator .....	C. C. Pratt .....	703,054	June 24	3331	767	99	2847
Ore-separator .....	A. H. Stebbins .....	711,015	Oct. 14	1165	258	101	256
Ore-separator .....	A. H. Stebbins .....	711,016	Oct. 14	1169	258	101	257
Ore separator and classifier .....	C. Culver .....	701,851	June 10	1013	226	99	2336
Ore-separator. Magnetic .....	J. W. Carter .....	702,184	June 10	1634	366	99	2462
Ore slimes. Treatment of .....	H. L. Sulman and H. F. Kirkpat- rick-Picard. ....	708,504	Sept. 2	910	206	100	2166
Ore storage and delivery bin .....	J. W. Seaver .....	716,769	Dec. 23	4122	904	101	2745
Ore-testing tablet .....	H. E. Way .....	704,409	July 8	1942	400	100	409
Ore-treating apparatus .....	A. M. Dorr and J. Spang .....	699,457	May 6	634	144	99	1307
Ore-treating apparatus .....	S. T. Muffy .....	710,495	Oct. 7	181	39	101	38
Ore washer and separator .....	J. M. Longan .....	705,104	July 22	3340	725	100	726
Ores and by-products containing sulfur and iron. Treating .....	A. W. Chase .....	709,745	Sept. 23	3377	758	100	2720
Ores. Apparatus for concentrating magnetic iron. Ores. Apparatus for the treatment of .....	T. A. Edison .....	704,010	July 8	1180	257	100	250
Ores by the cyanid process. Means for working .....	E. L. Sharpneck .....	697,178	Apr. 8	1491	333	99	336
Ores containing precious metals. Treatment of .....	F. D. Wood .....	701,239	May 27	4110	946	99	2073
Ores containing silica or silicates. Treating .....	F. W. Martino .....	716,847	Dec. 23	4380	.....	101	2809
Ores. Electrolytically treating .....	G. Guiraud .....	702,943	June 24	3058	.....	99	2791
Ores for blast-furnaces. Treating fine iron .....	C. E. Dolbear .....	709,817	Sept. 23	3519	.....	100	2751
Ores. Magnetically and statically treating .....	A. D. Elbers .....	708,331	Sept. 2	616	.....	100	2107
Ores or slimes. Apparatus for the electrolytical treatment of .....	H. M. Sutton, W. L. and E. G. Steele F. T. Mumford .....	714,256 706,436	Nov. 25 Aug. 5	3502 887	771 101	101	1672 1294
Ores preparatory to smelting. Desulfurizing of sulfid .....	A. D. Carmichael .....	705,904	July 29	4974	.....	100	1067
Ores. Reducing .....	H. Niewerth .....	692,539	Feb. 4	574	134	98	915
Ores. Reducing carbonaceous .....	R. McKnight .....	693,982	Feb. 25	3381	743	98	1556
Ores. Separating .....	O. Frölich, M. Huth, and A. Edel- mann .....	692,008	Jan. 28	3093	.....	98	694
Ores. Separation of the constituents of complex sulfid .....	M. M. Hafl .....	695,306	Mar. 11	1857	.....	98	2118
Ores. Treating .....	E. B. Parnell .....	693,148	Feb. 11	1745	.....	98	1182
Ores, &c. Treating .....	J. A. Potter .....	693,313	Feb. 11	2064	451	98	1249
Ores. Treating .....	R. McKnight .....	696,469	Apr. 1	141	.....	99	35
Ores. Treating .....	A. M. Dorr and J. Spang .....	699,456	May 6	631	144	99	1306
Ores. Treating .....	A. D. Miller .....	700,530	May 20	2780	635	99	1779
Ores. Treating .....	C. J. Best .....	701,134	May 27	3394	905	99	2037
Ores. Treating .....	J. Herman .....	707,107	Aug. 19	2123	.....	100	1585
Ores. Treating .....	S. T. Muffy .....	710,496	Oct. 7	184	39.40	101	39
Ores. Treating mixed sulfid .....	E. Ferraris .....	707,596	Aug. 19	2832	.....	100	1738
Ores. Treatment of complex and refractory .....	F. Ellershausen .....	700,311	May 20	2961	.....	99	1692
Organ .....	L. D. Hickman .....	690,726	Jan. 7	711	157	98	150
Organ .....	C. Stollwerck .....	691,501	Jan. 21	2151	482	98	484
Organ .....	W. E. and C. S. Haskell .....	708,765	Sept. 9	1391	318	100	2277



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Invention.	Name	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Organ .....	H. C. Fletcher .....	713,084	Nov. 11	1170	269 390 391 392 393	101	1158
Organ. Automatically-operated reed and pipe .....	J. W. Crooks .....	697,327	Apr. 8	1750	581 441 411	99	392
Organ-pipe. Compensating .....	J. A. and W. McIntosh .....	709,349	Sept. 16	2577	581 441 411	100	2543
Organ. Reed .....	P. C. Preston .....	715,693	Dec. 9	1965	581 441 411	101	2255
Organs. Apparatus for controlling the wind supply and pressure in .....	J. R. C. Gale .....	691,900	Jan. 28	2905	554	98	656
Organs. Motor for self-playing .....	C. Warren .....	716,499	Dec. 23	3603	787 788	101	2635
Organs. Subbass for self-playing .....	C. Warren .....	716,498	Dec. 23	3602	787	101	2634
Organs, &c. Treadle for .....	J. Wieser .....	711,190	Oct. 14	1538	380	101	335
Organic peroxid. Making .....	R. H. Page .....	717,016	Dec. 30	4718	881	101	2895
Organic peroxids. Making .....	R. H. Page .....	710,035	Sept. 30	3738	881	101	2843
Ornamental and advertising articles. Making .....	W. Schanz .....	692,549	Feb. 4	589	98	918	
Ornamental structures. Device for forming .....	L. B. Christopherson .....	691,598	Jan. 21	2320	532	98	518
Ornamenting. Method of .....	G. W. Blair and F. O. Horn .....	697,602	Apr. 15	2271	99	514	
Ornamenting surfaces .....	J. P. Rudolph .....	708,498	Sept. 2	898	203	100	2164
Ortho-sulfonated toluylc aldehyde and making same .....	J. Koetschel .....	709,159	Sept. 16	2220	100	2467	
Orthotoluenesulfochlorid. Separating .....	A. Baur .....	698,598	Feb. 4	679	98	987	
Outlet-box .....	E. W. Müller .....	714,600	Nov. 25	4131	914	101	1708
Outlet-box. Interior-conduit .....	W. F. Bossert .....	701,137	May 27	3938	906	99	2039
Outlet or junction-box .....	M. F. Whiton .....	715,917	Dec. 16	2451	540	101	2379
Oval-cutting machine .....	W. H. Forker .....	705,576	July 29	4385	950 951	100	948
Oven .....	N. F. Hoffman .....	698,500	Apr. 23	3933	869	99	896
Oven .....	F. Rademacher .....	699,712	May 13	1121	263	99	1419
Oven .....	H. Henry .....	704,335	July 8	1738	391	101	375
Oven .....	H. S. Welker .....	711,029	Oct. 14	1201	264	101	264
Oven attachment .....	D. M. Wallace .....	714,537	Nov. 25	4021	890	101	1776
Oven. Bake .....	W. Clauss .....	700,018	May 13	1711	394	99	1540
Oven. Bake .....	C. Kleinknecht .....	714,491	Nov. 25	3924	869	101	1755
Oven. Baker's .....	G. F. Smith .....	706,351	Aug. 5	685	152	100	1256
Oven. Baker's .....	C. E. Glafke .....	708,975	Sept. 9	1824	420	100	2366
Oven burner. Baking .....	G. W. Graves .....	698,010	Apr. 22	3029	665	99	692
Oven-door .....	F. H. Van Houten .....	694,700	Mar. 4	700	153	98	1859
Oven door. Baker's .....	T. Kleinhaus .....	717,217	Dec. 30	5124	1111	101	2984
Oven-furnace hood. Baker's .....	F. E. Thomas .....	691,674	Jan. 21	2465	552	98	548
Oven illuminating device. Baker's .....	A. Bärenz .....	711,931	Oct. 28	2976	655	101	670
Oven illuminator. Baker's .....	J. Faulds .....	698,385	Feb. 18	2210	485	98	1360
Oven. Knockdown .....	W. H. Dahman .....	704,300	July 8	1738	380	100	365
Oven. Oil-heated .....	C. H. Higgins .....	716,230	Dec. 16	3078	671 672	101	2511
Oven or furnace .....	J. W. Lewellen .....	710,284	Sept. 30	4432	999	100	2957
Oven. Portable .....	J. R. Carter .....	711,285	Oct. 14	1714	370	101	371
Oven. Portable bake .....	J. Nestor .....	704,660	July 15	2466	520	100	519
Oven. Rotary bake .....	F. H. Van Houten .....	707,182	Aug. 19	2278	100	1619	
Oven-swab .....	G. W. Treichel .....	705,979	July 29	5108	1114	100	1034
Overalls .....	S. Klavinsky .....	693,276	Feb. 11	2003	435	98	1236
Overalls .....	R. S. Breckenridge .....	699,485	May 6	679	158	99	1317
Overalls .....	L. A. Guiterman .....	717,392	Dec. 30	5415	1177	101	3046
Overflow-alarm .....	A. Nicolet .....	693,425	Feb. 18	2288	501	98	1316
Overhead-carrier support .....	T. Alexander .....	702,907	June 24	2080	696	99	2778
Overhead switch .....	W. L. Clark .....	695,277	Mar. 11	1788	397 398	99	2106
Overseaming-machine. Blind-stitch .....	B. W. Tucker .....	705,486	July 22	4144	901 902	100	887
Overshoe .....	H. A. Hamilton and F. H. Crawford .....	708,547	Sept. 9	983	222	100	2192
Overshoe-fastener .....	E. H. King .....	699,800	May 13	1298	301	99	1455
Owner of lost articles, &c. Ascertaining the .....	C. Geizemüller .....	711,393	Oct. 14	1914	416	101	1707
Oxalates. Making .....	A. Wiens .....	714,347	Nov. 25	3678	987	101	414
Oxidizing apparatus .....	A. N. Dubois .....	701,860	June 10	1030	230	99	2339
Oxidizing apparatus .....	A. N. Dubois .....	708,874	Sept. 9	1626	374	100	2327
Oxidizing-furnace .....	J. E. Greenawalt .....	717,093	Dec. 30	4855	1052	101	2925
Oxygen-generating retort .....	F. B. Felt .....	702,855	June 17	2876	664 665	99	2739
Oxygen. Producing pure .....	C. Charlopin .....	713,602	Nov. 18	2222	493 494	101	1384
Oyster-opening tool .....	S. Blagden .....	708,014	Sept. 2	24	6	100	1986
Oyster-shucking or oyster-opening knife .....	R. H. Cooley and H. W. Bishop .....	715,988	Dec. 16	2583	571	101	2407
Oyster-tongs .....	M. Lawrence .....	702,104	June 10	1487	335	99	2431
Oyster-tongs .....	C. K. and W. T. Shaw .....	711,351	Oct. 14	1842	401	101	399
Oyster-trimming machine .....	E. W. Johnston .....	690,182	May 18	289	35	99	1195
Oysters. Hammer and rake for culling .....	J. W. Russell .....	695,651	Mar. 18	2472	561	98	2267
Ozonizer for wounds, &c .....	R. F. W. Smith .....	695,657	Mar. 18	2481	563	98	2267
Ozonizing apparatus .....	A. Vosmaer .....	709,427	Sept. 16	2744	617	100	2378
Package .....	C. S. Bird and J. B. Hanscom .....	694,304	Feb. 25	3973	885	98	1676
Package .....	C. A. Lindsay .....	697,503	Apr. 15	2093	464	99	479
Package .....	E. H. Davis .....	708,696	Sept. 9	1254	286	100	2246
Package .....	W. D. Bache .....	713,933	Nov. 25	3336	624	99	1519
Package-carrier .....	O. M. Gould .....	698,933	Apr. 29	4843	1069	99	1065
Package-carrier .....	W. S. Gilmore .....	700,323	May 20	2382	543	99	1696
Package-carrier .....	O. M. Pond .....	704,368	July 8	1876	406	100	896
Package-carrier .....	E. J. Stewart .....	709,936	Sept. 30	3767	851	100	2814
Package-carrying device .....	S. de Pless Pol .....	705,439	July 22	4058	880	100	872
Package fastener and seal .....	W. S. Armstrong .....	698,619	Apr. 29	4186	924	99	946
Package-feeding attachment. Automatic .....	A. Stearns .....	696,111	Mar. 25	3336	624	99	1519
Package for fragile articles .....	H. C. Lord .....	702,807	June 17	2704	642	99	2721
Package for grain products .....	T. F. Wales .....	701,970	June 10	1227	279	99	2380
Package for lobsters, &c .....	A. C. McLoon .....	704,563	July 15	2253	488	100	486

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Package for tooth-powder, &c.	M. H. Fletcher	693,350	Feb. 11	2140	470	98	1266
Package. Shipping.	J. T. Ferres	695,201	Mar. 11	1648	366	98	2078
Package. Shipping.	J. T. Ferres	697,463	Apr. 15	2026	447	99	465
Package. Shipping.	G. F. Sanberg	699,417	May 6	557	127	99	1280
Package. Shipping.	F. W. Collins	701,345	June 10	1004	224	99	2335
Package-tie	J. A. Thomas	703,018	June 24	3199	737	99	2832
Packaging-machine	W. H. Doble	708,627	Sept. 9	1122	252	100	2220
Packaging-machine	W. H. Doble	714,875	Dec. 2	477	100	101	1932
Packaging-machine	W. H. Doble	716,007	Dec. 16	2623	577	101	2416
Packing.	F. Brown	696,544	Apr. 1	274	63	99	62
Packing.	P. J. Flinn	711,761	Oct. 21	2635	579	101	580
Packing.	E. L. Clark	713,964	Nov. 18	2912	647	101	1530
Packing and displaying box. Combined	W. Schrader	701,401	June 3	209	46	99	2150
Packing-box.	M. Herz	694,575	Feb. 25	3923	872	98	1665
Packing-box. Equable safety	J. A. Keller	695,688	Mar. 18	2530	573	98	2275
Packing-box. Garment.	C. R. Murphy	692,534	Feb. 4	567	133	98	913
Packing-box. Knockdown	J. F. Reul	710,715	Oct. 7	604	137	101	124
Packing-box. Safety.	J. A. Keller	698,652	Feb. 18	2730	602	98	1407
Packing-case.	G. W. Peck	701,384	June 3	182	39	99	2145
Packing-case.	C. L. Shelton	712,100	Oct. 28	3303	724	101	732
Packing case or box.	C. Thiebaut	707,183	Aug. 19	2269	507	100	1616
Packing compound for eggs, &c.	J. M. Stukes	691,418	Jan. 21	1935	38	98	450
Packing device.	G. Thom	699,775	May 13	1251	290	99	1444
Packing device. Metallic.	F. A. Irons	701,730	June 3	815	180	99	2278
Packing device. Piston-rod	T. G. Saxton	691,813	Jan. 28	2756	621	98	625
Packing for piston-rods. Metallic.	C. Longstreth and C. W. G. King	694,764	Mar. 4	826	183	98	1886
Packing for piston-rods. Metallic.	F. E. Small	715,616	Dec. 9	1825	405	101	2225
Packing-gasket.	J. J. and A. Schier	697,546	Apr. 15	2170	481	99	492
Packing-gasket.	J. J. and A. Schier. (Reissue)	12,066	Dec. 23	4288	931	101	2810
Packing granular material. Mechanism for.	E. L. Bracy	691,930	Jan. 28	2954	665	98	666
Packing-holder for piston-rods	A. E. Macindoe	706,976	Aug. 12	1866	417	100	1514
Packing-machine	C. O. Ericson	691,537	Jan. 21	2209	496	98	495
Packing-machine	I. Lázaga	710,474	Oct. 7	137	31,32	101	30
Packing. Machine for cutting material into strips for the manufacture of piston-	H. Doods	691,612	Jan. 21	2351	528	98	523
Packing. Machine for forming ring-	O. J. Garlock	695,005	Mar. 18	2387	540	98	2248
Packing machine. Merchandise.	R. L. Patterson	700,366	May 20	2458	563	99	1713
Packing mechanism	O. Tyberg	708,682	Sept. 9	1223	565	100	2240
Packing mechanism	O. Tyberg	708,787	Sept. 9	1428	328	100	2286
Packing. Metallic.	J. C. Miller	693,046	Feb. 11	1524	382	98	1140
Packing. Metallic.	D. F. Stayman	700,988	May 27	3648	838	99	1975
Packing. Metallic.	A. J. Zwart	706,290	Aug. 5	579	125	100	1233
Packing. Metallic.	T. Smith	708,268	Sept. 2	501	115	100	2083
Packing. Metallic piston and valve rod	A. J. Cunningham	711,478	Oct. 21	2078	419	101	461
Packing. Metallic rod.	R. C. Lochridge and A. P. Farris	717,098	Dec. 30	4704	1020	101	2892
Packing or displaying articles.	E. H. Schmidt	693,450	Feb. 18	2340	511	98	1327
Packing or gasket	F. W. Roller	695,174	Mar. 11	1608	356	98	2069
Packing. Piston.	M. Montgomery	716,737	Dec. 23	4058	889	101	2731
Packing. Piston-rod	R. F. Vivian	711,066	Oct. 14	1387	287	99	2388
Packing. Piston-rod	J. Neptune	711,117	Oct. 14	1370	398	101	298
Packing. Piston-rod	A. B. Kay	713,109	Nov. 11	1223	280	101	1166
Packing. Piston-rod.	W. S. Jarboe	715,664	Dec. 9	1915	427	101	2244
Packing. Piston-rod or other similar	N. O. Cronwall	695,195	Mar. 11	1640	364	98	2076
Packing. Plastic homogeneous	C. H. Jaeger	711,866	Oct. 21	2831	626	101	622
Packing powdery substances.	A. Wultze	704,728	July 15	2527	546	100	543
Packing. Pressure-piston.	A. Scholl	700,894	May 27	3880	776	100	1982
Packing pulverulent and mastic substances. Machine for	V. G. Apple	715,336	Dec. 9	1314	281	101	2124
Packing-ring.	T. Officer	704,568	July 15	2261	489	100	488
Packing-ring.	H. Kirschning	707,930	Aug. 26	3763	844	100	1938
Packing-rings. Automatic machine for making	E. G. Newell	693,886	Feb. 25	3174	701	98	1515
Packing. Rod.	T. H. Butler and O. Hammond	691,893	Jan. 28	2906	652	98	654
Packing. Rod.	T. W. Mitchell	702,578	June 17	2361	539	99	2631
Packing. Rod.	S. Uldast	704,598	July 15	2307	501	100	497
Packing. Rod.	A. B. Pratt	710,337	Sept. 30	4521	1019	100	2975
Packing. Rod.	A. B. Elliott	712,512	Nov. 4	88	22	101	915
Packing. Rod.	O. J. Garlock	716,836	Dec. 23	4360	945	101	2804
Packing sliding gate-valves. Device for	L. Hirt	703,383	July 1	368	85	100	73
Packing structure. Cellular	H. H. Higham	707,415	Aug. 19	2701	611	100	1706
Packing. Stuffing-box	J. C. A. Plett	696,390	Apr. 1	351	83	99	78
Packing. Stuffing-box	W. Reinhold	708,469	July 1	169	39	100	36
Packing. Stuffing-box	P. Redford	709,511	Sept. 23	2955	660	100	2335
Packing sweepers, &c. Device for	T. H. Bedell	695,436	Mar. 18	2054	462	98	2180
Packing-tube. Rolling	A. Sharp	691,190	Jan. 14	1531	345	98	334
Pad:							
See Cheek-expanding pad.	Hoof-pad.						
Cleaning and wax-ing pad.	Horseshoe-pad.						
Collar sweat-pad.	Inking-pad.						
Corn-pad.	Saddle-pad.						
Gun recoil-pad.	Shirt-bosom pad.						
	Stair-pad.						
	Writing or copying pad.						
Paddle-wheel.	H. Glardon	697,712	Apr. 15	2483	554	99	557
Paddle-wheel.	F. Exline	704,477	July 8	2076	450	100	437



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Paddle-wheel.	F. Exline	704,478	July 8	2079	451	100	437
Paddle-wheel.	J. J. Graham	705,397	July 22	3980	862	100	554
Paddle-wheel. Feathering.	J. M. Borkel	701,595	June 3	571	135	99	2237
Paddle-wheel for propelling ships. Horizontal.	V. Berg	696,466	Apr. 1	508	117	99	110
Padlock.	H. G. Voight	694,703	Mar. 4	704	154	98	1860
Padlock.	J. J. Cotter	694,837	Mar. 4	954	212	98	1915
Padlock.	F. Soley	695,345	Mar. 11	1910	425	98	2130
Padlock.	F. Soley	695,346	Mar. 11	1911	426	98	2130
Padlock.	F. Soley	695,347	Mar. 11	1913	426	98	2130
Padlock.	J. M. Cole	699,349	May 6	105	99	1368	
Padlock.	W. Berg	704,269	July 8	1683	367	100	353
Padlock.	H. A. Smith	710,732	Oct. 7	618	129	101	126
Padlock for securing coats, &c., to wardrobe-hooks.	L. Hülzer and R. Kemper.	695,458	Mar. 18	2099	473	98	2189
Padlock. Permutation.	D. R. Coughlen	707,676	Aug. 26	3222	723	100	1831
Padlock. Permutation.	I. Williams	711,608	Oct. 21	2332	510	101	514
Padlock. Permutation.	A. Nadeau	712,084	Oct. 28	3280	719	101	728
Pail.	F. J. Garvey	701,706	June 3	767	171	99	2270
Pail.	C. L. Wilson	711,848	Oct. 21	2323	622	101	597
Pail and cooker. Combined dinner.	J. T. Bluff	714,633	Nov. 25	4201	928	101	1811
Pail and heater. Dinner.	J. H. Ablett	704,492	July 15	2111	457	100	457
Pail and lantern. Combined dinner.	W. Williams	691,036	Jan. 14	1269	287	98	240
Pail attachment. Milk.	M. F. Potter	708,582	Sept. 9	1041	235	100	2203
Pail-bottom. Metallic.	K. E. Lisk	702,975	June 24	3130	719	99	2808
Pail-bottom. Milk.	C. S. Crow	708,551	July 1	817	72	100	64
Pail burner attachment. Dinner.	S. H. Gartrell	690,519	Jan. 7	301	66	98	66
Pail. Dinner.	H. C. Atkinson	696,790	Apr. 1	750	170	99	160
Pail-filling and indicating device.	J. H. Wilson	710,230	Sept. 30	4342	976	100	2938
Pail-hook.	C. W. Mitchell	709,919	Sept. 30	3735	841	100	2869
Pail lantern attachment. Dinner.	J. M. Pratt and J. B. Polly	710,888	Oct. 7	926	203	101	188
Pail. Lunch.	P. Quarelli	691,662	Jan. 21	2437	548	98	543
Pail. Milk.	S. Bruckmann	705,642	July 29	4498	976	100	970
Pail. Milk.	J. H. King	705,678	July 29	4574	993	100	986
Pail. Milk.	J. B. Locke	716,256	Dec. 16	3125	684	101	2520
Pail. Minnow.	W. J. E. Koch	713,890	Nov. 18	2765	614	101	1500
Pail. Nestable.	F. G. O. Ehle	699,462	May 6	642	148	99	1308
Pail or package lining.	J. A. McBride	714,320	Nov. 25	3631	800	101	1697
Pail. Slop.	R. Logan	706,471	Aug. 12	1859	416	100	1532
Pail supporter. Milk.	A. J. Morrill and L. W. Northfield	700,220	May 20	2157	494	99	1651
Pail. Wash.	F. E. Libenow	704,481	July 8	2067	453	100	439
Paint.	C. M. Hall	701,718	June 3	787	99	2272	
Paint.	T. L. Lee	701,743	June 3	835	99	2283	
Paint.	G. W. and A. J. Doore.	704,959	July 15	3041	100	650	
Paint.	W. Lennard-Foote	705,938	July 29	5038	100	1079	
Paint.	J. C. W. J. and R. E. Shaw	706,129	Aug. 5	215	100	1592	
Paint.	F. C. Crass	707,677	Aug. 26	3223	724	100	1831
Paint.	W. W. Brasington	713,846	Nov. 18	2666	611	101	1473
Paint and varnish and making same. Composition for removing.	C. Ellis	714,880	Dec. 2	491	101	1934	
Paint. Antifouling.	T. H. Denney	715,763	Dec. 16	2116	101	2307	
Paint compound or mixture.	W. N. Blakeman, Jr.	702,176	June 10	1633	99	2460	
Paint-dip for wheels.	J. H. Wilson	695,946	Mar. 25	3069	696	98	2460
Paint-dipping tank.	F. E. Utton	696,280	Mar. 25	3070	821	98	2524
Paint-drier.	D. J. Ogilvy	699,555	May 6	603	99	1341	
Paint. Making.	D. J. Ogilvy	701,378	June 3	171	99	2143	
Paint or varnish. Composition for removing.	F. Priestman	705,139	July 22	3420	100	742	
Paints. Manufacturing.	W. N. Blakeman, Jr.	702,175	June 10	1621	99	2459	
Painter's tool.	G. Henderson	705,349	July 22	3902	844	100	838
Painting apparatus.	E. Grill	696,331	Mar. 25	3797	846	98	2552
Painting apparatus.	C. L. Bauer	703,370	July 1	11	3	100	5
Painting apparatus.	H. D. Carryl.	703,385	July 1	40	8	100	10
Painting machine. Can.	A. T. Shortley and D. O. Thompson.	692,079	Jan. 28	3243	733	98	722
Painting metal furniture. Drip-pan for.	H. E. Cromie.	707,087	Aug. 19	2080	465	100	1575
Palette.	W. A. Sussmlich	716,140	Dec. 16	2889	625	101	2471
Pan:							
See Ash-pan.	Evaporating-pan.						
Bake-pan.	Extensible pan.						
Baking-pan.	Roasting-pan.						
Bathing-pan.	Saucepan.						
Cake-pan.	Soot or ash pan.						
Dust-pan.	Vacuum-pan.						
Pan-lifter.	F. Lombard	703,432	July 1	118	26, 27	100	26
Pan-lifter. Automatic.	T. T. Smith	695,502	Mar. 18	2172	490	98	2203
Pans, kettles, &c. Scraper for.	J. W. Crawford.	710,955	Oct. 14	1050	233	101	230
Pancreas preparation and producing same.	W. Weber	695,254	Mar. 11	1753	98	2008	
Panel-board. Electrical.	H. Krantz	705,850	July 29	4882	1061	100	1048
Panel, lining, ceiling, and floor for buildings, &c., and paving for streets. Wooden.	W. T. Crosse	705,737	July 29	4690	1014	100	1008
Panel-raiser.	L. S. Depoe	702,711	June 17	2610	691	99	2983
Paneled member for sheet-metal structures.	P. M. Wege	716,154	Dec. 16	2913	641	101	2476
Pants or overalls.	H. S. Lanier	694,556	Mar. 4	431	93	98	1804
Paper.	C. S. Bird	696,131	Mar. 25	3372	761	98	2466
Paper and making same. Testing.	K. Dieterich	691,249	Jan. 14	1636	98	356	
Paper bag.	N. Laird	708,234	Sept. 2	440	100	100	2071
Paper-bag-delivery device.	D. Appel	700,732	May 27	3146	715	99	1874
Paper-bag fastener.	S. S. Smith	707,020	Aug. 12	1361	440	100	1534
Paper-bag holder.	F. M. Thorpe	713,178	Nov. 11	1358	305	101	1192
Paper-bag machine.	G. C. Nelson	691,705	Jan. 28	2719	611	98	618
Paper-bag machine.	D. Appel.	699,639	May 13	983	229	99	1392
Paper-bag machine.	W. I. Baldwin and E. A. Kline	703,635	July 1	468	107	100	192

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Paper-bag machine	H. E. Westervelt	709,129	Sept. 16	2146	492	100	2452
Paper-bag machine	J. West	711,369	Oct. 14	1872	493	101	405
Paper-bag machine	D. Appel	712,633	Nov. 4	324	498	101	965
Paper-bag machine	C. E. Dulin	715,360	Dec. 9	1354	499	101	2132
Paper-bag machine	W. Brown	716,859	Dec. 30	4410	492	101	2832
Paper-bag-making appliance	D. Appel	700,467	May 20	2656	496	99	1733
Paper-bag-making machine	C. F. Kellner	704,807	July 15	2689	608	100	575
Paper bags. Making	D. Appel	708,001	Sept. 2	1	582	100	1981
Paper band	C. W. Williams	698,886	Apr. 29	4772	1	99	1080
Paper basket	J. F. Donley	717,362	Dec. 30	5369	1049	99	3036
Paper-blank feeding and scoring machine	C. H. Palmer and J. W. Denmead	706,098	Aug. 5	179	1167	100	1153
Paper-board burial-caskets. Mold for making	E. A. Post	708,075	Sept. 2	148	37	100	2040
Paper-bordering machine	E. A. Post	697,186	Apr. 8	1534	35	99	340
Paper box	C. H. Goodnow	695,204	Mar. 11	1667	399	98	2081
Paper box	C. H. Goodnow	695,205	Mar. 11	1668	370	98	2081
Paper box	F. J. Schleicher	697,668	Apr. 15	2400	388	99	539
Paper box	A. C. Jordan	698,117	Apr. 22	3252	712	99	738
Paper box	W. G. Haas	700,418	May 20	2562	586	99	1733
Paper box	H. S. Miller	709,345	Sept. 16	2572	580	99	2138
Paper box	J. T. Farres	713,024	Nov. 18	2267	404	101	1394
Paper box	W. G. Haas	715,789	Dec. 10	2178	487	101	2319
Paper-box blank	H. B. Smith	693,169	Feb. 11	1787	392	98	1199
Paper-box-blank feeder and folding mechanism	G. M. Griswold	694,635	Mar. 4	570	124	98	1833
Paper-box blanks. Furniture for forming	J. T. Craw and F. Schley	705,389	July 22	3965	125	100	851
Paper-box blanks. Machine for making	J. C. Blevney	695,029	Mar. 11	1337	839	98	2012
Paper-box blanks. Machine for making	C. H. Palmer and J. W. Denmead	700,807	May 27	3323	762	99	1911
Paper-box corner-stay	H. B. Smith	694,436	Mar. 4	191	764	98	1733
Paper-box end flaps. Machine for uniting	G. E. Wyatt	710,390	Oct. 7	995	42	101	203
Paper box. Folding	J. Herre	690,575	Jan. 7	396	81	98	86
Paper box. Folding	M. J. Kane	692,301	Feb. 4	145	34	98	828
Paper box. Folding blank	D. I. Winslow	708,288	Sept. 2	538	122	100	2091
Paper box. Knockdown	I. H. Rice	691,972	Jan. 28	3037	683	98	682
Paper-box machine	A. Birnie and C. W. Gay	695,369	Mar. 11	1951	435	98	2139
Paper-box machine	A. Kochs	701,360	June 3	144	81	99	2138
Paper-box machinery. Adjustable form for	C. I. Rhodes	699,416	May 6	353	127	99	1288
Paper-box machinery. Creasing or scoring and mitring mechanism for	C. W. Gay	702,265	June 10	1940	442	99	2523
Paper-box-making machine	H. Inman	712,068	Oct. 28	3254	712	101	723
Paper box. Metal-lined	G. Wolf	714,998	Dec. 2	685	142	101	1973
Paper box or carton	A. Birnie and C. W. Gay	695,273	Mar. 11	1780	394	98	2104
Paper-box stacker and drier	G. M. Griswold	694,634	Mar. 4	566	124	98	1832
Paper-boxes. Adjustable former-block for forming	S. Robinson	700,442	May 20	2607	596	99	1743
Paper-calendering machine	A. Cameron	715,017	Dec. 2	725	153	101	1982
Paper. Centrifugal sizing apparatus to sizing wood-pulp or similar materials for the manufacture of	H. Schiller	690,777	Jan. 7	790	175	98	167
Paper cleaner. Wall	W. Adcock	701,274	June 3	2	1	99	2109
Paper-clip	S. R. Stratton	709,523	Sept. 23	2985	665	100	2642
Paper clip or fastener	A. Sheddock	703,385	July 1	194	46	100	41
Paper clip or fastener	O. Mussinan	714,888	Nov. 25	3748	827	101	1721
Paper-coating machine	J. Chevalier, N. and E. Lajoie	704,434	July 8	1982	431	100	417
Paper-coating process	A. Thomson	693,189	Feb. 11	1847	123	98	1203
Paper conduit	L. P. Dodge	713,560	Nov. 11	2137	478	101	1351
Paper-corrugating apparatus	J. T. Ferris	690,713	Jan. 7	370	148	98	141
Paper-cutter	W. H. Lamont	693,660	Feb. 19	2741	605	98	1409
Paper cutting and collating machine	W. Y. Dear	704,472	July 8	2066	447	100	434
Paper cutting and rewinding machine	P. J. Wolf	716,605	Dec. 23	3832	831	101	2684
Paper-cutting machine	L. Dudásch	693,503	Feb. 18	2437	533	98	1347
Paper-cutting machine	C. D. Blackhall	707,294	Aug. 19	2473	555	100	1659
Paper-cutting machine	H. W. Mather	708,722	Sept. 3	1311	299	100	2259
Paper-cutting machine	N. Gray, Jr.	710,451	Oct. 7	98	21,22	101	21
Paper-cutting machines. Knife for guillotine	T. B. Kendall	700,053	May 13	1786	413	99	1556
Paper-dampening machine	C. A. Lang	695,216	Mar. 11	1686	374	98	2085
Paper-display rack. Wall	O. Blakeley	699,478	May 6	669	155	99	1315
Paper dolly. Lace	J. Hess	700,771	May 27	3263	748	99	1899
Paper-drying machine	W. M. Barber	690,623	July 29	4416	964	100	961
Paper-drying machine	A. G. Paul and H. A. Joslin	705,606	Feb. 11	2046	446	98	1244
Paper-fastener	R. McMahon	693,302	Feb. 11	562	159	98	107
Paper-fastener	H. Trenchard, Jr.	700,104	May 13	1871	436	99	1572
Paper-fastener	L. C. Cox	715,992	Dec. 16	2592	573	101	2409
Paper-feed mechanism	F. M. Peters and H. H. Hungerford	702,673	June 17	2536	561	99	2688
Paper-feeder	E. Dummer	704,444	July 8	2002	436	100	421
Paper-feeding and stencil-printing apparatus. Automatic	A. B. Dick	715,764	Dec. 16	2117	474	101	2307
Paper-feeding device	F. Schilz	716,485	Dec. 23	3579	782	101	2620
Paper-feeding machine	C. A. Sturtevant	694,039	Feb. 25	3499	771	98	1580
Paper-feeding machine	F. Schilz	696,381	Mar. 25	3906	866	98	2571
Paper-feeding machine	G. R. Williams	714,847	Dec. 2	410	87	101	1917
Paper-feeding or other machines. Automatic stop mechanism for	G. R. Williams	714,423	Nov. 25	3511	842	101	1733



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Paper fixture. Toilet.	W. M. Davis	717,174	Dec. 30	5052	1095	101	2968
Paper-folding machine	H. H. Cummings	691,751	Jan. 25	2640	591	98	602
Paper-folding machine	H. K. King	700,505	May 20	2735	625	99	1770
Paper-folding machine	F. H. Wendt	713,726	Nov. 18	2444	546	101	1481
Paper for art printing. Treating	J. Wezel	698,772	Apr. 29	4501		99	1019
Paper for stereotype-matrices. Machine for preparing	R. M. Severs	695,239	Mar. 11	1723	382	99	2692
Paper for wrapping or binding purposes. Device for supporting and delivering	R. H. Piper	700,815	May 27	3343	767	99	1915
Paper for wrapping or binding purposes. Device for supporting and delivering	R. H. Piper	700,816	May 27	3345	768	99	1915
Paper hanger. Wall.	J. P. Cannon	708,124	Sept. 2	232	54	100	2629
Paper-hanger's coloring-tool	B. Olin	700,976	May 27	3629	83	99	1972
Paper-hanger's kit	P. H. Clinton	710,951	Oct. 14	1041	230	101	228
Paper-hanger's tool	T. E. Boord	702,338	June 10	1891	492	99	2512
Paper-hanging machine	J. M. Glickman	696,672	Apr. 1	523	120	99	113
Paper-hanging machine	C. Holmes	701,727	June 3	811	179	99	2277
Paper-holder	J. S. Basom	701,281	June 3	6	2	99	2109
Paper-holder	E. Brugerolles	704,734	July 15	2537	548	100	546
Paper-holder and cutter. Toilet.	G. M. Rust and E. J. Faulkner	716,938	Dec. 30	4556	980	101	2861
Paper-holder. Toilet	W. A. Dickinson	710,440	Oct. 7	76	17	101	17
Paper-holding structure	U. G. Hillman	693,708	Feb. 18	2838	625	98	1428
Paper-jogger	P. E. Kent	702,966	June 24	3110	716	99	2804
Paper-jogger	W. E. Jelf	708,271	June 24	3673	845	99	2914
Paper-lifting mechanism	W. W. Tuck and A. Wassmann	715,905	Dec. 16	2419	535	101	2372
Paper-machine couch-roll attachment	F. E. McEvoy	704,079	July 8	1322	288	100	277
Paper-machine-drier spring-roll	B. J. Reardon	717,274	Dec. 30	5217	1132	101	3003
Paper. Machine for forming plastic patterns on wall.	R. Kraus	697,498	Apr. 15	2084	462	99	477
Paper. Machine for making compound	C. P. Brown	695,787	Mar. 18	2704	614	98	2312
Paper, &c. Machine for perforating	J. B. Brow	699,649	May 13	1006	233	99	1396
Paper machine. Lace	J. R. Thompson	709,615	Sept. 23	3133	693	100	2672
Paper-machine sizing apparatus	A. E. Füllner	694,146	Feb. 25	3674	813	98	1616
Paper machine. Wall	C. B. Weston	707,289	Aug. 19	2468	553	100	1658
Paper-machines. Apparatus for removing rolls of material from	M. A. Craft	705,388	July 23	3963	858	100	851
Paper-machines. Rotary suction apparatus for	A. T. Lueckenbach	716,846	Dec. 23	4377	949	101	2808
Paper-machines. Wire-cloth for	R. Kron, Jr.	709,228	Sept. 16	2342	531	100	2493
Paper, &c. Machinery for cutting and folding	R. C. Seymour	710,080	Sept. 30	4088	910	100	2872
Paper, &c. Machinery for cutting and folding	R. C. Seymour	715,517	Dec. 9	1638	355	101	2188
Paper, &c. Machinery for folding, packing, and stacking sheets of	R. C. Seymour	706,262	Aug. 5	503	108	100	1217
Paper-maker's stuff-chest	F. W. McKenney	714,391	Nov. 25	3750	828	101	1721
Paper. Making	J. B. Hanscom	702,205	June 10	1663	373	99	2468
Paper-making	A. Outerson	704,572	July 15	2266	491	100	489
Paper-making machine	C. H. Atkins	690,686	Jan. 7	610	133	98	129
Paper-making machine	C. E. Barrett and J. E. Horne	691,333	Jan. 14	1846	418	98	403
Paper-making machine	A. Aldrich	691,572	Jan. 21	2268	510	98	507
Paper-making machine	H. Parker	693,354	Feb. 11	2146	473	98	1267
Paper-making machine	H. Parker	693,895	Feb. 25	3200	706	98	1521
Paper-making machine	H. Parker	693,897	Feb. 25	3204	706	98	1522
Paper-making machine	T. H. Savery	694,427	Mar. 4	177	39	98	1750
Paper-making machine	J. W. Moore and J. A. White	694,772	Mar. 4	848	187	98	1891
Paper-making machine	H. H. Reynolds	696,595	Apr. 1	357	85	99	79
Paper-making machine	H. Parker	700,553	May 20	2812	644	99	1786
Paper-making machine	H. Parker	700,554	May 20	2814	645	99	1787
Paper-making machine	C. H. Warner	708,714	July 1	635	139	100	123
Paper-making machine	G. Ehrhart	708,775	July 1	735	163	100	148
Paper-making machine	G. S. Witham	704,607	July 15	2319	503	100	500
Paper-making machine	J. F. Richards	707,014	Aug. 12	1993	433	100	1527
Paper-making machine	T. A. Boyne	712,038	Oct. 28	3180	635	101	709
Paper-making machine	C. J. Bradbury	715,749	Dec. 16	2090	469	101	2362
Paper-making machine. Fourdrinier	J. W. Moore and J. A. White	695,753	Mar. 18	2638	599	98	2297
Paper-making-machine mixer	G. L. Hodge	710,456	Oct. 7	104	23, 24	101	23
Paper-making-machine suction-box	W. H. Gage	712,654	Sept. 4	377	89, 90	101	977
Paper-making-machine suction-box cover	W. M. and T. M. Gilbert and W. C. Nash	708,219	Nov. 2	417	96	100	2066
Paper-making-machine wire or felt guide	W. M. and T. M. Gilbert and W. C. Nash	694,368	Mar. 4	45	11, 12	98	1721
Paper-making machines. Suction-box for	J. B. Lynch	705,684	July 29	4581	965	100	987
Paper-making machines. Wire-guide for	J. A. White	712,468	Oct. 28	3973	809	101	871
Paper-making machinery. Roller for	W. E. Sheehan	691,011	Jan. 14	1222	276	98	270
Paper-making wire for paper-making machines	H. Parker	709,034	Sept. 16	1962	449	100	2412
Paper. Manufacture of wool	H. Zilles	693,941	Feb. 25	3287		98	1537
Paper-marker	P. Grabler	690,853	July 7	920	205	98	194
Paper, &c. Mechanism for severing sheets from webs of	G. E. Pancoast	716,576	Dec. 23	3773	821	101	2670
Paper-mill machinery. Blow-off nozzle for	J. H. Baker	700,469	May 20	2692	610	99	1754
Paper of variable thickness	C. C. Jenks	701,734	June 3	823	181	99	2280

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Paper on pasteboard tubes. Roller for winding....	E. J. Barker	697,776	Apr. 15	2594	575	99	580
Paper or pasteboard. Impregnating	A. B. Glass	703,341	June 24	3800		99	2948
Paper or pulp-board making machine	L. Atwood	698,428	Apr. 29	3802	639	99	869
Paper or strawboard boxes. Machine for cutting blanks for	W. B. Browning	694,725	Mar. 4	744	164	98	1869
Paper or the like. Implement for cutting	H. J. Smith	690,584	May 6	870	202	99	1854
Paper. Package for carbon or other thin	J. T. Miller	704,558	July 15	2244	486	100	485
Paper package. Toilet-	F. Schilz	691,294	Jan. 14	1732	394	98	576
Paper pail.	J. N. Davis	692,990	Feb. 11	1432	311	98	1119
Paper pail	W. G. Haas	697,405	Apr. 8	1907	426	99	424
Paper pail	W. G. Haas. (Reissue)	12,060	Nov. 25	4249	938	101	1821
Paper pail covers or circulars. Manufacturing lace-	J. Hess.	690,951	Jan. 14	1096	247	98	245
Paper, paper-pulp, and paper-stock. Machine for tearing up	C. Wurster	690,505	Jan. 7	270	54	98	59
Paper pasteur and trimmer. Wall-	S. Field	692,647	Feb. 4	754	174	98	954
Paper-perforating machine	S. Wheeler	707,885	Aug. 26	3680	828	100	1921
Paper. Plant for treating.	J. Wezel	697,761	Apr. 15	2562	570	99	573
Paper-pulp. Apparatus for purifying	A. Åberg	691,091	Jan. 14	1356	307	98	297
Paper-pulp, &c. Bleaching	F. H. Long	702,142	June 10	1546	350	99	2445
Paper-pulp. Bleaching	R. C. Menzies	714,216	Nov. 25	3432	755	101	1657
Paper-pulp-discharge valve	H. Schaaf	691,975	Jan. 28	3040	684	98	683
Paper-pulp screen	S. H. Tibbetts	694,900	Mar. 4	1082	238	98	1941
Paper-pulp screen	J. A. Decker	711,041	Oct. 14	1234	269	101	270
Paper-pulp screen apparatus	D. Sharpe	694,678	Mar. 4	656	143	98	1851
Paper-pulp strainer	N. L. Vrooman and R. R. Kirkland.	703,682	July 1	571	127	100	113
Paper-receptacle.	E. B. Hay	715,659	Dec. 9	1907	426	101	2242
Paper receptacle. Air-tight and moisture-proof	L. G. Reynolds	710,513	Oct. 7	232	50	101	47
Paper-roll	J. Sinclair	696,276	Mar. 25	3662	819	98	2522
Paper roll. Copying-	F. G. J. Post	695,488	Mar. 18	2145	484	98	2198
Paper-roll holder	W. H. Belknap	710,034	Sept. 30	3053	698	100	2354
Paper-roll mandrel	F. Schön	708,740	Sept. 9	1337	305	100	2295
Paper, &c. Roller for	J. W. Phail	717,117	Dec. 30	4899	1061	101	2934
Paper sheet	A. H. Toole	696,281	Mar. 25	3668	820	98	2524
Paper-size. Rosin-soap for	H. F. Chappell	694,728	Mar. 4	750		98	1870
Paper. Sizing	C. Wurster	695,778	Mar. 18	2685		98	2308
Paper-stock	H. F. Dunbar	701,175	May 27	3995	918	99	2043
Paper-stock-treating machine	J. A. Mullen and E. J. Pope.	712,837	Nov. 4	704	163	101	1051
Paper. Toilet-	W. M. Davis	714,632	Nov. 25	4233	936	101	1817
Paper. Treatment of waste material for use in the manufacture of	R. Dietrich	701,310	June 8	50	11	99	2118
Paper trimming and pasting machine	A. C. Luke	715,402	Dec. 9	1422	307	101	2140
Paper trimming and pasting machine. Wall-	J. P. Sproot	708,419	Sept. 2	753	169	100	2133
Paper-tube-making machine	J. H. and E. L. White	710,386	Sept. 30	4608	1040	100	2993
Paper-tube-refolding machine.	H. S. Munson	709,501	Sept. 23	2934	654	100	2631
Paper-tube-refolding machine.	H. S. Munson	709,502	Sept. 23	2938	655	100	2632
Paper-tube-refolding machine.	H. S. Munson	709,503	Sept. 23	2941	656	100	2633
Paper tubes. Machinery for making	H. Denney	692,636	Feb. 4	737	171	98	950
Paper-vessel handle and fastener	W. E. Duthie	703,050	June 24	3262	750	99	2833
Paper. Water and grease proof	A. D. Little	691,951	Jan. 28	3001		98	676
Paper-watermarking device	E. R. and O. F. Behrend	711,815	Oct. 21	2734	605	101	606
Paper. Waterproofing	C. S. Bird and J. B. Hanscom	708,454	Sept. 2	816	186	100	2147
Paper. Waxed	A. D. Little	691,952	Jan. 28	3002		98	676
Paper with glazed surface. Manufacture of water and fat proof	H. Herfs	697,207	Apr. 8	1545		99	348
Papers and letters. Receptacle for	D. F. Bennett.	708,617	Sept. 9	1106	248	100	2216
Papers, envelops, &c. Holder for	A. Burson	695,860	Mar. 18	2836	644	98	2339
Papers, letters, &c. Holder or file for	M. J. Widenhofer	701,655	June 3	685	151	99	2251
Papers. Receptacle for containing	M. J. Wade	703,023	June 24	3205	758	99	2823
Parcel-carrier	E. M. A. Gimmig and H. Derenau-court.	715,051	Dec. 2	778	165	101	1994
Parcel-carrier. Folding	J. E. Phillips	697,879	Apr. 15	2783	616	99	624
Parcel-gripper	G. D. Hermann and D. Schuster	711,856	Oct. 21	2810	622	101	617
Parcel receiving and delivering device	T. L. Brooks	708,859	Sept. 9	1395	366	100	2321
Parchment free from germs. Producing vegetable.	A. Mackensen	705,687	July 29	4587		100	988
Parer and cover. Fruit	G. Laws	714,310	Nov. 25	3615	795	101	1694
Parer and cutter.	G. Giovanna	702,419	June 17	3057	468	98	2308
Parer and slicer	G. W. Paul	707,798	Aug. 26	3512	792	100	1830
Parer. Apple-	J. Jacobs	707,700	Aug. 26	3270	731	100	1841
Parer. Apple-	M. B. Brooks	710,351	Sept. 30	4546	1025	100	2980
Parer feeding apparatus. Fruit-	L. I. Yeomans.	710,390	Sept. 30	4616	1041	100	2904
Paring and coring machine	W. H. Boutell	693,778	Feb. 18	2951	650	98	1452
Paris-green. Making	R. Franchot	698,696	Apr. 29	4364	962	99	988
Partitions and means for operating them. Flexible.	H. S. A. P. and W. F. Miller	710,490	Oct. 7	174	38	101	37
Pass-partout	T. K. Hastings	691,544	Jan. 21	2219	499	98	497
Passenger or goods elevator or conveyer	W. H. Aston	701,459	June 3	318	70	99	2174
Paste-bucket and stand therefor	E. L. Bailey	692,103	Jan. 28	3279	741	98	730
Paste-holder	E. Pomeroy	711,120	Oct. 14	1378	300	101	300
Paste pot or jar	M. J. Wade	703,024	June 24	3206	738	99	2823
Paste-receptacle	A. N. Ritz	711,679	Oct. 21	2469	544	101	544
Paste-receptacle and brush	A. N. Ritz	711,678	Oct. 21	2468	542	101	544
Paste vessel.	W. Rodiger	718,921	Nov. 18	2821	627	101	1511
Pasting-machine.	A. W. Foster	691,700	Jan. 21	2515	563	98	559
Pasteurizer	W. J. Ruff	701,622	June 3	611	134	99	2236



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Pasteurizer	A. A. Busch, R. Gull, and T. J. Barry.	713,952	Nov. 18	2891	642	101	1525
Pasteurizing apparatus	T. L. Valerius	701,109	May 27	3878	643	99	2036
Pasteurizing apparatus	B. F. Schirmer	708,738	Sept. 9	1334	304	100	2264
Paths. Tool for smoothing gravel	G. J. Hoskins	717,008	Dec. 30	4699	1018	101	2891
Pattern-cards. Mechanism for producing	T. Capper	698,450	Apr. 29	3858	851	99	890
Pattern-cutting machine	J. Sullivan	691,203	Jan. 14	1555	352	98	339
Pattern. Dress-skirt	H. Guidex	704,794	July 15	2646	572	100	567
Pattern-plate	C. R. Davis	707,397	Aug. 19	2668	692	100	1009
Pattern-plates. Making	C. R. Davis	702,928	June 24	3017	693	99	2784
Patterns in exact relative position on draw-plates or upon the tables of molding-machines. Applying	S. H. Stupakoff	716,937	Dec. 30	4603	997	101	2871
Patterns. Inserting or withdrawing	S. H. Stupakoff	716,958	Dec. 30	4605	997	101	2871
Pavement	H. G. Volkman	698,192	Feb. 11	1833	401	99	1204
Pavement	F. J. Warren	695,421	Mar. 11	2033	456	98	3136
Pavement. Bituminous street	F. J. Warren	695,422	Mar. 11	2034	456	98	2156
Pavement. Illuminated area-spanning	P. M. Bruner	698,585	Feb. 18	2904	576	98	1380
Pavement. Street	F. J. Warren	695,423	Mar. 11	2036	457	98	2157
Pavements or roadways. Preparing the ingredients of street sheet	F. J. Warren	715,630	Dec. 9	1849	101	2230	
Paving-flag	J. Steinbach	698,072	Apr. 22	3134	388	99	714
Paving. Manufacture of bituminous	W. S. Wilkinson	705,728	July 29	4667	715	100	1004
Paving material. Utilizing old	W. H. Lober	711,115	Oct. 14	1369	298	101	238
Paving mixture or composition. Asphaltic	W. S. Wilkinson and C. H. Burchinal	705,903	July 29	4797	100	1031	
Paving plant. Portable asphalt	G. and H. Merriman	711,327	Oct. 14	3794	388	101	338
Pawl-and-ratchet brake	E. Canale and F. Thiebaut	694,251	Feb. 25	3860	389	98	1655
Pawl-and-ratchet mechanism	R. F. Barker	693,344	Feb. 11	2127	467	98	1294
Pea-huller	J. M. Sanders	693,072	Feb. 11	1574	343	98	1149
Pea-hulling machine. Green	A. Thomas	693,926	Feb. 25	3254	716	98	1531
Pea-sheller	L. A. Aspinwall	709,657	Sept. 23	3200	714	100	2665
Pea-shelling machine	T. Bosshard	700,476	May 20	2675	613	99	1757
Peas &c. Blanching	C. H. Plummer	697,272	Apr. 8	1558	371	99	372
Peanut-roaster and popcorn-popper	W. P. Crane	701,258	May 27	4147	953	99	2080
Peanuts. Salting	H. D. Moyer	692,327	Feb. 4	194	45	98	839
Peanuts. Salting	A. R. Potter	713,918	Nov. 18	2817	101	1510	
Peat briquets. Manufacturing	E. Helbing	700,421	May 20	2568	100	1734	
Peat briquets. Producing	G. Hartmann	714,578	Nov. 25	4694	101	1780	
Peat-collecting machine	W. A. Milne	713,129	Nov. 11	1261	286	101	1173
Peat-drier	W. A. Milne	713,128	Nov. 11	1260	286	101	1173
Peat for fuel purposes. Preparing bog	A. Charon	709,664	Sept. 23	3217	100	2689	
Peat fuel. Manufactured	R. A. Kellond	713,110	Nov. 11	1224	101	1166	
Peat fuel. Manufacturing	R. A. Kellond	715,271	Dec. 9	1185	101	2097	
Peat into fuel. Converting	J. O. Green and H. T. Martin	700,190	May 20	2099	99	1744	
Peat-press	A. Dobson	701,311	June 3	52	11	101	2119
Peat-press	W. A. Milne	701,856	June 10	1022	228	99	2338
Pedal attachment	R. Gross	701,714	June 3	781	173	99	2272
Pedal-balance	F. H. Anderson	701,245	May 27	4122	948	99	2076
Pedestal	P. Brown	700,894	May 27	3481	799	99	1942
Pedestal-clamp	J. A. Lindstrom	704,553	July 15	2235	484	100	483
Pedometer	E. Kuhn	694,632	Mar. 4	601	132	98	1899
Peeling machine. Fruit	L. F. Graham	715,783	Dec. 16	2161	484	101	2316
Peg-cutter	E. S. Wahman and H. A. Rehberg	692,220	Jan. 28	3495	790	98	775
Peg-cutter	J. A. Holmlund	696,974	Apr. 8	1138	253	99	262
Peg-making machine. Shoe	J. Lewis	692,317	Feb. 4	178	40	98	836
Pegging-machine	A. Graffam	698,700	Apr. 29	4369	1063	99	990
Pegging-machine	J. E. Bickford	707,498	Aug. 19	3331	642	100	1736
Pegging-machine horns. Peg-cutter for	J. E. Bickford	703,351	July 1	1056	230	100	210
Pellet or tablet making apparatus	E. Petranyi	706,777	Aug. 12	1510	335	100	1441
Pen					336		
See Breeding-pen							
Pen	A. Breitfeld	692,606	Feb. 4	690	160	98	940
Pen	E. W. Fischer	699,464	May 6	646	149	99	1309
Pen	S. H. Crocker	703,549	July 1	315	71	100	64
Pen attachment. Fountain	J. A. Hamilton	716,224	Dec. 16	3965	1001	101	2508
Pen-draining device	P. D. Horton	711,316	Oct. 14	1777	344	101	385
Pen. Drawing dotting	J. Bossart-Bächli	715,007	Dec. 2	712	151	101	1979
Pen-extractor	H. H. Lewis	711,775	Oct. 21	2638	536	101	585
Pen. Fountain	W. W. Sanford	691,374	July 28	3935	683	98	682
Pen. Fountain	L. M. Bryan	692,049	Jan. 28	3179	717	98	709
Pen. Fountain	F. C. Brown	697,975	Apr. 22	2954	651	99	677
Pen. Fountain	L. E. Waterman	698,881	Apr. 29	4750	1046	99	1076
Pen. Fountain	R. B. Dickie	699,499	May 6	704	163	99	1321
Pen. Fountain	W. G. Frazer	700,909	May 27	3512	896	99	1948
Pen. Fountain	O. Wall	703,323	June 24	3744	862	99	2390
Pen. Fountain	W. W. Sanford	703,118	July 1	96	21	100	367
Pen. Fountain	J. Holland	703,479	July 1	185	44	100	39
Pen. Fountain	W. E. Lindsay	704,262	July 8	1673	364	100	350
Pen. Fountain	J. Bovill	705,316	July 22	3805	825	100	819
Pen. Fountain	R. C. Paine	705,958	July 29	5074	1105	100	1066
Pen. Fountain	P. E. Wirt	706,140	Aug. 5	259	54	100	1171
Pen. Fountain	P. E. Wirt	706,141	Aug. 5	363	54	100	1172
Pen. Fountain	R. T. Gillespie	708,221	Sept. 2	129	96	100	2067
Pen. Fountain	C. F. Miller	708,572	Sept. 9	1028	232	100	2201

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Pen. Fountain.....	R. B. Dickie	709,307	Sept. 16	2504	564	100	2538
Pen. Fountain.....	C. G. Southmayd.	710,724	Oct. 7	622	180	101	127
Pen. Fountain.....	N. C. Stiles	711,709	Oct. 21	2523	554	101	556
Pen. Fountain.....	J. Blair	713,735	Nov. 18	2460	549	101	1498
Pen. Fountain.....	A. P. Cross	714,283	Nov. 25	3562	784	101	1684
Pen. Fountain.....	R. B. Dickie	715,359	Dec. 9	1333	291	101	2132
Pen fountain attachment	J. P. Mudlock	710,599	Oct. 7	389	82	101	78
Pen fountain-holder	A. L. Baer	704,691	July 15	2455	530	100	528
Penholder	C. W. Barkley	691,098	Jan. 14	1366	310	98	300
Penholder	S. W. Durham	691,614	Jan. 21	2354	529	98	324
Penholder	R. L. McViee	702,729	June 17	2659	612	99	2693
Penholder	F. McIntyre	703,293	June 24	3703	853	99	2921
Penholder	S. H. Crocker	703,641	July 1	487	110	100	96
Penholder	E. M. Zeek	709,130	Sept. 16	2152	494	100	2454
Penholder	E. E. Blakeslee	711,278	Oct. 14	1701	367	101	367
Penholder	G. B. Hunt	713,005	Nov. 4	1010	237	101	1102
Penholder. Fountain.	G. W. Mabie	711,988	Oct. 28	3038	679	101	693
Penholder. Pen-point-ejecting.	H. C. Stiefel	701,643	June 3	264	145	99	2247
Pen ink-feeder	I. Hultman and A. M. Johanson	703,265	June 24	3665	843	99	2913
Pen or pencil holder	J. S. McClung	710,393	Sept. 30	4446	1002	100	2959
Pen or pencil holder	J. L. Mullins	713,134	Nov. 11	1267	287	101	1175
Pen. pencil. &c. holder	C. F. Walter	714,538	Nov. 25	4022	890	101	1776
Pen. Reservoir	R. T. Gillespie	709,590	Sept. 16	2469	546	101	2705
Pen. Reservoir	R. T. Gillespie	711,958	Oct. 28	3040	688	101	688
Pen. Safety fountain.	F. Gilbert	692,009	Jan. 28	3101	696	98	694
Pen. Safety fountain.	L. E. Waterman	698,882	Apr. 29	4760	1047	99	1077
Pen. Stylographic	W. W. Sanford	698,859	Apr. 29	4716	1039	99	1069
Pen. Stylographic or other fountain.	E. W. Warriner	713,927	Nov. 18	2838	630	101	1514
Pen-wiper	F. J. Muller	716,740	Dec. 23	4062	890	101	2732
Pen with filler carried in the holder. Fountain.	E. O. Lyte	717,425	Dec. 30	5488	1191	101	3059
Pens. Filling or refilling fountain.	R. H. Ashcroft	709,731	Sept. 23	3929	749	100	2718
Pens. Machine for grinding and polishing steel or other metallic	J. W. Milligan and H. Rallings.	697,383	Apr. 8	1854	416	99	415
Pens. &c. Means for attaching caps to fountain or other	J. Slater	716,489	Dec. 23	3588	783	101	2631
Pencil	B. T. Mulligan	694,879	Mar. 4	1048	232	98	1933
Pencil	C. V. Cudlipp	696,501	Apr. 7	769	175	98	163
Pencil	J. A. M. Morris	701,072	May 27	3607	872	99	2011
Pencil	R. R. Rakestraw	703,304	June 24	3719	857	99	2925
Pencil and making same.	L. Holzworth	708,964	Sept. 9	1798	413	100	2361
Pencil and sharpener therefor	R. Y. Cormack	710,255	Sept. 30	4385	986	100	2946
Pencil attachment	M. A. I. Orlansky	700,803	May 27	3315	761	99	1910
Pencil-box	H. F. Longenecker and S. P. Hartzler.	716,909	Dec. 30	4506	978	101	2851
Pencil-case	C. E. Little	703,142	June 24	3443	789	99	2869
Pencil-case	W. E. Leary	709,337	Sept. 16	2538	575	100	2540
Pencil-clip and calendar. Combined	T. Griffin	692,514	Feb. 4	529	124	98	905
Pencil-clip and calendar. Combined	T. Griffin	694,098	Feb. 25	3595	795	98	1600
Pencil-holder	J. W. Pearson	691,172	Jan. 14	1500	338	98	328
Pencil-holder	F. J. Kamber	701,486	June 3	375	84	99	2185
Pencil-holder	J. R. Booth	715,636	Dec. 9	1857	412	101	2232
Pencil-holder and sharpener. Combined	E. E. Long	717,228	Dec. 30	5445	1115	101	2988
Pencil. Lead	D. Dunham and V. J. Cooper	700,632	May 20	2952	678	99	1816
Pencil. Lead	L. C. Benitz	705,900	July 29	4968	1081	100	1065
Pencil. Magazine lead.	B. B. Goldsmith	692,440	Feb. 4	380	93	98	878
Pencil rubber-tip attachment. Lead.	C. W. Boman	703,229	June 24	3608	829	99	2901
Pencil-sharpener	A. T. Fox	691,127	Jan. 14	1417	322	98	310
Pencil-sharpener	E. Burk	697,323	Apr. 1	1744	380	99	391
Pencil-sharpener	E. L. McDivitt	700,071	May 13	1813	420	99	1561
Pencil-sharpener	J. H. Fassett and J. E. Warren	701,027	May 27	3744	857	99	1998
Pencil-sharpener	W. O. Byrne	709,967	July 1	1101	237	100	218
Pencil-sharpener	F. A. Cortis	705,322	July 22	3815	827	100	821
Pencil-sharpener	R. C. Uecke	710,822	Oct. 7	422	177	101	168
Pencil-sharpener	D. F. Oliver	715,848	Dec. 16	2900	511	101	2346
Pencil-sharpener	D. F. Oliver	715,849	Dec. 16	2302	511	101	2346
Pencil-sharpener	R. W. Gates	716,702	Dec. 23	4005	876	101	2719
Pencil-sharpener	M. E. Mead	716,732	Dec. 23	4050	887	101	2730
Pencil-sharpener. Automatic	C. S. Cox	691,117	Jan. 14	1395	317	98	305
Pencil-sharpener, ink-eraser, and paper-cutter	H. Pease	715,419	Dec. 9	1458	314	101	2153
Pencil-sharpenering apparatus	F. Mossberg	715,499	Dec. 9	1612	349	101	2182
Pencil-tip	L. W. Faber	703,721	July 1	642	142	100	128
Pendulum. Conical	M. Clark	705,647	July 29	4508	979	100	973
Perambulator	S. P. Withrow	700,397	May 20	2525	578	99	1725
Perambulator	C. W. R. Schulze	706,854	Aug. 12	1658	371	100	1474
Perch. Poultry	O. L. Harrod	704,963	July 15	3048	654	100	651
Percolator	J. C. Seney	693,913	Feb. 25	3233	712	98	1527
Perfect-combustion furnace	W. N. Best	709,571	Sept. 23	3061	682	100	2657
Perforating-machine	W. H. Treen	701,107	May 27	3874	890	99	2025
Perforating-machine	E. A. Trussell	709,566	Sept. 23	3051	679	100	2654
Perforating-machine	E. B. Stimpson	713,526	Nov. 11	2074	464	101	1339
Perforating-machine stripper. Rotary	H. S. Hewston	716,895	Dec. 30	4478	971	101	2846
Perforating, ring forming, and inserting machine. Combined	T. Hawthorne	708,636	Sept. 9	1134	256	100	2223
Perforator	F. W. Tobey	693,082	Feb. 11	1594	347	98	1153
Perfume cabinet. Breath-	W. Ambruster	713,931	Nov. 18	2844	631	101	1515
Permutation-lock	J. and C. E. Arner	698,781	Apr. 29	4518	998	99	1023
Permutation-lock	W. Beebe	706,152	Aug. 5	290	61	100	1176
Permutation-lock	M. B. Mills	712,830	Nov. 4	684	159	101	1038



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Permutation-lock	D. Churchill	717,350	Dec. 30	5346	1163	101	3031
Perspectograph	O. Eichenberger	704,307	July 8	1751	382	100	368
Pessary	B. F. Overton	705,385	July 22	3733	811	100	804
Pessary	D. B. De Wattoff	705,392	July 22	3970	860	100	882
Pessary	C. Hollweg	709,675	Sept. 23	3235	723	100	2938
Petroleum-motor, Four-stroke	H. A. Bertheau	700,295	May 20	2317	527	99	1685
Petroleum, sulfuric acid, and lime. Manufacturing a solid combustible from	J. C. Bernthrop and M. L. Q. V. Hulsebosch	711,380	Oct. 14	1892	528	101	409
Pharmaceutical implement	M. F. Rochester	693,155	Feb. 11	1764	388	98	1185
Phenylamidoacetnitrile. Making	E. Homolka and N. Schwan	701,044	May 27	3769	811	99	2003
Phenylglycine. Making	W. Hentschel	712,190	Oct. 28	3464	744	101	763
Phonogram-reproducing apparatus	W. F. Messer	705,772	July 29	4744	1027	100	1019
Phonograms. Duplicating	T. A. Edison	713,209	Nov. 11	1410	319	101	1208
Phonograph	C. W. Vernon	698,082	Apr. 22	3152	693	99	718
Phonograph	H. Winkelmann	707,749	Aug. 26	3400	766	100	1886
Phonograph	W. Peisker	708,581	Sept. 9	1040	235	100	2238
Phonograph	G. A. Moore	713,477	Nov. 11	1944	440	101	1313
Phonograph apparatus	A. B. Robinson	691,000	Jan. 14	1200	271	98	266
Phonograph attachment	M. M. Worthington	706,627	Aug. 12	1215	269	100	1378
Phonograph horn or megaphone. Collapsible	J. E. Storms, Jr.	714,620	Nov. 25	4178	924	101	1806
Phonograph or graphophone	G. Bettini	697,969	Apr. 22	2945	649	99	676
Phonograph or graphophone horn	J. W. Henderson	690,858	Jan. 7	931	208	98	196
Phonograph or graphophone record-cylinders. Carrier or holder for	C. J. Kintner	691,779	Jan. 28	2690	604	98	613
Phonograph-record case. Revolving	E. L. Appleby	692,411	Feb. 4	332	80	98	869
Phonograph-record-supporting device	G. Madison	708,939	Nov. 1	1037	225	100	207
Phonograph-records. Coating	T. A. Edison	713,863	Nov. 18	2898	603	101	1485
Phonograph repeating mechanism	J. J. Billing	695,272	Mar. 11	1779	393	98	2103
Phonograph-reproducer	T. A. Edison	709,774	July 1	733	162	100	147
Phonograph resonator or amplifier	W. S. How	700,984	Sept. 30	3870	872	100	2836
Phonograph time-indicator	J. Kemmer, Jr.	699,393	May 6	510	118	99	1280
Phonographs. Apparatus for manufacturing duplicate sound-record cylinders for	A. N. Petit	692,337	Feb. 4	210	50	98	842
Phonographs, &c. Automatic releasing mechanism for	J. Wall	694,705	Mar. 4	707	154	98	1861
Phonographs, &c. Recorder for	H. V. Butterworth	707,204	Aug. 19	2305	519	100	1625
Photographic duplication processes. Dipping-tank for	J. W. Aylsworth and W. H. Miller	698,429	Apr. 20	3804	839	99	870
Photographic record	G. A. Moore	713,328	Nov. 11	1688	389	101	1259
Photographic-record seal	A. Clark	692,623	Feb. 4	719	166	98	946
Photographic-record seal	A. Clark	692,624	Feb. 4	720	166	98	947
Photographic reproducer	P. Weber	698,602	Apr. 29	4149	913	99	940
Photographic sounder	G. A. Moore	715,116	Dec. 2	3893	191	101	2019
Phosphate and making same	J. Reese	714,331	Nov. 25	3648	731	101	1701
Phosphate-logs. Tooth and base for	E. E. Cline	698,374	Apr. 22	3706	819	99	884
Photochromoscopic and trichromatic apparatus	F. E. Ives	703,929	July 1	1019	221	100	203
Photochromoscopic apparatus	T. K. Barnard	710,237	Sept. 30	4354	978	100	2940
Photo-engravers' plates. Machine for beveling	F. Wesel	708,436	Sept. 2	779	175	100	2139
Photograph and making same. Color	M. and H. M. Milley	711,875	Oct. 21	2631	639	101	636
Photograph-burnisher	C. J. Dorticus	703,757	Sept. 23	3395	762	100	2724
Photograph-cabinet. Revolving	E. and M. Bekker	716,367	Dec. 23	3341	730	101	2578
Photograph-holder	H. J. G. Lambrecht and C. Schielke	707,350	Aug. 26	3616	815	100	1948
Photograph-holder	N. E. Harper	715,376	Dec. 9	1889	297	101	2137
Photograph-mounting apparatus	I. G. Grant	708,342	Sept. 2	631	142	100	2109
Photograph or other card holder	W. R. Magle	716,074	Dec. 16	2765	619	101	2446
Photograph-toning apparatus	A. Schwarz	703,671	July 1	546	124	100	108
Photographs. Automatic and instantaneous apparatus for producing	F. D. Romani	696,656	Apr. 1	477	110	99	103
Photographs. Device for grouping	G. G. Rodman	696,272	Mar. 25	3655	818	98	2321
Photographs in relief. Producing	W. Ohse	706,774	Aug. 12	1596	334	100	1440
Photographs, pictures, &c. Stand or frame for	W. Guttenberg	690,572	Jan. 7	392	80	98	85
Photographs, &c. Producing enameled polychrome	H. Perrin	708,918	Sept. 9	1707	355	100	2344
Photographer's scene-holder	S. J. Hopson	713,765	Nov. 18	2526	531	101	1450
Photographic apparatus. Automatic	G. N. Pifer	708,166	Sept. 2	307	74	100	2045
Photographic apparatus. Coin-controlled	G. N. Pifer	708,167	Sept. 2	315	75	100	2046
Photographic apparatus. Means for loading automatic	G. N. Pifer	708,164	Sept. 2	304	72	100	2044
Photographic apparatus. Panoramic	A. and L. Lumière	708,775	Sept. 9	1406	322	100	2280
Photographic apparatus. Shutter for automatic	G. N. Pifer	708,168	Sept. 2	318	76	100	2046
Photographic attachment for optical instruments	F. E. Ives	707,422	Aug. 19	2712	614	100	1708
Photographic bath apparatus	C. S. L. Kennedy	711,978	Oct. 28	3077	671	101	689
Photographic card-mounts. Device for manufacture of	P. J. Stuparich	708,675	Sept. 9	1212	276	100	2238
Photographic curtain-shutter	R. Schütttauf	703,007	June 24	3176	732	99	2817
Photographic detector device for passenger-cars. Automatic	F. W. Brooks	711,935	Oct. 28	2986	657	101	671
Photographic developer	A. Eichengrün and K. Demeler	703,241	June 24	3025	699	99	2905
Photographic developer	A. Eichengrün	707,403	Aug. 19	2677	611	100	1701
Photographic developer and making same	A. Eichengrün and T. Becker	703,243	June 24	3027	700	99	2905
Photographic developing apparatus	E. Rimailho	707,450	Aug. 19	2735	625	100	1717
Photographic developing apparatus	A. Pollak	717,021	Dec. 30	4726	1025	101	2897
Photographic developing-case or dark cabinet. Portable and separable	T. T. Patchel	706,101	Aug. 5	183	38	100	1154
Photographic developing-tray	J. N. Tolpa	716,598	Dec. 23	3820	829	101	2631
Photographic emulsion	Y. Schwartz	710,019	Sept. 30	3928	829	100	2849
Photographic-exposure meter	R. W. Whitney	709,250	Sept. 16	2395	542	100	2405
Photographic fabric and preparing same	F. M. C. Grenier	696,632	Apr. 1	432	99	99	43

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Photographic film	C. H. Shaw	709,053	Sept. 16	2000	456	100	2420
Photographic film and making same. Casein	O. Buss	705,643	July 29	4439	.....	100	971
Photographic-film holder	W. H. Hamersly	715,372	Dec. 9	1374	296	101	2136
Photographic-film-protecting strip	W. F. Maulick	709,375	June 17	2357	538	99	2630
Photographic-film roll and roll-holder	J. E. Thornton	698,157	Apr. 22	3327	726	99	754
Photographic-film spool	H. W. Hales	710,774	Oct. 7	731	155	101	149
Photographic-film spool	J. T. Clarke	711,617	Oct. 21	2350	513	101	518
Photographic films. Apparatus for developing	A. W. McCurdy	707,791	Aug. 26	3493	783	100	1884
Photographic films. Apparatus for developing and fixing cartridge	M. Reichert	706,852	Aug. 12	1654	370		
Photographic fixing-bath	A. Eichengrün	710,568	Oct. 7	331	.....	101	67
Photographic instrument	H. R. Miller	697,738	Apr. 15	2524	562	99	565
Photographic-lens shade	F. W. Nicholson	698,999	Apr. 29	4949	1096	99	1117
Photographic light-screen	E. F. Beckwith	714,356	Nov. 25	3696	814	101	1710
Photographic negatives. Apparatus for developing, washing, and fixing	S. G. Livert	717,104	Dec. 30	4574	1056	101	2329
Photographic negatives, &c. Apparatus for judging the color and density of	J. W. Dawson	696,860	Apr. 1	870	201	99	184
Photographic or similar apparatus. Adjustable support for	P. Thill	704,403	July 8	1934	419	100	407
Photographic package	F. W. Humphreys	698,136	Feb. 11	1713	374	98	1177
Photographic pictures. Developing	A. Eichengrün and K. Demeler	696,019	Mar. 25	3139	.....	98	2415
Photographic pictures. Developing	A. Eichengrün and K. Demeler	703,242	June 24	3626	.....	99	2905
Photographic pictures. Developing	A. Eichengrün	716,396	Dec. 23	3400	.....	101	2590
Photographic plate	G. N. Pifer	708,165	Sept. 2	306	73	100	2045
Photographic-plate-developing apparatus	J. G. Schrodron	715,301	Dec. 9	1252	266	101	2112
Photographic-plate for reproducing ink impressions	L. C. Henriot	702,554	June 17	2300	.....	99	2619
Photographic-plate holder	J. Goldard	700,034	May 13	1757	494	99	2117
Photographic-plate holder	W. N. L. Davidson	701,806	June 3	43	9	99	2117
Photographic-plate holder	W. H. Lewis	708,370	Sept. 2	669	151	100	2117
Photographic-plate holder	R. Schütttauf	711,741	Oct. 21	2588	568	101	570
Photographic-plate holder	I. L. Green	715,369	Dec. 9	1369	295	101	2135
Photographic-plate holder	G. W. Arkland	717,313	Dec. 30	5282	1148	101	3017
Photographic-plate-holder kit	A. Gaffney	717,384	Dec. 30	5402	1174	101	3043
Photographic-plate-holder slide	A. Robertson and W. H. Wright	711,347	Oct. 14	1537	399	101	338
Photographic-plate tongs	G. Gueth	703,192	Feb. 24	3540	814	99	2887
Photographic plates. Bronzing	C. P. H. Ahrie	694,227	June 25	3833	.....	98	1646
Photographic plates for use in printing-presses. Manufacture of	S. Epstein	717,369	Dec. 30	5378	.....	101	3038
Photographic plates. Reducer for overexposed	H. G. Krieger	712,313	Oct. 28	3676	.....	101	808
Photographic plates. Storage-box for	A. Wagner	699,595	May 6	985	205	99	1357
Photographic-print washer	A. Van Hoorn	715,908	Dec. 16	2434	537	101	2373
Photographic prints. Revolving trimmer for	J. Matheis	704,352	July 8	1851	401	100	891
Photographic-printing apparatus	F. F. Hewitt	711,857	Oct. 21	2811	623	101	618
Photographic-printing frame	A. Herold	698,015	Apr. 22	3036	667	99	694
Photographic-printing frame	W. H. Lewis	708,369	Sept. 2	608	151	100	2117
Photographic-printing frame	S. S. Johnson	708,770	Sept. 9	1409	321	100	2279
Photographic-printing frame	C. H. Stevens	714,413	Nov. 25	3732	837	101	1730
Photographic-printing frame	W. G. Wood	715,323	Dec. 15	1867	543	101	1983
Photographic-printing-frame holder	T. E. Deckard	711,199	Oct. 14	1561	335	101	340
Photographic purposes. Copy-holder for	H. R. Schoonover	714,334	Nov. 25	3653	805	101	1702
Photographic purposes. Lens system for	E. Lohmann	711,985	Oct. 28	3088	677	101	691
Photographic recording apparatus. Automatic	A. de Khotinsky	708,813	Sept. 9	1496	343	100	2300
Photographic retouching-tool	A. Swan	695,009	Mar. 11	1296	286		
Photographic-roll-film	R. Hausdorf	700,684	May 20	3041	695	99	1835
Photographic-roll holder	D. H. Houston	694,930	Mar. 4	1139	250	98	1953
Photographic-roll holder	C. P. Goerz	695,639	Mar. 18	2449	554	98	2259
Photographic-roll holder	D. H. Houston	700,120	May 13	1898	441	99	1578
Photographic-roll holder. Daylight-loading	D. H. Houston	694,921	Mar. 4	1136	247	98	1950
Photographic-roll holder. Daylight-loading	D. H. Houston	694,926	Mar. 4	1133	249	98	1951
Photographic-roll holder. Daylight-loading	D. H. Houston	694,927	Mar. 4	1134	249	98	1952
Photographic screen or canopy	H. C. Moore	694,172	Feb. 25	3743	826	98	1629
Photographic shutter	J. G. Siegrist	691,497	Jan. 21	2141	480		
Photographic shutter	A. Wollensak	691,689	Jan. 21	2491	558	98	481
Photographic shutter	R. Klein	695,564	Mar. 18	2311	523	98	554
Photographic shutter	C. Bornmann	698,172	Apr. 22	3353	794	99	2232
Photographic shutter	A. Wollensak	700,878	May 27	3455	793	99	759
Photographic shutter	G. S. Dey	704,781	July 15	2619	567	100	1937
Photographic shutter	W. F. Folmer	706,507	Aug. 5	1000	220	100	562
Photographic shutter	E. Dönitz	709,079	Sept. 16	2053	468	100	1819
Photographic shutter	S. Seeba and A. Cohen	710,717	Oct. 7	609	128	101	2432
Photographic-shutter-controlling device	J. Poliakoff	700,083	May 13	1735	427	99	125
Photographic-shutter mechanism	C. A. Muller	709,500	Sept. 23	2930	654	100	1365
Photographic-shutter releasing or operating mechanism	A. H. Edwards	708,876	Sept. 9	1630	374	100	2630
Photographic stand	H. D. Farquhar	693,792	Feb. 18	2973	656	98	1578
Photographic timer	E. Harrold	715,061	Dec. 2	793	168	101	1457
Photographic view-finder	J. A. Robertson and C. E. Hutchings	704,379	July 8	1896	410	100	1996
Photographing and exhibiting cinematographic pictures. Apparatus for	J. Schmidt	716,939	Dec. 30	4557	989	101	400
Photography. Apparatus for animated	L. U. Kamm	708,148	Sept. 2	276	66	100	2861
	H. M. Reichenbach	710,339	Sept. 30	4524	1020	100	2976
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Photography. Shutter for color	J. M. Frachebourg	694,364	Mar. 4	37	9	98	1719
Photometer	E. T. Turney	712,346	Oct. 28	3734	817	101	820
Photometer	C. P. Matthews	712,307	Oct. 28	3827	836	101	843
Photometric recorder and indicator	J. Poliakoff	702,329	June 10	1870	426	99	2508
Photoprinting and vignetting frame. Combined	W. Armstrong and W. R. O. Chambers.	699,739	May 13	1174	273	99	1428
Photosculpture apparatus	W. A. C. Selke	706,860	Aug. 12	1665	373 374	100	1475
Physician's examining chair and table	R. P. Curtis	696,722	Apr. 1	623	139	99	135
Physician's-table tray-support	W. H. Kersey	692,861	Feb. 11	1144	255	98	1059
Pianista	A. Capra	714,666	Dec. 2	21	5, 6	101	1841
Piano	F. V. Neuville	693,885	Feb. 25	3173	697	98	1514
Piano-action	L. N. Soper	690,784	Jan. 7	810	179	98	171
Piano-action	E. M. Hamilton	693,131	Feb. 11	1701	372	98	1174
Piano action. Upright	P. D. Strauch	694,118	Feb. 25	3631	802	98	1697
Piano attachment	G. L. C. Borch	704,726	May 27	3153	717	100	1876
Piano attachment. Upright	A. A. Van Buren	710,548	Oct. 7	293	64	101	59
Piano damper-action	C. Otto	713,337	Nov. 11	1699	383 384	101	1262
Piano extension-pedal	R. F. Lotspeich	707,706	Aug. 26	3284	735	100	1843
Piano foot-rest and pedal extension	A. M. Bates	704,498	July 15	2123	459	100	459
Pianoforte-action	G. M. Guild	709,630	Sept. 23	3155	705	100	2676
Pianoforte pedal-action	J. Krumscheid	713,951	Nov. 18	2871	524	101	1543
Pianoforte wrist-supporting attachment	A. Jones	703,343	July 8	1825	396	100	335
Piano-guard	A. A. Huseby	698,505	Apr. 29	3941	871	99	898
Piano-hammer-voicing device	H. E. Finney	696,025	Mar. 25	3158	712	98	2419
Piano-key mounting	T. Tonnesen and I. Carlson	703,021	June 24	3202	737	99	2823
Piano-moving device	T. E. French	713,626	Nov. 18	2269	505	101	1394
Piano or organ player. Automatic	M. L. Watson	700,390	May 20	2512	575	99	1722
Piano-pedal	E. G. Wittman	693,477	Feb. 18	2393	524	98	1399
Piano pedal-action	J. Dierdorf	713,774	Nov. 4	267	181	101	101
Piano-player	J. Courville	695,862	Mar. 18	2840	645	98	2340
Piano-player	A. E. Whitehead	705,000	July 15	3119	672	100	665
Piano-player. Automatic	J. Sampere	690,618	Jan. 7	476	103 104	98	102
Piano-player. Automatic	F. C. White	697,226	Apr. 8	1576	352 353	99	354
Piano-player. Pneumatic	S. B. Locklin	706,574	Aug. 12	1114	247	100	1356
Piano-player valve	J. H. Chase	710,097	Sept. 30	4079	920 921	100	2880
Piano-players. Double-bellows action for pneumatic	T. P. Brown and P. Welin	701,535	June 3	451	101	99	2300
Piano-players. Fastening for mechanical	J. A. Smith	711,540	Oct. 21	2309	480	101	489
Piano-players. Governing device for pneumatic	692,378	Feb. 11	1411	366	98	1115	
Piano-players to pianos. Device for fastening	J. H. Chase	714,635	Nov. 25	4303	999	101	1811
Piano. Pneumatic	S. K. Reynolds	702,080	June 10	1343	306	99	2401
Piano self-playing attachments. Pedal for	J. Wieser	705,002	July 15	3123	673	100	666
Piano-string bearing	H. McClellan	703,708	July 1	613	136	100	121
Piano-support	P. Olsen	704,977	May 27	3630	834	99	1972
Piano. Tremolo	P. Pomeroy	715,890	Dec. 16	2343	518	101	2355
Piano-tuning pin	F. W. Osterberg	713,326	Nov. 11	1698	883	101	1362
Piano vibrato-sostenuto attachment	H. H. Northrop	696,474	Apr. 1	147	35	99	36
Piano. Wireless	I. F. Gilmore	699,840	May 13	1377	319	99	1472
Pianos. Automatic attachment for	J. A. Smith	699,931	Dec. 13	1564	360	99	1512
Pianos. Combined touch-regulating and mute attachment for	L. Harriss and W. H. Kendall	716,034	Dec. 16	2672	590 591	101	2426
Pianos. Repetition-action for	L. Charpiat	717,349	Dec. 30	5345	1162	101	3081
Pick. &c.	L. Mathias and E. L. Ray	691,147	Apr. 23	3304	724	99	748
Pick. Coal-	F. Horn	704,039	July 8	1239	266	100	261
Pick. &c. Prospector's	F. S. Goldsmith	691,309	Jan. 14	1773	408	98	384
Picker:							
See Berry-picker.	Fruit or flower picker.						
Cranberry-picker.	Hair picker.						
Fruit-picker.	Loom-picker						
Picker-stick strap	C. Faber	707,406	Aug. 19	2681	605	100	1702
Pickling and swilling apparatus	J. R. Phillips	708,660	Sept. 9	1190	271 272	100	2234
Pictorial device	J. A. Imhof	698,838	Apr. 29	4682	1031	99	1062
Picture	L. Husson	692,391	Feb. 4	133	31	98	822
Picture. Automatic moving shadow	F. W. Osterberg	693,430	Feb. 11	2348	503	98	1312
Picture-displaying apparatus	P. J. Jackson	713,988	Nov. 18	2957	656	101	1340
Picture. Embossed	A. Berninger	710,741	Oct. 7	656	136	101	133
Picture exhibiting and taking machine	W. N. Selig	712,462	Oct. 28	3960	866 867	101	869
Picture-exhibitor	T. T. McGilvary	700,702	May 20	3094	703	99	1848
Picture-exhibitor and phonograph. Combined	T. F. Burgess	698,369	Apr. 22	3696	816 817	99	831
Picture-frame	R. Seebach	696,502	Apr. 1	190	46	99	45
Picture-frame	F. A. Buechner	696,935	Apr. 8	1063	235 236	99	246
Picture-frame. Combination	F. L. and W. G. Stiff	713,170	Nov. 11	1344	303	101	1189
Picture-frame corner-support	J. T. Nelson	700,548	May 20	2807	642	99	1785
Picture-frames. Fastener for backings in	J. L. Tapscott	700,256	May 20	2234	511	99	1669
Picture-frames. Machine for manufacturing	C. E. Sandstrom	713,157	Nov. 11	1304	295 296	101	1182
Picture-frames. Machine for mounting ornamental composition directly upon circular	F. E. Adams. (Reissue)	11,980	Apr. 8	1957	433	99	434
Picture-hanger	C. I. Still	696,510	Apr. 1	204	49	99	48
Picture-hanger	G. Kopp	696,981	Apr. 8	1152	256	99	264
Picture-hanger	G. H. Chance	701,149	May 27	3305	910	99	2943
Picture-hook hanger	M. A. Bye	703,178	June 24	3506	806	99	2889

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec	Dr &	Vol.	Page.
Picture machine. Moving.....	O. Snell.....	695,003	Mar. 11	1278	281	98	2000
Picture-mat-cutting machine.....	P. Drinkaus.....	697,997	Apr. 22	3011	661	99	689
Picture-mat-cutting machine.....	C. I. Shawyer.....	704,116	Sept. 16	3133	487	100	2448
Picture-mount and portfolio therefor	M. W. McDonald.....	693,032	Feb. 11	1538	335	98	1142
Picture or design and making same	C. Naylor.....	704,564	July 15	2254	488	100	487
Picture-projecting apparatus.....	G. W. Smith.....	700,447	May 20	2613	597	99	1745
Picture-projecting apparatus.....	G. W. Smith and W. A. Somers.....	700,709	May 20	3108	706	99	1850
Picture-suspending device.....	C. H. Worsnop.....	716,609	Dec. 23	3836	707	101	2684
Pictures. Apparatus for animated	J. Bianchi.....	708,303	Sept. 2	566	129	100	2097
Pictures. Apparatus for exhibiting or viewing animated	E. B. Koopman.....	713,312	Nov. 11	1661	373	101	1253
Pictures. Distantly reproducing	H. R. Palmer.....	718,140	Nov. 11	1275	289	101	1176
Pictures. Making.....	B. Hawley.....	691,138	Jan. 14	1435	326	98	314
Pie-lifter.....	E. R. Thomas.....	695,966	Mar. 25	3031	687	98	2392
Pier for the support of bridges	G. Pascale.....	693,030	Feb. 11	1538	338	98	1145
Piers, &c. Shifting device for	W. D. Baldwin and A. Sundh.....	700,470	May 20	2664	610	99	1754
Piers, &c. Shifting device for	W. D. Baldwin and A. Sundh.....	700,599	May 20	2888	663	99	1801
Piers, &c. Shifting device for	W. D. Baldwin and A. Sundh.....	700,600	May 20	2889	664	99	1801
Piers, &c. Shifting device for	W. D. Baldwin and A. Sundh.....	702,393	June 17	2004	457	99	2556
Pigeon timing device. Carrier	E. Buysse.....	703,381	July 1	32	7	100	9
Pigment.....	C. D. Vreeland.....	691,421	Jan. 21	2005	98	98	452
Pigment.....	C. D. Vreeland.....	691,423	Jan. 21	2007	98	98	452
Pigment.....	A. S. Ramage.....	708,584	Sept. 9	1045	100	2204	
Pigment and paint composition	C. D. Vreeland.....	691,422	Jan. 21	2006	98	98	452
Pigment and producing same	W. N. Blakeman, Jr.....	702,177	June 10	1626	99	2460	
Pigment and the production thereof from ferrous liquors	A. S. Ramage.....	691,324	Jan. 14	1800	409	98	390
Pigments. Manufacturing white	J. B. Hannay.....	712,527	Nov. 4	120	29, 30	101	923
Pigments and products produced thereby. Treating	W. N. Blakeman, Jr.....	702,178	June 10	1627	99	2460	
Pigments for paints. Treating	W. N. Blakeman, Jr.....	702,174	June 10	1619	99	2459	
Pigments. Imparting drying properties to	W. N. Blakeman, Jr.....	702,173	June 10	1617	99	2459	
Pigments. Making	J. Lones.....	707,434	Aug. 19	2733	100	1713	
Pile.....	A. A. Raymond.....	700,707	May 20	3105	706	99	1850
Pile. Composite	E. Thacher.....	691,418	Jan. 21	2000	449	98	451
Pile-driver	J. H. Hopkins.....	705,586	July 29	4402	954	100	952
Pile-driver	J. M. Thomas.....	715,177	Dec. 2	1004	217	101	2042
Pile-driver. Steam	J. Grapengeter.....	693,600	Feb. 18	2639	582	98	1388
Pile fabric. Machine for cutting loops of	J. D. Knowlton.....	701,578	June 3	537	117	99	2219
Pile fabric. Producing figured	O. Timme.....	705,977	July 29	5196	1113	100	1098
Pile fabric. Woven	A. F. McCollum.....	690,012	Jan. 7	1029	231	98	215
Pile fabric. Woven	T. T. Smith.....	691,193	Jan. 14	1535	346	98	335
Pile fabric. Woven	T. B. Dornan.....	696,015	Mar. 25	3133	707	98	2413
Pile fabric. Woven	R. R. Tweed and H. J. Mackintosh.....	715,521	Dec. 9	1647	358	101	2190
Pile fabric. Woven	E. F. Clark.....	716,519	Dec. 23	3654	797	101	2644
Pile fabric. Woven double	J. Killars.....	701,573	June 3	526	115	99	2217
Pile for wharves, &c.	E. Thacher.....	691,417	Jan. 21	1999	448	98	451
Pile or nap fabrics. Apparatus for producing	J. Eaton.....	702,854	June 17	2875	664	99	2730
Piles. Driving	C. Scoysmith.....	711,013	Oct. 14	1163	257	101	255
Piles. Placing	C. Scoysmith.....	718,164	Nov. 11	1329	299	101	1187
Piling	A. B. Clark.....	693,235	Feb. 11	1936	421	98	1222
Piling and wall structure. Metal-sheet	N. S. Taylor.....	717,135	Dec. 30	4936	1070	101	2942
Piling-machine	D. J. Brophy.....	693,103	Feb. 11	1634	357	98	1161
Piling. Sheet	L. P. Friestedt.....	707,837	Aug. 26	3589	810	100	1903
Pill-machine	W. Rabich.....	700,370	May 20	2475	567	99	1716
Pill-making machine	J. N. Dewes.....	704,867	July 15	2796	604	100	598
Pills. Device for facilitating taking	B. Kopenhagen.....	697,209	Apr. 8	1548	346	99	348
Pillow-brusher	F. Franke.....	703,722	July 1	643	142	100	128
Pillow or cushion. Sofa	C. E. Bentley.....	690,914	Jan. 14	1033	232	98	223
Pillow. Sham	H. F. Snodgrass.....	693,454	Feb. 18	2345	513	98	1328
Pillow-sham holder	I. Hebert.....	695,555	Mar. 18	2290	517	98	2227
Pillow-sham holder	M. A. Yenner.....	701,984	June 10	1257	286	99	2385
Pillow-sham holder	T. Bambauer.....	702,765	June 17	2712	632	99	2705
Pillow-sham holder. Portable	G. P. Coleman.....	692,238	Feb. 4	39	9	98	806
Pillow. Wire	C. A. Way.....	713,025	Nov. 4	1045	243	101	1110
Pilot coupling and buffer. Combined	W. H. Lewis and C. A. Seley.....	691,472	Jan. 21	2097	460	98	471
Pilot-house indicator for steamboats, &c.	J. N. Vainman.....	715,325	Dec. 9	1291	276	101	2120
Pin:							
See Bowling-alley pin. Keyless pin.							
Clothes-pin.	Larding-pin.						
Coupling-pin.	Marking-pin.						
Hair-pin.	Rolling-pin.						
Hat-pin.	Safety-pin.						
Hinge-pin.	Tethering-pin.						
Insulator-pin.							
Pin	H. A. Kimball.....	696,570	Apr. 1	318	74	99	71
Pin	G. W. Dover.....	706,168	Aug. 5	325	69	100	1383
Pin	G. W. Dover.....	711,152	Oct. 14	1444	313	101	315
Pin	A. A. Mannings.....	712,317	Oct. 23	3683	804	101	809
Pin	G. W. McGill.....	712,952	Nov. 4	929	215	101	1087
Pin	E. N. Gaillard.....	717,185	Dec. 30	5067	1099	101	2971
Pin-bender	F. L. Lemon.....	715,674	Dec. 9	1933	433	101	2248
Pin-clasp	H. T. Igelstrom.....	715,808	Dec. 16	2221	494	101	2268
Pin-fastening device	J. Zeily.....	708,610	Sept. 9	1094	246	100	2214
Pin-holder	E. Koller.....	698,295	Apr. 22	3576	758	99	806



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Invention.	Name	No.	Date.	Monthly volume.		Official Gazette.	
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Pin-keeper .....	C. G. Pingel .....	712,330	Oct. 28	3708	810	101	815
Pin machine. Safety- .....	P. E. Wiberg .....	713,728	Nov. 18	2446	546	101	1431
Pin-retainer .....	C. N. Brown .....	712,252	Oct. 28	3571	781	101	786
Pin-sticking machine. Safety- .....	W. D. Middlebrook .....	693,978	Feb. 25	3370	739 740 741	98	1554
Pin-tongue safety device .....	O. Wentzel .....	703,715	July 1	627	140	100	124
Pin-wheel and star-wheel motion .....	J. T. Cradick .....	699,912	May 13	1528	351	99	1505
Pins. Manufacturing safety- .....	P. E. Wiberg .....	713,727	Nov. 18	2445	546	101	1431
Pincers or squeezing device .....	A. Geering .....	692,262	Feb. 4	90	21	98	817
Ping-pong-net support .....	L. H. Nelson .....	712,577	Nov. 4	226	53	101	944
Ping-pong racket .....	L. H. Nelson .....	716,464	Dec. 23	3539	773	101	2620
Ping-pong-table net-support .....	A. Ek .....	709,669	Sept. 23	3227	720	100	2691
Pipe:							
See Air-conducting pipe. Smoker's pipe.							
Heating or cooling pipe. Smoking-pipe.							
Lock-bar pipe. Stovepipe.							
Organ-pipe. Tobacco-pipe.							
Railway stand-pipe. Water-pipe.							
Sheet-metal pipe.							
Pipe .....	T. M. Saurman .....	702,249	June 10	1736	392	99	945
Pipe and flange .....	C. F. Cradick and G. W. Farlin, Jr. ....	699,289	Mar. 6	1518	370	99	1236
Pipe. Apparatus for drawing butt-weld .....	P. Patterson .....	715,857	Dec. 16	2336	517	101	2354
Pipe-bending apparatus .....	W. W. Benson .....	706,010	Aug. 5	13	3, 4	100	1119
Pipe-bending apparatus .....	W. W. Benson .....	715,000	Dec. 2	702	148	101	1977
Pipe-bending machine .....	A. Theuerkauf .....	695,350	Mar. 11	1917	426 427	98	2181
Pipe-bracket. Removable .....	F. F. Parsons .....	703,454	July 1	151	35	100	32
Pipe-clamp .....	H. P. Reed .....	706,781	Mar. 12	1518	337	100	1443
Pipe clean-out. Drain or soil .....	694,140	Feb. 25	3663	810	98	1614	
Pipe-cleaner .....	J. L. Steitz .....	695,767	Mar. 18	2657	604	98	2302
Pipe-cleaning apparatus .....	E. D. Case .....	709,302	Sept. 16	2495	562	100	2525
Pipe-collar .....	E. J. Mallen .....	694,873	Mar. 4	1036	229	98	1931
Pipe-compensator .....	K. Schmidt .....	700,378	May 20	2490	570 571	99	1719
Pipe connection .....	A. W. Cram .....	691,246	Jan. 14	1629	372	98	355
Pipe connection .....	G. F. Ryan .....	702,596	June 17	2398	548	99	2698
Pipe-coupling .....	A. E. Dart .....	690,517	Jan. 7	201	58	98	63
Pipe-coupling .....	A. Barr .....	691,346	Jan. 21	1872	422	98	424
Pipe-coupling .....	O. Eisenhuth .....	692,642	Feb. 4	747	173	98	953
Pipe-coupling .....	J. E. Forsyth .....	692,651	Feb. 4	761	175	98	955
Pipe-coupling .....	J. Burke .....	693,830	Feb. 25	3061	675	98	1493
Pipe-coupling .....	W. M. Pearce .....	694,472	Feb. 25	3557	783	98	1501
Pipe-coupling .....	J. Y. Robertson .....	694,422	Mar. 4	1057	248	98	2148
Pipe-coupling .....	C. J. MacClain and S. S. Colvin .....	695,066	Mar. 11	1405	308	98	2026
Pipe-coupling .....	H. O. Mooney .....	695,071	Mar. 11	1414	310	98	2028
Pipe, &c. coupling .....	S. E. Diescher .....	701,019	May 27	3726	854	99	1994
Pipe-coupling .....	J. W. S. Nycum .....	704,909	July 15	2908	624	100	626
Pipe-coupling .....	A. M. Kidd and W. A. Gibbons .....	709,779	Sept. 23	3444	775	100	2735
Pipe-coupling .....	L. S. Osgood .....	710,004	Sept. 30	3601	883	100	2843
Pipe-coupling .....	C. L. Wilmot .....	713,036	Nov. 4	1967	248	101	1114
Pipe-coupling .....	C. Vandall .....	714,625	Nov. 25	4187	926	101	1848
Pipe-coupling .....	J. M. Werth .....	715,222	Dec. 2	1093	234	101	2060
Pipe-coupling .....	A. G. Mersing .....	716,260	Dec. 16	3130	686	101	2521
Pipe coupling. Automatic train- .....	W. G. Trethewey .....	707,988	Aug. 26	3868	860	100	1958
Pipe-coupling clamping-ring .....	F. N. Smith .....	696,603	Apr. 1	375	88, 89	99	88
Pipe-coupling. Disconnectible .....	O. Ledovsky .....	713,777	Nov. 18	2540	566	101	1433
Pipe-coupling. Duplex .....	J. J. Kelly .....	716,234	Dec. 16	3827	628	101	2439
Pipe-coupling. Flexible-joint .....	N. J. Tubbs .....	714,065	Nov. 18	3114	688	101	1573
Pipe coupling mechanism. Railway steam or air .....	H. H. Warner .....	708,103	Sept. 2	188	44, 45	100	2020
Pipe coupling. Train- .....	J. E. Forsyth .....	692,511	Feb. 4	508	119	98	902
Pipe coupling. Train- .....	J. E. Forsyth .....	693,125	Feb. 11	1689	368 369	98	1172
Pipe coupling. Train- .....	G. L. Bonham .....	702,833	June 10	973	218	99	2230
Pipe coupling. Train- .....	T. M. Henderson .....	709,401	Sept. 16	2686	605	100	2538
Pipe crimper. Sheet-metal- .....	M. L. Hunker .....	699,527	May 6	747	175	99	1329
Pipe-cutter .....	G. Mitchell .....	691,649	Jan. 21	2418	544	98	538
Pipe-cutter .....	R. J. O'Neill and T. Byrne .....	695,482	Mar. 18	2136	482	98	2106
Pipe cutter and wrench .....	A. S. Boyd and G. Yearnell .....	702,919	June 24	2995	689	99	2781
Pipe-cutting machine. Rotary .....	H. E. Boyd .....	694,523	Mar. 4	359	79	98	1789
Pipe-cutting machine. Rotary .....	H. E. Boyd .....	694,524	Mar. 4	364	80	98	1790
Pipe. Drawing butt-weld .....	P. Patterson .....	715,856	Dec. 16	2333	517	101	2354
Pipe-elbow and fastening means therefor. Adjustable .....	A. G. Scherer .....	704,936	July 15	2985	639	100	640
Pipe-elbow-bending machine .....	E. H. Smith .....	712,608	Nov. 4	281	66, 67	101	957
Pipe-elbow blank .....	E. H. Smith .....	709,119	Sept. 16	2127	488	100	2449
Pipe ends. Machine for tapering corrugated- .....	J. H. Schlafly .....	707,648	Aug. 26	3163	711	100	1818
Pipe-fittings. Manufacture of .....	C. A. Dies .....	691,454	Jan. 21	2069	463	98	466
Pipe fittings or joints. Non-conducting covering for .....	J. W. Farley .....	701,999	June 10	1290	295	99	2391
Pipe-grab .....	V. Matula .....	700,216	May 20	2143	491	99	1649
Pipe-hanger .....	C. W. Smart .....	705,971	July 29	5098	1111	100	1082
Pipe-hanger .....	A. J. Beaton .....	706,292	Aug. 5	585	127	100	1233
Pipe-hanger .....	J. Crawford .....	706,903	Aug. 12	1751	391	101	1192
Pipe-hanger .....	H. S. Collins .....	709,815	Sept. 23	3518	793	100	2751
Pipe-hanger .....	J. Collis .....	716,192	Dec. 16	3011	657	101	2498
Pipe-holder and cigar-tray. Combined .....	G. G. Duer .....	695,580	Mar. 11	1968	440	98	2143
Pipe holder or clutch .....	D. P. Upson .....	705,724	July 29	4661	1010	100	1062
Pipe-jack .....	G. J. Maas .....	694,399	Mar. 4	124	28	98	1739
Pipe-joint .....	H. Brooke .....	693,367	Feb. 18	2181	479	98	1394
Pipe-joint .....	E. F. Osborne .....	696,106	Mar. 25	3325	750	98	2455
Pipe-joint .....	W. Kennelley .....	708,535	July 1	385	89	100	76
Pipe-joint .....	M. F. and C. Stephens .....	710,725	Oct. 7	624	130	101	128
Pipe-joint. Flexible .....	H. H. Warner .....	708,104	Sept. 2	189	45	100	2020

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Pipe-joint lock	E. Tyden	696,383	Mar. 25	3922	869	98	2575
Pipe-joint. Metallic and earthenware	G. F. Ryan	715,423	Dec. 9	1467	317	101	2155
Pipe-joint. Pivot	T. W. Moran	694,321	Feb. 25	4065	904	98	1087
Pipe-joints. Apparatus for constructing cold-packed	A. N. Rankin	716,579	Dec. 23	3779	882	101	2672
Pipe-jointer	C. Vandall	691,678	Jan. 21	2474	554	98	550
Pipe-leak-closing device	A. A. Sindelar	710,721	Oct. 7	617	139	101	126
Pipe-lifting machine	A. Hogenon	697,719	Apr. 15	2491	556	99	558
Pipe-lifting mechanism	A. Hogenon	697,625	Apr. 15	2320	518	99	524
Pipe-machine	G. Nordstrom	695,480	Mar. 18	2133	481	98	2185
Pipe. Making butt-weld	P. Patterson	714,735	Dec. 2	159	32	101	1869
Pipe-making machine	J. H. Martin and D. Ormand	695,748	Mar. 18	2633	597	98	2296
Pipe-making machine	J. H. Martin and D. Ormand	695,749	Mar. 18	2634	598	98	2297
Pipe-molds. Profile-tool for making	F. Burgers	705,378	July 22	3948	855	100	848
Pipe or conduit	A. W. Cooksey	704,238	July 8	1628	352	100	340
Pipe or main	W. S. Corbin	696,316	Mar. 25	3771	840	98	2547
Pipe or rod fitting	L. Albertson	695,622	Mar. 11	1321	292	98	2009
Pipe or tube sawing machine	H. W. Hathorn	700,118	May 13	1835	441	99	1577
Pipe-perforating machine	E. R. Graham	708,763	Sept. 9	2357	522	100	2317
Pipe-puller	J. Haire	708,251	June 24	3642	837	99	2000
Pipe-sections. Means for punching rivet-holes in sheet-metal	G. M. Livingstone	712,435	Oct. 28	3917	857	101	560
Pipe, shaft, &c., coupling	S. E. Diescher	701,020	May 27	3728	854	99	1994
Pipe-stopper and tobacco-tamper	J. S. von Nieda	716,269	Dec. 16	3141	688	101	2523
Pipe T-coupling	J. J. Reilly	713,347	Nov. 11	1719	388	101	1265
Pipe thimble or insulator	W. B. Safford	698,234	Feb. 14	1643	392	99	2424
Pipe-union	R. F. Lindsay	692,881	Feb. 11	1195	265	98	1070
Pipe-union	H. E. Marsh	714,726	Dec. 2	143	29	101	1866
Pipe-union. Swiveled-valve	G. H. Schamp	715,425	Dec. 9	1473	318	101	2156
Pipe-wrench	F. I. Webber	692,093	Jan. 28	3267	738	98	727
Pipe-wrench	M. G. Lewis	695,463	Mar. 18	2106	474	98	2190
Pipe-wrench	W. D. Huntoon	696,339	Mar. 25	3808	849	98	2554
Pipe-wrench	G. W. Brufford	697,977	Apr. 22	2357	522	99	2000
Pipe-wrench	A. Underwood	698,765	Apr. 29	4192	992	99	1017
Pipe-wrench	C. C. Longard	699,693	May 13	1094	256	99	1413
Pipe-wrench	H. F. Renner	700,087	May 13	1842	420	99	1567
Pipe-wrench	F. C. Matteson	701,066	May 27	3799	870	99	2009
Pipe-wrench	O. J. Wight	701,227	May 27	4108	945	99	2073
Pipe-wrench	W. Love	701,489	June 3	373	85	99	2186
Pipe-wrench	G. H. Swarthout	702,079	June 10	1452	426	99	2424
Pipe-wrench	J. F. Stempert	702,253	June 10	1741	393	99	2483
Pipe-wrench	A. P. McBride	703,292	June 24	3702	853	99	2921
Pipe-wrench	W. H. Enderton	705,054	July 22	3220	690	100	704
Pipe-wrench	J. T. Ford	705,060	July 22	3241	701	100	706
Pipe-wrench	H. Pease	705,128	July 22	3385	733	100	734
Pipe-wrench	J. G. Moritt	705,596	July 23	4430	960	100	857
Pipe-wrench	C. L. Duffham	705,742	July 29	4700	1017	100	1010
Pipe-wrench	W. Holmes	706,733	Aug. 12	1467	323	100	1432
Pipe-wrench	F. A. Palmer and F. Sharpe	708,252	Sept. 2	471	107	100	2077
Pipe-wrench	E. A. Ware	709,064	Sept. 16	2019	461	100	2424
Pipe-wrench	C. C. Rueger	710,077	Sept. 30	4033	909	100	2871
Pipe-wrench	W. H. Rowe	714,610	Nov. 25	4154	919	101	1803
Pipe-wrench. Chain	G. Amborn, Jr.	698,780	Apr. 29	4514	998	99	1022
Pipes. Apparatus for turning terra-cotta	A. Robinson	710,894	Oct. 7	2936	805	101	120
Pipes. Cleansing	G. F. Mittinger, Jr.	695,323	Mar. 11	1875	418	98	2122
Pipes, &c., Hanger for	A. B. Carl	702,704	June 17	2591	596	99	2679
Pipes. Lining	J. T. Hinds	714,903	Dec. 2	532	114	101	1942
Pipes or tubes. Die for tapered	W. Smith	712,974	Nov. 4	961	223	101	1033
Pipes. Plug and coupling for water or steam	I. N. and J. H. Glauber	704,821	July 15	2719	588	100	582
Pipes, rods, &c. Apparatus for cutting	P. Winn	708,790	Sept. 9	1448	351	100	2230
Pipes, rods, electric-line conductors, &c. Covering for	O. T. Hungerford	695,726	Mar. 18	2592	586	98	2388
Piperidin salt and making same.	W. B. and A. Bishop and F. W. Passmore.	717,066	Dec. 30	4815		101	2917
Pipette	H. Comer	694,530	Mar. 4	383	84	98	1794
Pipette	E. Mummendey	697,647	Apr. 15	2358	526	99	531
Pistol	G. Troxler, Jr.	707,036	Aug. 12	1971	442	100	1536
Pistol. Magazine	T. J. Bennett	696,559	Apr. 22	2357	522	99	2000
Pistol	S. Trethewey	693,085	Feb. 11	1597	348	98	1154
Piston	E. E. Baldwin	697,965	Apr. 22	2336	648	99	674
Piston and piston-rod	A. F. Ritchie	694,078	Feb. 25	3565	787	98	1594
Piston for gas or other motors	H. E. Ebbs	700,309	May 20	2354	536	99	1691
Piston guiding and packing device	J. B. Allfree	696,920	Apr. 8	1019	226	99	236
Piston lubricator. Steam-engine	J. C. Blaney	690,510	Jan. 7	277	56	98	60
Piston-ring. Extensible	O. Johnson	703,580	July 1	277	56	100	75
Piston. Steam or other	E. Berry	693,777	Feb. 15	2350	650	98	1452
Pitch-board. Adjustable	A. Jones	710,058	Sept. 30	3996	902	100	2863
Pitcher. Syrup	E. J. Marcotte	700,524	May 20	2767	633	99	1777
Pith or core from the rind portion of fibrous material. Apparatus for separating the	A. J. Adamson	707,531	Aug. 26	2921	661	100	1769
Pitman	P. D. Jones	691,059	Jan. 14	1309	296	98	988
Pitman	G. Wilson	690,388	May 6	438	100	99	1264
Pitman connection	J. E. Gundry	698,934	Apr. 29	4847	1069	99	1096
Pitman connection	J. Glenn	700,910	May 27	3514	806	99	1949
Pitman connection	J. W. Jester	717,098	Dec. 30	4865	1054	101	2927
Pitman-coupling	J. R. Carter	707,386	Aug. 19	2641	596	100	1694
Pitman-rod connection	G. W. Beam	698,357	Apr. 22	3676	811	99	827
Pivot-joint for tobacco-stalk cutters, pruning-shears, &c.	J. S. Kaufman	715,482	Dec. 9	1580	342	101	2176
Placket-closer	G. W. Romaine	693,623	Feb. 18	2678	591	98	1396
Placket-closing device	C. Brandt	701,674	June 3	715	158	99	2258
Placket-closure	L. W. Luellen	697,860	Apr. 15	2756	610	99	618



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr.-g.	Vol.	Page.
Placket-fastener	F. A. Cammann	703,718	July 1	631	141	100	125
Placket-fastener	N. R. Taylor and W. C. Atwater	703,750	July 1	694	154	100	138
Placket-fastener	J. R. Smith	705,463	July 22	4101	891	100	880
Placket-fastener	T. M. Stearn	710,123	Sept. 30	4136	932	100	2892
Placket-fastener. Skirt	J. P. Famous	712,280	Oct. 28	3621	791	101	796
Plaiting apparatus	A. W. Chambers	691,241	Jan. 14	1622	370	98	354
Plaiting apparatus	C. A. and S. A. Reynolds	695,082	Mar. 11	1430	314	98	2031
Plaiting-machine	E. W. Silsby	690,781	Jan. 7	794	177	98	167
Plaiting-machine	M. F. Koch	707,933	Aug. 26	3767	845	100	1939
Plaiting-machine	W. J. Finch and W. Crayne	715,469	Dec. 9	1551	326	101	2170
Plaiting-machine roll	D. L. Chandler	701,841	June 10	905	222	99	2333
Plane	H. Richards	696,081	Mar. 25	3252	736	98	2498
Plane	G. P. Davidson	696,414	Apr. 8	42	33	99	1633
Plane	A. W. Stanley and H. S. Walter	703,158	June 24	3479	800	99	2875
Plane	A. L. Lundgren	706,576	Aug. 12	1120	247	100	1357
Plane	J. A. Traut	706,704	Aug. 12	1351	301	100	1408
Plane	A. W. Stanley	707,365	Aug. 19	2600	588	100	1685
Plane	L. C. Clark	708,318	Sept. 2	592	134	100	2102
Plane	C. H. Fox	710,678	Oct. 7	536	111	101	190
Plane	L. M. Curry	715,352	Dec. 9	1341	289	101	2130
Plane	M. D. Converse	716,886	Dec. 23	3382	733	101	2587
Plane. Bench	J. A. Traut	710,542	Oct. 7	287	64	101	58
Plane. Core-box	A. S. Brower	695,668	Mar. 18	2496	566	98	2269
Plane. Grooving	J. A. Traut	707,281	Aug. 19	2453	550	100	1655
Plane guide. Bench	G. G. Dennis	701,471	June 3	343	76	99	2180
Plane-iron cap	J. A. Traut and H. S. Walter	707,343	Aug. 19	2600	588	100	1685
Planedies	E. H. Rieker and H. S. Walter	707,356	Aug. 19	2586	584	100	1682
Plane. Recessing or grooving	F. Clayton	707,085	Aug. 19	2078	464	100	1575
Planer	E. Rawson	715,145	Dec. 2	951	205	101	2630
Planer-bed	E. C. Mershon	693,559	Feb. 18	2539	559	98	1808
Planer-bed. Adjustable	G. S. Myrick	705,540	July 22	4311	933	100	919
Planer or analogous tool. Crank-	H. E., F. L., and E. G. Eberhardt	700,679	May 20	3027	692	99	1832
Planing-machine	W. O. Vivarttas	693,576	Feb. 18	2588	573	98	1377
Planing-machine	C. W. H. Blood	694,314	Feb. 25	4056	901	98	1685
Planing-machine	J. R. Thomas	701,104	May 27	3862	888	99	2022
Planing-machine	W. W. Carey	702,341	June 10	1898	433	99	2313
Planing-machine cutting-tool	E. H. Slater	706,264	Aug. 5	511	109	100	1219
Planing-machine. Double-working	J. Lehmann and H. Maurer	705,852	July 29	4855	1062	100	1049
Planing-machine knife-grinding attachment	B. Heywood	695,031	Mar. 25	2971	672	98	2381
Planimeter	B. W. Bryan	700,732	May 27	3174	722	99	1879
Plant chopper and thinner	A. H. Meade	691,282	Jan. 14	1700	387	98	372
Plant-destroying implement	J. Ludwig and J. Carstens	696,421	Apr. 12	1159	288	99	236
Plant pot or holder	E. H. Slater	706,821	Apr. 12	1532	338	100	1459
Plant-protector	J. W. Ross	704,116	July 8	1405	302	100	295
Plant-protector	E. C. H. Behrens	705,019	July 22	3169	684	100	692
Plant-protector	L. J. Merriman	707,247	Aug. 19	2380	533	100	1639
Plant-thinner	A. Espinosa	692,196	Jan. 28	3438	778	98	703
Plants. Composition for protecting growing	J. W. White	698,345	Apr. 22	3646	881	99	821
Plants. Means for growing and transplanting	R. R. Parker	695,464	Mar. 18	2139	488	98	2197
Plants. Poison-distributor for growing	E. Zedlitz	715,929	Dec. 16	2477	545	101	2385
Planter	M. B. Gooing	694,852	Mar. 4	990	219	98	1922
Planter	R. Stuckwisch	695,008	Mar. 11	1293	285	98	2003
Planter	F. R. Welton	695,128	Mar. 11	1526	338	98	2050
Planter	J. A. Anderson	698,349	Apr. 22	3655	808	99	823
Planter	J. J. Olinger	699,556	May 6	804	180	99	1341
Planter	J. M. Walton	701,779	June 8	880	198	99	2295
Planter	A. J. Owens	702,327	June 10	1867	425	99	2508
Planter	R. Murphy	707,152	Aug. 19	2203	493	100	1601
Planter and cultivator	J. R. Jones	696,823	Apr. 1	803	184	99	170
Planter and cultivator	J. R. Jones	700,503	May 20	2733	624	99	1769
Planter and fertilizer-distributor. Combined corn-	H. D. Mattox	697,510	Apr. 15	2103	467	99	841
Planter and fertilizer-distributor. Combined cotton-	F. M. Hudgins	699,758	May 13	1214	282	99	1437
Planter and fertilizer-distributor. Combined seed-	A. G. W. Foster, Sr	706,404	Aug. 5	809	176	100	1277
Planter and fertilizer-distributor. Corn	E. G. Henry	709,575	Sept. 23	3068	683	100	2658
Planter and fertilizer-distributor. Corn and cotton	J. W. Stevens	708,574	Sept. 9	1210	271	100	2238
Planter and fertilizer-distributor. Seed	R. S. Kirkpatrick	692,721	Feb. 18	2851	634	98	1432
Planter attachment	O. Tipton	717,473	Dec. 30	5569	1209	101	3075
Planter attachment. Corn	M. Johnson	707,928	Aug. 26	3759	844	100	1938
Planter. Check-row	J. R. Mulder	700,540	May 20	2707	638	99	1788
Planter. Check-row	W. La Follette	699,880	May 13	1477	339	99	1494
Planter. Check-row attachment. Corn	L. P. Graham	707,318	Aug. 26	3740	839	100	1933
Planter. Check-row corn	R. S. Kirkpatrick	692,721	Feb. 18	2851	634	98	1432
Planter. Check-row corn	W. R. Buchtela	703,532	July 1	1280	64	100	57
Planter. Check-row corn	J. Hillery	709,403	Sept. 16	2700	606	100	2560
Planter. Clutch. Corn	L. P. Graham	713,039	Nov. 4	1070	249	101	1115
Planter. Corn	D. and O. Somers and C. Powers	691,195	Jan. 14	1537	347	98	335
Planter. Corn	S. McNaghten	691,321	Jan. 14	1796	408	98	399
Planter. Corn	L. P. Booe	692,325	Feb. 4	20	68	98	802
Planter. Corn	G. E. Gedge	695,042	Mar. 11	1962	206	98	2072
Planter. Corn	B. Cole	695,279	Mar. 11	1795	398	98	2107

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Planter. Corn.....	F. C. Harwood, G. E. Gedge, and P. T. J. Monson.	695,391	Mar. 11	1982	444 445	98	2146
Planter. Corn.....	J. L. Bradshaw	695,442	Mar. 18	2068	466 467	98	2182
Planter. Corn.....	F. Kostlau	695,612	Mar. 18	2404	544 545	98	2251
Planter. Corn.....	W. L. Bogle	696,543	Apr. 1	272	63	99	62
Planter. Corn.....	W. S. Graham	697,402	Apr. 8	1900	424 425	99	423
Planter. Corn.....	H. L. Orendorff	698,382	Apr. 22	3716	821 822	99	836
Planter. Corn.....	L. P. Graham	699,754	May 13	1206	251	99	1435
Planter. Corn.....	G. W. Brunton	700,731	May 27	3169	721 722	99	1878
Planter. Corn.....	L. P. Graham	701,712	June 3	777	99	2271	
Planter. Corn.....	L. P. Graham	703,247	June 24	3633	834	99	2307
Planter. Corn.....	L. P. Graham	703,342	June 24	3800	873 874	99	2943
Planter. Corn.....	I. A. Weaver	703,357	June 24	3833	881	99	2950
Planter. Corn.....	R. E. Dial and M. E. Garwood	704,622	July 15	2341	508 509	100	504
Planter. Corn.....	D. Eley	705,051	July 22	3219	697 698	100	702
Planter. Corn.....	D. Eley	705,052	July 22	3224	697 698	100	703
Planter. Corn.....	D. Eley	705,053	July 22	3228	698 699	100	703
Planter. Corn.....	W. F. Talbert	707,733	Aug. 26	3332	746	100	1853
Planter. Corn.....	L. P. Graham	707,771	Aug. 26	3347	772	100	1879
Planter. Corn.....	L. P. Graham	708,137	Sept. 3	257	62	100	2035
Planter. Corn.....	E. M. Heylman	708,979	Sept. 9	1830	421	100	2368
Planter. Corn.....	J. Barclay	709,294	Sept. 16	2478	558	100	2522
Planter. Corn.....	H. Rentsch	710,303	Sept. 30	4463	1007	100	2963
Planter. Corn.....	F. F. Smith	712,102	Oct. 23	3305	725	101	732
Planter. Corn.....	E. M. Heylman	712,453	Oct. 23	3942	863	101	865
Planter. Corn.....	C. W. Michael	712,564	Nov. 4	3748	47	101	830
Planter. Corn.....	L. P. Graham	713,212	Nov. 11	1419	321	101	1204
Planter. Corn.....	E. M. Heylman	713,217	Nov. 11	1427	322 323	101	1206
Planter. Corn.....	L. P. Graham	713,563	Nov. 11	2143	479	101	1352
Planter. Corn.....	S. H. Tinsman	713,818	Nov. 18	2613	583	101	1467
Planter. Corn.....	A. J. Kershner, Jr.	713,991	Nov. 18	2962	658	101	1541
Planter. Corn.....	W. S. Graham	716,408	Dec. 23	3428	748	101	2596
Planter. Corn or cotton	C. L. Ferriotti	692,646	Feb. 4	753	173	98	954
Planter. Corn or cotton	J. L. Boyd and J. Gillis	693,683	Feb. 18	2788	614	98	1419
Planter. Cotton.....	J. A. McCain	705,598	July 29	4433	960	100	958
Planter. Cotton.....	W. Furlong	709,895	Sept. 30	3691	832	100	2798
Planter. Cotton.....	R. A. Brown and T. W. Livingston	716,185	Dec. 16	2992	654	101	2494
Planter. Cotton-seed	A. G. Cox	698,459	Apr. 29	3870	854	99	883
Planter, cultivator, and harrow. Combined	W. A. Ansley	710,832	Oct. 7	836	182	101	170
Planter disk cutter attachment. Corn.....	H. Rentsch	710,211	Sept. 30	4309	969	100	2391
Planter. Disk seed.....	T. H. Hardcastle	697,479	Apr. 15	2055	54	99	472
Planter furrow-opener.....	J. L. Ashurst	692,000	Jan. 28	3087	694	98	692
Planter furrow opening and covering attachment	W. A. Harper	701,836	June 3	107	31	99	2131
Planter gage. Seed.....	J. H. Littler	713,228	Nov. 11	1450	329	101	1311
Planter grain-ejector. Corn.....	A. J. Marshall	702,572	June 17	2351	537	99	2323
Planter. Hand.....	F. E. Feil	691,384	Jan. 25	3058	687	98	687
Planter. Hand.....	C. C. Ross	692,482	Feb. 4	457	106	98	892
Planter. Hand corn.....	F. A. Collier	704,518	July 15	2169	469	100	470
Planter lister attachment.....	I. J. Kaar	714,308	Nov. 25	3612	794	101	1694
Planter marker-bar.....	W. H. Glosser	704,791	July 15	2640	571	100	566
Planter marker. Corn.....	L. J. Lindsay	695,218	Mar. 11	1691	375	98	2086
Planter marker. Seed.....	N. E. Schoonover	702,825	June 17	2822	648	99	2728
Planter. Potato.....	F. Schumann	700,566	May 20	2834	650	99	1790
Planter. Potato.....	L. A. Aspinwall	709,660	Sept. 23	3210	716	100	2688
Planter. Potato.....	T. L. Good	711,306	Oct. 14	1763	382	101	382
Planter. Seed.....	W. H. Ledbetter	693,724	Feb. 18	2859	630	98	1433
Planter. Seed.....	T. J. Gaynor	698,004	Apr. 22	3021	663	99	691
Planter. Seed.....	A. Gale	698,927	Apr. 29	4836	1067	99	1093
Planter. Seed.....	E. F. Israel	711,569	June 3	520	114	99	2216
Planter. Seed.....	E. L. Caraway	702,401	June 17	2014	459	99	2538
Planter. Seed.....	J. M. Higbe	709,442	Sept. 16	2774	624	100	2585
Planter. Seed.....	F. Berlin	712,175	Oct. 28	3442	755	101	759
Planter. Seed or potato.....	C. H. Gerling	700,030	May 13	1743	402	99	1546
Planter. Wireless corn.....	H. G. Witt	692,402	Feb. 4	319	77, 78	98	866
Planters. Cotton-planting attachment for corn.....	M. Joyner and J. D. Springer	694,285	Feb. 25	3944	878 879	98	1670
Planters. Means for manipulating marker-bars of	W. H. Glosser and G. L. Jones	715,475	Dec. 9	1563	339	101	2173
Planting apparatus. Potato or seed.....	C. L. Jervis	693,716	Feb. 18	2848	627	98	1430
Planting-machine.....	G. W. Jarmin	710,980	Oct. 14	1091	241 242	101	238
Planting machine. Corn.....	A. Lindgren	715,491	Dec. 9	1595	345 346	101	2180
Plaster. Blister.....	E. W. McAllister	716,265	Dec. 16	3135	687	101	2522
Plaster-board.....	J. Schratwieser	694,111	Feb. 25	3614	799	98	1603
Plaster composition.....	M. T. J. Ochs	705,542	July 22	4319	900	100	921
Plaster. Elastic.....	H. L. Carter	695,031	Mar. 11	1340	902	98	2012
Plaster-of-paris. Indurating.....	A. Brodsky	696,410	Apr. 1	36	99	11	
Plaster. Wall.....	N. J. Ruggles	708,591	Sept. 9	1057	100	2206	



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Plastic articles. Production of.....	E. Lottier .....	710,287	Sept. 30	4436	1000	100	2958
Plastic compound.....	S. B. Chroniger .....	715,022	Dec. 2	731	.....	101	1984
Plastic compound and manufacturing same	L. M. Randolph .....	698,856	Apr. 29	4711	.....	99	1008
Plastic compound and manufacturing same	L. M. Randolph .....	699,713	May 13	1123	.....	99	1419
Plastic material. Feeding mechanism for presses for	J. R. Masecar and T. Bevington .....	708,059	Sept. 2	113	27	100	2005
Plastic materials into shreds. Machine for separating	T. E. Edwards.....	702,933	June 24	3039	699	99	2788
Plastic materials. Machine for forming interior of	F. M. Locke .....	716,343	Dec. 16	3285	717	101	2531
Plastic materials. Machine for molding.....	W. Borrowe and J. Lumley .....	692,778	Feb. 4	985	223	98	998
Plastic materials. Machine for molding articles from	J. Simons and K. P. Hangl.....	712,735	Nov. 4	492	117	101	1000
Plastic materials. Press for making building or paving blocks from	J. A. Joyce .....	712,073	Oct. 23	3259	711	101	724
Plastic surfaces. Means for ornamenting.....	E. P. Brandt .....	715,965	Dec. 16	2540	561	101	2398
Plate-feeding apparatus. Magazine .....	G. N. Pifer .....	708,493	Sept. 2	890	201	100	2102
Plate-forming apparatus .....	A. Sandvig .....	699,018	Apr. 29	4983	1102	99	1123
Plate-handling machine .....	R. R. Spears .....	707,172	Aug. 10	2243	508	100	1610
Plate-holder. Magazine .....	C. P. Goerz .....	695,638	Mar. 18	2448	554	98	2259
Plate-holder. Magazine .....	A. A. Brooks and G. A. Watson .....	705,734	July 29	4679	1013	100	1006
Plate-holder. Magazine .....	C. P. Goerz .....	706,651	Aug. 12	1255	277	100	1388
Plate-holder. Magazine .....	K. Michaëlis .....	711,515	Oct. 21	2151	467	101	477
Plate or plaque hanger .....	J. E. L. Lohr .....	711,031	Oct. 14	1062	275	101	276
Plate or strip feeding mechanism .....	N. Howe .....	713,885	Oct. 28	2745	611	101	1405
Plate-straightening machine .....	C. L. Huston .....	712,300	Nov. 18	3654	798	101	803
Plate treating and tinning apparatus .....	J. R. Phillips .....	708,970	Sept. 9	1813	418	100	2364
Plates or tiles. Manufacturing .....	F. Gehre .....	692,197	Jan. 28	3439	.....	98	764
Plated table utensil .....	G. Brabrook .....	712,491	Nov. 4	51	13	101	908
Platen. Adjustable .....	D. M. Lester .....	709,339	Sept. 16	3561	569	100	2540
Platen-press guard .....	F. Crewe .....	708,867	Sept. 16	1612	376	100	2325
Platen-press inking mechanism .....	J. Thomson .....	717,143	Dec. 30	4650	1074	101	587
Platen-shift .....	E. S. Shimer .....	701,035	May 27	3848	884	99	2019
Platform: See Window-platform.							
Platform carrier .....	S. B. Peck .....	716,932	Dec. 30	4545	986	101	2859
Plating metal .....	W. Griffiths .....	704,793	July 15	2645	572	100	567
Playing-ball .....	F. H. Richards .....	696,351	Mar. 25	3828	853	98	2558
Playing-ball .....	F. H. Richards .....	696,879	Apr. 1	912	210	99	136
Playing-ball .....	E. Kempshall .....	698,516	Apr. 29	3955	874	99	901
Playing-ball .....	E. Kempshall .....	698,517	Apr. 29	3956	874	99	901
Playing-ball .....	E. Kempshall .....	699,089	Apr. 29	5094	1127	99	1147
Playing-ball .....	E. Kempshall .....	699,091	Apr. 29	5097	1128	99	1147
Playing-ball .....	E. Kempshall .....	699,092	Apr. 29	5100	1128	99	1148
Playing-ball .....	E. Kempshall .....	699,094	Apr. 29	5103	1128	99	1148
Playing-ball .....	F. H. Richards .....	699,513	May 13	1319	306	99	1459
Playing-ball .....	E. Kempshall .....	700,123	May 13	1905	442	99	1579
Playing-ball .....	E. Kempshall .....	700,124	May 13	1906	443	99	1579
Playing-ball .....	E. Kempshall .....	700,658	May 20	2991	686	99	1825
Playing-ball .....	E. Kempshall .....	700,942	May 27	3574	822	99	1961
Playing-ball .....	E. Kempshall .....	700,944	May 27	3576	823	99	1962
Playing-ball .....	E. Kempshall .....	702,799	June 17	2776	638	99	2717
Playing-ball .....	E. Kempshall .....	704,748	July 15	2571	554	100	552
Playing-ball .....	E. Kempshall .....	704,888	July 15	2741	593	100	587
Playing-ball .....	E. Kempshall .....	704,881	July 15	2823	610	100	604
Playing-ball .....	E. Kempshall .....	704,882	July 15	2824	610	100	604
Playing-ball .....	E. Kempshall .....	705,249	July 22	3659	791	100	790
Playing-ball .....	E. Kempshall .....	705,359	July 22	3919	849	100	842
Playing-ball .....	E. Kempshall .....	705,764	July 29	4732	1024	100	1016
Playing-ball .....	E. Kempshall .....	705,705	July 29	4733	1024	100	1017
Playing-ball .....	E. Kempshall .....	708,488	Sept. 2	869	198	100	2157
Playing-ball .....	E. Kempshall .....	708,484	Sept. 2	871	198	100	2158
Playing-ball .....	E. Kempshall .....	709,411	Sept. 16	2718	610	100	2573
Playing-ball .....	E. Kempshall .....	709,412	Sept. 16	2720	610	100	2573
Playing-ball .....	F. H. Richards .....	711,177	Oct. 14	1510	325	101	329
Playing-ball .....	F. H. Richards .....	711,178	Oct. 14	1511	325	101	330
Playing-ball .....	F. H. Richards .....	711,287	Oct. 14	1604	345	101	349
Playing-ball .....	F. H. Richards .....	711,328	Oct. 14	1610	346	101	350
Playing-ball .....	F. H. Richards .....	711,329	Oct. 14	1612	346	101	350
Playing-ball .....	F. H. Richards .....	711,230	Oct. 14	1614	346	101	350
Playing-ball .....	H. S. Chapman .....	711,474	Oct. 21	2074	448	101	460
Playing-ball .....	E. Kempshall .....	711,508	Oct. 21	2132	464	101	473
Playing-ball .....	F. H. Richards .....	711,529	Oct. 21	2187	476	101	485
Playing-ball .....	F. H. Richards .....	711,530	Oct. 21	2188	476	101	484
Playing-ball .....	E. Kempshall .....	712,381	Oct. 28	3814	833	101	837
Playing-ball .....	E. Kempshall .....	712,388	Oct. 28	3815	833	101	839
Playing-ball .....	F. H. Richards .....	712,412	Oct. 28	3860	846	101	849
Playing-ball .....	F. H. Richards .....	712,414	Oct. 28	3861	846	101	850
Playing-ball .....	F. H. Richards .....	712,415	Oct. 28	3863	846	101	850
Playing-ball .....	F. H. Richards .....	712,416	Oct. 28	3865	847	101	851
Playing-ball .....	E. Kempshall .....	713,770	Nov. 18	2531	563	101	1451
Playing-ball .....	E. Kempshall .....	713,772	Nov. 18	2533	564	101	1451
Playing-ball .....	E. Kempshall .....	714,917	Dec. 2	562	120	101	1948
Playing-ball .....	E. Kempshall .....	714,918	Dec. 2	564	120	101	1948
Playing-ball .....	E. Kempshall .....	715,206	Dec. 2	1067	229	101	2055
Playing-ball .....	F. H. Richards .....	715,295	Dec. 9	1233	263	101	2108
Playing-ball .....	F. H. Richards .....	716,347	Dec. 16	3238	719	101	2553
Playing-ball .....	F. H. Richards .....	716,348	Dec. 16	3239	719	101	2553
Playing-ball .....	F. H. Richards .....	716,349	Dec. 16	3236	719	101	2553
Playing-ball .....	E. Kempshall .....	717,413	Dec. 30	5466	1186	101	3054
Pleasure device .....	W. R. Inshaw .....	690,434	Jan. 7	94	20	98	23
Pleasure device .....	A. Kiddie .....	715,668	Dec. 9	1921	429	101	2245
Pliers .....	P. Broadbooks .....	699,909	May 13	1527	351	99	1505

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Pliers	I. A. Coon	702,542	June 17	2288	520	99	2615
Pliers	M. M. Howland	707,418	Aug. 19	2705	612	100	1707
Pliers	H. L. White	715,915	Dec. 16	2439	539	101	2375
Pliers and gripping-tool	H. G. Weibezahl	698,162	Apr. 22	3335	729	99	756
Pliers and tongs. Smith's	G. F. Budach	694,828	Mar. 4	943	209	98	1912
Pliers. Bending and cutting	S. M. Decker	690,933	Jan. 14	1069	240	98	239
Pliers. Hose	J. F. Sargent, Jr.	699,349	May 6	417	95	99	1259
Pliers. Wire-twisting	J. R. Gorsuch	699,164	May 6	68	17	99	1189
Pinth-block. Metal	J. J. Houlihan	709,320	Sept. 16	2326	527	100	2409
Plow	W. R. Oyler	690,761	Jan. 7	784	170	98	161
Plow	R. Herrling	691,464	Jan. 21	2087	467	98	469
Plow	F. L. Ezell	692,127	Jan. 28	3521	752	98	739
Plow	W. H. C. Schubert	693,451	Feb. 18	2941	512	98	1327
Plow	C. Wagner	693,468	Feb. 18	2374	519	98	1334
Plow	J. A. Ross	694,079	Feb. 25	3567	787	98	1594
Plow	J. W. Woodward	691,225	Feb. 25	3830	849	98	2509
Plow	O. W. and M. L. Budd	694,249	Feb. 25	3896	857	98	1654
Plow	G. A. Kelly	694,553	Mar. 4	427	92	98	1803
Plow	A. Schulz	694,672	Mar. 4	642	141	98	1848
Plow	M. Staguhn	694,689	Mar. 4	679	148	98	1855
Plow	G. A. Kelly	694,981	Mar. 4	1141	250	98	1954
Plow	J. Schofield	695,950	Mar. 25	3904	680	98	2387
Plow	C. K. Johnson	696,342	Mar. 25	3508	805	98	2509
Plow	W. F. Nabours	696,233	Mar. 25	3624	819	98	2514
Plow	J. P. Barnes	697,389	Apr. 8	1876	419	99	419
Plow	A. Kap	698,023	Apr. 22	3047	670	99	696
Plow	J. Sanders	699,716	May 13	1127	264	99	1419
Plow	G. E. Barth	701,127	May 27	3919	900	99	2085
Plow	A. K. Goodrich	703,571	July 1	345	78	100	69
Plow	J. Michalka	703,803	July 1	730	174	100	150
Plow	O. L. Carmical	706,389	Aug. 5	772	169	100	1270
Plow	S. Fannin	706,915	Aug. 12	1766	394	100	1495
Plow	A. Schulz	707,726	Aug. 26	3322	743	100	1851
Plow	S. H. Tinsman	707,878	Aug. 26	3659	824	100	1916
Plow	J. Buchanan	708,122	Sept. 2	222	53	100	2027
Plow	J. A. and C. L. Shuping	708,265	Sept. 2	494	113	100	2081
Plow	H. Bryan	708,312	Sept. 2	583	132	100	2100
Plow	J. P. Mulrony	709,028	Sept. 16	1951	447	100	2410
Plow	E. Hankins	709,901	Sept. 30	3702	835	100	2801
Plow	C. E. Bates	710,557	Oct. 7	313	68	101	63
Plow	J. W. Barnes	711,091	Oct. 14	1332	289	101	290
Plow	B. G. Reeves	711,531	Oct. 21	2139	476	101	485
Plow	C. S. Ruef and C. L. Tomlinson	713,498	Nov. 11	2021	453	101	1328
Plow	E. L. Gillham	715,257	Dec. 9	1161	248	101	2092
Plow	G. M. McLaughlin	715,282	Dec. 9	1200	257	101	2100
Plow	E. T. Robinson	717,453	Dec. 30	5532	1202	101	3068
Plow adjusting device. Wheel	J. W. 987	710,987	Oct. 14	1110	245	101	343
Plow and planter. Combined	J. E. Park and J. L. Pickens	706,446	Aug. 5	907	196	100	1299
Plow attachment	H. B. Murdock	700,541	May 20	2799	639	99	1783
Plow attachment	W. G. Hall	702,647	June 17	2491	571	99	2658
Plow attachment	W. H. Holsclaw	706,825	Aug. 12	1598	359	100	1461
Plow attachment	H. B. Murdock	715,119	Dec. 2	902	193	101	2022
Plow attachment. Combination	W. A. Jeffers	702,561	June 17	2312	528	99	2621
Plow attachment. Disk	F. M. Mecum	702,029	June 10	1327	303	99	2398
Plow-bar. Adjustable	J. H. Powell	691,323	Jan. 14	1799	409	98	390
Plow. Beet-harvesting	I. L. Umstead	715,320	Dec. 9	1280	273	101	2118
Plow-brace	W. H. Harris	706,935	Aug. 12	1798	402	100	1501
Plow. Convertible disk	M. T. Hancock	692,655	Feb. 4	769	176	98	957
Plow. Cultivating	J. Y. Reynolds	692,908	Feb. 11	1255	278	98	1083
Plow. Cultivating	A. Horner	709,601	Sept. 23	3113	693	100	2668
Plow. Cultivator	J. A. D. and J. C. Sheffield	695,499	Mar. 18	2168	499	98	2202
Plow cultivator attachment	R. S. Bonner	690,921	Jan. 14	1045	235	98	235
Plow. Disk	A. S. Bailey	692,190	Jan. 28	3426	775	98	700
Plow. Disk	L. E. Waterman	692,805	Feb. 4	1049	236	98	1010
Plow. Disk	J. M. W. Long	696,984	Apr. 8	1157	257	99	966
Plow. Disk	L. E. Waterman	705,627	July 29	4480	971	100	967
Plow. Disk	S. V. Weeks	710,908	Oct. 7	958	210	101	195
Plow. Ditching	P. Dooling	716,992	Dec. 30	4674	1014	101	2886
Plow. Electrically-operated	M. T. A. Kubierschky	696,454	Apr. 1	110	26	99	29
Plow fender attachment. Cultivator	J. W. Bates	698,624	Apr. 29	4193	925	99	948
Plow fertilizer-distributor attachment	C. T. Thomas	711,023	Oct. 14	1190	262	101	262
Plow foot and scraper. Combined	C. C. Darnell	712,362	Oct. 28	3760	823	101	825
Plow. Gang	H. Bryan	696,389	Mar. 25	3933	871	98	2577
Plow. Gang-disk	E. Manes	717,010	Dec. 30	4706	1020	101	2893
Plow. Garden	W. J. Stewart	692,941	Feb. 11	1335	291	98	1100
Plow. Grading	J. Sowders	705,155	July 22	3442	748	100	746
Plow. Hillside	W. Turner	698,081	Apr. 22	3148	699	99	717
Plow-jointer	H. Traeger	696,370	Mar. 25	3386	862	98	2567
Plow land-gage attachment	V. T. Gilchrist	711,892	Oct. 21	2880	637	101	632
Plow. Motor	R. J. Gatling	696,808	Apr. 1	781	178	99	165
Plow. Motor	R. J. Gatling	705,337	July 22	3376	838	100	833
Plow. Multiple or gang	N. Sanders	717,455	Dec. 30	5536	1202	101	3068
Plow or cultivator handle	J. G. Johnson	711,975	Oct. 28	3073	674	101	658
Plow-point	S. C. Myers	703,807	July 1	736	175	100	160



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & C.	Vol.	Page.
Plow-point. Detachable.	C. A. Weimer	704,996	July 15	3115	671	100	664
Plow. Potato.	D. Jackson	707,114	Aug. 19	2138	475	100	1587
Plow pushing device.	R. L. Johnson	710,464	Oct. 7	120	27	101	26
Plow. Reversible.	E. J. Couch	692,986	Feb. 11	1425	309	98	1117
Plow. Reversible.	J. W. Glendy	709,439	Sept. 16	2767	623	100	2583
Plow. Reversible garden.	J. W. Nicholas	716,744	Dec. 23	4072	892	101	2734
Plow. Riding.	C. C. Silveira	699,826	May 13	1346	313	99	1460
Plow. Riding.	C. S. Ruef and C. L. Tomlinson	704,274	July 8	1694	389	100	355
Plow. Rotary.	J. Scott	700,247	May 20	2219	370	99	1665
Plow. Rotary.	J. Scott	716,943	Dec. 30	4562	900	101	2862
Plow scraper. Reversible-disk.	W. B. Michael	693,042	Feb. 11	1514	329	98	1137
Plow. Shale-rock.	H. G. Butler	696,898	Apr. 1	972	217	99	206
Plow. Shovel.	J. Michalka	698,303	Apr. 22	3556	791	99	808
Plow. Sidehill gang.	L. G. Fairbank	717,087	Dec. 30	4848	1050	101	2323
Plow. Subsoil.	T. J. Hubbell	712,630	Nov. 4	401	94	101	381
Plow. Subsoil.	N. B. Cash	715,981	Dec. 16	2570	568	101	2404
Plow. Sugar-beet.	J. T. Leinberger and J. G. Schmidt	706,765	Aug. 12	1488	330	100	1437
Plow. Sulky.	H. Sommerfeld	696,769	Apr. 1	714	161	99	152
Plow. Sulky.	S. H. Tinsman	707,879	Aug. 26	3666	825	100	1918
Plow. Sulky.	W. W. Robinson	703,405	Sept. 2	730	164	100	2120
Plow. Sulky.	J. A. Frenier	713,086	Nov. 11	1172	289	101	1154
Plow. Sulky.	J. A. Frenier	713,087	Nov. 11	1177	270	101	1155
Plow weed-cutting attachment.	J. M. Robinson	707,301	Aug. 26	3516	798	100	1889
Plow. Wheel.	J. Buchanan	695,906	Mar. 25	2331	682	98	2373
Plow. Wheel.	B. Cross	704,240	July 8	1630	353	100	341
Plow. Wheel.	I. A. Weaver	715,733	Dec. 9	2046	458	101	2272
Plow wheel-adjusting device.	J. L. Ayer	695,366	Mar. 11	1946	434	98	2138
Plow wheel attachment.	D. N. Tripp	701,233	May 27	1100	944	99	2072
Plow. Wheel.	L. E. Waterman	705,628	July 29	4482	972	100	967
Plow wing attachment.	G. H. McGuire	709,505	Sept. 23	2946	657	100	2633
Plows. Combined stop and release mechanism for	V. T. Gilchrist	712,371	Oct. 28	3775	826	101	829
Plows or the like. Attachment for	H. H. Allen	706,375	Aug. 12	1695	379	100	1480
Plowshare.	J. L. Sullivan	700,255	May 20	2232	510	99	1668
Plowshare. Detachable.	A. Davis	713,612	Nov. 18	2244	499	101	1380
Plug and receptacle.	N. Marshall	714,928	Dec. 2	579	123	101	1051
Plug. Attachment.	C. F. Howes	693,864	Feb. 25	3130	693	98	1507
Plug. Emergency safety.	F. Kostlan	708,562	Sept. 9	1005	227	100	2196
Plug-receptacle.	C. J. Klein	707,516	Aug. 19	2872	651	100	1743
Plug-switch. Combination.	J. H. Ayer	695,366	Mar. 11	1946	434	98	2138
Plumb and level.	J. H. and A. E. Weyandt	716,603	Dec. 23	3829	831	101	2638
Plumb and level. Mason's	A. L. McReynolds	700,971	May 27	3619	831	99	1970
Plumb bob.	H. M. Curry	702,288	June 10	1797	411	99	2495
Plumb-bob, level, &c. Combined	D. L. McDermott	707,518	Aug. 19	2880	653	100	1744
Plumb, level, and square. Combined.	A. M. Bennett	715,946	Dec. 16	2509	552	101	2392
Plumber's testing-piug	J. Flynn	705,059	July 22	3240	701	100	706
Plumbing and leveling device	L. M. Olsen	714,324	Nov. 25	3936	801	101	1698
Plumping and tanning process.	S. Saxe	695,765	Mar. 18	2655	585	98	2301
Plunger mechanism.	G. T. Cooley	714,152	Nov. 25	3225	729	101	1631
Pneumatic apparatus. Joint for use in	C. L. Davis	705,515	July 22	3205	914	100	899
Pneumatic-carrier system	W. W. Danley	708,120	June 24	3394	779	99	2859
Pneumatic-carrier system	W. G. Davis	714,873	Dec. 2	468	99	101	1930
Pneumatic carriers. Automatic switch for	F. R. Taisey	701,532	June 3	425	97	99	2196
Pneumatic cushion	J. H. Finney	709,377	Sept. 30	3869	899	100	2835
Pneumatic-despatch apparatus	J. T. Cowley	706,639	Aug. 12	1230	273	100	1381
Pneumatic-despatch system	H. W. Forslund	701,869	June 10	1042	234	99	2341
Pneumatic-despatch system	K. E. Stuart	713,924	Nov. 18	2829	628	101	1512
Pneumatic-despatch systems. Sending apparatus for	B. C. Batcheller	700,607	May 20	2900	666	99	1804
Pneumatic-despatch terminal	E. C. Phillips	696,843	Apr. 1	842	193	99	177
Pneumatic-despatch tube	E. A. Fordyce	698,830	Apr. 29	4665	1027	99	1058
Pneumatic-despatch-tube carrier	A. W. Pearsall	690,814	Jan. 7	905	225	98	200
Pneumatic-despatch-tube carrier	E. A. Fordyce	716,213	Dec. 16	3050	1665	101	2505
Pneumatic-despatch-tube inlet.	F. R. Taisey	705,884	July 29	4944	1075	100	1060
Pneumatic-despatch-tube receiver	A. W. Pearsall	694,324	Feb. 25	4073	907	98	1680
Pneumatic-despatch-tube system	E. A. Fordyce	691,936	Jan. 28	2965	667	98	668
Pneumatic-despatch-tube system	T. Bemis	696,305	Mar. 25	3716	830	98	2534
Pneumatic-despatch-tube system	T. Bemis	712,478	Nov. 4	17	78	101	900
Pneumatic-despatch-tube system	T. Bemis	712,479	Nov. 4	28	89	101	903
Pneumatic-despatch-tube system	E. A. Fordyce	716,212	Dec. 16	3048	644	101	2505
Pneumatic-despatch-tube terminal	F. R. Taisey	711,367	Oct. 14	1869	408	101	404
Pneumatic-despatch tubes. System and apparatus for transmitting carriers in	B. C. Batcheller	706,291	Aug. 5	582	126	100	1283
Pneumatic drill	T. Barrow	694,714	Mar. 4	720	153	98	1863
Pneumatic drill	J. T. McGrath	694,981	Mar. 11	1247	272	98	1993
Pneumatic elevator and weigher	R. B. Hilleary and C. Bradford	706,054	Aug. 5	103	22	100	1138
Pneumatic elevator and weigher	C. Bradford and R. B. Hilleary	714,358	Nov. 25	3790	815	101	1711
Pneumatic impact-tool	S. Oldham	704,912	July 15	2913	625	100	627
Pneumatic motor	C. L. Davis	692,194	Jan. 28	3432	777	98	761

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Pneumatic motor	C. R. Kline and J. Keller	692,202	Jan. 28	3449	780	98	766
Pneumatic motor	J. Wieser	693,196	Feb. 11	1865	403	98	1206
Pneumatic motor	J. W. Birkenstock	696,387	Mar. 25	3930	870	98	2577
Pneumatic motor	G. B. Anderson	706,004	Aug. 5	3	1,2	100	1117
Pneumatic shovel	L. Hanchett and W. C. Davis	699,680	May 13	1065	250	99	1407
Pneumatic-surfacer frame	H. G. Kotten	701,590	June 3	542	118	99	2220
Pneumatic switch and signal	J. W. Keeney	692,015	Jan. 28	3,08	698	98	696
Pneumatic tool	J. Keller	710,196	Sept. 30	4270	963	100	2921
Pneumatic tool	W. M. Holden	711,859	Oct. 21	2817	623	101	619
Pneumatic-transfer-tube system	F. W. Jones	702,367	June 10	1944	442	99	2524
Pneumatic-tube protector	N. D. Hopkinson	692,446	Feb. 4	896	95	98	880
Pneumatic-tube systems. Pneumatic time-lock for	B. C. Batcheller	707,071	Aug. 19	2050	457	100	1569
Pneumatically-operated lubricator	H. Schmidt	708,973	Sept. 9	1822	419	100	2366
Pocket	R. Bartell	709,460	Sept. 23	2828	635	100	2608
Pocket-book	R. P. Rasmussen	697,751	Apr. 15	2549	567	99	571
Pocket-book	J. Goerk	711,156	Oct. 14	1454	315	101	317
Pocket-book	J. T. Jagodnigg	715,809	Dec. 16	2222	485	101	2328
Pocket-book clasp	C. J. Gustafson	715,573	Dec. 9	1738	330	101	2212
Pocket-book Combination	M. Scheuer	693,440	Feb. 18	2339	511	98	1326
Pocket-book frame	G. Havell	713,877	Nov. 18	2726	608	101	1491
Pocket-book protector	A. J. Martin	691,956	Jan. 28	3008	675	98	677
Pocket-books, &c. Trimming or binding for	F. Dostal	711,834	Oct. 21	2767	613	101	606
Pocket-clasp	J. A. Skær	694,498	Mar. 4	292	67	98	1774
Pocket-closure	J. H. Syme	702,505	June 17	2227	507	99	2605
Pocket Garment	712,190	Oct. 28	3470	735	98	706	
Pocket-knife	J. B. Upham	692,092	Jan. 28	3266	734	98	727
Pocket-knife	I. Kinney	702,968	June 24	3113	717	99	2804
Pocket-knife. Self-opening	H. Treas	698,080	Apr. 22	3147	692	99	717
Pocket-protector	A. Braun	693,780	Feb. 18	2956	651	98	1453
Pocket. Safety	E. B. Brown	693,368	Feb. 18	2183	479	98	1294
Pocket. Safety watch	R. C. Wilkins	698,092	Apr. 22	3188	697	99	726
Pocket. Safety watch	M. M. Trauss	690,425	May 2	130	99	1230	
Poison-holder	C. O. Harker	716,533	Dec. 23	3681	803	101	2649
Poke. Animal	B. F. Proffitt	690,875	Jan. 7	956	215	98	201
Poke. Animal	692,188	Jan. 28	3421	774	98	759	
Poke. Animal	C. H. McBroom	695,328	Mar. 11	1885	419	98	2124
Poke. Animal	A. Axelson	696,850	Apr. 1	852	197	99	180
Poke. Animal	E. H. Pinney and E. A. Jones	700,558	May 20	2821	648	99	1768
Poke. Animal	J. I. Barnes	703,367	July 1	7	2	100	4
Poke. Animal	A. D. Hale	703,407	July 1	79	15	100	18
Poke. Animal	S. A. Ritchie	704,924	July 15	2945	632	100	633
Poke. Animal	C. N. Troipen	705,162	July 22	3453	752	100	748
Poke. Animal	H. E. Irish	706,063	Aug. 5	122	25	100	1142
Poke. Animal	S. F. Webb and W. S. Huff	706,617	Aug. 12	1198	296	100	1374
Poke. Animal	H. E. Downing	709,474	Sept. 23	2858	642	100	2613
Poke. Animal	G. Barnes	712,241	Oct. 28	3553	778	101	782
Poke. Animal	W. Taylor	716,495	Dec. 23	3596	785	101	2633
Poker and lid-lifter. Combined	H. Washburn	698,161	Apr. 22	3334	728	99	755
Poker and tongs. Combined fire	J. C. Moyer	698,947	July 1	1052	228	100	209
Poker-support	E. R. Cahoon	698,807	Apr. 29	4590	1013	99	1041
Pole and neck yoke. Safety carriage	M. McNutt	710,501	Oct. 7	191	42	101	40
Pole attachment. Carriage	P. Masterson	707,493	Aug. 19	2740	620	100	1714
Pole cap. Vehicle	G. W. Davis	714,978	Dec. 2	48	10	101	1847
Pole cap. Wagon	F. Holmstrom	706,754	Aug. 12	1467	323	100	1432
Pole. Carriage	J. Seng	708,784	Sept. 9	1424	327	100	2285
Pole-changer	J. M. G. Beard	703,225	June 24	3604	828	99	2900
Pole-climber	W. E. Owens	693,433	Feb. 18	2302	504	98	1320
Pole-head device. Vehicle	T. H. Brigg	698,390	Apr. 22	3754	824	99	839
Pole-hoister	G. R. Dodd	695,250	Mar. 11	1829	407	98	2113
Pole. Jointed	M. Nelson	700,924	Sept. 30	3745	844	100	2810
Pole. Metallic	714,563	Nov. 25	4071	900	101	1786	
Pole. Metallic	F. Reissner	717,376	Dec. 30	5219	1133	101	3003
Pole. Push	H. Wheler	705,179	July 22	3489	758	100	755
Pole-reverser. Automatic	M. Moskowitz	706,082	Aug. 5	155	32	100	1148
Pole-strap and collar-buckle. Combined	A. C. Buttman	699,074	Apr. 29	5074	1122	99	1143
Pole structure	F. H. Lincoln	712,924	Oct. 28	3825	835	101	841
Polishing-wheel and manufacturing same	G. W. Conrad	701,470	June 3	342	70	99	2173
Polishing-wheel. Automatically-inflated	E. W. Berry	711,613	Oct. 21	2343	512	101	516
Polyphase induction-regulator	H. Hansson	715,374	Dec. 9	1378	297	101	2137
Policeman's club-holder	F. H. Audley	710,236	Sept. 30	4351	978	100	2940
Polisher	M. W. Gatch	697,470	Apr. 15	2037	450	99	468
Polishing-cylinders. Paper-fastening for	F. E. Schmitt	714,244	Nov. 25	3484	766	101	1668
Polishing-machine	M. H. Ballard	705,550	July 29	4343	939	100	939
Polishing-machine	J. W. Brown, Jr., and H. W. Yeager	707,819	Aug. 26	3545	799	100	1895
Polishing-machine	J. W. Brown, Jr.	708,858	Sept. 9	1593	365	100	2320
Polishing-strip	C. C. Allen	708,000	Sept. 2	1	1	100	1981
Polishing-tool. Pneumatic	J. W. Birkenstock	691,740	Jan. 28	2614	585	98	597
Polishing-wheel	F. G. Farnham	709,312	Sept. 16	2513	566	100	2330
Polishing-wheel and manufacturing same	B. F. Elson	704,780	July 15	2383	570	100	566
Polishing-wheel. Automatically-inflated	E. F. Cadman	704,509	July 15	2145	464	100	464
Polyphase induction-regulator	C. P. Steinmetz	712,103	Oct. 28	3308	725	101	733
Polyphase induction-regulator	C. P. Steinmetz	712,463	Oct. 28	3966	867	101	870
Pool games, &c. Combined frame and register for	E. R. Marshall	702,108	June 10	1493	336	99	2433
Pool or billard apparatus	T. R. Lowerre	704,892	July 15	2839	615	100	608
Popcorn-balls. Machine for molding	C. L. Tilden and E. J. Bender	693,631	Feb. 18	2696	595	98	1400
Pork-joining machine	A. M. Burleson	692,824	Feb. 11	1078	242	98	1045



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr-g.	Vol.	Page.
Porous materials. Compound for protecting and indurating	A. Wolf	692,961	Feb. 11	1377		98	1109
Portable engine and sawing-machine. Combined	D. I. D. and G. B. Townsend	714,837	Dec. 2	380	81	101	1911
Portable furnace	J. Ward	695,015	Mar. 11	1305	289	98	2005
Portable house	C. P. Mott	696,996	Apr. 8	1172	262 263	99	269
Portable seat	J. L. Smith	699,932	May 13	1565	360	99	1512
Portfolio	I. R. Jackson	712,137	Oct. 28	3377	741	101	747
Post:							
See Anchoring-post.	Railway bumping-post.						
Corner-post.	Stone post.						
Fence-post.	Tool-post.						
Hitching-post.							
Post	L. A. Pratt	700,234	May 20	2190	501	99	1659
Post-cap	J. C. Summerer and J. Craig	710,538	Oct. 7	278	61,62	101	36
Post-cap	L. Lane	714,199	Nov. 25	3398	748	101	1651
Post-driving apparatus	M. C. and E. S. Foster	702,935	June 24	3042	700	99	2789
Post for fencing, &c	R. H. Guthrie	709,217	Sept. 16	2322	527	100	2489
Post-hole digger	R. L. Leaverton	693,801	Feb. 18	2990	601	98	1460
Post-hole digger	D. A. Bowen	701,992	June 10	1277	293	99	2388
Post-hole digger	A. B. Griffin	715,280	Dec. 9	1165	249	101	2093
Post or pole mold	J. F. Martin	697,509	Apr. 15	2101	466	99	481
Post-securing device	W. Newman	694,658	Jan. 21	2451	547	98	1541
Postman's rack	C. J. Weeks	708,283	Sept. 2	532	121	100	2089
Postmarking and canceling machines. Printing and inking device for	J. French	700,414	May 20	2553	585	99	1731
Postmarking and stamp-canceling machine	J. E. Wright	699,276	May 6	270	62,63	99	1229
Post-office-box indicating mechanism	T. F. Kelly	697,849	Apr. 15	2725	604	98	611
Post-office-box indicating mechanism	T. F. Kelly	707,286	Aug. 19	2359	529	100	1635
Postal box and signal	F. C. Bates	707,196	Aug. 19	2293	513	100	1622
Postal-car and station appliance	L. Schmiedeke	708,174	Sept. 2	328	78,79	100	2048
Pot:							
See Coffee-pot.	Paste-pot.						
Coffee or tea pot.	Tea and coffee pot.						
Forge fire-pot.	Tea or coffee pot.						
Mustard-pot.							
Pot for containing shellac, &c.	W. L. Morris	704,204	July 8	1576	840	100	330
Potassium cyanate. Producing	S. Zuckschwercdt	700,570	Sept. 23	3060		100	2657
Potato-bug destroyer	M. W. Pomraning	715,690	Dec. 9	1959	438	101	2254
Potato-bug destroyer	M. Ortenblad	696,258	Mar. 25	3631	811	98	2516
Potato-cream	F. W. Ruckstuhl and A. Pohlmann	707,019	Aug. 12	1944	435	100	1530
Potato cutter. Seed	J. H. Simonson	713,249	Nov. 11	1501	340	101	1219
Potato-digger	L. Stevenson	703,317	June 24	3735	861	99	2928
Potato-digger	J. M. Stevenson	703,707	July 1	612	136	100	1721
Potato-digger	P. Hesselius	703,727	July 1	653	145	100	131
Potato-digger	J. L. Ingersoll	704,046	July 8	1248	269	100	262
Potato-digger	L. A. Aspinwall	709,659	Sept. 23	3206	716	100	2687
Potato-digger	D. Y. Hallock	712,927	Nov. 4	869	202	101	1075
Potato-digger	I. F. Tucker	714,976	Dec. 2	660	268	101	1967
Potato-digging machine	F. O. Andrews	704,169	July 8	1510	323	100	317
Potato-lifter	J. T. Craig	691,843	Jan. 28	2810	631	98	636
Potato-masher	J. D. Coney	712,264	Oct. 28	3592	785	101	190
Potato pick-up	W. A. Wiley	697,305	Apr. 8	1722	384	99	387
Potato-sorter	L. A. Aspinwall	700,658	Sept. 23	3203	715	100	2686
Potential-regulator	R. A. Philip	700,070	May 13	1824	424	99	1593
Pouch	J. A. Smithline and A. F. Zaiser	700,561	Sept. 23	3043	678	100	2653
Pouch-making machine	C. Millhiser and C. L. A. Doeppe	692,887	Feb. 11	1215	269	98	1074
Pouch-making machine	C. Millhiser and C. L. A. Doeppe	693,045	Feb. 11	1519	331	98	1139
Poultry. Device for drawing tendons from the legs of	B. W. Small	692,214	Jan. 28	3482	787	98	772
Poultry. Drip, grit, and feed device for	G. C. Lathrop	694,760	Mar. 4	819	181	98	1885
Poultry-fountain. Automatic	J. Reed	713,739	Nov. 18	2582	576	101	1461
Poultry-house. Portable	G. C. Lathrop	693,283	Feb. 11	2013	438	98	1238
Powder and compounding same. Smokeless	J. A. Denton and J. H. Preas	701,802	June 3	926		99	2302
Powder-bag. Ordinance	C. T. Dörr	707,401	Aug. 19	2675		100	1701
Powder box. Toilet	E. M. Lichtenstein	697,729	Apr. 15	2511	560	99	563
Powder-cans. Detachable spout for	L. J. Grove	690,571	Jan. 7	30	80	98	878
Powder-distributor	J. A. Stuart and B. F. Upham	697,374	Apr. 8	1822	400	99	407
Powder filling and folding machine	F. A. Robinson	702,591	June 17	2385	544 545	99	2636
Powder filling and wrapping machine	F. A. Robinson	702,482	June 17	2174	496	99	2592
Powder-granulating machine	M. P. Wilkins and H. C. Aspinwall	695,129	Mar. 11	1528	398	98	2051
Powder. Gun	F. W. Jones	692,143	Jan. 28	3348	758	98	745
Powder. Gun	F. W. Jones	693,547	Feb. 18	2322	555	98	1304
Powder-puff	M. L. Gumaer	705,337	July 20	4854	1054	100	1042
Powder. Semismokeless	P. C. Oire	691,919	Jan. 28	2634		98	662
Powder. Smokeless gun	C. O. Lundholm	701,591	June 3	563		99	2225
Powder. Treating gun	F. W. Jones	692,142	Jan. 28	3346		98	744
Powder. Treating gun	F. W. Jones	693,548	Feb. 18	2523		98	1364
Powders. Machine for feeding and wrapping	F. A. Robinson	716,281	Dec. 16	3158	692 693	101	2527
Power:							
See Churn-power.	Pulley-power.						
Friction-power.	Pumping power.						
Mechanical power.	Tread-power.						
Motive power.	Windmill-power.						
Power. Apparatus for converting fuel into	G. J. Weber	693,766	Feb. 18	2930	645	98	1448
Power apparatus. Hydraulic or similar	C. C. Worthington	698,093	Apr. 22	3185	697	99	726

*Alphabetical list of inventions—(Continued.)*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Power applying and transmitting apparatus.....	J. H. Hardie.....	701,480	June 3	366	81	99	2184
Power-controlling device.....	R. Wick.....	715,918	Dec. 16	2452	541	101	2380
Power device.....	D. Lubin.....	714,313	Nov. 25	3618	797	101	1695
Power. Electric transmission of.....	E. M. Hewlett.....	706,559	Aug. 12	1091	242	100	1352
Power equalizing, controlling, and storing apparatus.....	L. H. Osterud.....	705,700	July 29	4617	1001	100	993
Power for operating rotary machinery. Machine for the tangential application of reciprocating or other.....	E. D. Swift.....	699,774	May 13	1245	289	99	1443
Power from car-axes. Means for transmitting.....	E. H. Johnson.....	702,655	June 17	2507	574	99	2662
Power from volatile liquids. System of obtaining.....	J. Bruun and P. Stricker.....	695,859	Mar. 18	2836	644	98	2339
Power. Generation of motive. Apparatus for the transmission of.....	S. A. Rosenthal.....	709,115	Sept. 16	2122	486	100	2448
Power-indicator.....	A. H. Edwards.....	703,904	July 1	980	214	100	196
Power mechanism.....	H. Müller.....	700,150	May 13	1993	457	99	1595
Power mechanism.....	C. W. Sponsel.....	695,005	Mar. 11	1284	283	98	2001
Power mechanism. Reciprocating.....	F. Clemens, Jr.....	709,304	Sept. 16	2499	568	100	2527
Power-press.....	A. R. Clarke.....	712,361	Oct. 28	3758	822	101	825
Power-press.....	G. B. Tennant.....	699,350	May 6	418	96	99	1259
Power-press.....	G. A. Ohl.....	713,914	Nov. 18	2809	624	101	1508
Power-regulators. Automatic actuator for.....	E. R. Gill.....	694,370	Mar. 4	50	12	98	1722
Power-shovel.....	R. Thew.....	710,223	Sept. 30	4330	973	100	2935
Power-transmission device.....	W. L. Judson.....	690,585	Jan. 7	416	87	98	91
Power-transmission mechanism.....	J. Hartness.....	700,647	May 20	2972	682	99	1820
Power-transmission mechanism. Fluid.....	J. Harding, Jr.....	697,143	Apr. 8	1432	319	99	324
Power-transmission mechanism. Variable-speed.....	W. L. Judson.....	690,586	Jan. 7	419	88, 89	98	91
Power-transmission regulator for electromagnetic couplings.....	R. Pintsch.....	704,574	July 15	2268	491	100	490
Power-transmitter.....	S. Miller.....	700,532	May 20	2783	636	99	1750
Power-transmitter.....	S. Engle.....	711,201	Oct. 14	1563	336	101	340
Power-transmitter and speed-controller.....	N. White.....	692,749	Feb. 4	931	212	98	989
Power. Transmitting.....	J. H. Barnard.....	696,301	Mar. 25	3703	829	98	2532
Power-transmitting and braking device.....	J. C. Blevney.....	693,365	Feb. 18	2174	477	98	1292
Power-transmitting device.....	I. H. Davis.....	690,641	Jan. 7	527	115	98	113
Power-transmitting device.....	R. B. Mann.....	691,789	Jan. 28	2710	609	98	617
Power-transmitting device for hand-driven mechanisms.....	F. W. Wild, Jr.....	708,286	Sept. 2	535	122	100	2090
Power-transmitting machinery.....	E. Winans.....	709,856	Sept. 23	3579	806	100	2764
Power-transmitting mechanism.....	W. H. Lucas.....	693,290	Feb. 11	2029	442	98	1240
Power-transmitting mechanism.....	H. W. Sumner.....	694,692	Mar. 4	684	149	98	1856
Power-transmitting mechanism.....	A. T. Brown.....	702,280	June 10	1786	408	99	2492
Power-transmitting mechanism.....	S. L. McColloch.....	714,732	Dec. 2	154	31	101	1869
Power-transmitting mechanism.....	M. Slotkin.....	715,164	Dec. 2	984	213	101	2037
Power-transmitting mechanism. Differential-speed.....	S. Jackson.....	706,664	Aug. 12	1286	284	100	1393
Power-transmitting mechanism. Friction.....	G. W. Marble.....	717,235	Dec. 30	5154	1117	101	2990
Precious metals. Extracting.....	W. Hilt and C. E. Lane.....	707,926	Aug. 26	3757	843	100	1937
Precious metals from ores. Cyanid process of extracting.....	B. W. Begeer.....	694,521	Mar. 4	356	78	98	1789
Precious metals from ores. Extracting.....	L. B. Darling.....	706,308	Aug. 5	606	132	100	1237
Precious metals from ores. Means for extracting.....	L. B. Darling.....	706,302	Aug. 5	603	131	100	1237
Precious metals from refractory ores. Apparatus for recovering.....	H. R. Cassel.....	694,350	Mar. 4	17	4	98	1716
Precious metals from their ores. Apparatus for use in extracting.....	H. Smith and P. C. Brown.....	711,236	Oct. 14	1626	349	101	353
Precious metals from their ores. Cyanid process of extracting.....	E. Schilz.....	696,274	Mar. 25	3658	.....	98	2522
Precious metals from their ores. Extracting.....	H. Davis.....	692,634	Feb. 4	733	.....	98	950
Precious metals from their ores. Extracting.....	J. B. de Alzugaray.....	701,002	May 27	3681	.....	99	1981
Precious metals from their ores. Extracting.....	E. D. Kendall.....	702,305	June 10	1823	.....	99	2500
Precious metals. Treating rebellious ores of the.....	W. F. Downs.....	707,214	Aug. 19	2924	.....	100	1628
Precious stones. Apparatus for cutting and polishing.....	F. R. Kneip.....	698,521	Apr. 29	3964	877	99	902
Prepayment attachment.....	E. A. Reeves.....	712,004	Oct. 28	3127	684	101	698
Preservative box.....	M. Kohn.....	715,273	Dec. 9	1188	253	101	2097
Preserve-boxes. Filling.....	E. Besse and L. Lubin.....	695,271	Mar. 11	1777	393	98	2103
Preserve-jar.....	S. Oakman.....	693,056	Feb. 11	1546	337	98	1144
Preserving and storing building.....	M. J. Stokes.....	706,125	Aug. 5	225	47, 48	100	1163
Preserving apparatus. Food.....	M. D. Ellis.....	694,261	Feb. 25	3901	865	98	1660
Preserving apparatus. Food.....	M. D. Ellis.....	706,506	Aug. 5	999	220	100	1319
Preserving cereal foods.....	H. D. Winton.....	713,580	Nov. 11	2175	.....	101	1358
Preserving cereals.....	H. D. Winton.....	713,582	Nov. 11	2179	.....	101	1358
Preserving compound.....	S. C. Shoup.....	700,446	May 20	2613	.....	99	1745
Preserving food products.....	W. D. Baker.....	709,431	Sept. 16	2750	619	100	2580
Preserving food products.....	W. D. Baker.....	709,432	Sept. 16	2752	619	100	2580
Preserving frozen food products.....	D. W. Davis.....	709,751	Sept. 23	3387	760	100	2722
Preserving fruits, &c.....	A. L. de Stürler.....	694,801	Feb. 25	3970	.....	98	1676
Preserving fruits.....	J. M. A. Lacomme.....	716,558	Dec. 23	3736	814	101	2662
Preserving fruits, &c. Composition for.....	J. H. Thorn.....	697,566	Apr. 15	2203	.....	99	500
Preserving fruits or vegetables. Apparatus for.....	K. M. Keiser.....	695,732	Mar. 18	2604	591	98	2390
Preserving liquids.....	W. H. Birchmore.....	713,840	Nov. 18	2654	591	101	1475
Preserving organic substances.....	A. Mészáros.....	691,402	Jan. 21	1980	444	98	447



## Alphabetical list of inventions.—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Press:							
See Arbor-press.	Guncotton-press.						
Bale-press.	Hand-press.						
Baling-press.	Hay-press.						
Belt-and-roller press.	Hydraulic press.						
Book-edge-gilding press.	Hydrostatic press.						
Bottle or jar press.	Ice-machine press.						
Brick-press.	Jar or bottle press.						
Brick-making press.	Lead-press.						
Cage-press.	Leather-press.						
Cheese-press.	Lever-press.						
Cider and fruit press.	Linoleum-press.						
Clay-press.	Molding-press.						
Copied-press.	Peat-press.						
Cotton-press.	Power-press.						
Die-press.	Printing-press.						
Draw-press.	Printing and embossing press.						
Drill-press.	Pulp-press.						
Electrical press.	Roller-press.						
Embossing-press.	Screw-press.						
Expressing-press.	Seal-press.						
Filter-press.	Sheet-metal-working press.						
Filtering-press.	Soap-press.						
Flanging-press.	Stamping-press.						
Forage-press.	Tile-press.						
Forging-press.	Tobacco-press.						
Glass-press.	Tumbler-press.						
Glass-tilt press.	Wine-press.						
Press	W. L. Spaulding.	697,267	Apr. 8	1690	377	99	390
Press	J. P. Williams	699,732	May 13	1164	271	99	1426
Press	C. H. Casper	711,938	Oct. 28	2906	658	101	673
Press	R. Birkholz.	714,856	Dec. 2	427	91, 92	101	1920
Press	R. T. Allen	716,359	Dec. 23	3324	726	101	2576
Press-box	G. W. Zoder	695,990	Mar. 25	3076	697	98	2402
Press-feeding mechanism	W. R. Moyers	712,400	Oct. 28	3835	837	101	944
Press for obnoxious substances	G. W. Zoder and W. P. Hayne.	691,430	Jan. 21	2021	452	98	456
Press for packing barrels or other packages	S. McCown	706,681	Aug. 12	1319	292	100	1401
Press for pressing linoleum, &c	C. H. Scott	697,550	Apr. 15	2174	482	99	493
Press-mat	C. G. Baumgarten	695,266	Mar. 11	1772	392	98	2102
Press-mold for hollow articles	W. J. Greenwood	696,451	Apr. 1	67	16	98	14
Press-standards	C. Torricellas	710,692	Oct. 7	454	94, 96	101	91
Presses. Automatic stop mechanism for screw-	L. A. Shannon	692,723	Feb. 4	891	203	98	981
Pressing, stamping, embossing, or printing flat surfaces. Apparatus for	C. Huber	696,821	Apr. 1	801	183	99	179
Pressure-engine	F. J. Hull.	698,503	Apr. 29	3936	870	99	897
Pressure-exerting machine	J. A. Costello and W. S. Bidle.	707,553	Aug. 26	2964	670	100	1777
Pressure-gage	F. H. Haskell	697,623	Apr. 15	2316	518	99	523
Pressure-gauge	E. C. Bates	701,793	June 3	914	204	99	2299
Pressure-generator	G. E. Blake	706,154	Aug. 5	301	64	100	1178
Pressure-reducing device	N. Lombard and J. O. Banning	700,954	May 27	3589	825	99	1964
Pressure-regulator	T. J. Buckley and F. E. Place.	697,702	Apr. 15	2464	549	99	352
Pressure-regulator	C. Gulland	698,703	Apr. 29	4391	968	99	995
Pressure-regulator	J. L. Schureman	706,290	Aug. 5	496	106	100	1217
Pressure-regulator	C. F. Sperry	713,351	Nov. 11	1504	341	101	1280
Pressure-regulator, Automatic	A. S. Comstock	690,515	Jan. 7	287	57, 58	98	62
Primary battery	J. W. Freese.	693,001	Feb. 11	1446	314	98	1192
Primary battery	M. M. Bair	700,598	May 20	2886	663	99	1801
Primary battery	E. M. Fishell and W. R. Clymer	701,319	June 3	73	15	99	2124
Primer. Combined percussion and electric	W. Mason	712,826	Nov. 4	675	157	101	1036
Primer-tray. Cellular	H. S. Burns and T. G. Bennett	705,318	July 22	3809	826	100	2291
Printer-making machine	R. A. Bell.	708,398	Sept. 16	1853	426	100	2391
Prints. Machine for making blue	R. A. Bell	704,252	July 8	1617	350	100	2386
Printed impressions may be taken. Block or base for holding plates from which	S. M. Weatherly	695,977	Mar. 25	3052	692	98	2398
Printed matter. Producing	A. Baruch	707,541	Aug. 26	2936	665	100	1772
Printer. Starch	D. M. Holmes	707,589	Aug. 26	3044	685	100	1794
Printer's chase	D. S. McGreal	699,404	May 6	528	121	99	1283
Printer's chase	F. A. McGuire	715,655	Dec. 9	1951	496	101	2335
Printer's chase. Separable or sectional	W. H. Padgett, Jr.	691,967	Jan. 28	3090	680	98	821
Printer's form lock-up	E. G. Torrey	707,987	Aug. 26	3865	808	100	1957
Printer's form or chase rack	G. R. Hughes	703,264	June 24	3695	843	99	2001
Printers' furniture	E. G. Dougherty	700,750	May 27	3225	738	99	1890
Printers' furniture	W. G. Slauson	708,096	Sept. 2	158	88	100	2014
Printer's galley	M. J. McHugh	691,657	Jan. 21	2430	546	98	541
Printers' plates. Punch for mortising	R. J. Kittredge	712,547	Nov. 4	170	40, 41	101	825
Printer's quoin	W. H. Lynchard.	692,623	Jan. 28	3123	705	98	693
Printer's quoin	E. A. Bell	694,313	Feb. 25	4055	901	98	1084
Printer's quoin	E. L. Anslinger	711,043	Oct. 14	1268	265	101	266
Printer's quoin	A. Cox	711,829	Oct. 21	2761	611	101	605
Printer's quoin	H. P. Hamel	715,790	Dec. 16	2180	487	101	2320
Printers' rollers. Device for centering	H. A. Regel.	701,090	May 27	3842	882	99	2018
Printers' rollers. Machine for cleaning	S. Crump	696,134	Mar. 25	3377	703	98	2467
Printer's seal and gage	J. L. Dodd	691,715	Jan. 21	2335	598	98	563
Printing and addressing machine. Combined	C. M. Runyan and O. D. Levering.	715,874	Dec. 16	2368	525	101	2369
Printing and embossing machine. Check	F. H. Cottrill	703,335	June 24	3774	869	99	2937
Printing and embossing press. Plate	W. Fullard	695,864	Mar. 18	2843	645	98	2341
Printing and embossing press. Plate	W. Fullard	695,865	Mar. 18	2844	646	98	2341
Printing and embossing press. Plate	W. Fullard	702,737	June 17	2753	634	99	2713

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Printing and folding machine	W. Scott	711,742	Oct. 21	2589	569	101	570
Printing, &c., and preparing same. Stone or plate for photomechanical	G. F. Wetherman and G. Holzhausen.	707,747	Aug. 26	3384		100	1884
Printing and ruling machines. Automatic feed for.	W. G. Johnston	715,081	Dec. 2	839	178	101	2007
Printing apparatus	W. G. Reynolds	714,744	Dec. 2	177	36	101	1873
Printing apparatus. Blue	S. B. Whinery	699,355	May 6	431	38	99	1282
Printing apparatus. Blue	S. B. Whinery	704,415	July 8	1950	422	100	410
Printing apparatus for use with machines for making paper bags.	H. Hölscher	706,237	Aug. 5	452	95	100	1209
Printing apparatus. Stencil	D. Gestetner	700,031	May 13	1745	402	99	1547
Printing apparatus. Stencil	D. Gestetner	707,579	Aug. 26	3024	680	100	1739
Printing attachment for flour-packers	H. P. Smith	697,285	Apr. 8	1687	376	99	379
Printing attachment. Paper-clip	J. I. Carr	703,180	June 24	3509	807	98	2881
Printing attachment. Roll-paper	B. Ring	695,416	Mar. 11	2027	455	98	2155
Printing-bars. Machine for producing	E. V. Beals	696,360	Mar. 25	3854	838	98	2562
Printing. Blanket for use in.	J. E. Rhodes	705,294	July 22	3752	814	100	809
Printing carpets, mats, &c. Apparatus for	A. F. Lundeberg	690,746	Jan. 7	743	165	98	156
Printing. Color	C. P. Browning	698,255	Apr. 22	3504	772	99	702
Printing color for lithographic or metallographic printing	J. Adelsberger and H. Friedmann	710,233	Sept. 30	4349		100	2330
Printing-cylinder	W. W. Grier	711,495	Oct. 21	2111	458	101	468
Printing decorative designs. Roller for	B. J. Such	714,965	Dec. 2	642	135	101	1964
Printing device	E. Terrell and F. A. Ray	698,583	Apr. 29	4072	900	99	925
Printing device	W. L. Morris	709,552	Sept. 23	3028	674	100	2650
Printing device. Bag or wrapper	F. L. Mercer	697,513	Apr. 15	2111	675	99	483
Printing-die	W. A. Force	705,228	July 22	3619	784	100	783
Printing-films. Adjustable holder for	J. A. Sauter	690,619	Jan. 7	483	104	98	103
Printing-form. Composite	J. Roxburgh and R. McClean	703,307	June 24	3723	857	99	2925
Printing-forms. Machine for facilitating the production of intaglio	G. F. McIndoe	699,220	May 6	156	39	99	1207
Printing-frame	F. M. Smith	703,672	July 1	549	124	100	108
Printing-frame	J. J. S. Gilbert	712,235	Oct. 28	3647	736	101	801
Printing. Imitating beige or vigoureux by	L. Hirsch	694,890	Mar. 4	104	222	98	1925
Printing in a plurality of colors. Machine for	E. Lambert	695,816	Mar. 18	2759	628	98	2323
Printing in gold, silver, or other powders. Machine for	T. Hooley	710,693	Oct. 7	563	117	101	116
Printing. Invisible-impression	E. W. Hall	696,633	Apr. 1	432	100	99	93
Printing-machine	H. A. W. Wood	698,203	Feb. 11	1873	405	98	1208
Printing-machine	H. A. W. Wood	694,597	Mar. 4	499	108	98	1819
Printing-machine	E. Jensen	697,089	Apr. 8	1350	299	99	306
Printing-machine	R. L. Shepherd and H. B. Bradford, Jr.	699,420	May 6	571	130	99	1293
Printing-machine	T. Cossar	699,946	May 13	1599	365	99	1518
Printing-machine	J. L. Firm	701,699	June 3	759	168	99	2267
Printing-machine	E. Lee	702,139	June 10	1543	349	99	2444
Printing-machine	J. White	705,180	July 22	3489	758	100	756
Printing-machine	F. J. Martin	708,570	Sept. 9	1018	231	100	2192
Printing-machine	W. Scott	709,515	Sept. 23	2967	661	100	2638
Printing-machine	F. J. Wende and B. B. Carter	709,810	Sept. 23	3500	789	100	2746
Printing-machine	H. A. W. Wood	710,650	Oct. 7	482	102	101	97
Printing-machine. Blue	C. Spaulding	702,252	June 10	1739	393	99	3483
Printing-machine. Blue	S. L. G. Knox and W. O. Wakefield	712,076	Oct. 28	3265	715	101	725
Printing-machine chase-securing device	J. Thomson	717,141	Dec. 30	4947	1073	101	2944
Printing-machine feeding mechanism	J. White	705,181	July 22	3495	758	100	757
Printing-machine inking apparatus	C. P. Cottrell	701,545	June 3	469	105	99	2204
Printing-machine inking mechanism	T. M. North	715,847	Dec. 16	2295	510	101	2344
Printing-machine inking mechanism	J. White	715,916	Dec. 16	2440	539	101	2376
Printing-machine inking mechanism	T. M. North	716,089	Dec. 16	2784	614	101	2450
Printing-machine. Multicolor	G. W. Jackson and E. O. Fearnley	697,487	Apr. 15	2066	456	99	474
Printing-machine. Multicolor	H. F. Beckman	708,013	Sept. 2	22	5	100	1985
Printing-machine printing-block. Oil-cloth	E. F. Tretbar	698,587	Apr. 29	4077	901	99	926
Printing-machine. Roller	T. J. Smith	709,933	Sept. 30	3762	850	100	2813
Printing-machine. Rotary color	W. P. Wrightson	699,361	May 6	440	101	99	1264
Printing-machine sheet-delivery apparatus	C. P. Cottrell	699,866	May 13	1434	331	99	1484
Printing-machine sheet-delivery mechanism	C. P. Cottrell	699,867	May 13	1436	332	99	1484
Printing-machine. Stencil	J. A. Ambler	696,393	Apr. 1	1	1	99	8
Printing-machine. Stencil	G. H. Davis	708,388	July 1	46	9	100	12
Printing-machine. Stencil	A. B. Dick	709,885	Sept. 30	3674	828	100	2795
Printing-machine. Strip	H. C. Lavery	716,064	Dec. 16	2736	604	101	2440
Printing-machine. Universal	C. L. Dawson	699,496	May 6	696	161	99	1320



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Printing machine. Web.	G. F. Read.	705,142	July 22	3424	743	100	743
Printing-machine web-guide.	O. Roosen.	697,173	Apr. 8	1483	332	99	335
Printing-machine wiping device.	W. Fullard.	693,510	Feb. 18	2449	537	98	1350
Printing machine. Yarn.	J. Hamilton.	699,948	May 13	1604	367	99	1519
Printing machines and mechanism for controlling same. Paper-carriage for type.	R. A. Fowden.	711,154	Oct. 14	1447	313	101	316
Printing-machines. Mechanical movement and bed-motion for cylinder	E. F. Leilich.	692,679	Feb. 4	821	185	98	907
Printing-machines. Sheet-delivery mechanism for.	C. P. Cottrell.	690,638	Jan. 7	520	113	98	112
Printing machinery.	S. G. Goss.	707,100	Aug. 19	2103	469	100	1580
Printing. Make-ready for.	A. S. Allen.	711,147	Oct. 14	1434	310	101	314
Printing. Multicolor.	H. F. Bechman.	708,012	Sept. 2	20	5	100	1985
Printing. Multicolor or polychromatic.	M. Rudometoff.	714,853	Dec. 2	624	131	101	1960
Printing on inner or outer surfaces of cones, cylinders, &c. Stamp for	C. H. Callahan.	692,616	Feb. 4	710	164	98	945
Printing on sheets. Cylinder-machine for.	W. Spalckhaver.	703,491	July 1	203	48, 49	100	43
Printing or like machines. Apparatus for feeding separate sheets of paper in	M. T. Barber.	716,983	Dec. 30	4659	1010	101	2883
Printing. Plate.	A. Reid.	692,351	Feb. 4	236	56	98	848
Printing-plate holder.	E. R. Storm.	703,676	July 1	556	125	100	110
Printing-plates. Means for securing	H. Hamlin.	710,970	Oct. 14	1074	237	101	235
Printing plates. Preparing lithographic.	O. C. Strecker.	703,096	June 24	3356	99	2852	
Printing-press.	E. Fischer.	692,508	Feb. 4	504	118	98	901
Printing-press.	J. H. Stonemetz.	693,133	Feb. 11	1824	397	98	1108
Printing-press.	A. E. Dowell.	694,846	Mar. 4	973	217	98	1919
Printing-press.	C. G. Mortimer.	696,145	Mar. 25	3423	768	98	2475
Printing-press.	W. Spalckhaver.	697,558	Apr. 15	2189	486	99	497
Printing-press.	A. P. Warner.	698,344	Apr. 22	3644	806	99	820
Printing-press.	E. Higgins.	700,119	May 13	1897	441	99	1577
Printing-press.	G. P. Fenner.	701,698	June 8	757	163	99	2267
Printing-press.	A. E. Dowell.	702,546	June 17	2287	521	99	2616
Printing-press.	J. L. Firm.	703,189	June 24	3535	813	99	2866
Printing-press.	R. Miehle.	703,438	July 1	128	20	100	28
Printing-press.	T. M. North.	703,665	July 1	535	121	100	105
Printing-press.	W. Scott.	704,124	July 8	1421	304	100	290
Printing-press.	J. L. Firm.	704,624	July 15	2347	510	100	505
Printing-press.	M. Anthony.	705,631	July 29	4485	973	100	908
Printing-press.	H. B. Allen.	706,709	Aug. 12	1360	303	100	1410
Printing-press.	S. G. Goss.	707,101	Aug. 19	2107	470	100	1581
Printing-press.	A. Baruch.	707,540	Aug. 26	2934	471	100	1771
Printing-press.	M. Gally.	707,770	Aug. 26	3445	776	100	1875
Printing-press.	G. S. Heath.	712,064	Oct. 28	3246	710	101	721
Printing-press.	M. L. Severy.	712,099	Oct. 28	3301	723	101	731
Printing-press.	J. L. Firm. (Reissue)	12,051	Nov. 4	1081	231	101	1116
Printing-press.	W. C. Barclay.	713,939	Nov. 18	2859	633	101	1519
Printing-press.	A. B. Carroll.	716,624	Dec. 23	3369	845	101	2, 91
Printing-press addressing attachment	J. P. Bryan.	706,720	Aug. 12	1380	307	100	1414
Printing-press attachment	R. Naumann.	692,065	Jan. 28	3212	725	98	716
Printing-press attachment	E. C. Simpson.	699,854	May 13	1414	327	99	1459
Printing-press attachment. Plate.	A. Reid.	692,350	Feb. 4	235	50	98	847
Printing-press bed-motion	H. Hart.	711,625	Oct. 21	2360	517	101	520
Printing-press controller. Automatic	T. C. Dexter.	699,913	May 13	1533	352	99	1506
Printing-press controlling mechanism	W. C. Williams.	706,622	Aug. 12	1205	267	100	1375
Printing-press controlling mechanism	W. C. Williams.	706,623	Aug. 12	1209	268	100	1377
Printing-press delivery mechanism	A. J. Hood.	699,173	May 6	80	21	99	1192
Printing-press delivery-table	E. M. Howell.	696,818	Apr. 1	797	182	99	169
Printing-press driving means.	S. G. Goss.	702,421	June 17	2059	469	99	2508
Printing press. Envelop.	W. G. Johnston.	699,686	May 13	1077	251	99	1410
Printing-press envelop-feeder	M. W. Lilly.	704,058	July 8	1273	275	100	267
Printing-press feed-gage	E. L. Megill.	703,734	July 1	665	100	133	
Printing-press feed-gage	E. L. Megill.	711,779	Oct. 21	2663	587	101	586
Printing-press feed-gage	E. L. Megill.	712,198	Oct. 28	3476	763	101	765
Printing-press fly-finger	R. Miehle.	693,043	Feb. 11	1515	330	98	1330
Printing-press gage pin. Job.	W. J. Ward.	693,343	Apr. 22	3643	806	99	820
Printing-press gripper mechanism	R. Miehle.	703,605	July 1	406	25	100	83
Printing-press gripping mechanism.	M. Schmidt and E. J. Gebler.	703,409	Sept. 2	737	166	100	2131
Printing-press impression mechanism	H. A. W. Wood.	693,204	Feb. 11	1879	406	98	1209
Printing-press ink-distributing device	J. Thomson.	700,260	May 20	2244	512	99	1671
Printing-press ink-distributing mechanism	G. H. Pierce.	713,682	Nov. 18	2905	527	101	1414
Printing-press ink-fountain.	N. Nilson.	707,625	Aug. 26	3169	528	100	1807
Printing-press inking apparatus. Changer for.	J. Thomson.	717,139	Dec. 30	4944	1072	101	2943
Printing-press inking apparatus. Changer for.	C. B. Mellen.	717,239	Dec. 30	5162	1119	101	2992
Printing-press inking apparatus. Platen.	J. Thomson.	717,516	Dec. 30	5644	1225	101	3000
Printing-press inking device.	G. H. Pierce.	714,944	Dec. 2	607	127	101	1956

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Printing-press inking-roll.....	J. P. Marks	699,110	Apr. 29	5181	1185	99	1154
Printing-press inking-roller.....	J. P. Marks	701,491	June 3	381	86	99	2186
Printing-press inking-roller mechanism. Attachment for.....	S. H. Shaw	714,045	Nov. 18	3071	680	101	1565
Printing-press make-readies or overlays. Preparing.....	M. Dethleffs	715,561	Dec. 9	1743	385	101	2208
Printing-press. Movable-chase.....	D. E. Hunter	711,109	Oct. 14	1359	295	101	295
Printing-press. Multicolor.....	J. E. Caps	696,938	Apr. 8	1068	237	99	247
Printing-press numbering attachment.....	E. F. Hanson	692,515	Feb. 4	530	124	98	906
Printing-press offset mechanism.....	R. Miehle	693,044	Feb. 11	1516	390	98	1183
Printing-press perforating and scoring device.....	W. T. Cole and F. D. Hamilton	712,499	Nov. 4	63	16	101	910
Printing-press perforating attachment.....	A. O. Hayes and E. C. Hemphill	691,860	Jan. 28	2837	638	98	642
Printing-press perforator.....	J. Kane	713,107	Nov. 11	1220	279	101	1165
Printing-press plate-clamping device.....	T. M. North	695,414	Mar. 11	2019	454	98	2154
Printing-press. Platen.....	J. Thomson	717,140	Dec. 30	4945	1072	101	2944
Printing-press. Platen.....	J. Thomson	717,142	Dec. 30	4948	1073	101	2944
Printing-press platens. Device for delivering paper to.....	W. G. Johnston	714,439	Nov. 25	3919	867	101	1754
Printing-press rolls. Means for inking.....	J. H. Schussler	690,895	Jan. 7	996	225	98	209
Printing-press sheet-aligner.....	O. S. Bowman	705,198	July 22	3531	765	100	766
Printing-press sheet-delivery.....	G. P. Fenner	708,878	Sept. 9	1634	376	100	2325
Printing-press sheet-delivery apparatus.....	G. P. Fenner	704,868	July 15	2797	605	100	599
Printing-press sheet-straightener.....	F. S. Matthews	717,427	Dec. 30	5493	1191	101	3059
Printing-press sheeting attachment.....	M. A. Droitcour and G. F. Kalkhoff	692,124	Jan. 28	3310	750	98	736
Printing-press tinting and delivery attachment.....	A. J. Hood	691,863	Jan. 28	2840	638	98	643
Printing-press. Tip.....	J. F. Williams	699,049	Apr. 29	5093	1113	99	1135
Printing-press tympan-surface.....	A. S. Allen	705,011	July 22	3154	681	100	689
Printing-press. Web.....	W. Spitzhaver	706,269	Aug. 5	536	116	100	1224
Printing-presses. Adjustable and throw-off roller-track for.....	A. W. Fritz	707,313	Aug. 19	2511	564	100	1666
Printing-presses. Apparatus for dispelling electricity in delivering sheets into or from.....	F. A. Eyler	699,160	May 6	60	16	99	1188
Printing-presses, &c. Automatic protector for.....	T. C. Dexter	705,230	July 22	3559	776	100	777
Printing-presses. Gripper for platen.....	A. L. Anderson	706,876	Aug. 12	1696	380	100	1481
Printing-presses, &c. Stop-motion for.....	G. R. Williams	715,446	Dec. 9	1504	326	101	2162
Printing-roller-adjusting device.....	J. S. Bulluck	710,747	Oct. 7	671	140	101	136
Printing. Silk.....	M. Ducat, C. J. A. Marnas, and L. H.	711,835	Oct. 21	2768	613	101	606
Printing-surfaces. Manufacture of.....	O. Foerster	711,101	Oct. 14	1348	.....	101	293
Printing-wheel.....	O. N. Teyander	714,835	Dec. 2	376	80, 81	101	1911
Printing with sulfur dyes.....	E. Voetter	708,429	Sept. 2	769	.....	100	2137
Prism-glass for skylights.....	G. E. Androvette	705,372	July 22	3941	854	100	846
Projectile.....	C. E. Neubauer	693,329	Feb. 11	2099	459	98	1257
Projectile.....	J. B. Semple	694,032	Feb. 25	3484	768	98	1578
Projectile.....	J. J. McIntyre	695,578	Mar. 18	2943	531	98	2239
Projectile.....	C. C. Bowers	700,166	May 20	2050	468	99	1629
Projectile.....	A. W. Mattson	702,664	June 17	2521	577	99	2664
Projectile.....	J. B. Semple	707,024	Aug. 12	1953	438	100	1532
Projectile.....	J. B. Semple	708,411	Sept. 2	740	166	100	2131
Projectile.....	E. J. Hill	711,209	Oct. 14	1582	339	101	343
Projectile and fuse.....	L. Julig	693,718	Feb. 18	2849	638	98	1430
Projectile and time-fuse therefor.....	W. Ruegg	699,577	May 6	854	199	99	1351
Projectile. Hollow.....	A. W. Erdman	713,412	Nov. 11	1832	413	101	1290
Projectile or shell for ordnance. Explosive.....	C. Puff	709,854	Sept. 23	3576	806	100	2764
Projectiles. Hardening.....	R. A. Hadfield	709,631	Sept. 23	3161	705	100	2674
Projecting apparatus.....	R. H. Edwards	704,449	July 8	2015	438	100	427
Projecting apparatus.....	A. and L. Lumière	705,771	July 29	4743	1627	100	1010
Projecting apparatus.....	J. H. Richenbach	711,440	Oct. 14	1993	482	101	429
Propeller.....	W. O. Whitney	691,514	Jan. 21	2177	487	98	489
Propeller.....	D. Selkirk	709,801	Sept. 23	3488	786	100	2744
Propeller.....	C. A. Manker	710,111	Sept. 30	4109	927	100	2885
Propeller.....	S. Irwin	713,441	Nov. 11	1879	426	101	1292
Propeller. Adjustable screw.....	E. E. Punzelt	705,866	July 29	4907	1067	100	1059
Propeller. Buoyant.....	B. T. Herold	694,274	Feb. 25	3923	877	98	1665
Propeller-controller.....	W. Cooper	702,123	June 10	1523	345	99	2441
Propeller-controlling device for submarine boats.....	S. Lake	715,395	Dec. 9	1413	305	101	2144
Propeller. Duplex.....	H. B. Allison	715,191	Dec. 2	1036	223	101	2048
Propeller. Endless.....	A. Kuentz	707,600	Aug. 26	3059	688	100	1796
Propeller-fan and propeller for ships. Rotary.....	S. C. Davidson	705,046	July 22	3210	693	100	700
Propeller-gear.....	G. W. Gardiner	695,717	Mar. 18	2573	582	98	2284
Propeller. Hand-power.....	I. A. Wilson	696,703	Apr. 1	588	132	99	128
Propeller. Marine.....	B. Cannon	695,276	Mar. 11	1785	396	98	2105
Propeller. Marine.....	C. C. D. Carvalho	703,181	June 24	3512	807	99	2882
Propeller. Oscillating.....	C. Hayes	705,348	July 22	3900	844	100	838
Propeller. Reversible.....	S. W. Thaxter	711,021	Oct. 14	1187	261	101	261
Propeller. Reversible.....	M. H. Dupue	712,123	Oct. 28	3349	733	101	741
Propeller. Reversible screw.....	L. Wilson	700,278	May 20	2276	520	99	1677
Propeller. Screw.....	F. C. Metz	691,792	Jan. 28	2716	610	98	618
Propeller. Screw.....	R. Thaler	698,584	Apr. 29	4073	900	99	925
Propeller. Screw.....	C. A. Parsons	700,365	May 20	2456	563	99	1713
Propeller. Screw.....	J. Aegeter	701,242	May 27	4118	947	99	2075



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Propeller-shaft brake	G. Whittlesey	697,053	Apr. 8	1276	283	99	290
Propeller-shaft governor	W. R. May	705,417	July 22	4019	284	100	863
Propeller-shaft-reversing apparatus	J. Titus, T. W. Burt, and D. D. Smith	691,300	Jan. 14	1743	871	98	378
Propeller-shaft reversing-gear	A. L. Kull	714,197	Nov. 25	3395	747	101	1651
Propeller-shafts. Coupling for ships	J. Verity	699,356	May 6	432	98	99	1262
Propeller. Steering	W. Sjostrom	711,884	Oct. 21	2867	634	101	629
Propeller. Vessel	D. H. Rohwedder	692,910	Feb. 11	1258	279	98	1083
Propeller. Vibrating	W. W. Phares	706,198	Aug. 5	381	81	100	1194
Propeller-wheel	L. W. Hammond	695,389	Mar. 11	1980	443	98	2145
Propeller-wheel	E. E. Strothman	698,582	Apr. 29	4071	900	99	924
Propellers of ships. Means for housing	J. Hamilton	707,411	Aug. 19	2690	607	100	1704
Propelling apparatus. Convertible boat	J. Whiteside	714,766	Dec. 2	228	45	101	1883
Propelling device. Boat	F. J. Gleason	704,186	July 8	1546	383	100	326
Propelling device for boats. Portable	I. R. Miller	712,081	Oct. 28	3277	718	101	727
Propelling mechanism for dredges, &c	A. N. Cross	717,354	Dec. 30	5354	1164	101	3033
Propelling vessels by steam-turbines	C. A. Parsons	716,468	Dec. 23	3543	774	101	2622
Propulsion. Marine	J. J. Astor	690,821	Jan. 7	875	193	98	185
Propulsion. Marine	I. M. Chase	692,117	Jan. 28	3296	747	98	734
Propulsion. Marine	R. B. Hewson	712,677	Nov. 4	397	98	101	980
Propulsion. Marine	O. E. Sawyer	713,755	Nov. 18	3555	569	101	1456
Propulsion of ships	F. C. Homer	691,314	Jan. 14	1180	85	98	386
Propulsion of ships. Apparatus for the hydraulic	L. Vidal	699,043	Apr. 29	5024	1111	99	1133
Propulsion. Steam-vessel	C. A. Parsons	712,713	Nov. 4	456	108	101	793
Protective apparatus	W. Kaisling	717,212	Dec. 30	5113	1109	101	2381
Protective system	A. H. Armstrong	714,355	Nov. 25	3095	813	101	1710
Proteids from non-nitrogenous bodies. Separating	J. Carstairs	713,935	Nov. 11	1815	551	101	1286
Protractor	O. Quayle	703,605	Jan. 14	411	96	100	101
Protractor. Bevel	C. H. Barnes	716,170	Dec. 16	2944	646	101	2482
Protractor. Navigating	C. M. McCormick	692,060	Jan. 28	3203	723	98	715
Protractor, square, and pitch-board. Combined bevel	N. D. Hamel	700,326	May 20	2385	544	99	1697
Pruner	J. P. M. Joseph	692,673	Feb. 4	813	184	98	966
Pruning implement	A. Cross of Albert	700,901	May 27	3498	808	98	1945
Pruning-shears	C. W. Reed and J. Hakel	691,811	Jan. 28	2753	621	98	625
Puddling-furnace	J. D. Swindell	695,182	Mar. 11	1617	358	98	2071
Puddling-iron	R. A. Carter	701,294	June 3	28	99	101	2114
Puddling or boiling furnace. Reverberatory	W. Kent	694,970	Mar. 11	1228	268	98	1989
Pull-socket	H. Hubbell	693,739	Feb. 18	2996	660	98	1459
Puller:							
See Beet-puller.	Stone-puller.						
Nail-puller.	Stopper-puller.						
Pipe-puller.	Stump-puller.						
Spike-puller.	Tack-puller.						
Stalk-puller.	Tack or nail puller.						
Staple-puller.	Vegetable-puller.						
Spoke-puller.	Weed-puller.						
Pulley	H. H. Boyce	693,945	Feb. 25	3291	724	98	1538
Pulley	F. Albert	699,434	May 6	588	133	99	1296
Pulley	W. Loudon	700,212	May 20	2137	490	99	1648
Pulley	W. E. Penn	705,129	July 22	3386	733	100	735
Pulley. Adjustable or separable	R. C. Fay	707,085	Aug. 26	3298	726	100	1833
Pulley and adjusting mechanism therefor. Adjustable	C. E. Holmes	695,052	Mar. 11	1378	302	98	2021
Pulley-and-band power-transmitting appliance	J. Moorhouse	701,203	July 8	1575	340	100	330
Pulley attachment	L. C. Coulter	699,662	May 13	1027	230	99	1400
Pulley attachment. Split	A. W. Hight	696,636	Apr. 1	439	102	99	95
Pulley-block	J. B. Roney	691,492	Jan. 21	2133	478	98	479
Pulley-block	G. Averly	712,471	Nov. 4	3	1	101	897
Pulley-block	L. E. Laurent and E. E. Cherry	715,589	Dec. 9	1787	396	101	2218
Pulley-block. Differential-gear	R. Lavery	718,152	Sept. 2	285	68	100	3040
Pulley. Catching	A. H. Hoyer	715,570	Oct. 21	2358	490	101	570
Pulley. Clutch	T. J. O'Brien and H. L. Allen	698,313	Apr. 22	3002	705	99	811
Pulley-covering	R. H. Willis	694,046	Feb. 25	3513	773	98	1582
Pulley-covering machine	G. M. Birling	714,556	Nov. 25	4052	896	101	1781
Pulley. Expandible	R. Temple	692,219	Jan. 28	3493	790	98	774
Pulley. Expandible	J. C. Pratt	698,854	Apr. 29	4708	1037	99	1067
Pulley. Expansion	S. W. Wardwell	690,494	Jan. 7	244	50	98	53
Pulley. Expansion	P. Jacobsen	693,545	Feb. 18	2518	554	98	1364
Pulley for signal-wires, &c	S. T. Dutton	695,381	Mar. 11	1969	441	98	2143
Pulley hanger. Split	J. W. Berry	698,359	Apr. 22	3681	812	99	828
Pulley-key. Self-tightening	F. Wiggins	697,034	Apr. 8	1278	284	99	200
Pulley. Lubricating	A. H. Hoyer	696,570	Oct. 21	2358	490	101	570
Pulley lubricator. Loose	C. S. Scobee	703,838	July 1	853	188	100	171
Pulley mechanism. Reversing	J. Darling and C. C. Ellenberger, Jr	707,396	Aug. 19	2665	601	100	1699
Pulley power and motion transmission	J. W. Cole	716,520	Dec. 23	3655	798	101	2644
Pulley-rims. Roll for curving sheet-metal	T. Coriscaden	694,910	Mar. 4	1100	243	98	1944
Pulley. Sash	A. Johnson	694,482	Mar. 4	267	60	98	1769
Pulley. Sash-cord	J. W. and C. T. Barton	697,431	Apr. 15	1973	437	99	455
Pulley. Sash-cord	P. Bosch	709,449	Sept. 16	1880	432	100	2386
Pulley. Self-lubricating	C. J. Hunt and B. H. Lambers	697,721	Apr. 15	2494	557	99	350
Pulley. Sheet-metal	G. H. Bicalky	691,929	Jan. 28	2951	664	98	666
Pulley. Sheet-metal	C. A. Brinley	706,894	Aug. 12	1737	387	100	1489
Pulley. Split	H. W. Finch	706,917	Dec. 12	1769	393	100	1496
Pulley. Split	J. W. Berry	715,634	Dec. 9	1855	412	101	2231
Pulley. Split	C. H. Bicalky	715,950	Dec. 16	2515	554	101	2393
Pulley. Wooden split	C. Wittkowsky	703,631	June 24	3217	740	99	2835

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Pulleys. Construction of driving or similar .....	G. L. Scott, M. W. Mills, and T. C. Ormerod.	715,304	Dec. 9	1256	267	101	2113
Pulleys, wheels, &c. Device for adjustably uniting the rims and spokes of .....	B. Dedman .....	716,872	Dec. 30	4440	963	101	2888
Pulling-over machine .....	A. F. Preston .....	693,620	Feb. 18	2668	589 590	98	1394
Pulling-over machine .....	J. E. Jackson .....	700,332	May 20	2396	547	99	1700
Pulp and paper making machine .....	H. Parker .....	693,896	Feb. 25	3203	706	98	1521
Pulp. Apparatus for separating clean from refuse chips in the manufacture of wood- .....	T. P. Burgess .....	693,684	Feb. 18	2790	614	98	1419
Pulp-compressing apparatus. Collapsible mandrel for .....	G. E. Shaw .....	693,571	Feb. 18	2573	568	98	1374
Pulp-compression apparatus .....	G. E. Shaw .....	693,570	Feb. 18	2570	567	98	1373
Pulp digesters. Valve for wood- .....	J. Joule .....	705,091	July 22	3307	719	100	718
Pulp-engine .....	T. Bässler .....	716,172	Dec. 16	2946	647	101	2482
Pulp into sheets. Forming wood- .....	J. S. Hughes .....	691,771	Jan. 28	2676	599	98	610
Pulp. Machine for the manufacture of sheets, boards, or tubes from .....	F. E. Keyes .....	692,862	Feb. 11	1145	255 256	98	1059
Pulp. Manufacture of peat-fiber .....	A. Kalmann .....	698,118	Apr. 22	3254		99	738
Pulp peels. Apparatus for making .....	A. D. Heylard .....	698,948	Apr. 23	4864	1074	99	1100
Pulp press. Wood- .....	J. S. Hughes .....	691,770	Jan. 28	2671	599	98	609
Pulp. Reducing fibrous material to .....	C. T. Lee .....	701,271	May 27	4175		99	2085
Pulp-refining engine .....	G. A. Clark .....	696,314	Mar. 25	3769	840	98	2546
Pulp-screen .....	O. H. Moore .....	695,754	Mar. 18	2639	599 600	98	2298
Pulp-screen. Centrifugal .....	J. H. Baker, G. F. Shevlin, and F. H. Baker.	693,215	Feb. 11	1904	413	98	1215
Pulp-screen circulating-box .....	L. Whalley .....	694,707	Mar. 4	710	155	98	1861
Pulp-separator .....	J. K. McLaughlin .....	706,441	Aug. 5	895	193 194	100	1296
Pulp-strainer screen-plate .....	N. L. Vrooman and R. R. Kirkland.	703,683	July 1	574	128	100	1114
Pulp-timber. Tool for rossing and peeling .....	J. R. Turner .....	695,353	Mar. 11	1920	428	98	2131
Pulp vessels. Apparatus for manufacturing closed.	J. T. 165 .....	711,165	Oct. 14	1477	320	101	323
Pulp vessels. Apparatus for manufacturing closed.	F. B. Howard .....	708,642	Sept. 9	1160	203	100	2328
Pulp vessels. Apparatus for manufacturing closed.	F. B. Howard .....	710,694	Oct. 7	564	118	101	116
Pulp vessels. Apparatus for the manufacture of closed	F. B. Howard .....	710,101	Sept. 30	4089	923	100	2882
Pulp-washing apparatus .....	A. Hinzke .....	702,556	June 17	2305	525	99	2620
Pulping-machine .....	C. Wurster .....	690,506	Jan. 7	271	55	99	100
Pulsometer .....	F. Haussmann .....	703,788	July 1	769	168	100	154
Pulverized-fuel burner .....	F. M. Reed .....	706,495	Aug. 5	982	215 216	100	1315
Pulverizer .....	H. Ariens and J. Thompson .....	695,024	Mar. 11	1326	293	98	2010
Pulverizer .....	J. R. Jones .....	698,960	Apr. 29	4885	1079	99	1104
Pulverizer .....	J. C. Clark .....	703,542	July 1	296	67, 68	100	60
Pulverizer .....	R. Creuzbauer .....	705,323	July 22	3815	827 828 290	100	821
Pulverizer .....	A. C. and A. W. Hilsinger .....	708,640	Sept. 9	1156	261 262 263	100	2227
Pulverizer. Land- .....	H. Howe .....	702,859	June 17	2386	667 668	99	2741
Pulverizing and grading material. System for .....	W. S. Osborne and E. C. Bryant .....	710,694	Oct. 7	396	83	101	79
Pulverizing apparatus .....	W. F. McClellan .....	691,163	Jan. 14	1480	325	98	323
Pulverizing-mill .....	C. Wallace .....	693,089	Feb. 11	1603	349 350	98	1153
Pulverizing-mill .....	G. S. Maxwell .....	704,650	July 15	2388	517	100	515
Pulverizing-shoe .....	H. F. Deterding .....	706,729	Aug. 12	1397	311 312	100	1418
Pump .....	G. E. Whitney .....	691,512	Jan. 21	2172	486	98	488
Pump .....	G. Morrill .....	691,652	Jan. 21	2123	544	98	539
Pump .....	H. S. Clark .....	693,236	Feb. 11	1939	421	98	1222
Pump .....	C. H. Atkins .....	695,133	Mar. 11	1540	340 341	98	2054
Pump .....	E. Warren .....	697,046	Apr. 8	1267	281	99	388
Pump .....	A. S. Cardella .....	699,448	May 6	609	139	99	1301
Pump .....	J. Clancy .....	700,170	May 20	3054	469	99	1630
Pump .....	O. J. Brackney .....	701,336	May 27	3567	820	99	1960
Pump .....	A. Radovanovic .....	701,139	May 27	3941	906	99	2039
Pump .....	J. W. Reynolds .....	702,245	June 10	1728	390 391	99	2481
Pump .....	W. F. Garrison .....	702,590	June 17	2384	544	99	2636
Pump .....	P. H. Deis .....	705,047	July 22	3213	603	100	95
Pump .....	H. T. Henson .....	705,351	July 22	3304	845	100	839
Pump .....	R. H. Ivor and J. S. Ward .....	705,670	July 29	4554	989	100	982
Pump .....	R. H. Yale .....	706,564	Aug. 12	1097	243	100	1353
Pump .....	C. C. Worthington .....	709,288	Sept. 16	2468	556	100	2520
Pump .....	G. E. Green .....	710,030	Sept. 30	3946	890	100	2833
Pump .....	E. E. Hendrick .....	711,965	Oct. 7	879	191	101	178
Pump .....	D. Lippy and L. D. Patten .....	711,966	Oct. 28	3056	671	101	685
Pump .....	A. W. Weaver .....	712,395	Oct. 28	3824	835	101	841
Pump .....	C. G. Nyberg .....	714,416	Nov. 25	3797	838 839	101	1731
Pump .....	J. Maurer .....	716,090	Dec. 16	2790	615	101	2452
Pump .....	P. H. Deis .....	716,731	Dec. 23	4048	886 887	101	2729
Pump .....	W. S. McRoberts .....	716,830	Dec. 23	4350	944	101	2803
Pump-actuating mechanism .....	B. Musser .....	717,252	Dec. 30	5186	1124	101	2997
Pump. Air- .....	G. W. Eddy .....	705,425	July 22	4082	874	100	866
Pump. Air- .....	J. Robertson .....	695,199	Mar. 11	1645	366	98	2077
Pump. Air- .....	J. E. Lambert .....	695,492	Mar. 18	2153	486	98	2300
Pump. Air- .....	J. E. Lambert .....	695,613	Mar. 18	2406	545	98	2251



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Pump. Air.....	G. W. Kellogg .....	698,710	Apr. 29	4404	971 972	99	996
Pump. Air.....	T. N. Case .....	707,821	Aug. 26	3550	801 802 803	100	1896
Pump. Air.....	E. Walther .....	708,944	Sept. 9	1747	403 404	100	2351
Pump. Air.....	C. M. Day .....	708,968	Sept. 30	3847	855	100	2382
Pump air-chamber.....	J. E. Sponseller and G. Fenno.....	696,277	Mar. 25	3963	819	98	2523
Pump. Air or steam operated.....	F. Heil .....	716,539	Dec. 23	4364	947	101	2806
Pump and bailer. Sand.....	W. E. Johnston.....	702,436	June 17	2089	476	99	2574
Pump and bailer. Sand.....	F. W. Jackson.....	702,653	June 17	2503	573	99	3041
Pump attachment.....	F. F. Semm .....	712,010	Oct. 28	3141	687	101	701
Pump attachment. Beer.....	E. A. August .....	706,792	Aug. 12	1540	345	100	1447
Pump attachment. Plumber's.....	J. Horn .....	703,657	July 1	515	115 116	100	101
Pump. Automatic.....	C. Nielsen, A. C. and L. S. Andersen.....	713,667	Nov. 18	2334	521	101	1407
Pump. Automatic siphon.....	A. Bruzek .....	709,662	Sept. 23	3213	717	100	2688
Pump balance attachment. Centrifugal.....	F. Ray .....	696,655	Apr. 1	476	110	99	111
Pump bushing. Centrifugal.....	J. Edwards .....	693,247	Feb. 11	1956	425	98	1296
Pump. Centrifugal.....	A. T. Ames and S. M. Fulton.....	695,871	Mar. 18	2360	648 649	98	2345
Pump. Centrifugal.....	J. D. McRae .....	700,224	May 20	2169	496 497	99	1654
Pump. Centrifugal.....	W. S. Sharpneck, (Reissue).....	12,001	June 17	2970	684	99	2758
Pump. Centrifugal.....	H. Sulzer .....	704,144	July 8	1471	315	100	1141
Pump. Centrifugal.....	E. G. Harris .....	705,347	July 22	3897	843	100	887
Pump. Centrifugal.....	S. W. Luitwieler .....	715,825	Dec. 16	2253	1501	101	2335
Pump. Centrifugal.....	E. G. Harris .....	717,096	Dec. 30	4961	1053	101	2906
Pump. Chain.....	L. A. Brigel .....	700,729	May 27	3169	719	99	1877
Pump. Combined air and water.....	E. D. Deeter .....	701,163	May 27	3975	914	99	2047
Pump connection.....	L. Rumboski .....	712,461	Oct. 28	3959	1001	101	868
Pump connection.....	F. N. Stevens .....	712,738	Nov. 4	500	118	101	1001
Pump controller. Beer or other.....	E. S. Baldwin .....	710,736	Oct. 7	645	134 135	101	132
Pump-cylinder check-valve.....	J. W. Park .....	701,607	June 3	588	129	99	2231
Pump. Deep-well.....	A. J. Webster, M. W. Hall, and W. E. Stadler.....	711,804	Oct. 21	2713	599	101	596
Pump. Diaphragm.....	W. F. Runnells.....	696,696	Apr. 1	562	128	99	122
Pump. Double-acting cylinder.....	H. B. Arnold .....	698,387	Apr. 22	3727	824	99	488
Pump. Double-action.....	E. Byars .....	711,654	Oct. 21	2412	531	101	531
Pump. Eccentric-chain lift.....	W. C. Buck .....	696,624	Apr. 1	418	97	99	91
Pump. Equalizing device. Steam.....	P. F. Oddie .....	708,912	Sept. 9	1696	391	100	2342
Pump. Fluid-pressure.....	J. McCulloch .....	701,513	June 3	943	209	99	2036
Pump for fluid-tanks.....	F. W. Howard .....	694,645	Mar. 4	587	129	98	1837
Pump for handling heavy oils.....	F. O. Sterrett .....	693,920	Feb. 25	3244	714	98	1329
Pump for measuring, mixing, blending, or diluting liquids.....	R. G. Whitlock .....	712,164	Oct. 28	3421	1749 1750	101	755
Pump. Force.....	P. A. Myers .....	691,654	Jan. 21	2426	1345 1346	98	540
Pump. Force.....	O. O. Branna .....	699,484	May 6	678	158	99	1317
Pump. Force.....	D. L. Friddle .....	710,770	Oct. 7	713	150	101	146
Pump-governor.....	L. B. Fulton .....	717,383	Dec. 30	5400	1174	101	3042
Pump-governor valve. Automatic.....	J. A. Baldwin .....	714,994	Dec. 2	692	145	101	1974
Pump. Hand.....	R. H. White .....	697,585	Apr. 15	2235	499	99	507
Pump-handle.....	J. M. Lowe .....	698,720	Apr. 29	4419	975	99	1001
Pump-head.....	H. M. Etter .....	700,484	May 20	2935	617	98	1761
Pump. Hydraulic.....	C. B. Lakeman .....	695,315	Mar. 18	3755	628	98	2332
Pump. Hydraulic.....	W. Wagner .....	707,284	Aug. 19	2461	552	100	1636
Pump. Liquid-measuring.....	C. P. Mosher .....	712,866	Nov. 4	701	162	101	1042
Pump mechanism.....	E. M. Ivens .....	705,844	July 29	4965	1057	100	1045
Pump. Mixing.....	H. F. C. Soellner .....	694,210	Feb. 25	3311	842	98	1642
Pump-motor.....	G. W. Cook .....	691,447	Jan. 21	2953	460	98	493
Pump-motor.....	P. S. Woods .....	702,521	June 17	2249	512	99	2049
Pump. Oil.....	W. S. Weybach .....	693,727	Feb. 18	2870	879	98	1435
Pump. Oil-well.....	S. W. Meals .....	708,907	Sept. 9	1674	385	100	2336
Pump. Oil-well.....	J. Horsley .....	710,778	Oct. 7	738	157	101	171
Pump. Oil-well.....	A. B. Gahagan .....	715,253	Dec. 9	1154	247	101	2640
Pump-operating mechanism.....	J. B. Miller .....	691,957	Jan. 28	3009	675	98	677
Pump or exhaust. Vacuum.....	T. A. Rose, W. A. Gwynn, and A. M. Barnes.....	716,110	Dec. 16	2837	624	101	2461
Pump or force-blast blower. Rotary.....	J. Kirkwood .....	693,609	Feb. 19	2653	545	98	1390
Pump-pipe grapple.....	L. N. and S. H. Schulte.....	702,334	June 10	1881	429	99	2510
Pump. Pneumatic.....	R. W. Elliott .....	709,212	Sept. 16	2314	525	100	2487
Pump. Quadruple.....	W. H. Blair .....	710,416	Oct. 7	35	8	101	9
Pump-rod coupling.....	J. M. Lowe .....	698,721	Apr. 29	4420	975	99	1001
Pump-rod ejector.....	W. Hoekstra .....	694,278	Feb. 25	3394	875	98	1666
Pump-rod guide. Oil-well.....	C. F. Rigby .....	696,749	Apr. 1	671	152	99	143
Pump. Rotary.....	G. A. Walker .....	693,470	Feb. 18	2377	520	99	1335
Pump. Rotary.....	W. W. Wainwright.....	704,224	July 8	1696	348	100	336
Pump. Rotary.....	O. C. Jones .....	712,937	Nov. 4	889	269	101	1079
Pump. Rotary force.....	S. M. Frank .....	709,597	Sept. 23	3105	692	100	2667
Pump. Rotating-cylinder.....	R. Richardson .....	697,019	Apr. 8	1223	272 273	99	278
Pump runner. Centrifugal.....	F. Ray .....	704,756	July 15	2581	557	100	554
Pump. Siphon.....	G. Giorgetti, T. J. Fuyat, and D. Federigo.....	697,835	Apr. 15	2697	599	99	604
Pump-spring connection.....	J. O. Bane .....	706,149	Aug. 5	287	60	100	1175
Pump. Steam.....	A. Abendroth .....	691,349	Jan. 21	1867	421	98	423
Pump. Steam.....	F. Freyhold .....	695,126	Feb. 11	1692	369	98	1172
Pump. Steam.....	P. F. Oddie .....	703,968	July 1	1102	237	100	218

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Pump strainer. Mine.	J. Kurtz	705,364	July 22	3931	852	100	844
Pump. Suction.	D. Schurman	711,350	Oct. 14	1841	400	101	398
Pump suction-pipe strainer.	W. R. Emerson	704,012	July 8	1186	258	100	251
Pump-tube coupling. Chain.	L. A. Brigel, Jr.	699,648	May 13	1004	238	99	1396
Pump. Vacuum.	W. F. Garrison	698,400	Apr. 22	3749	827	99	842
Pump-valve.	D. C. Word	708,508	Sept. 2	919	208	100	2168
Pump valve. Vacuum.	W. F. Garrison	702,054	June 10	1412	316	99	2417
Pump valves. Actuating liquid.	G. B. Petsche	714,604	Nov. 25	4143	916	101	1801
Pump valves. Apparatus for actuating liquid.	G. B. Petsche	714,603	Nov. 25	4134	915	101	1799
Pump vent-closing valve	J. E. Penner	697,358	Apr. 8	1800	403	99	402
Pump. Water-sealed air.	M. Potvliet	705,704	July 29	4627	1002	100	996
Pump. Wave-motion	E. Chaquette	708,997	July 8	1165	253	100	247
Pumps. Automatic shut-off for electric	J. H. Fox and C. M. Lowther	693,542	Feb. 18	2512	553	98	1562
Pumps. Automatic switch for electric	A. C. Griesom	707,967	Aug. 26	3824	860	100	1449
Pumps. Cylinder-changing valve for	C. C. Worthington	698,479	Feb. 18	2396	524	98	1339
Pumps. Joining-flange for test	B. Fluder	697,827	Apr. 15	2682	595	99	601
Pumps. Motive-power for operating systems of	D. D. Shaw	715,614	Dec. 9	1822	404	101	2325
Pumps. Proportionate-distribution valve system for	A. Abendroth	702,903	June 24	2975	685	99	2777
Pumps. Shaft-bearing for centrifugal	J. Hedlund	715,064	Dec. 2	797	169	101	1997
Pumping and dredging apparatus	G. A. Farwell	691,123	Jan. 15	1364	337	98	307
Pumping and fluid-actuated machine. Fluid.	W. C. Vandegrift	715,441	Dec. 9	1495	324	101	2161
Pumping apparatus	C. C. Worthington	694,513	Mar. 4	328	73	98	1782
Pumping apparatus	J. Albrechtszinski	699,829	May 13	1352	314	99	1467
Pumping apparatus	J. W. Simmons	702,496	June 17	2211	504	99	2601
Pumping apparatus	T. G. E. Lindmark	706,187	Aug. 5	361	78	100	1190
Pumping apparatus. Water.	G. J. Roberts	715,871	Dec. 16	2359	522	101	2359
Pumping apparatus. Well.	B. Winkelman	696,616	Apr. 1	406	94	98	89
Pumping-engine	J. J. Delaney	695,288	Mar. 11	1826	405	98	2112
Pumping-engine	H. Nielsen	700,974	May 27	3626	833	99	1971
Pumping-engine	F. L. Orr	715,131	Dec. 2	931	200	101	2027
Pumping-engine. Compensating high-duty	G. de Laval and G. P. Aborn	690,969	Jan. 14	1136	257	98	253
Pumping-engine. Condensing	F. M. Leavitt	704,054	July 8	1220	272	100	285
Pumping-engine. Electric	S. Brunau	701,536	June 3	455	102	99	2202
Pumping-engine. Hot-air.	J. T. Lally and J. J. English	706,425	Aug. 5	352	187	100	1286
Pumping-engine. Steam.	C. C. Worthington	690,545	Jan. 7	839	69	98	73
Pumping-engine. Steam	A. A. Groshon	711,702	Oct. 21	2510	551	101	553
Pumping-jack	T. W. Hullinger	696,338	Mar. 25	3807	848	98	2554
Pumping machine. Gas.	S. L. G. Knox	712,548	Nov. 4	174	41	101	933
Pumping mechanism. Automatic	A. B. Anderson	697,595	Apr. 15	2255	503	99	512
Pumping mechanism for feeding water to steam-boilers.	C. Crompton	699,081	Apr. 29	5081	1124	99	1144
Pumping power. Oil-well	G. D. Newton	701,497	June 3	392	88	99	2189
Pumping water under hydraulic power. Means for.	J. D. Hobbs	711,858	Oct. 21	2815	623	101	619
Pumping wells. Power device for	J. J. Kwis	712,314	Oct. 28	3676	803	101	808
Punch.	H. L. Foss	695,680	Mar. 18	2519	570	98	2273
Punch and shears. Combined	S. S. Temple	706,720	Aug. 5	360	121	100	1229
Punch and spacing tool. Prick.	J. F. Kidder	704,344	July 8	1826	396	100	385
Punch and time-stamp. Combined	L. S. Starrett	713,021	Nov. 4	1039	243	101	1109
Punch. Check.	E. G. Connette	713,287	Nov. 11	1613	365	101	1242
Punch. Cold-iron	G. M. Merritt	713,322	Nov. 11	1679	378	101	1257
Punch. Hand.	J. C. Burgess	691,932	Jan. 28	2957	666	98	667
Punch. Pocket-knife leather.	W. A. Bernard	699,210	May 6	144	36	99	120
Punch. Shear.	T. F. Phillippi	712,482	Nov. 4	34	10	101	904
Punch. Ticket.	O. L. Harrison	701,878	June 10	1063	239	99	2346
Punch. Ticket.	H. Cottrell	698,820	Feb. 11	2061	450	98	1248
Punching and eyeletting machine.	H. Cottrell	708,465	Apr. 29	4620	1019	99	1048
Punching and printing machine.	H. Cottrell	708,465	Sept. 2	839	191	100	2151
Punching-bag	E. B. Stimpson	696,211	Mar. 25	3542	792	98	2498
Punching-bag apparatus	J. H. Shepherd	716,586	Dec. 23	3794	825	101	2675
Punching-bag apparatus	C. B. Whitney	695,186	Mar. 11	1622	360	98	2072
Punching-bag apparatus	C. B. Whitney	695,187	Mar. 11	1624	360	98	2072
Punching-bag apparatus	G. Yoerger	716,163	Dec. 16	2927	644	101	2478
Punching-bag support.	S. Criswell	706,866	Aug. 12	1673	376	101	1477
Punching-bag support.	C. W. Dudley	696,335	Apr. 22	3743	826	99	841
Punching-bag support.	G. S. Maxwell	710,113	Sept. 30	4112	928	100	2886
Punching-bag support.	G. S. Maxwell	712,828	Nov. 4	680	158	101	1037
Punching-bag support.	H. D. Crippen	714,456	Nov. 25	3874	855	101	1745
Punching-bag support.	G. S. Maxwell	714,500	Nov. 25	3949	876	101	1759
Punching-bag-supporting device	G. S. Maxwell	710,112	Sept. 30	4111	927	100	2886
Punching-bag-supporting device	G. S. Maxwell	713,232	Nov. 11	1457	330	101	1212
Punching-machine	F. F. Cumms	692,122	Jan. 28	3308	750	98	736
Punching-machine	D. R. McLaren	699,552	May 6	798	188	99	1340
Punching-machine	J. Heissenberger	703,959	July 1	1078	233	100	215
Punching-machine	B. F. Hall	706,552	Aug. 12	1081	239	100	1349
Punching-machine	J. E. Scott	706,601	Aug. 12	1167	253	100	1367
Punching-machine	J. Sadowsky	714,401	Nov. 25	3773	833	101	1726
Punching-machine. Metal-strip	J. S. Stokes	717,049	Dec. 30	4776	1085	101	2908
Punching-machine spacing-table	J. Christie	713,962	Nov. 18	2906	646	101	1529
Punching-machines, &c. Locking device for use in.	E. B. Stimpson	703,747	July 1	689	152	100	137
Punching-press guide	T. B. and J. R. Conley	701,544	June 3	467	105	99	2204
Punching-register	C. Berst	691,587	Jan. 21	2299	518	98	513
Punching-tool. Hydraulic	C. Wigdel	714,546	Nov. 25	4033	893	101	1778
Puncture-healing composition	W. O. De Mars	693,083	Apr. 29	5085	122	99	1145



*Alphabetical list of inventions—(Continued.)*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dis.	Vol.	Page.
Puncture-healing compound .....	L. C. Grant and N. B. Chester .....	715,764	Dec. 16	2169	.....	101	2318
Purse or bag frame catch .....	A. F. Fuller .....	697,467	Apr. 15	2033	449	90	467
Purse or bag frame catch .....	A. F. Fuller .....	698,003	Apr. 22	3018	663	99	690
Purse or bag frames. Catch or lock for .....	E. E. Witte .....	716,799	Dec. 23	4179	917	101	2755
Purse or bag frames. Holding-catch for .....	B. vom Eigen .....	716,397	Dec. 23	3401	742	101	2590
Push and switch. Electrical .....	E. G. Harcourt and M. B. Lloyd .....	704,322	July 8	1778	383	100	373
Push-button for locks, &c .....	694,341	Feb. 25	1313	915	98	1637	
Push-button switch .....	H. Laughlin, Jr., and D. Schuyler .....	690,946	Jan. 14	1088	345	98	243
Push-button switch. Snap .....	W. J. Newton .....	707,622	Aug. 26	3103	699	100	1806
Push-rake .....	H. Green .....	709,264	Sept. 16	2417	547	100	2500
Putting-out machine. ....	J. H. Bickford, W. N. Patten, and W. H. Downs. ....	711,034	Oct. 14	1209	265	101	266
Putty .....	H. J. Rosevelt .....	696,148	Mar. 25	3429	.....	98	2476
Putty-knife and pot-hanger. Combined .....	C. B. Mansbach .....	713,331	Nov. 11	1457	330	100	1212
Puttying-tool .....	E. T. Henneberry and M. M. Gleeson. ....	708,709	Sept. 9	1283	293	100	2322
Puzzle .....	G. W. Treichel .....	692,559	Feb. 4	605	142	98	921
Puzzle .....	A. G. Hanson .....	695,455	Mar. 18	2093	472	98	2187
Puzzle .....	J. B. Clewley .....	697,199	Apr. 8	1534	343	99	345
Puzzle .....	F. S. Frisbee .....	697,334	Apr. 22	1315	395	98	395
Puzzle .....	J. S. Webster .....	698,088	Apr. 22	3161	694	99	730
Puzzle .....	L. M. Balbian .....	698,892	Apr. 29	4780	1051	99	1081
Puzzle .....	W. B. Smith .....	700,573	May 20	2847	653	99	1793
Puzzle .....	J. Elliott .....	702,188	June 10	1639	367	99	2403
Puzzle .....	M. Cody .....	702,284	June 10	1792	409	99	2494
Puzzle .....	G. F. Barden .....	702,615	June 17	2434	555	99	2646
Puzzle .....	F. L. Napier .....	703,076	June 24	3317	762	99	2844
Puzzle .....	J. H. Bullard .....	703,847	Nov. 18	1336	291	100	1479
Puzzle .....	W. H. Emery .....	709,888	Sept. 30	3681	830	100	2796
Puzzle .....	P. Reichardt .....	711,439	Oct. 14	1962	432	101	439
Puzzle .....	G. O. Willey .....	714,421	Nov. 25	3809	842	101	1733
Puzzle .....	C. W. Fraim .....	716,697	Dec. 23	3996	874	101	2717
Puzzle device .....	W. E. Stubbs .....	694,038	Feb. 25	3498	770	98	1580
Puzzle device .....	P. F. De Ford .....	703,558	July 1	329	75	100	66
Puzzle. Educational .....	W. Hepburn .....	713,638	Nov. 18	2288	509	101	1397
Puzzle or game apparatus .....	E. Meyer .....	705,263	July 22	3706	804	100	798
Puzzle or toy .....	G. W. Sheridan .....	712,439	Oct. 28	3924	859	101	881
Puzzle. Wire .....	F. Herd .....	705,759	July 29	4723	1022	100	1014
Pyrographic tool .....	H. Wilcox .....	715,720	Dec. 9	2020	452	101	2267
Pyrometer .....	E. H. Earnshaw .....	711,484	Oct. 21	2090	453	101	464
Pyrotechnic compound .....	A. Delgrande .....	692,770	Feb. 4	374	.....	98	996
Pyrotechnic compound .....	A. Eichengrün .....	710,047	Sept. 30	3975	.....	100	2839
Pyrotechnic device .....	T. Ljovd .....	708,237	Sept. 2	447	102	100	2072
Pyroxylon article .....	J. H. Stevens and C. H. Thurber .....	713,168	Nov. 11	1340	302	101	1188
Pyroxylon articles. Making .....	J. H. Stevens and C. H. Thurber .....	713,169	Nov. 11	1342	302	101	1188
Pyroxylon compound .....	J. B. G. Bonnaud .....	697,790	Apr. 15	2621	.....	99	587
Pyroxylon compound .....	E. Zühl .....	700,884	May 27	3468	.....	99	1939
Pyroxylon compound .....	E. Zühl .....	700,885	May 27	3468	.....	99	1939
Pyroxylon compound .....	I. Kitsee .....	701,357	June 18	139	.....	99	2137
Quantity-indicating device .....	J. H. Bullard .....	693,847	Nov. 18	2968	595	101	1473
Quicksilver-furnace .....	R. Scott .....	699,822	May 13	1341	311	99	1465
Quicksilver-furnace .....	R. Scott .....	710,897	Oct. 7	940	206	101	911
Quicksilver-separating and continuous ore-furnace .....	C. Fitzgerald .....	696,323	Mar. 25	3782	843	98	2549
Quill substance. Machine for preparing .....	W. Webster .....	698,883	Apr. 29	4763	1047	99	1078
Quilting frame .....	B. F. Murray .....	695,413	Mar. 11	2018	453	98	2133
Quilting frame .....	D. H. Fox .....	695,452	Mar. 18	2087	471	98	2180
Quilting frame .....	T. Lewis .....	701,901	June 10	1100	252	99	2354
Quinin salicylic ether .....	F. Hoffmann. (Reissue) .....	11,960	Jan. 7	1030	.....	98	215
Quoin-lock .....	G. F. Peck .....	690,911	Jan. 7	1028	231	98	215
Quoit .....	C. A. Wright .....	692,963	Feb. 11	1379	299	98	1109
Quoit .....	C. T. Bradshaw .....	708,519	Sept. 9	946	214	100	2184
Rabble-carriage .....	D. C. Jackling .....	706,755	Aug. 12	1468	323	100	1433
Race starting-gate .....	J. P. Cornuault .....	707,762	Aug. 26	3424	771	100	1870
Race-starting machine .....	C. W. Crowley .....	705,043	July 22	3206	692	100	699
Race structure. Sack- .....	J. J. Wegner .....	706,467	Aug. 5	988	205	100	1805
Rack- .....							
See Car-rack. Hay and stock rack. ....							
Carpet-rack. Hose rack. ....							
Carpet-cleaning rack. Kitchen-rack. ....							
Carpet-rack. Lace-rack. ....							
Clothes-rack. Luggage-rack. ....							
Cuspidor-rack. Music-rack. ....							
Display-rack. Paper-display rack. ....							
Drying-rack. Postman's rack. ....							
Feeding-rack. Sample rack. ....							
Garment-rack. Stamp-rack. ....							
Gun-rack. Umbrella-rack. ....							
Hat and coat rack. Wagon-rack. ....							
Hay-rack. ....							
Rack-and-pinion mechanism .....	H. B. Azadian .....	714,771	Dec. 2	237	47	101	1885
Rack mechanism .....	H. John .....	715,079	Dec. 2	835	177	101	2006
Rack-teeth. Machine for cutting .....	W. L. Cheney .....	717,167	Dec. 30	5005	1087	101	2957
Racking apparatus .....	D. Beebe .....	704,292	July 8	1738	377	100	363
Racking apparatus. Carbonated-beverage .....	H. A. White .....	691,997	Jan. 28	3080	692	98	690
Racking apparatus for filling barrels .....	S. M. Rhoads .....	722,850	Nov. 4	729	168	101	1048
Racking apparatus. Liquid .....	R. H. Salmons .....	694,608	Mar. 4	636	139	98	1847
Racking device .....	S. M. Rhoads and A. H. Hamrick .....	715,346	Dec. 16	3292	719	101	2532
Racking-off apparatus. Beer- .....	H. Torchiani .....	716,662	Dec. 30	4612	990	101	2872
Racking-off beer. Apparatus for .....	H. Torchiani .....	708,942	Sept. 9	1742	403	100	2350
Racket .....	A. Becker .....	703,519	July 1	260	59	100	52

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Racket or battledore	H. Smith	717,041	Dec. 30	4761	1032	101	2905
Radiator	C. W. Rogers	702,483	June 17	2181	497	99	2594
Radiator	E. Moritz, L. N. Frymire, and S. Koons.	705,110	July 22	3351	726	100	727
Radiator	C. W. Rogers	705,614	July 29	4460	967	100	963
Radiator	A. Eichhorn	709,758	Sept. 23	3400	763	100	2725
Radiator	G. C. Hawkins	716,228	Dec. 16	3074	671	101	2510
Radiator	A. E. Laycock	716,906	Dec. 30	4499	976	101	2849
Radiator air-valve	F. W. Leuthesser	695,616	Mar. 18	2411	546	98	2232
Radiator air-valve	F. W. Leuthesser	715,097	Dec. 2	869	185	101	2015
Radiator attachment	G. W. Nistle	691,796	Jan. 28	2721	612	98	619
Radiator attachment	J. R. Wade	698,083	Apr. 22	3154	693	99	719
Radiator attachment	G. W. Chipley	706,159	Aug. 5	312	66	100	1180
Radiator, Electric	J. F. McElroy	717,442	Dec. 30	5515	(1197) (1198)	101	3064
Radiator for smoke-pipes. Heat-	J. P. Schneller	709,051	Sept. 16	1993	455	100	2419
Radiator or heating-stove. Hot-water	J. W. Ewart	696,096	Mar. 25	3302	743	98	2451
Radiator. Sheet-metal	J. D. Karnaghan	692,300	Feb. 4	144	34	98	828
Radiator. Sheet-metal	C. E. Safford	692,365	Feb. 4	261	63	98	853
Radiator. Steam	J. T. Hope	692,854	Feb. 11	1129	252	98	1055
Radiator valve-actuating mechanism	W. P. Clough	702,342	June 10	1990	434	99	2514
Radiator valve-actuating mechanism	C. A. Granton	695,046	Mar. 11	1369	301	98	2019
Radiator. Warm-air	J. Clements	706,161	Aug. 5	314	66, 67	100	1181
Rail	L. Beecher	695,138	Mar. 11	1548	343	98	2056
Rail	E. Schlegel	712,337	Oct. 28	3718	813	101	817
Rail	A. Morrison	714,010	Nov. 18	2994	666	101	1548
Rail	A. Morrison	714,011	Nov. 18	2995	666	101	1548
Rail and bracket connection	J. H. Lawrence	699,195	May 6	120	31	99	1200
Rail-block clamp	P. O'Keefe and J. H. Whellehen	698,314	Apr. 22	2693	795	99	811
Rail-bond	M. F. Whiton	692,395	Feb. 4	308	74	98	864
Rail-bond	B. C. Rowell	697,890	Apr. 15	2799	619	99	627
Rail-bond	J. M. Andersen	697,962	Apr. 22	2931	647	99	673
Rail-bond	F. H. Daniels and H. W. Wyman	698,179	Apr. 22	3363	736	99	761
Rail-bond	J. T. Deviese	698,180	Apr. 22	3365	736	99	761
Rail-bond	G. B. Blanchard	698,250	Apr. 22	3499	771	99	791
Rail-bond	F. B. Badt and G. M. Willis	699,060	Apr. 29	5053	(1117) (1118)	99	1139
Rail-bond	A. H. Englund	699,618	May 6	931	216	99	1367
Rail-bond	J. E. Jones	703,274	June 24	3676	846	99	2915
Rail-bond	M. F. Whiton	707,663	Aug. 26	3203	718	100	1827
Rail-bond	C. Sprague	710,532	Oct. 7	269	59	101	54
Rail-bond construction	E. G. Thomas	710,794	Oct. 7	768	164	101	157
Rail-bond. Electric	W. J. Long and J. B. Nolder	699,902	May 13	1515	348	99	1502
Rail-bonds. Manufacture of	F. H. Daniels and H. W. Wyman	700,346	May 20	2424	533	99	1700
Rail-bonding machine	F. H. Daniels and H. W. Wyman	709,878	Sept. 30	3630	821	100	2788
Rail-brace	L. N. Farnum	715,363	Dec. 9	1360	293	101	2134
Rail-brace	J. Jensen	695,610	Mar. 18	2402	544	98	2250
Rail brace and support	J. E. Graham	697,401	Apr. 8	1899	424	99	423
Rail chair and insulator	H. P. Wilson	701,442	June 3	283	63	99	2166
Rail chair and insulator	W. D. Young	697,930	Apr. 15	2869	633	99	640
Rail chair or support	W. D. Young	715,329	Dec. 9	1299	273	101	2122
Rail-clamp	E. M. Williams	699,048	Apr. 29	5032	1112	99	1134
Rail-clamp	A. M. White	700,108	May 13	1878	437	99	1576
Rail. Compound	W. C. Lee and M. F. Moore	703,430	July 1	115	26	100	25
Rail. Compound truss-	E. G. Stein	693,754	Feb. 18	2911	640	98	1444
Rail connection and crossing. Interlocking	E. T. Morlan	702,579	June 17	2362	533	99	2631
Rail cross-bond	G. B. Blanchard	694,982	Mar. 11	1249	273	98	1944
Rail. Electric third	P. E. McIntosh	698,251	Apr. 22	3500	799	99	791
Rail ends. Alining, securing, and bonding of	P. E. McIntosh	702,986	June 24	3147	724	99	2811
Rail expansion joint-coupling. Track-	F. Della Torre and D. B. Banks	700,994	May 27	3666	840	99	1977
Rail-fastener	J. W. McBurney	712,320	Oct. 28	3686	805	101	809
Rail-fastener	J. M. Spaulding	694,687	Mar. 4	675	147	98	1855
Rail-fastener	E. W. Hogan	694,750	Mar. 4	793	176	98	1879
Rail-fastener	W. McWillie	695,112	Mar. 11	1480	330	98	2041
Rail-fastener	J. M. Spaulding	704,221	July 8	1599	347	100	335
Rail-fastener. Metallic-tie	C. M. Reed	707,257	Aug. 19	2394	537	100	1642
Rail-fastening	C. S. Shallenberger	710,371	Sept. 30	4580	1033	100	2986
Rail frog. Continuous-	W. E. Patrick	706,999	Aug. 12	1905	427	100	1522
Rail. Guard-	H. R. Collins	692,829	Feb. 11	1249	244	98	1947
Rail-joint	T. McGinty	697,532	Apr. 15	2130	477	99	496
Rail-joint	J. I. Hickman and A. Borrow	690,428	Jan. 7	80	17	98	20
Rail-joint	B. Wolhaupter	691,037	Jan. 14	1270	(287) (288)	98	280
Rail-joint	H. Tiedemann	691,207	Jan. 14	1561	355	98	340
Rail-joint	S. Blair	691,525	Jan. 21	2191	491	98	492
Rail-joint	W. J. Ward	691,680	Jan. 21	2477	535	98	551
Rail-joint	W. H. F. Raifsnnyder	692,244	Feb. 4	224	54	98	1881
Rail-joint	H. T. Densmore	693,788	Feb. 18	2966	655	98	1455
Rail-joint	W. H. Shipe and J. P. Gleeson	693,808	Feb. 18	3006	665	98	1464
Rail-joint	A. Barr	693,812	Feb. 18	3012	666	98	1465
Rail-joint	B. F. Stephens	693,919	Feb. 25	3242	714	98	1528
Rail-joint	O. S. Weddell	694,122	Feb. 25	3635	803	98	1608
Rail-joint	J. L. Campbell	694,134	Feb. 25	3638	807	98	1612
Rail-joint	J. W. Kennedy	694,754	Mar. 4	806	177	98	1881
Rail-joint	B. Barnett	694,988	Mar. 11	1158	253	98	1976
Rail-joint	J. Diehl	694,949	Mar. 11	1177	258	98	1979
Rail-joint	J. H. Roberts	694,993	Mar. 11	1261	276	98	1997
Rail-joint	M. W. Mayer	695,221	Mar. 11	1699	377	98	2087
Rail-joint	O. M. Stewart	695,768	Mar. 18	2659	604	98	2302
Rail-joint	A. Elsenrath	696,729	Apr. 1	332	142	99	137
Rail-joint	B. H. Tripp	697,569	Apr. 15	2207	491	99	301
Rail-joint	P. Baran	697,775	Apr. 15	2593	575	99	380
Rail-joint	S. W. Leslie	697,858	Apr. 15	2741	608	99	615



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				Spec.	Drig.	Vol.	Page.
Rail-joint	C. E. Wellen	698,606	Apr. 29	4155	914	99	941
Rail-joint	E. Zamborsky	698,615	Apr. 29	4173	917	99	945
Rail-joint	J. Thrallkill	699,903	May 13	1516	348	99	1502
Rail-joint	C. B. Mead	699,966	May 13	1634	375	99	1525
Rail-joint	E. O. Davis	701,160	May 27	3972	913	99	2047
Rail-joint	E. P. and H. C. Hunter	702,215	June 10	1684	379	99	2472
Rail-joint	W. A. Paine	702,408	June 17	3751	494	99	2538
Rail-joint	C. D. Jones	702,502	June 17	2316	528	99	2622
Rail-joint	M. Wixcel	708,876	July 1	926	202	100	186
Rail-joint	T. Huberdeau	704,190	July 8	1551	334	100	325
Rail-joint	G. L. Hall	705,345	July 22	3895	843	100	837
Rail-joint	C. R. Edwards	705,560	July 29	4369	946	100	946
Rail-joint	W. Floss	705,575	July 29	4384	950	100	948
Rail-joint	J. W. Dixon and J. D. Devine	705,827	July 29	4836	1043	100	993
Rail-joint	V. L. Truxall	708,885	July 29	4845	1075	100	1060
Rail-joint	K. Kohn	706,241	Aug. 5	460	98	100	1210
Rail-joint	H. O. Baldwin	706,374	Aug. 5	738	161	100	1236
Rail-joint	C. C. Osenbaugh and R. L. Gibson	706,445	Aug. 5	907	196	100	1239
Rail-joint	D. H. Noble	707,447	Aug. 19	2752	623	100	1717
Rail-joint	O. S. Weddell	707,471	Aug. 19	2789	632	100	1725
Rail-joint	W. E. Randle	707,720	Aug. 26	3905	740	100	1848
Rail-joint	G. Gordon	707,966	Aug. 26	3823	860	100	1949
Rail-joint	M. Barschall	708,009	Sept. 2	17	4	100	1984
Rail-joint	J. E. Hammond	708,351	Sept. 2	646	146	100	2112
Rail-joint	W. Colloton	708,531	Sept. 9	960	217	100	2188
Rail-joint	L. Roth	709,045	Sept. 16	1381	432	100	2412
Rail-joint	J. J. McDermott	709,441	Sept. 23	2860	642	100	2614
Rail-joint	H. Minck and H. L. Droste	710,290	Sept. 30	4439	1001	100	2938
Rail-joint	N. P. Anderson	711,456	Oct. 21	2040	442	101	453
Rail-joint	R. Weir, Jr.	711,604	Oct. 21	2325	508	101	513
Rail-joint	N. P. Park	711,644	Oct. 21	2392	526	101	527
Rail-joint	J. Haslsteiner	711,764	Oct. 21	2638	580	101	580
Rail-joint	A. Howard	711,962	Oct. 21	2825	625	101	621
Rail-joint	J. Volzar	712,160	Oct. 28	3415	748	101	754
Rail-joint	D. O. Brunner	712,255	Oct. 28	3575	782	101	787
Rail-joint	O. Niehaus	713,334	Nov. 11	1697	383	101	1261
Rail-joint	J. A. Bridge	713,391	Nov. 11	1807	406	101	1285
Rail-joint	J. W. Nowack	713,913	Nov. 18	2808	623	101	1508
Rail-joint	L. T. Stephenson	714,056	Nov. 18	3095	684	101	1569
Rail-joint	L. F. Schodde	714,462	Nov. 25	3779	834	101	1727
Rail-joint	W. H. Fritz	714,888	Dec. 2	502	104	101	1936
Rail-joint	K. Kohn	714,919	Dec. 2	566	120	101	1949
Rail-joint	J. Wolfe	714,986	Dec. 2	683	142	101	1972
Rail-joint	P. F. Berkey	715,002	Dec. 2	704	148	101	1977
Rail-joint	C. O. H. Miller	715,110	Dec. 2	887	189	101	2018
Rail-joint	J. Price	715,143	Dec. 2	947	204	101	2030
Rail-joint	F. Burger and H. M. Williams	715,341	Dec. 9	1135	243	101	2085
Rail-joint	G. Hirschel	715,592	Dec. 9	1721	392	101	2215
Rail-joint	R. E. Van Naular	715,628	Dec. 9	1846	410	101	2230
Rail-joint	M. E. Streepy	716,307	Dec. 16	3211	702	101	2237
Rail-joint	S. O. Dougherty	716,831	Dec. 23	4352	944	101	2803
Rail-joint	H. B. Nichols	717,025	Dec. 30	4734	1026	101	2899
Rail-joint and chair	F. Bain	718,385	Nov. 18	2646	590	101	1474
Rail-joint and fastening	T. F. Davies	717,357	Dec. 30	5361	1165	101	2624
Rail-joint and fish-plate	J. M. Bebout	718,066	Feb. 25	3575	790	98	1306
Rail-joint and tie-plate	T. Cosgrove	701,849	June 10	1011	225	99	2336
Rail-joint bed-plate	J. H. Whitney	699,905	May 13	1519	349	99	1503
Rail-joint clamp	W. S. Jones	690,966	Jan. 14	1131	256	98	252
Rail-joint connection	J. T. Blake	690,918	Jan. 14	1041	234	98	234
Rail-joint connection	O. Nordin	699,324	May 6	164	40	99	1208
Rail-joint, Detachable-key	A. Kreps	692,132	Jan. 28	3360	761	98	747
Rail-joint fastener	J. C. Wentzel	704,469	Aug. 5	943	205	100	1306
Rail-joint nut-lock	E. B. Murray	716,073	Dec. 16	2771	612	101	2417
Rail-joint tie, Keyway	F. P. Saleme	715,698	Dec. 9	1979	443	101	2258
Rail Mine-car	J. A. Craig	707,999	Aug. 26	3894	875	100	1964
Rail or similar conductors	E. Chamberlin and W. T. Thompson	701,705	June 3	916	204	99	2290
ing ice and snow from third-							
Rail-support	G. E. Oatman	697,101	Apr. 8	1366	303	99	310
Rail-support	C. Neuberger	705,955	July 29	5069	1104	100	1085
Rail-support	W. E. Jaques	710,152	Sept. 30	4197	945	100	2005
Rail-support	W. E. Jaques	710,153	Sept. 30	4198	945	100	2005
Rail-support	W. E. Jaques	710,154	Sept. 30	4200	946	100	2005
Rail systems, Guard for third	S. Elliott	708,563	July 1	338	76	100	68
Rail-testing apparatus	F. Stahl	711,793	Oct. 21	2690	582	101	591
Rail tie and fastener	J. S. McAuley	690,751	Jan. 7	750	167	98	158
Rail, Tramway	F. E. Musgrave	708,901	Sept. 9	1683	388	100	2339
Rails, bars, &c. Mechanism for straightening	C. E. White	702,840	June 17	2846	655	99	2733
Rails, Device for electrically connecting	G. Deharde	697,817	Apr. 15	2068	502	99	598
Rails, Device for preventing the creeping of	H. Dorpmüller	716,207	Dec. 16	3087	662	101	2503
Rails of tramway or railway lines. Method of and means for the fixation of track	W. J. Foot	714,167	Nov. 25	3341	735	101	1640
Rails onto their bases, &c. Appliance for fixing the upper or wearing portions of compound tramway	W. L. Le Maitre, F. G. W. Parker, and E. Rhodes	717,224	Dec. 30	5140	1114	101	2987
Railway	A. Webb	697,904	Apr. 15	2815	622	99	630
Railway and car and magnetic appliance therefor	A. C. Albertson	714,851	Dec. 2	419	88, 89	101	1913
Railway appliance, Automatic	S. W. Huff	693,396	Feb. 18	2331	490	98	1305
Railway automatic couplings	T. Welch	697,048	Apr. 8	1270	282	99	289
Railway-bed	M. Haas	708,347	Sept. 2	640	145	100	2111

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Railway bed or tie	P. J. Moran	695,823	Mar. 18	2771	632	98	2325
Railway block-signaling system	W. M. Chapman and W. Pestell	700,302	May 20	2330	530	99	1657
Railway block-signaling system	W. M. Chapman	711,037	Oct. 14	1218	267	101	268
Railway block system	B. C. Rowell	695,648	Mar. 18	2469	560	98	2264
Railway block system	J. S. Matson	699,542	May 6	771	182	99	1334
Railway-brake beam	T. H. Simpson	715,518	Dec. 9	1642	356	101	2189
Railway bumping-post	P. Scanlin	704,275	July 8	1099	370	100	357
Railway-cabs. Electric signal for	J. W. Frost	705,662	July 29	4542	987	100	980
Railway-carriage coupling. Automatic	G. Lacazay	693,658	Feb. 18	2738	604	98	1408
Railway-carriage couplings. Engaging or disengaging device for automatic	C. Banovits	695,595	Mar. 18	2369	537	98	2345
Railway-carriages. Automatic coupling for	J. Willison	713,729	Nov. 18	2455	547	101	1435
Railway-carriages, &c. Coupling for	J. Willison	708,110	Sept. 2	197	47	100	2022
Railway-carriages. Safety-outlet in longitudinal walls of	D. Erdelbrock	709,573	Sept. 23	3064	682	100	2657
Railway cattle-guard	V. S. Klick	694,972	Mar. 11	1230	268	98	1990
Railway cattle-guard	M. M. Warren and M. M. Altare	696,153	Mar. 25	3434	770	98	2477
Railway-chair	S. P. Rush	713,805	Nov. 18	2559	578	101	1403
Railway chair and rail	H. A. Forbes	695,237	Mar. 11	1840	410	98	2115
Railway clearing-house	A. W. Swantz	701,962	June 10	1212	276	99	2377
Railway-coach chair. Convertible	H. C. Orr and G. Mathews	692,332	Feb. 4	201	48	98	841
Railway-coach chair. Reversible	H. C. Orr and G. Mathews	692,333	Feb. 4	203	48.49	98	841
Railway coaches or sleepers. Dust and cinder guard for	J. S. McKenzie	697,526	Apr. 15	2135	475	99	487
Railway collisions. Electric signaling device for preventing	G. del Monaco	692,583	Feb. 4	565	133	98	913
Railway. Combined overhead and underground electric	D. S. Bergin	707,075	Aug. 19	2058	460	100	1571
Railway. Combined underground and overhead electric	D. S. Bergin	692,974	Feb. 11	1403	304	98	1113
Railway construction	W. M. Hickok	694,276	Feb. 25	3024	872	98	1665
Railway construction	G. L. de Lenchères	702,141	June 10	1545	349	99	2444
Railway construction	L. C. Kendall	713,311	Nov. 11	1660	373	101	1233
Railway construction. Electric	F. P. Derr	693,244	Feb. 11	1953	421	98	1226
Railway contact apparatus. Electric	A. Markle	698,124	Apr. 22	3264	714	99	741
Railway contact-box. Electric	W. M. Brown	717,070	Dec. 30	4821	1045	101	2918
Railway contact-shoe. Electric	W. M. Brown	713,742	Nov. 18	2476	552	101	1439
Railway contact system. Electric	T. B. Patch	704,082	July 8	1341	292	100	280
Railway contact system. Electric	T. B. Patch	704,093	July 8	1344	293	100	281
Railway-coupling	A. Wuthe	697,124	Apr. 8	1395	310	99	316
Railway-coupling	W. T. Van Dorn	711,549	Oct. 21	2222	483	101	492
Railway coupling apparatus	W. R. S. Jones	702,563	June 17	2317	528	99	2622
Railway cradle. Marine	J. L. Crandall	690,402	Jan. 7	30	7	98	9
Railway cross-tie and chair. Combined	S. Love	709,787	Sept. 23	3456	778	100	2738
Railway-crossing	J. H. Higgins	695,457	Mar. 18	2098	473	98	2188
Railway-crossing	W. R. Macklind	696,376	Mar. 25	3899	865	98	2569
Railway-crossing	B. M. Rawlings	697,540	Apr. 15	2163	480	99	491
Railway-crossing	W. M. Cooper	698,175	Apr. 22	3358	735	99	760
Railway-crossing	C. Lilleberg	698,206	Apr. 22	3424	754	99	775
Railway-crossing	C. F. Pannell	698,410	Apr. 22	3765	830	99	846
Railway-crossing	E. J. O'Neill	712,404	Oct. 28	3843	841	101	846
Railway-crossing and switch for same	C. Leiendecker	707,604	Aug. 26	3065	690	100	1798
Railway-crossing gate	E. C. Radick	712,849	Nov. 4	726	168	101	1047
Railway-crossings. Means for preventing accidents at	C. E. Brown	713,741	Nov. 18	2474	551	101	1439
Railway danger-signal	W. Washa	710,383	Sept. 30	4602	1038	100	2991
Railway danger-signal	J. Frysinger	713,089	Nov. 11	1183	271	101	1156
Railway danger-signal device	F. G. Chamberlin	709,469	Sept. 23	2849	640	100	2612
Railway-detonator	F. Lemaire	703,283	June 24	3689	849	99	2918
Railway devices. Motor for	H. D. Miles	692,690	Feb. 4	842	191	98	972
Railway. Electric	E. M. Ashley	690,380	Jan. 7	4	1	98	972
Railway. Electric	F. M. Ashley	690,387	Jan. 7	6	2	98	4
Railway. Electric	G. Davis	690,406	Jan. 7	36	9	98	10
Railway. Electric	G. T. Woods	695,988	Mar. 25	3072	696	98	2401
Railway. Electric	E. W. Farnham	696,023	Mar. 25	3148	710	98	2416
Railway. Electric	E. W. Farnham	696,024	Mar. 25	3151	711	98	2417
Railway. Electric	W. B. Potter	697,013	Apr. 8	1212	271	99	276
Railway. Electric	A. A. Stolle	699,590	May 6	878	204	99	1356
Railway. Electric	C. J. Kintner	700,127	May 13	1915	444	99	1580
Railway. Electric	C. J. Kintner	700,128	May 13	1918	444	99	1580
Railway. Electric	C. J. Kintner	700,129	May 13	1929	445	99	1582
Railway. Electric	C. J. Kintner	700,130	May 13	1937	446	99	1583
Railway. Electric	J. C. Henry	702,427	June 17	2071	472	99	2571
Railway. Electric	F. W. Hild and S. B. Stewart, Jr	705,083	July 22	3283	712	100	714
Railway. Electric	W. Behrens and J. P. Thion	705,373	July 22	3942	854	100	846
Railway. Electric	C. J. Kintner	705,848	July 29	4872	1059	100	1046
Railway. Electric	W. B. Potter	706,106	Aug. 5	192	40	100	1156
Railway. Electric	C. R. Campbell	706,156	Aug. 5	307	65	100	1179



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Railway. Electric.	T. E. Murray and J. Van Vleck	708,656	Sept. 9	1177	268	100	2231
Railway. Electric.	T. E. Murray and J. Van Vleck	708,969	Sept. 9	1806	269	100	2363
Railway. Electric.	F. M. Ashley	713,274	Nov. 11	1578	416	101	1285
Railway. Electric.	E. P. Wetmore	713,822	Nov. 18	2622	417	101	1469
Railway. Electric.	W. B. Potter	716,101	Dec. 16	2817	585	101	2457
Railway. Electric.	E. A. Sperry	716,125	Dec. 16	2860	620	101	2466
Railway. Electric.	E. W. Farnham	716,995	Dec. 30	4681	630	101	2887
Railway electric-motor-cooling system.	C. O. Mailloux and W. C. Gotshall	714,497	Nov. 25	3937	631	101	1757
Railway electric-motor-cooling system.	C. O. Mailloux and W. C. Gotshall	714,498	Nov. 25	3944	871	101	1758
Railway electric signal and safety apparatus.	W. H. Sauvage	698,143	Apr. 22	3297	873	99	746
Railway electric signaling apparatus.	W. Hume	693,320	Feb. 18	2471	874	98	1354
Railway electric system.	D. S. Bergin	692,617	Feb. 11	1068	875	98	1042
Railway. Elevated	J. N. Valley	691,086	Jan. 14	1349	876	98	296
Railway, elevated track, bridge, &c. Overhead	G. Barker	712,896	Nov. 4	815	189	101	1064
Railway fish-plate and noise-reducing device.	H. G. Farr	717,088	Dec. 30	4850	190	101	2924
Railway fog signaling apparatus.	J. H. Pleasance	717,020	Dec. 30	4725	1050	101	2897
Railway-frog	F. J. Huson	712,892	Nov. 11	2110	145	101	1028
Railway-frog heel-riser	G. V. Whelan	715,750	Dec. 16	2092	146	101	2902
Railway-gate	G. S. and W. D. Sumlin	691,823	Jan. 28	2775	624	98	629
Railway-gate	W. W. and J. W. Allen	694,815	Mar. 4	913	204	98	1905
Railway-gate	J. Bowman	706,516	Aug. 12	1021	225	100	1337
Railway-gate	C. M. Ross, T. Hall, and E. W. Johnson	712,723	Nov. 4	476	112	101	997
Railway-gate. Automatic	N. Risner and E. G. Burkhardt	698,556	Apr. 29	4032	881	99	917
Railway-gates. Electrical operating apparatus for.	H. C. Lavery	693,975	Feb. 25	3350	737	98	1550
Railway goods-vans. Sliding door for	A. Fischer	703,908	July 1	986	215	100	197
Railway heater system	S. H. Harrington	704,797	July 15	2667	577	100	570
Railway-indicator	L. F. Graham	709,057	June 24	3276	755	99	2636
Railway-joint	G. A. Case	694,635	Jan. 4	905	133	98	1843
Railway-joint	S. H. Dehl	704,817	Nov. 15	2713	587	100	581
Railway-joint	T. L. Watts	707,468	Aug. 19	2786	631	100	1724
Railway. Logging.	W. H. Boyd	715,963	Dec. 16	2335	560	101	2897
Railway. Marine	J. L. Crandall	694,911	Mar. 4	1103	243	98	1945
Railway. Marine	C. M. Davis	696,723	Apr. 1	624	140	99	135
Railway or other spike	H. J. Stone	713,527	Nov. 11	2076	464	101	1339
Railway or tramway. Electric	G. F. Cornwallis-West	717,232	Oct. 14	1738	375	101	876
Railway or tramway vehicle	D. D. Coath	701,469	Nov. 3	342	75	100	249
Railway. Overhead-trolley electric	B. D. Gilson	693,351	Feb. 11	2141	470	98	1266
Railway passenger-coaches. Dust and cinder guard for all kinds of	J. S. McKenzie	697,527	Apr. 15	2136	475	99	487
Railway permanent way	E. Rutkowski	710,617	Oct. 7	430	90	101	86
Railway. Pleasure.	N. Lachase	699,960	May 13	1625	373	99	1524
Railway. Pleasure.	G. F. Myers	712,570	Nov. 4	212	50	101	941
Railway. Pleasure.	G. F. Myers	712,707	Nov. 4	444	104	101	989
Railway. Pleasure.	G. F. Myers	712,708	Nov. 4	446	105	101	990
Railway points or switches. Safety device for	S. Rogozea	702,593	June 17	2360	546	99	2637
Railway-rail	E. E. Myers	696,583	Apr. 1	339	81	99	75
Railway-rail	C. E. Hooven and J. W. See	699,173	May 6	82	21	99	1192
Railway-rail	W. Leonard	715,096	Dec. 2	868	185	101	2014
Railway-rail bearing. Parallel	M. I. Gilbert	697,081	Apr. 8	1340	207	99	304
Railway-rail-bed	J. Freund	715,049	Dec. 2	775	165	101	1993
Railway-rail-bond. Electric	E. P. Frederick	703,773	July 1	741	164	100	149
Railway-rail joint	E. R. Avery	717,332	Dec. 30	3293	113	101	329
Railway-rail bridge-rod	W. E. Copeland and M. M. Massey	713,404	Nov. 11	1824	411	101	1288
Railway-rail. Compound	J. N. Crabb	712,121	Oct. 28	3347	733	101	741
Railway-rail. Hardened	W. E. Coyan	694,838	Mar. 4	955	212	98	1915
Railway-rail-joining device	E. G. Baker	715,339	Dec. 9	1321	283	101	2126
Railway-rail joint	F. Bain	690,823	Jan. 7	878	194	98	186
Railway-rail joint	C. E. Bentley	691,347	Jan. 21	1872	432	98	424
Railway-rail joint	A. A. Brom	696,494	Apr. 19	1104	31	99	134
Railway-rail joint	Lynd	699,124	Apr. 29	5162	1142	99	1160
Railway-rail joint	F. C. Anderson	700,714	May 20	3125	710	99	1853
Railway-rail joint	W. J. Austin	703,979	July 8	1129	244	100	239
Railway-rail joint	G. A. Weber	705,170	July 22	3471	755	100	752
Railway-rail joint	J. C. Fair	705,568	July 29	4371	947	100	946
Railway-rail joint	C. Rhoades	705,963	July 29	5091	1108	100	1088
Railway-rail joint	E. R. Avery	707,494	Aug. 19	2893	640	100	1734
Railway-rail joint	W. C. Wessel and H. W. Jacob	708,605	Sept. 9	1099	245	100	2213
Railway-rail joint	L. T. Weaver	711,687	Oct. 21	2487	546	101	549
Railway-rail joint	Z. E. Fiveash	713,083	Nov. 11	1169	268	101	1153
Railway-rail stay	E. Laas and H. H. Spoenburg	703,602	July 1	399	94	100	70
Railway-rails, frog and switch rails, &c. Cushion for	A. B. Gombar	695,429	Mar. 11	2043	458	98	2158
Railway-rails. Means for electrically connecting	W. E. Pimlott	697,534	Apr. 15	2149	478	99	489
Railway-rails. Reconstructing	V. T. Lynch	700,063	May 18	1800	417	99	1538
Railway replacing-frog	A. Pursley	702,744	May 17	2698	614	99	2694
Railway rolling-stock coupling or uncoupling apparatus.	J. Jenkins	698,957	Apr. 29	4882	1077	99	1103

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Railway safety-block system	G. W. Cohen	697,984	Apr. 15	2876	694	99	642
Railway safety-guard	W. Morsehead	714,507	Nov. 25	3959	877	101	1761
Railway sand-distributor	W. H. Bell	710,134	Sept. 30	4159	997	100	2898
Railway-sander	J. Quin	704,210	July 8	1582	342	100	332
Railway. Scenic	C. H. Pfuntner and C. B. Cole	712,587	Nov. 4	241	59	101	948
Railway. Sectional-conductor electric	K. Hora	693,394	Feb. 18	2229	489	98	1304
Railway- semaphore, &c	W. D. Farren	704,015	July 8	1190	258	100	252
Railway-signal	E. W. McDowell	698,883	Feb. 25	3168	700	98	1514
Railway-signal	J. H. Clark	695,794	Mar. 18	2721	621	98	2315
Railway-signal	E. McMahon	695,827	Mar. 18	2778	634	98	2326
Railway-signal	W. C. Van Derlip, Sr	704,720	July 15	2505	541	100	540
Railway-signal	W. S. Bennett	705,313	July 22	3799	833	100	818
Railway-signal	J. D. Price	709,040	Sept. 16	1971	451	100	2414
Railway-signal	J. D. Price	709,243	Sept. 16	2376	539	100	2500
Railway-signal	G. L. Wilson	712,430	Oct. 28	3906	855	101	858
Railway-signal	R. A. Baldwin	712,754	Nov. 4	528	123	101	1006
Railway-signal	J. A. Guinn	714,173	Nov. 25	3350	737	101	1641
Railway-signal	W. H. Walton	715,183	Dec. 2	1022	321	101	2045
Railway signal and alarm	A. E. Caughey	717,075	Dec. 30	4831	1047	101	2920
Railway signal apparatus	S. F. Clouser	693,376	Feb. 18	2196	482	98	1298
Railway signal apparatus	L. Gachet	698,269	Apr. 22	3534	778	99	798
Railway-signal. Automatic	W. L. Harper	704,877	July 15	2812	609	100	602
Railway-signal. Automatic	A. Emerson and A. S. Hovander	707,405	Aug. 19	2680	605	100	1701
Railway-signal. Electric	W. D. Vandecar	700,461	May 20	2642	606	99	1759
Railway-signal. Electric	F. C. Müller	703,145	June 24	3447	790	99	2870
Railway-signal. Electric	C. D. Seaman	709,052	Sept. 16	1994	455	100	2419
Railway-signal. Electric	C. V. Richey	712,333	Oct. 28	3712	811	101	816
Railway-signal. Electric	S. W. Huff	717,406	Dec. 30	5453	1184	101	3051
Railway-signal. Locomotive-cab electric	E. B. Cutten and A. C. Fraser	716,871	Dec. 30	4429	963	101	2836
Railway-signal-operating apparatus	J. A. Snow	703,218	June 24	3587	824	99	2898
Railway-signal. Pneumatic	C. S. Dean	709,258	Sept. 16	2405	545	100	2507
Railway-signal system. Electric	S. B. Stewart, Jr	695,122	Mar. 11	1513	336	98	2047
Railway-signal system. Electric	E. P. Jessop	712,138	Oct. 28	3378	741	101	747
Railway-signal system. Electric	E. P. Jessop	712,457	Oct. 28	3952	864	101	867
Railway signaling and communicating apparatus	H. Gulliver	696,811	Apr. 1	786	180	99	167
Railway signaling and switching apparatus	J. D. Taylor. (Reissue)	11,983	May 6	969	224	99	1375
Railway signaling apparatus	J. D. Taylor	707,183	Aug. 19	2366	507	100	1616
Railway signaling apparatus	E. Rowe	709,798	Sept. 23	3481	785	100	2743
Railway signaling apparatus	M. D. Moore	714,595	Nov. 25	4120	911	101	1797
Railway signaling apparatus. Selector for	J. D. Taylor	707,180	Aug. 19	2260	505	100	1614
Railway signaling device	G. G. Ritchie	694,893	Mar. 4	1068	236	98	1938
Railway signaling device	H. Pratt	708,399	Sept. 2	719	161	100	2127
Railway signaling. Electric	O. W. Hart	695,456	Mar. 18	2094	472	98	2188
Railway signaling. Electrical system of recording and checking as applied to	W. H. M. Weaver	710,348	Sept. 30	4539	1024	100	2979
Railway signaling system	A. W. Knee	704,347	July 8	1833	398	100	886
Railway signaling system	H. Bezer	716,178	Dec. 16	2955	649	101	2484
Railway signaling system	H. Bezer	716,179	Dec. 16	2964	649	101	2487
Railway signaling system	W. Locke	716,562	Dec. 23	3744	816	101	2664
Railway signaling system. Electric	W. W. Salmon	692,916	Feb. 11	1275	281	98	1088
Railway. Single-track	H. H. Tunis	690,539	Jan. 7	330	66, 67	98	71
Railway-sleeper made of metal and wood	N. Devaux and H. Richard	695,671	Mar. 18	2500	567	98	2270
Railway-sleepers, &c. Wood peg or fastener for wooden	F. Stahl	698,070	Apr. 22	3132	690	99	714
Railway-spike	D. F. Vaughan	691,087	Jan. 14	1350	305	98	296
Railway-spike	W. C. Miner	698,843	Apr. 29	4692	1034	99	1064
Railway-spike. Safety	J. D. Betts and C. J. Whitaker	712,245	Oct. 28	3559	779	101	784
Railway stand-pipe	J. W. Thomas, Jr	709,376	Sept. 16	2653	585	100	2560
Railway stock-guard	G. A. Williams and J. O. McCall	705,729	July 29	4670	1011	100	1004
Railway structures. Device for reducing the noise in elevated	H. G. Farr	694,359	Mar. 4	32	7	98	1719
Railway surface contact. Electric	E. M. Hewlett	705,082	July 22	3281	711	100	713
Railway. Suspension	A. H. Mayhew	709,343	Sept. 16	2568	578	100	2542
Railway-switch	E. B. Green	690,421	Jan. 7	62	14	98	16
Railway-switch	G. E. Haynes	691,720	Jan. 21	2542	570	98	564
Railway-switch	C. A. Egger	692,125	Jan. 28	3312	751	98	737
Railway-switch	F. L. Darwin	692,247	Feb. 4	54	12	98	810
Railway-switch	M. S. Farmer	693,384	Feb. 18	2208	485	98	1300
Railway-switch	D. J. Griffiths, H. W. Hitzrot, and C. W. Mower	694,058	Feb. 25	3533	778	98	1587
Railway-switch	H. K. J. Manger	694,563	Mar. 4	441	95, 96	98	1806
Railway-switch	G. G. Guenther	694,743	Mar. 4	780	173	98	1877
Railway-switch	W. W. Hoffman and F. W. Powers	698,952	Apr. 29	4872	1075	99	1101



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Railway-switch	E. E. Carneal	700,615	May 20	2917	672	99	1807
Railway-switch	L. Palmer	702,113	June 10	1501	338	99	2434
Railway-switch	W. C. Wood	702,522	June 17	2351	512	99	3360
Railway-switch	S. A. Douglas and M. Alcorn	702,545	July 17	2286	520	99	2616
Railway-switch	S. A. Duvall	703,772	June 1	729	161	100	146
Railway-switch	W. Wharton, Jr.	704,414	July 8	1950	422	100	410
Railway-switch	A. G. Turcotte	705,164	July 22	3456	733	100	749
Railway-switch	C. Johnston	706,950	Aug. 12	1822	408	100	1505
Railway-switch	A. A. Strom	711,363	Oct. 14	1863	406	101	403
Railway-switch	A. C. Cambridge	714,142	Nov. 25	3255	718	101	1622
Railway-switch	S. Fienbaugh	717,375	Dec. 30	5380	1172	101	3040
Railway-switch	D. S. Hoover and F. H. Workman	717,403	Dec. 30	5447	1182	101	3051
Railway-switch and mechanism for operating it	D. T. Granbery	692,271	Feb. 4	104	25	98	820
Railway switch and signal apparatus. Pneumatic	F. L. Dodgson and M. Corrington	702,931	June 24	3024	695	99	2785
Railway-switch. Automatic	C. Schwarz and W. H. Drittler	691,010	Jan. 14	1218	303	98	269
Railway-switch. Automatic	G. E. Janes	709,015	Sept. 16	1920	441	100	2404
Railway-switch. Automatic	A. G. Lawrence	716,443	Dec. 23	3491	768	101	2611
Railway-switch danger-signal. Automatic	C. H. Remington	707,010	Aug. 12	1925	431	100	1526
Railway-switch detector-bar	L. Carrier	703,537	July 1	289	66	100	58
Railway-switch. Electric	J. A. Joyce	709,156	Sept. 16	2192	502	100	2403
Railway-switch. Electrically-controlled	R. V. Cheatham	696,313	Mar. 25	3763	840	98	2545
Railway-switch. Electrically-operated	J. Loney	709,676	Sept. 23	3236	723	100	2698
Railway-switch-operating device	J. C. Booth	709,865	Sept. 30	3608	815	100	2783
Railway-switch-operating mechanism	E. Crapper, Jr.	708,900	Sept. 9	1469	335	100	2294
Railway-switch-operating mechanism. Automatic	L. Pierce	709,111	Sept. 16	2116	485	100	2447
Railway-switch-operating mechanism. Street	W. H. Kirkley	710,470	Oct. 7	327	30	100	37
Railway-switch protector	J. C. Dicks	716,686	Dec. 23	3974	870	101	2712
Railway-switch-safety-device clip	C. A. Dunham	713,619	Nov. 18	2256	502	101	1391
Railway-switch-shifting mechanism	E. W. Keyes	712,074	Oct. 28	3261	715	101	724
Railway switch. Street	W. J. Bell	693,944	Feb. 25	3389	724	98	1538
Railway switch. Street	W. J. Bell	703,037	June 24	3237	744	99	2828
Railway switch. Street	G. Shoemaker	703,311	June 24	3726	820	99	2926
Railway switch. Street	W. R. Dunham, Jr.	712,779	Nov. 4	591	134	101	1020
Railway switch. Street	S. S. Roberts and A. H. Mann	714,240	Nov. 25	3479	765	101	1667
Railway-switch. Three-way	W. F. Bossert	690,922	Jan. 14	1047	236	98	235
Railway switches and signals. Electrical apparatus for operating	T. Ducousso	704,177	July 8	1527	328	100	321
Railway switches. Device for operating street-	W. E. Schilling and O. M. Ridgway	691,008	Jan. 14	1214	303	98	268
Railway-switches. Electrical operation and control of	T. Ducousso and F. Rodary	694,847	Mar. 4	977	217	98	1020
Railway-switches. Mechanism for automatically operating	C. J. Kintner	691,781	Jan. 28	2694	605	98	614
Railway-switches. Operating	A. Youngblood	697,591	Apr. 15	2246	501	99	509
Railway switching and signal interlocking apparatus.	J. D. Taylor	707,181	Aug. 19	2262	506	100	1614
Railway system	J. D. Reed	699,239	May 6	193	45, 46	99	1213
Railway system. Electric	H. P. Wellman	690,499	Jan. 7	251	61	98	55
Railway system. Electric	W. B. Potter	691,810	Jan. 28	2749	621	98	624
Railway system. Electric	B. E. Osborn	692,808	Feb. 11	1239	271	98	1079
Railway system. Electric	J. Ryan	694,425	Mar. 4	170	38	98	1749
Railway system. Electric	G. L. Campbell	699,787	May 13	1271	294	99	1448
Railway system. Electric	G. L. Campbell. (Reissue)	11,991	May 20	3133	712	99	1855
Railway system. Electric	J. C. Henry	707,844	Aug. 26	3904	813	100	1905
Railway system. Electric	E. E. Walkins	709,063	Sept. 16	2017	460	100	2424
Railway system. Electric	W. B. Potter	710,072	Sept. 30	4025	908	100	2869
Railway system. Electric	W. B. Potter	712,961	Nov. 4	940	219	101	1089
Railway system. Electric	W. B. Potter	713,016	Nov. 4	1028	240	101	1106
Railway system. Electric	W. Robinson	714,746	Dec. 2	183	37	101	1874
Railway systems. Electromagnetic switch for surface-contact electric	W. B. Potter	705,136	July 22	3410	741	100	739
Railway T-rails. Grooved rail appliance for street-	H. C. Phelps	690,603	Jan. 7	454	97	98	97
Railway. Third-rail system or magneto-electric	W. H. Wright	703,361	June 24	3845	885	99	2954
Railway-tie	J. P. Bickerstaff	690,691	Jan. 7	621	135	98	131
Railway-tie	J. J. Ridgway	690,998	Jan. 14	1195	270	98	265
Railway-tie	J. H. Bender	691,586	Jan. 21	2298	517	98	513
Railway-tie	J. H. Gleason	692,264	Feb. 4	94	28	98	186
Railway-tie	C. De Cew	694,287	Feb. 25	3892	863	98	1658
Railway-tie	A. J. Harms	697,480	Apr. 15	2057	454	99	472
Railway-tie	Z. C. Robbins	699,015	Apr. 29	4980	1101	99	1123
Railway-tie	A. F. Crotser	703,119	June 24	3392	779	99	2858
Railway-tie	J. P. Lancaster	703,797	July 1	780	171	100	156
Railway-tie	B. H. Smith	704,394	July 8	1919	476	100	404
Railway-tie	J. Doyle and G. H. Kimball	706,898	Aug. 12	1572	322	101	1680
Railway-tie	W. C. Gregg. (Reissue)	12,025	Aug. 26	8897	876	100	1454
Railway-tie	E. M. Bunce	708,521	Sept. 9	948	215	100	2185
Railway-tie	E. M. Bunce	708,522	Sept. 9	949	215	100	2185
Railway-tie	J. L. Grieb	709,481	Sept. 23	2893	646	100	2823
Railway-tie	S. J. Gibboney	711,305	Oct. 14	1761	381	101	381
Railway-tie	T. M. Lee and G. W. Hartson	712,943	Nov. 4	904	211	101	1081
Railway-tie	J. E. York	714,270	Nov. 25	3538	778	101	1489
Railway-tie	J. Byrne	714,559	Nov. 25	4056	898	101	1783
Railway-tie	G. W. Schellenbach	717,287	Dec. 30	5242	1138	101	3009
Railway-tie and fastener. Metallic	W. S. Dodd	704,783	July 15	2628	568	100	564
Railway-tie and means for securing the rails thereto. Metallic	C. Rabert	692,902	Feb. 11	1247	276	98	1081
Railway-tie and rail connection	C. Gardner	712,787	Nov. 4	604	138	101	1023
Railway-tie and rail-fastening. Metallic	D. J. Meyer	692,689	Feb. 4	841	191	98	972

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Railway-tie. Cement	W. J. Bell	711,277	Oct. 14	1699	367	101	367
Railway-tie. Metal	W. V. Beal and S. Smith	692,600	Feb. 4	681	158	98	998
Railway-tie. Metal	H. K. J. Manger	697,640	Apr. 15	2346	524	99	529
Railway-tie. Metal	A. J. Reitz and J. H. Lange	704,932	July 15	2979	638	100	639
Railway-tie. Metallic	W. H. Meiser	691,647	Jan. 21	2414	548	98	537
Railway-tie. Metallic	L. T. Sheffield	692,372	Feb. 4	272	66	98	855
Railway-tie. Metallic	A. P. Bamberger	694,600	Mar. 4	509	1110	98	1821
Railway-tie. Metallic	V. E. Barnes	695,493	Mar. 18	2051	461	98	2170
Railway-tie. Metallic	C. S. Shallenberger	701,513	June 8	413	91	99	2193
Railway-tie. Metallic	C. Buhrer	702,400	June 17	2013	459	99	2558
Railway-tie. Metallic	S. A. Sharum	705,452	July 22	4084	888	100	877
Railway-tie. Metallic	J. F. Weisbrod	706,788	Aug. 12	1535	844	100	1446
Railway-tie. Metallic	H. W. Avery	710,172	Sept. 30	4234	955	100	2913
Railway-tie. Metallic	J. H. Chance	716,667	Dec. 23	3944	862	101	2707
Railway-tie or bridle	J. G. Carlson	713,957	Nov. 18	3900	644	101	1527
Railway-tie plate	W. S. Jones	691,317	Jan. 14	1790	407	98	388
Railway-tie plate	B. Wolhaupter	691,332	Jan. 14	1845	417	98	403
Railway-tie plate	R. L. Underwood and I. C. Butte- field	691,988	Jan. 28	3063	688	98	688
Railway-tie plate	T. B. Modlin and W. H. Buhl	709,169	Sept. 16	2231	507	100	2469
Railway-tie-securing device	V. E. McBee	709,348	Sept. 16	2576	581	100	2543
Railway-tie. Steel	A. B. Allen	694,343	Mar. 4	5	2	98	1713
Railway-track	I. Dinger	690,705	Jan. 7	655	143	98	138
Railway-track adjuster	G. S. Kendall	694,484	Mar. 4	271	61	98	1770
Railway-track and car-track	R. Bagdaley	692,498	Feb. 4	486	113	98	898
Railway-track appliance	G. Meader	690,597	Jan. 7	448	95	98	96
Railway-track appliances. Sod-line-cutter mechanism for	H. T. Porter	714,820	Dec. 2	334	73	101	1905
Railway-track cattle-guard	V. Berford	706,515	Aug. 12	1019	225	100	1337
Railway-track foundations. Beam for	H. L. Church	708,995	Sept. 16	1876	431	100	2395
Railway-track jack	L. B. West	706,619	Aug. 12	1202	267	100	1375
Railway-track joint	H. Hale and S. J. Bartlett	690,423	Jan. 7	69	15	98	17
Railway-track joints. Graduated reinforced arched angle-bar for	T. C. McLin	708,908	Sept. 9	1692	389	100	2341
Railway-track-laying machine	G. H. Williams	714,422	Nov. 25	3999	842	101	1733
Railway-track-laying machine	H. Mann	694,564	Mar. 4	444	96	98	1807
Railway-track lubricator	H. Mann	709,641	Sept. 23	3176	709	100	2680
Railway-track-sanding device	F. M. De Lapp	699,747	May 13	1187	276	99	1431
Railway-track special	A. C. Monfort	702,231	June 10	1707	385	99	2476
Railway-track structure	T. J. McGhie	696,837	Apr. 1	832	191	99	176
Railway-track structure	E. B. Entwisle	691,616	Jan. 21	2357	530	98	524
Railway-track structure	V. Angerer and E. Samuel	693,210	Feb. 11	1808	410	98	1213
Railway-track structure	C. H. Krauss	694,162	Feb. 25	3715	820	98	1624
Railway-track structure	H. B. Nichols	694,176	Feb. 25	3749	828	98	1630
Railway-track structure	G. M. Ervin	705,057	July 22	3234	700	100	704
Railway-track structure	J. H. Pfleger	705,131	July 22	3396	737	100	736
Railway-track structure	E. B. Entwisle	709,975	Sept. 30	3858	869	100	2894
Railway-track structure	H. B. Nichols	713,790	Nov. 18	2563	571	101	1458
Railway-track structure	V. Angerer	713,933	Nov. 18	2848	632	101	1517
Railway-track structure	C. B. Voynow	714,068	Nov. 18	3118	689	101	1574
Railway-track structure	C. B. Voynow	716,353	Dec. 16	3303	720	101	2555
Railway-tracks. Ballasting	W. Goldie	707,840	Aug. 26	3595	812	100	1904
Railway traction apparatus. Electrical	A. B. Boughan	698,099	Apr. 22	3199	709	99	729
Railway-train guard. Antilescoping	W. S. Heyburn	702,210	June 10	1876	378	99	2470
Railway-train guard. Antilescoping	W. B. Heyburn	702,211	June 10	1678	378	99	2471
Railway-trains. Apparatus for electrically lighting	A. B. Gill	711,421	Oct. 14	1956	426	101	422
Railway-trains. Electric block system for	J. T. Hambay	707,226	Aug. 19	2345	525	100	1633
Railway-trains. System for computing the resistance of	J. M. Daly	715,199	Dec. 2	1650	226	101	2051
Railway-trains. System for computing tonnage resistance in	J. M. Daly	715,201	Dec. 2	1055	227	101	2052
Railway, tramway, &c.	J. Brown	694,129	Feb. 25	3644	806	98	1610
Railway turn-table	P. Johnson	692,521	Feb. 4	540	127	98	908
Railway-vehicle frame, &c.	S. Riffart	698,736	Apr. 29	4448	981	99	1006
Railway-vehicle life-guard	G. Kirby	690,738	Jan. 7	731	161	98	154
Railway-vehicle. Suspended	W. Scher	708,173	Sept. 2	390	79	100	2048
Railway-vehicles. Means for providing brakes to	J. Bowman	695,374	Mar. 11	1782	395	99	1204
Railway-wagon hand-power brake	D. J. Morgan	699,209	May 6	143	36	99	1205
Railway-wagons. Controlling device for couplings of	A. Brooker	706,896	Aug. 12	1742	388	100	1490
Railway-wagons, &c. Coupling for	R. F. C. Rambeaud	703,670	July 1	545	123	100	107
Railway-wagons, &c. Door for	F. Barson	709,139	Sept. 16	2281	518	100	2479
Railway-wagons in loading or unloading. Apparatus for controlling	J. D. Miller and R. Yates	704,554	July 8	1856	401	100	392
Railway water-tank attachment	R. T. Cummings and W. W. Wikoff	711,293	Oct. 14	1739	376	101	377
Railways. Apparatus for automatically block-signaling on	F. B. Behr	717,325	Dec. 30	5298	1152	101	3021
Railways. Automatic audible signaling on	J. Goode	694,008	Feb. 25	3432	753	98	1566
Railways. Automatic electrical signaling apparatus for	J. E. Spagnoletti	704,948	July 15	3007	645	100	645
Railways. Automatic signal for electric	C. H. Storm	699,119	Apr. 29	5147	1139	99	1157
Railways. Automatic signal for electric	R. L. Storm	701,275	May 27	4184	960	99	2087
Railways. Automatic stop-signal for	T. T. Chaloner	704,174	July 8	1520	326	100	320
Railways. Automatic switch mechanism for street	J. D. Cottrell	710,432	Oct. 7	61	14	101	15
Railways. Collector for surface-contact	W. B. Potter	691,808	Jan. 28	274	620	98	632
Railways. Displacing device for use on	G. Vogt	695,662	Mar. 18	2488	565	98	2268
Railways. Electrical safety alarm and signal mechanism for	J. L. Ricketts	707,639	Aug. 26	3136	705	100	1813



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Railways. Electrically-propelled vehicle for single-rail elevated	F. B. Behr	700,609	May 20	2909	668 669 670	99	1806
Railways. Electropneumatic switch system for electric	W. H. Cummer	701,685	June 3	732	162	99	2262
Railways of the sectional type of conductors or rails. System of electric	C. J. Kintner	700,126	May 13	1909	443 444	99	1579
Railways. Operating electric	C. R. Campbell	706,219	Aug. 5	418	90	100	1201
Railways or vehicles. Controller for electric	J. C. Henry	696,237	Mar. 25	3585	803	98	2506
Railways. Protector for third rails of electric	H. Brooks	714,446	Nov. 25	3856	852	101	1742
Railways. Rail for minimizing jolting on	O. Wilhelm	699,270	May 6	290	66	99	1227
Railways. Signaling system for single-track	W. W. Salmon	692,915	Feb. 11	1268	261	98	1380
Railways. Signaling system for single-track	W. W. Salmon	695,277	Apr. 8	1666	373	99	374
Railways. Tablet picking up and depositing apparatus for use on single lines of	W. and G. W. Drummond	704,786	July 15	2634	569 570	100	565
Railways. Third-rail construction for electric	C. M. Hobbs	700,689	May 20	2908	697 698	99	1843
Railways. Vehicle to be used in electric traction on	G. Cawley	708,462	Sept. 2	836	190	100	2150
Railways, &c. Coupling for	J. Finn	690,508	May 6	717	42	99	1324
Railings. Tool for fixing iron	F. G. Oldenburg	717,261	Dec. 30	5197	1128	101	2999
Raisin cleaning and assorting machine	E. J. Kessler	696,870	Apr. 1	890	205	99	188
Raisin or fruit elevator	W. M. Ewing	701,555	June 3	540	110	99	2212
Raisin-seeder	F. J. del Corral	699,494	May 6	663	160	99	1319
Raising, lowering, transporting, and discharging materials. Means applicable for use in	H. A. L. Barry	712,476	Nov. 4	15	6	101	900
Raising or lowering materials. Means for	H. A. L. Barry	707,542	Aug. 26	2937	665	100	1772
Rake: See Agricultural rake. Lawn-rake. Drag-rake. Push-rake. Hand-rake. Stalk-rake. Hay-rake.							
Rake	C. H. Trumpler	704,719	July 15	2504	541	100	220
Rake	A. S. Elliott	706,327	Aug. 5	419	174	100	1202
Rake	L. Terry	708,339	Sept. 9	1737	492	100	2350
Rake	W. S. Richards	715,694	Dec. 9	1969	441	101	2256
Rake and fork. Combination	A. Zwicker	705,008	July 15	3133	677	100	688
Rake and stacker. Combined	J. H. Kindsvater	704,345	July 8	1829	396 397	100	385
Rake attachment	O. Benson	695,139	Mar. 11	1549	343	98	2057
Rake attachment. Horse-	M. Jewell	695,935	Mar. 25	2981	674	98	2383
Ram	D. J. Morgan	696,068	Mar. 25	3233	732	98	2434
Ram	C. C. Wentworth	697,303	Apr. 8	1718	383 384	99	386
Ram. Hydraulic	W. L. Deming	706,727	Aug. 12	1894	310 311	100	1418
Ram. Hydraulic	J. Richards	711,076	Oct. 14	1997	283	101	284
Ram. Hydraulic	A. S. Snavely	715,167	Dec. 2	987	214	101	2038
Ramie, china-grass, &c. Treatment of	C. Masse	711,577	Oct. 21	2269	731	101	500
Rammer	A. E. Hammer	692,290	Feb. 4	117	37	98	822
Ramrod, gun-rest, and bayonet. Combined	J. Wheeler	716,158	Dec. 16	2918	642	101	2477
Range	J. F. Ruth and E. Preisler	712,854	Nov. 4	736	170	101	1049
Range and broiler. Electrical cooking-	M. Bayno	716,365	Dec. 23	3338	729	101	2578
Range and water-heater. Combined	H. W. Conner	702,343	June 10	1901	494	99	2514
Range-boiler	A. C. Badger	690,928	Jan. 7	80	108	98	107
Range. Cooking	H. A. Garrison	692,654	Feb. 4	766	176	98	956
Range. Cooking	H. J. Mathias	714,645	Nov. 25	4218	933	101	1814
Range-finder	C. Davis	691,247	Jan. 14	1631	372 373	98	855
Range-finder	J. Neilson	700,547	May 20	2806	641	99	1785
Range-finder	G. Forbes	701,180	May 27	4028	925	99	2053
Range-finder	I. N. Lewis	705,766	Aug. 12	1489	330	100	1487
Range-finder	A. H. Marindin	707,836	Aug. 26	3626	817	100	1969
Range-finder	C. A. Trotter	714,263	Nov. 25	3522	775	101	1677
Range-finder	A. A. Adams	717,062	Dec. 30	4804	1042	101	2915
Range-finder mounting	A. Barr and W. Stroud	710,737	Oct. 7	648	135	101	132
Range-finding and surveying instrument	J. Waddell	702,835	June 17	2840	653 654	99	2732
Range. Gas	W. D. Hutson	702,434	June 17	2085	475	99	2573
Range-hot-water attachment	S. R. Stine	717,047	Dec. 30	4770	1034	101	2907
Range-indicator	A. Le Blanc	691,742	Jan. 28	2617	586	98	598
Range-water-reservoir	G. H. Grimm	703,249	June 24	3638	836	99	2908
Ranges or cooking-stoves. Hot-blast for	J. B. Ehrlich	701,474	June 3	346	77	99	2160
Ranges. Ventilator for fire-surfaces of	A. E. Minns	698,988	Apr. 29	4934	1091	99	1114
Rapid-transit line. Elevated	I. H. Finchum	714,293	Nov. 25	3589	789 790	101	1689
Rat-killer	J. T. Prior	704,576	July 15	2272	492	100	490
Rat-trap	P. Olafsson	704,910	July 15	2909	624	100	626
Rat-trap	B. F. Short	710,020	Sept. 30	3929	887	100	2849
Ratan-dividing machine	H. W. Larsson	694,757	Mar. 4	805	179 180	98	1882
Ratan-dividing machine	H. W. Larsson	694,758	Mar. 4	805	180 181	98	1883
Ratan-strip-trimming machine	H. W. Larsson	694,868	Mar. 4	1019	225 226 227	98	1928
Ratan strips. Machine for longitudinally dividing	H. W. Larsson	694,869	Mar. 4	1024	227 228	98	1929
Ratchet device. Adjustable	C. A. Miller	698,212	Apr. 22	3437	754	99	778
Ratchet-drill	O. A. Schultz	712,836	Nov. 4	741	172	101	1050
Ratchet-drill	H. and M. Bennoische	714,437	Nov. 25	3838	549	101	1738
Ratchet-drill	J. Petterson	715,597	Dec. 9	1798	388 389	101	2220
Ratchet-drill stock and screw-driver	B. Novin	699,701	May 13	1103	250	99	1415
Ratchet mechanism	A. Van Wagenen	702,684	June 17	2560	588	99	2673

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Ratchet mechanism	C. Joss	705,991	July 29	5026	1095	100	1077
Ratchet-tool	E. E. Brown and T. B. McCall	705,029	July 22	3180	687	100	694
Ratchet-wrench	W. T. Garrett	690,647	Jan. 7	589	117	98	115
Ratchet-wrench	D. B. Arnold	702,762	June 17	2708	622	99	2704
Ratchet-wrench	J. E. Dickie	710,135	Sept. 30	4256	959	100	2918
Ratchet-wrench	F. F. Landis	714,586	Nov. 25	4109	909	101	1794
Rattle, Rhythmic	L. S. Burbank	705,819	July 29	4825	1048	100	1036
Rattling-mill	A. M. Hewlett	712,531	Nov. 4	130	31	101	925
Razor	G. W. Korn	693,524	Feb. 18	2480	544	98	1356
Razor	C. Freitag	707,223	Aug. 19	2342	523	100	1632
Razor-blade safety-guard attachment	J. J. Duket and L. Flinker	712,778	Nov. 4	588	134	101	1019
Razor-cleaner	E. F. Ogborn	706,997	Aug. 12	1902	426	100	1521
Razor-cleaner	H. Schweitzer	708,262	Sept. 2	491	113	100	2080
Razor-gage	A. Witte	692,576	Feb. 4	627	147	98	926
Razor-hones	E. Schreiber and J. G. Klier	714,524	Nov. 25	3996	884	101	1770
port for	T. Anderson	694,229	Feb. 25	3835	849	98	1646
Razor. Safety-	A. L. Silberstein	690,780	Jan. 7	792	176	98	167
Razor. Safety-	F. J. Halbekann	690,947	Jan. 14	1090	245	98	243
Razor. Safety-	J. H. Becker	693,992	Feb. 25	3404	748	98	1561
Razor. Safety-	F. R. and O. Kampfe	694,650	Mar. 4	507	131	98	1899
Razor. Safety-	G. H. Standish	698,703	Apr. 29	990	992	99	1927
Razor. Safety-	J. H. Standish	708,845	July 1	865	190	100	173
Razor safety attachment	W. Schuch	713,018	Nov. 4	1032	241	101	1107
Razor-strop	W. O. Britton	702,866	June 17	2894	669	99	2743
Razor-strop-surfacing tool	J. P. Knight	712,811	Nov. 4	652	151	101	1031
Razor-stopping device	F. R. and O. Kampfe	712,385	Oct. 28	3811	832	101	838
Razor-stopping machine	F. R. and O. Kampfe	712,384	Oct. 28	3809	832	101	838
Razor-stopping machine	W. Tapp	714,622	Nov. 25	4183	961	101	1807
Reach-coupling	T. G. Manlt	692,163	Jan. 28	3375	764	98	750
Reading-stand	J. Kriwanek	697,257	Apr. 8	1634	366	99	368
Reamer	W. Jackmond	695,559	Mar. 18	2294	518	98	2228
Reamer	J. N. Lapointe	716,438	Dec. 23	3483	760	101	2609
Reamer	J. N. Lapointe	716,439	Dec. 23	3484	761	101	2610
Reaping-machine	J. F. Appleby	701,251	May 27	4133	951	99	3077
Reaping-machine	A. J. Beck	701,502	June 3	390	90	99	2190
Reaping-machine attachment	L. E. Shumaker	716,120	Dec. 16	2854	629	101	2465
Receptacle for ethyl chloride	L. Schwartz	701,274	May 27	4182	960	99	2687
Receptacle for holding and delivering aromatic substances.	E. O. Witman	701,980	June 10	1245	284	99	2383
Receptacle. Non-refillable	H. W. Avery	706,712	Aug. 12	1367	305	100	1411
Receptacle or tank	R. P. Stewart	697,954	Apr. 15	2317	644	99	650
Receptacles. Connecting apparatus for rotary	O. H. and W. M. Jewell	715,605	Dec. 9	1916	498	101	2244
Reciprocating machine	R. B. Brown	692,234	Feb. 4	23	5, 6, 7	98	802
Reciprocating engine	C. C. Protheroe	694,076	Feb. 25	3560	786	98	1593
Reciprocating-rod protector	T. R. Vinzent	713,723	Nov. 18	2439	545	101	1430
Reclining-chair	F. Rose	695,493	Mar. 18	2154	486	98	2290
Reclining-chair	F. Mace	701,064	May 27	3706	870	99	2009
Reclining-chair	J. W. and E. A. Clark	702,540	June 17	2281	519	99	2615
Reclining-chair	J. S. Kenny	715,388	Dec. 9	1399	302	101	2141
Reclining-chair. Adjustable	J. E. Hanger	704,459	July 8	2044	443	100	430
Reclining-chair. Folding	P. B. Watson	707,884	Aug. 26	3678	827	100	1921
Record-strip-feeding mechanism	J. S. Bancroft	700,289	May 20	2306	525	99	1683
Recorder:							
See Photometric re-	Time-recorder.						
corder.	Speed-recorder.						
Recorder	C. J. Roach	704,925	July 15	2946	632	100	634
Recorder	E. A. Neubauer	706,682	Aug. 12	1320	292	100	1402
Recording and adding machine	G. W. and A. L. Dudley	712,777	Nov. 4	570	132 133 134	101	1015
Recording apparatus for reciprocating bodies. Dis-	E. A. Whitehead	708,440	Sept. 2	787	178	100	2140
tance.	J. O. Deckert, C. H. Mann, and H. A. Prizer.	713,613	Nov. 18	2245	500	101	1389
Recording device	E. Larsen	703,935	July 1	1029	223 224	100	205
Recording-machine	L. P. Breckenridge and E. C. Oliver	713,945	Nov. 18	2876	638 639	101	1522
Recording mechanism. Collection-	G. F. De Groot and I. L. Thompson	700,019	May 13	1716	394 395	99	1541
Recording messages, signals, &c	P. O. Pedersen	699,630	May 6	950	220	99	1371
Recording or registering the maximum movement of any mechanism. Mechanism for	L. B. Atkinson	706,146	Aug. 5	282	59	100	1175
Recording system	R. and W. H. Davis and D. C. Woodbury	691,450	Jan. 21	2057	460 461	98	464
Rectal instrument	S. L. Kistler	694,971	Mar. 11	1229	268	98	1990
Rectifier	H. W. Buck	713,284	Nov. 11	1601	363	101	1240
Rectifier	H. W. Buck	713,555	Nov. 11	2125	476	101	1349
Reducing mechanism	W. S. McKinney	699,551	May 6	797	188	99	1340
Reduction-furnace.	H. E. Vosburgh	712,161	Oct. 28	3415	748	101	754
Reel:							
See Binder-reel.	Fishing-reel.						
Chain-reel.	Harvester-reel.						
Clothes-line reel.	Hose-reel.						
Collapsible reel.	Measure-reel.						
Drying-reel.	Rod-reel.						
Fence-reel.	Tape-reel.						
Fish-reel.	Twine-reel.						
Fish-line reel.	Wire-reel.						
Reel	G. R. Mathews	699,763	May 13	1229	286	99	1440
Reel	J. Shaw	708,203	Sept. 2	492	113	100	2061
Reel and barrel-carrier. Combined	W. E. Shaver	695,241	Mar. 11	1726	382	98	2093



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Reeling mechanism	C. E. Pope	692,474	Feb. 4	444	104	98	880
Refining-engine	S. R. Wagg	698,084	Apr. 22	3155	693	99	719
Refining-engine	E. Churchill, Jr., and H. A. Hall	704,693	July 15	2457	530	100	529
Reflector	J. L. Creveling	691,048	Jan. 14	1295	294	98	285
Reflector	H. C. Hawks	716,891	Dec. 30	4471	969	101	2844
Reflector. Gas or electric	R. D. Gates	712,517	Nov. 4	95	24	101	917
Reflector. Incandescent-lamp	J. Taussig	716,595	Dec. 23	3816	828	101	2680
Reflector or lamp-shade and collar. Combined	J. A. Carlstedt	704,711	July 15	2451	539	100	537
Refractory material and manufacturing same. Object of	C. B. Jacobs	711,819	Oct. 14	1782	885	101	386
Refractory stopper	J. H. Allendorfer	712,450	Oct. 28	3938	862	101	864
Refreshment-receptacle and boutonniere	J. A. Goetz	696,631	Apr. 1	430	100	99	93
Refrigerating apparatus	E. W. Howell	702,062	June 10	1425	320	99	2419
Refrigerating apparatus	J. C. Fox	703,646	July 1	494	111	100	97
Refrigerating apparatus	C. J. Coleman	709,814	Sept. 23	3516	793	100	2750
Refrigerating apparatus	J. V. Skoglund	710,623	Oct. 7	440	92	101	88
Refrigerating apparatus. Absorption	N. W. Condict	706,902	Aug. 12	1750	391	100	1492
Refrigerating, &c. Apparatus for producing cold air for	T. and W. L. Cole. (Reissue)	12,061	Dec. 2	1117	238	101	2066
Refrigerating apparatus. Still for absorption	N. W. Condict	706,901	Aug. 12	1749	299	100	1492
Refrigerating-chamber	J. Crabtree	696,133	Mar. 25	3375	762	98	2466
Refrigerating-compartments. Regulating apparatus for	R. W. Rollins	716,480	Dec. 23	3569	780	101	2626
Refrigerating, heating, drying, impregnating, or otherwise treating goods. Apparatus for	J. McRae	705,279	July 23	3723	807	100	802
Refrigerating-machine	W. J. Woodcock	706,625	Aug. 12	1212	809	100	1377
Refrigerating plants. Ammonia-purifier for	J. Scheideinan	704,382	July 8	1901	411	100	401
Refrigerating plants. Purifying refrigerants in circulation in	J. Scheideinan	704,383	July 8	1902	411	100	402
Refrigerating-rooms, &c. Window for	W. Griesser	710,858	Oct. 7	882	192	101	179
Refrigeration system	W. F. Singer	697,039	Nov. 8	1242	277	99	288
Refrigeration. Mechanism for automatic control of	C. D. Sword	712,861	Apr. 4	747	173	101	1051
Refrigerator	A. B. Kokernot	696,646	Apr. 1	456	106	99	98
Refrigerator	H. Robinson	697,888	Apr. 15	2706	618	99	626
Refrigerator	A. de Clairmont	698,453	Apr. 29	3862	852	99	881
Refrigerator	F. R. Beal	705,510	July 22	4192	912	100	896
Refrigerator	N. Bosmann	708,992	Sept. 16	1861	428	100	2392
Refrigerator	H. Aylmer	710,173	Sept. 30	4235	955	100	2913
Refrigerator	H. W. Nash	713,227	Nov. 11	1462	332	101	1213
Refrigerator attachment	A. B. Kokernot	696,645	Apr. 1	453	106	99	98
Refrigerator-building	H. T. Myers	716,344	Dec. 16	3288	718	101	2552
Refrigerator-car	J. B. Underwood	699,260	May 6	241	56	99	1223
Refrigerator-car	W. J. Hughes	706,661	Aug. 12	1281	283	100	1392
Refrigerator-car	W. J. Hughes	710,695	Oct. 7	566	118	101	116
Refrigerator-car ice-tank	T. B. Kirby	704,197	July 8	1565	337	100	328
Refrigerator-case	W. H. Ames	700,720	May 27	3143	714	99	1873
Refrigerator-case	W. H. Ames	700,721	May 27	3145	714	99	1874
Refrigerator-door	W. Griesser	710,859	Oct. 7	884	192	101	179
Refrigerator-door-fastening device	B. A. Stevens	694,691	Mar. 4	683	148	98	1856
Refrigerator, freezer, and churn	S. Sweeney	704,768	July 15	2602	563	100	558
Refrigerator-pan alarm	P. Yon and L. Laprise	705,990	July 29	5128	1118	100	1098
Regenerative furnace	F. H. Treat	705,978	July 29	5106	1113	100	1093
Regenerative furnace	J. A. Drake	717,177	Dec. 30	5056	1096	101	2969
Regenerative system	A. G. Davis	714,157	Nov. 25	3307	731	101	1634
Regenerative system	M. T. A. Kubierschky	714,196	Nov. 25	3389	746	101	1650
Regenerator-burner	C. W. Weiss	710,130	Sept. 30	4154	936	100	2806
Register	See Autographic register.						
Register	Hotel-register.						
Register	Mail-box door-register.						
Register	Barrel-register.						
Register	Cash-register.						
Register	Fare-register.						
Register	Game-register.						
Register	Golf-register.						
Register	Hot-air register.						
Register	Hot-air wall-register.						
Register	H. W. Howe	693,604	Feb. 18	2644	523	98	1389
Register	R. Reeves	699,898	May 13	1506	346	99	1501
Register	T. W. Jones	700,504	May 20	2734	625	99	1769
Register	B. G. Robbins	701,935	June 10	1159	266	99	2367
Register	E. C. Fox	702,936	June 24	3043	700	99	2789
Register	G. F. Hutchins	703,270	June 24	2672	841	99	2914
Register	J. Alexander	707,751	Aug. 26	3405	768	100	1867
Register	H. R. Richardson	714,745	Dec. 2	179	36, 37	101	1873
Register	J. H. Warner	716,795	Dec. 23	4173	915	101	2754
Register and alarm	L. E. Fugate	708,632	Sept. 9	1129	254	100	2232
Register top plate	G. E. Clark	690,698	Jan. 7	642	140	98	135
Register, ventilator, &c.	H. S. Hart	708,409	July 1	82	16	100	19
Register, ventilator, or the like	H. S. Hart	701,481	June 3	368	81, 82	99	2184
Registering apparatus. Autographic	J. S. Ferguson	691,852	Jan. 28	2827	634	98	640
Registering device. Automatic	R. R. Spears	701,955	June 10	1200	273	99	2375
Registering-lock	R. O. Stebbins	714,054	Nov. 18	3088	683	101	1568
Registering mechanism	L. J. Burdick	698,629	Apr. 29	4201	928	99	950

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Regulator.							
See Air-compressor reg- ulator.	Gasolene-regulator.						
Air-pressure regu- lator.	Liquid-pressure regula- tor.						
Current-regulator.	Locomotive draft-regu- lator.						
Dampet-regulator.	Motor-regulator.						
Dynamo-regulator.	Motor feed-regulator.						
Electric regulator.	Oil and air regulator.						
Electric-current regulator.	Potential-regulator.						
Electric-machine regulator.	Power-transmission reg- ulator.						
Engine ignition- regulator.	Pressure-regulator.						
Engine speed-regu- lator.	Speed-regulator.						
Feed-regulator.	Steam-pressure regula- tor.						
Feed-water regula- tor.	Stroke-regulator.						
Fluid-pressure regu- lator.	Temperature-regulator.						
Fuel-regulator.	Valve-regulator.						
Gas-regulator.	Voltage-regulator.						
Gas-pressure regulator.	Water-regulator.						
	Water-pressure regula- tor.						
	Windmill-regulator.						
Regulator.		H. B. P. Wrenn	708,289	Sept. 2	540	122 123	100 2091
Rein-guard.		G. V. Hinman	695,932	Mar. 25	2973	673	98 2381
Rein-guard.		J. T. West	705,866	July 29	5121	1117	100 1096
Rein-guide.		H. N. Martin	714,214	Nov. 25	3430	755	101 1657
Rein-guide.	Harness	J. Reichert	714,031	Nov. 18	3030	674	101 1556
Rein-holder		N. J. Barnd and W. H. Busse	692,416	Feb. 4	340	84	98 570
Rein-holder		J. Grainger	701,033	May 27	3754	859	99 1959
Rein-holder		O. Saterbakken	701,339	June 3	205	45	99 2324
Rein-holder		T. L. Thompson	709,585	Sept. 23	3084	686	100 2662
Rein-holder		W. P. Sampson	709,855	Sept. 23	3578	806	100 2764
Rein-holder		F. Matthews	713,471	Nov. 11	1937	438	101 1312
Rein holder and guide.	Combined	D. G. Webster	713,929	Nov. 18	2840	631	101 1515
Rein-holder and storm-apron support.	Combined.	W. H. Wooldridge	696,618	Apr. 1	409	95	99 90
Rein-holder.	Wheel-operated.	L. Huenke	716,233	Dec. 16	3081	673	101 2312
Rein-support		T. K. Harsh	702,207	June 10	1669	375	99 2469
Rein-support		J. T. Smith	702,498	June 17	2215	505	99 2602
Rein-support		W. S. Neal	716,925	Dec. 30	4537	983	101 2857
Rein support and holder.		J. S. Wakefield	697,121	Apr. 8	1302	300	99 316
Reins, &c.	Handle for driving.	W. B. Snyder	692,168	Jan. 28	3380	766	98 751
Relay.	Electrical	A. T. M. Thomson	712,619	Nov. 4	301	71	101 961
Relay.	Supervisory	W. K. Kalsing	705,092	July 23	3308	719	100 719
Relay.	Vibratory-current	J. M. Fell	708,539	Sept. 9	971	220	100 2190
Releasing apparatus.	Emergency	J. F. Bjurlund	716,659	Dec. 23	3934	859 860	101 2705
Releasing-hook for handling logs, &c		E. F. Marr	706,246	Aug. 5	467	99	100 1211
Releasing mechanism.	Time	S. S. Colt	691,047	Jan. 14	1291	293	98 285
Releasing-trap		R. N. Portman	693,901	Feb. 25	3212	708	98 1523
Remedy for diseases of the skin or scalp and mak- ing same.		G. C. Robertson	711,263	Oct. 14	1665	709	101 360
Reminder system.	Perpetual	B. Pirosh	704,100	July 8	1377	297	100 290
Reminding device		G. H. Hosmer and E. W. Anderson	703,066	June 24	3206	758	99 2389
Removable handle		C. M. Phillips	701,387	June 3	186	40	99 2146
Rendering and drying apparatus		J. Glatz	700,083	May 13	1750	404	99 1548
Rendering apparatus		J. C. W. Stanley	696,506	Apr. 1	198	48	99 46
Rendering apparatus		D. Cameron	705,093	July 22	3186	688	100 695
Rendering apparatus		E. R. Edson	707,565	Aug. 26	2985	674	100 1781
Rendering apparatus		E. R. Edson	707,567	Aug. 26	2995	674	100 1788
Rendering apparatus		C. Turner	708,845	Sept. 9	1570	358	100 2315
Rendering-tank		W. C. Marshall	690,525	Jan. 7	309	61, 62	98 57
Rennet.	Composition of matter for use with	H. M. Scott and H. Anderson	714,748	Dec. 2	188	101	101 1875
Repair-tool	Hydropneumatic	J. S. Thurman	697,567	Apr. 15	2203	490	99 500
Request and mailing sheet.	Combined	H. Hoover	691,055	Jan. 14	1303	295	98 287
Resawing device		D. L. Taylor	690,793	Jan. 7	824	182	98 174
Resawing machine.	Band	E. E. Thomas	693,188	Feb. 11	1844	399	98 1202
Resins, oils, or fats.	Refining	F. H. Clement	692,428	Feb. 4	362	89	98 874
Resistance-coil		F. Arlester	696,222	Mar. 25	3560	797	98 2501
Resistance-coil and support therefor.		A. C. Eastwood	693,692	Feb. 15	2812	618	98 1423
Resistance of resilient devices.	Means for auto- matically regulating	H. P. Davis	710,143	Sept. 30	4177	941	100 2901
Respirator		P. C. Ewart	706,306	Aug. 5	612	133	100 1239
Respirator		L. M. A. Muntz	703,948	July 1	1053	229	100 209
Respirator		G. L. Fowler	704,017	July 8	1192	259	100 253
Respirator		M. Jacobs and A. P. Black	712,304	Oct. 28	3361	799	101 894
Respiratory apparatus		E. Giersberg	693,795	Feb. 15	2989	638	98 1458
Respirometer		A. E. Aldrich	699,637	May 13	977	226	99 1391
Retaining apparatus.		H. Small	715,165	Dec. 2	985	214	101 2038
Retinoscope.		S. A. Rhodes	713,348	Nov. 11	1721	388	101 1266
Retort		E. H. Hopkins	701,885	June 10	1079	244	99 2349
Retort-charging apparatus		J. De Brouwer	716,201	Dec. 16	3025	661	101 2501
Retort-closure		J. M. K. Letson and F. W. Burpee	710,476	Oct. 7	142	33	101 31
Retort-discharging apparatus		L. Bertrand	715,004	Dec. 2	708	149 150	101 1978
Retort for subliming sulfur		A. Alonzo-Consoli	711,811	Oct. 21	2730	604	101 599
Retort-furnace		D. Laird	696,456	Apr. 1	114	27	99 29
Retort-furnace		W. B. Chapman	705,907	July 29	4979	1084	100 1068



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Retort-furnace. Rotating and discharging.	I. L. Briggs	717,332	Dec. 30	5812	1155	101	3024
Retort-mouthpiece clamp	J. C. Dods	706,642	Aug. 12	1243	275	100	1385
Retort-rakes. Making	G. M. Portman	702,821	June 17	2814	647	99	2726
Retting ramie, &c.	E. Depetro	707,907	Aug. 26	3724		100	1929
Reversing device	R. J. Lines	699,963	May 13	1629	374	99	1524
Reversing mechanism	W. Nahrwolt	692,895	Feb. 11	1234	273	98	1079
Reversing mechanism	C. S. Labofish	693,407	Feb. 18	2356	494	98	1309
Reversing mechanism	C. E. Rains	693,965	Feb. 25	3216	710	98	1524
Reversing mechanism	J. B. Alifree	696,921	Apr. 8	1621	227	99	236
Reversing mechanism	J. Lizotte	700,432	May 20	2584	592	99	1738
Reversing mechanism	S. Nielsen	705,603	July 29	4440	962	100	959
Reversing mechanism	R. R. Reck	705,961	July 29	5078	1107	100	1087
Reversing mechanism	O. Crosby	706,027	Aug. 5	47	9, 10	100	1127
Reversing mechanism	F. M. Broun	706,719	Aug. 12	1377	307	100	1414
Reversing mechanism	C. W. James	706,827	Aug. 12	1604	356	100	1629
Reversing mechanism	W. W. Tuck and A. Wassmann	717,957	Dec. 30	4797	1040	101	2913
Reversing mechanism and brake. Combined	J. Baldwin	712,893	Nov. 4	808	187	101	1063
Revolution-indicator	W. R. Park	699,228	May 6	172	42	99	1210
Revolution-indicator	B. T. Williston	699,272	May 6	262	60, 61	99	1227
Revolution-indicator	E. and E. J. Lavens	711,635	Oct. 21	2379	522	101	525
Revolver	H. M. Kolb and C. Foehl	702,735	June 17	2652	611	99	2691
Revolver	J. D. Robertson	708,078	Sept. 2	146	166	100	2011
Revolver	G. Tresenreuter	710,821	Oct. 7	820	177	101	168
Revolver ejector mechanism	J. D. Robertson	710,008	Sept. 30	3907	882	100	2844
Revolver finger-guard	A. A. Kemp	694,969	Mar. 11	1226	268	98	1969
Revolver front sight	D. B. Wesson	715,223	Dec. 2	1095	234	101	2961
Revolver-lock	J. H. Wesson	708,437	Sept. 2	781	177	100	2139
Revolvers. Rear sight for	D. B. Wesson	717,478	Dec. 30	5579	1211	100	3077
Revolving barrel counter	F. Mackintosh	706,524	Dec. 3	1234	350	99	1358
Revolving chair	A. L. Morsell	699,889	May 13	191	343	99	1497
Revolving heater	E. S. Reed	713,698	Nov. 18	2374	529	101	1415
Revolving indicator	J. W. Cap	695,908	Mar. 25	2934	665	98	2374
Revolving, reclining, and rocking chair. Convertible	A. A. Van Slyke	712,743	Nov. 4	511	120	101	1003
Revolving screen	V. W. Mason, Jr.	694,565	Mar. 4	449	96, 97	98	1866
Rheostat	R. W. Brown and C. A. Rhine	701,012	May 27	3712	851	99	1990
Rheostat	A. C. Eastwood	704,448	July 8	2014	487	100	424
Rheostat	J. A. Mosher	705,112	July 22	3854	727	100	728
Rheostat	W. H. Chapman	705,561	July 29	4361	945	100	944
Rheostat	G. H. Whittingham	712,749	Nov. 4	520	122	101	1005
Rheostat	F. E. Case	713,601	Nov. 18	2219	492	101	1384
Rheostat	F. Mackintosh	714,567	Dec. 2	577	122	101	1951
Rheostat	F. C. Watson	715,327	Dec. 9	1234	277	101	2121
Rheostat	F. Mackintosh	715,827	Dec. 16	2257	502	101	2336
Rheostat	J. L. Hall	716,222	Dec. 16	3063	669	101	2508
Rheostat and heater. Combined	M. C. Krueger	700,207	May 30	2127	488	99	1646
Rheostat, electric heater, &c.	H. P. Ball	699,064	Apr. 29	5061	1119	99	1140
Rheostat for electric motors. Starting	F. Mackintosh	690,448	Jan. 7	118	25	98	27
Rheostat for use in electric-motor circuits. Automatically-controlled	H. L. Miller	696,065	Mar. 25	3229	730	98	2493
Rheostat-operating mechanism. Motor-	J. I. Ayer	700,715	May 30	3127	710	99	1854
Rheostat or electric heater	G. P. Wisdom	717,310	Dec. 30	5279	1147	101	3017
Rheostat or heater. Electric	H. P. Ball	707,194	Aug. 19	2288	512	100	1621
Rheostats, electric heaters, &c. Resistance for	H. W. Leonard	707,244	Aug. 19	2368	531	100	1637
Ribbon and stock supporter	J. H. Whittington	707,479	Aug. 19	2807	635	100	1728
Ribbon-feeding mechanism	R. Bürk	715,456	Dec. 9	1526	131	101	2166
Ribbon-holder	A. F. Stockton	691,673	Jan. 21	2465	532	98	548
Ribbon-retainer	F. C. Steinkamp	714,963	Dec. 2	639	134	101	1963
Rice hulling and polishing machine	W. Van Houten and S. F. Prevatt	693,930	Feb. 25	3261	718	98	1532
Rice-hulling machine	J. B. Cornwall	707,211	Aug. 19	2318	519	100	1627
Rice, &c. Machine for cleaning	R. W. Welch	705,985	July 29	5119	1116	100	1096
Riddle	E. Huber	706,061	Aug. 5	179	25	100	1142
Ridge-breaker	R. Baldridge	696,496	Feb. 11	2405	529	98	1361
Riding-habit	J. A. Ondrak	693,426	Feb. 18	2293	502	98	1317
Rifle	J. H. Carl	705,736	July 29	4688	1014	100	1098
Rifle	J. B. Thorneycroft	713,254	Nov. 11	1508	341	101	1221
Rifle	A. Alfson	716,976	Dec. 30	4640	1006	101	2878
Rifle. Magazine	T. A. Fildjeland	691,369	Jan. 21	1920	1431	98	434
Rim-opener	N. Axlund	694,518	Mar. 4	346	75	98	1786
Ring:							
See Curtain-pole ring.	Piston-ring.						
Finger-ring.	Separable-ring.						
Key-ring.	Spinning-ring.						
Lap-ring.							
Ring.	F. R. Stafford	703,493	July 1	297	49	100	44
Ring-making machine	L. Lehr	701,585	June 3	552	121	99	2222
Ring-polishing machine	G. H. Gaskins	699,514	May 6	736	169	99	1326
Ring-tray	B. Lenzen	710,475	Oct. 7	141	33	101	30
River-banks. Protecting	A. F. Smiser	717,039	Dec. 30	4758	1031	101	2904
Rivet-caulking tool	P. J. Sweeney	715,624	Dec. 9	1839	408	101	2229
Rivet cap. Tubular	W. P. Bartel	695,265	Mar. 11	1771	392	98	2102
Rivet-clenching cap	J. L. Thomson	693,495	Feb. 11	2114	463	98	1361
Rivet heating and distributing system	V. R. Browning	706,155	Aug. 5	393	64, 65	100	1179
Rivet-machine. Solid-die	M. T. Stangeland	701,640	June 3	653	143	99	2246
Rivet-making machine	F. W. Wood	694,596	Mar. 4	398	108	98	1818
Rivet-setting-machine guide-pocket.	E. Draper	709,062	Sept. 16	1883	433	100	2367
Rivet-setting machine. Tubular	T. S. Bennett	709,196	Sept. 16	2286	519	100	2481
Rivet-strip	J. S. Stokes	712,422	Oct. 28	3894	832	101	856
Riveter. Pneumatic	C. E. Richards	693,415	Mar. 11	2024	454	98	1361
Riveter. Pneumatic.	J. Keller	710,197	Sept. 30	4276	963	100	2923

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Riveting, &c., apparatus. Portable	P. J. Charles	700,481	May 20	2687	616	99	1759
Riveting-machine	W. S. McKinney	690,755	Jan. 7	755	168	98	159
Riveting-machine	H. C. Pomeroy	699,707	May 13	1112	261	99	1417
Riveting-machine	G. E. Martin	709,167	Sept. 16	2329	506	100	2468
Riveting-machine	L. P. Tasee	715,317	Dec. 9	1278	272	101	2117
Riveting-machine	W. J. Whalen	716,156	Dec. 16	2315	641	101	2475
Riveting mechanism	J. L. Thomson	700,261	May 20	2245	512	99	1671
Riveting or punching tool. Hydraulic.	C. Wigtel	701,439	June 3	278	62	99	2165
Riveting-tool. Pneumatic	J. W. Birkenstock and R. W. Funk	703,758	July 1	706	156	100	141
Road-bed	G. A. Le Fevre	714,923	Dec. 2	573	121	101	1950
Road-breaking machine	I. Wrobel	705,889	July 29	4950	1077	100	1061
Road-cleaner, elevator, and dirt-cart. Combined	M. Stobbs and J. S. Thompson	703,478	July 23	4122	896	100	884
Road-gate	A. French	709,214	Sept. 16	2317	526	100	2488
Road-gate. Automatic.	J. E. De Lamar	691,363	Jan. 21	1910	429	98	432
Road-oiling machine	T. F. White	703,327	June 24	3750	864	99	2931
Road-roller	L. B. McAlpine	710,165	Sept. 30	4221	952	100	2910
Road-roller. Steam	T. Wright	702,851	June 17	2869	663	99	2738
Road-roller. Steam	T. Wright	703,882	July 1	932	203	100	187
Road-scarifier and trench-cutter	B. Asplen	703,168	June 24	3495	803	99	2878
Roadway	F. A. Malette	691,708	Jan. 21	2525	565	98	561
Roadway	W. E. Jaques	712,541	Nov. 4	154	37	101	929
Roadway for motor-vehicles.	A. Clark	703,185	June 24	3520	810	99	2883
Roaster.							
See Coffee-roaster. Peanut-roaster.							
Ore-roaster.							
Roaster	W. F. Colley	699,103	Apr. 29	5119	1132	99	1152
Roaster	J. A. Ogden	708,728	Sept. 9	1321	301	100	2261
Roaster and trusser	W. C. Williamson	691,333	Jan. 28	2793	628	98	633
Roasting-furnace	W. A. Lorenz	691,787	Jan. 28	2705	608	98	616
Roasting-furnace	L. T. Wright	697,062	Apr. 8	1290	287	99	293
Roasting-furnace	F. Klepetko and W. J. Evans	700,339	May 20	2411	551	99	1703
Roasting-furnace	D. Sheedy and M. W. Iles	711,352	Oct. 14	1844	401	101	999
Roasting-pan	J. Herbs	690,574	Jan. 7	395	81	98	86
Roasting, smelting, and matting furnace	W. D. C. Spike and J. T. Jones	693,076	Feb. 11	1583	345	98	1151
Robe. Invalid's	A. Schermhorn	695,496	Mar. 18	2160	488	98	2201
Rock-breaking machine	J. Brejcha and E. Schulte	703,890	July 1	949	207	100	191
Rock-breaker	G. Lowry	693,288	Feb. 11	2020	441	98	1239
Rock-crusher	W. R. Young	693,580	Feb. 18	2595	574	98	1378
Rock-cutting apparatus	F. Lobnitz	707,128	Aug. 19	2149	482	100	1500
Rock-drill	A. C. Bates	690,630	Jan. 7	505	110	98	108
Rock-drill	A. M. Ballou	690,687	Jan. 7	614	134	98	130
Rock-drill	H. Leineweber	691,556	Jan. 21	2235	504	98	501
Rock-drill	R. Avery	709,191	Sept. 16	2275	517	100	2478
Rock-drill	A. Avery	710,935	Oct. 14	1014	224	101	223
Rock-drill	A. D. Foote	711,102	Oct. 14	1350	293	101	294
Rock-drill	J. Puechagut	712,592	Nov. 4	249	61	101	949
Rock-drill	F. Coyle	715,993	Dec. 16	2593	573	101	2409
Rock-drill	J. H. Redfield	717,027	Dec. 30	4738	1028	101	2900
Rock-drill attachment	J. H. Redfield	717,028	Dec. 30	4742	1028	101	2901
Rock-drill buffer device	R. B. McConney	711,998	Oct. 28	3112	681	101	695
Rock-drill clamp	F. R. Brown	698,900	Apr. 29	4793	1155	99	1084
Rock-drill drill-holding chuck-bolt	O. H. Bossert	704,502	July 15	2133	461	100	462
Rock-drill. Hand	V. J. Smith	702,499	June 17	2216	505	99	2602
Rock-drill. Interchangeable bit	H. Aylmer	692,755	Feb. 4	945	214	98	991
Rock-drill making, mending, and sharpening tool	G. J. Glossop	697,244	Apr. 8	1602	360	99	359
Rock-drill. Percussive	Z. W. Daw	706,394	Aug. 5	791	172	100	1274
Rock-drill, rock-drilling-machine bit, &c	D. Mackenzie	710,484	Oct. 7	152	35	101	33
Rock-drill tripod	W. Wood	712,885	Nov. 4	792	184	101	1059
Rock-drills. Quick-return spring for	R. B. McConney	711,999	Oct. 28	3114	681	101	696
Rock drilling and blasting apparatus. Submarine.	R. G. Packard	712,002	Oct. 28	3119	683	101	697
Rock-drilling engine	J. G. Leyner	709,022	Sept. 16	1934	444	100	2406
Rock-drilling machine	W. Prellwitz	710,922	Oct. 7	986	217	101	201
Rock or ore breaker	A. J. Gates and T. W. Capen	691,339	Jan. 14	1859	419	98	406
Rock pulverizer	H. Luckenbach	697,505	Apr. 15	2095	465	99	480
Rockier. Platform-	W. P. Seng	714,750	Dec. 2	190	36	101	1576
Rocking and reclining chair. Adjustable	J. M. Roberts	702,331	June 10	1875	428	99	2509
Rocking-chair	C. M. Wagner	700,266	May 20	2253	514	99	1673
Rocking-chair	P. Fitzsimmons	716,879	Dec. 30	4449	964	101	2840
Rocking-chair. Adjustable	C. A. Bergstrom	710,035	Sept. 30	3954	892	100	2855
Rocking-chair. Folding	W. T. Seerup	697,025	Apr. 8	1236	275	99	281
Rocking-chair. Platform	J. A. Zeinwoldt	695,703	Mar. 18	2557	578	98	2280
Rocking-chair. Spring	C. W. and W. H. King	697,494	Apr. 15	2078	460	99	476
Rocking-horse. Traveling	R. Barret	699,280	May 6	283	65, 66	99	1232
Rod.							
See Connecting-rod. Index-rod.							
End-gate-securing rod							
Folding rod							
Stair-rod.							
Rod-coiling apparatus	W. D. De Lamarter and F. W. Wallace.	694,003	Feb. 25	3421	753	98	1564
Rod-coupling	W. Connelly	698,819	Apr. 29	4619	1019	99	1047
Rod-coupling	J. A. Fitzpatrick	709,400	Sept. 16	2695	605	100	2568
Rod-coupling	P. Carolan	715,976	Dec. 16	2563	556	101	2402
Rod coupling. Connecting-	J. Horsey	703,925	July 1	1010	220	100	201



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Rod-reel	B. H. Gedge	707,317	Aug. 19	2518	567	100	1667
Rod-swab	J. O. Dauphin	694,840	Mar. 4	957	213	98	1916
Rods or shafts in place and for permitting ready removal of same. Device for securing	G. Engel	692,997	Feb. 11	1441	313	98	1121
Roll	G. A. Gerdtzen	696,138	Mar. 25	3394	764 765	98	2470
Roll	R. B. Charlton	699,147	May 6		39	10, 11	99 1184
Roll	J. P. Lange	700,513	May 20	2751	629	99	1773
Roll-clearer	J. Thomson	710,539	Oct. 7	279	62	101	57
Roll feed-table. Sheet	F. O. Stromborg	695,249	Mar. 11	1742	585 586	98	2096
Roll mechanism	C. H. Davis	708,999	Sept. 16	1878	432	100	2396
Roll-polishing apparatus	D. R. Ferguson and G. W. Nimon	692,129	Jan. 28	3324	753	98	739
Roll. Yielding	B. F. Conkle	715,553	Dec. 9	1730	381	101	2205
Rolls, cakes, &c. Machine for making	M. Korth	690,741	Jan. 7	736	162 163	98	155
Rolls. Mold for making French	B. Yere	714,550	Nov. 25	4042	894	101	1779
Roller:							
See Belt-roller.	Electric roller.						
Blind-roller.	Land-roller.						
Calender-roller.	Massage-roller.						
Cigarette-roller.	Road-roller.						
Conveyer-support- ing roller.	Shade-roller.						
Ditch-roller.	Steam-roller.						
Roller	A. P. Knauber and H. Ostwald	700,509	May 20	2745	628	99	1772
Roller attachment. Elevating	A. H. Centner	705,905	July 29	4975	1082 1083	100	1067
Roller-brake	L. H. Bill	708,114	Sept. 2	211	50	100	2025
Roller-coaster	G. L. Jontz and E. A. Gault	716,427	Dec. 23	3458	754 755	101	2604
Roller-die	H. Herden	696,816	Apr. 1	794	181	99	168
Roller-mill	W. A. Dunn	700,082	Sept. 16	2058	471	100	2433
Roller-mill and cutter	W. A. Dunn	709,084	Sept. 16	2062	473	100	2434
Roller-mill feeder	H. Gschwendler and J. H. Dearholt	696,673	Apr. 1	525	121	99	114
Roller-press	E. Reagan	699,114	Apr. 29	5137	1136 1137	99	1155
Roller-screen	M. F. Hutchison	696,373	Mar. 25	3894	864	98	2568
Roller-table. Power-driven	O. Sundt	714,758	Dec. 2	213	102	100	1880
Rolling apparatus. Metal	J. Morgan	691,159	Jan. 14	1468	335	98	321
Rolling apparatus. Sheet-metal	F. O. Stromborg	703,620	July 1	437	101	100	86
Rolling car-axes. Apparatus for	C. Steele	698,071	Apr. 22	3133	690	99	714
Rolling car-wheels. Machine for	H. V. Loss	706,674	Aug. 12	1309	289	100	1399
Rolling channel-irons. Apparatus for	H. S. Smith	694,437	Mar. 4	198	42, 43	98	1733
Rolling designs upon strips or bars. Apparatus for	J. and W. D. Eynon	699,795	May 13	1285	237	99	1452
Rolling direct from fluid metal. Apparatus for continuous	C. W. Bildt	650,917	Jan. 14	1037	323	98	234
Rolling flat sheet metal. Apparatus for	T. Whitehouse	705,887	July 29	4948	1076	100	1061
Rolling-hoop	E. P. Hinman	708,143	Sept. 2	270	64	100	2037
Rolling machine. Car-wheel	H. W. Fowler	715,777	Dec. 16	2149	481 482	101	2313
Rolling machine. Gear	W. L. Jones	716,241	Dec. 16	3104	678	101	2516
Rolling machinery	E. W. Hopkins	702,302	June 10	1821	416	99	2590
Rolling metal forms. Machine for	C. F. Brooker	694,732	Mar. 4	736	163	98	1867
Rolling metal I-beams, channel-beams, &c. Machine for	W. A. Dunn	709,083	Sept. 16	2059	471 472	100	2434
Rolling metal I-beams, channel-beams, &c. Machine for	W. A. Dunn	709,085	Sept. 16	2063	473 474	100	2434
Rolling metal ingots into thin plates or sheets	E. Norton	691,565	Jan. 21	2250	507	98	503
Rolling metal sheets	T. V. Allis	690,129	May 6	8	2	99	1178
Rolling metal sheets in packs. Hot	T. V. Allis	699,131	May 6	11	2, 3	99	1178
Rolling metal tubes or other hollow or solid bodies	A. E. Beck	709,958	Sept. 30	3818	859	100	2826
Rolling-mill	J. Kennedy	693,031	Feb. 11	1489	325	98	1132
Rolling-mill	Z. W. Onions	694,025	Feb. 25	3461	763	98	1573
Rolling-mill	P. Girin	706,548	Aug. 12	1076	237 238	100	1348
Rolling-mill	V. E. Edwards	709,972	Sept. 30	3853	652 653	100	2833
Rolling-mill	R. Mengelbier	711,927	Oct. 21	2964	773 774	101	648
Rolling-mill	H. L. Thompson	714,260	Nov. 25	3515	773 774	101	1675
Rolling-mill catching-machine	R. Harris	710,972	Oct. 14	1076	238 239	101	235
Rolling-mill conveyer	J. D. Swindell	695,181	Mar. 11	1616	338	98	2070
Rolling-mill conveyer and guide	T. V. Allis	699,133	May 6	14	2, 3	99	1179
Rolling-mill. Electrically-driven	M. Harvey	699,950	May 13	1608	368	99	1520
Rolling-mill feed-table	E. E. Slick	698,570	Apr. 29	4049	895	99	920
Rolling-mill furnace	T. V. Allis	699,127	May 6	1	1	99	1177
Rolling-mill guide	J. H. Mellors	716,259	Dec. 16	3129	685	101	2321
Rolling mill. Rod	C. A. Nighman	706,993	Aug. 12	1894	425	100	1320
Rolling-mill roll-polishing attachment	C. Markwort and A. E. Jones	716,565	Dec. 23	3758	817	101	2667
Rolling-mill-shaft coupling	J. R. George and V. E. Edwards	691,759	Jan. 28	2653	591	98	604
Rolling-pin	G. J. Miller	695,411	Mar. 11	2016	453	98	2153
Rolling-pin	B. Djup	705,654	July 29	4521	982	100	975
Rolling-pin, potato-masher, and biscuit-cutter. Combined	H. L. Meyer	694,068	Feb. 25	3542	781	98	1589
Rolling rods	C. A. Nighman	706,994	Aug. 12	1898	425	100	1321
Rolling seamless tubes. Mill for	W. H. Robbins, J. J. Byre, and A. E. Jones	692,478	Feb. 4	450	105	98	490
Rolling sheet-metal cylinders. Machine for	M. M. Parker	710,117	Sept. 30	4117	929 930	100	2888
Rolling solid or hollow bodies. Apparatus for	J. Gieshoidt	691,540	Jan. 21	2213	497 498	98	496

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Rolling-stock	J. A. Burns	695,708	Mar. 18	2562	579 580	98	2281
Rolling-stock. Monorail.	J. A. Burns	717,338	Dec. 30	5324	1158 1159	101	3027
Rolling tapering bodies. Mill for	M. Baackes	697,964	Apr. 22	2934	647	99	674
Rolling tubes. Heating mandrels for	G. H. Everson	701,693	June 3	746	165	99	2265
Rolling, wrapping, or winding machine	J. Cunningham	714,457	Nov. 25	3875	856	101	1746
Roof	F. L. Kane	712,192	Oct. 28	3468	761	101	764
Roof	H. N. Hansen	718,225	Dec. 16	3066	689	101	2508
Roof-board joint.	W. S. Wickham	713,577	Nov. 11	2171	485	101	1357
Roof, ceiling, and floor construction	B. McDougall	707,250	Aug. 19	2384	524	100	1640
Roof clamp or bracket	I. E. Clum	713,061	Nov. 11	1127	259	101	1144
Roof-covering sheet	W. H. Bache	702,614	June 17	2432	554	99	2646
Roof-cresting. Metallic	W. F. Norman and J. H. Berghausen	700,364	May 20	2455	562	98	1713
Roof-framing tool	E. G. Pettit	695,339	Mar. 11	1899	423	98	2187
Roof-guard	S. P. Clark	702,923	June 24	3000	691	99	2782
Roof-joint.	C. A. Granton	696,139	Mar. 25	3397	765	98	2471
Roof or structure. Glazed	E. Van Noorden	705,491	July 22	4155	904	100	889
Roofs. Laying	F. L. Kane	712,308	Oct. 28	3666	800	101	805
Roofs or other surfaces and fastening device therefor. Sheet-metal covering for	G. T. Williams	695,523	Mar. 18	2215	502	98	2213
Roofing	J. Ayrault	713,588	Nov. 18	2190	488	101	1378
Roofing. Cement	H. Brock	708,307	Sept. 2	576	130	100	2098
Roofing compound	F. A. Mitchell	707,710	Aug. 26	3288	100	1844	
Roofing material.	F. S. Miller	690,526	Jan. 7	811	62	98	68
Roofing material. Chemical.	J. M. Wright	691,882	Jan. 28	2872	98	650	
Roost. Fumigating poultry.	O. La Rue	702,971	June 24	3119	717	99	2805
Roost. Poultry.	J. H. F. Eversz	702,784	June 17	2745	631	99	2711
Roost. Poultry.	J. M. Reid	717,120	Dec. 30	4902	1622	101	2393
Rope-clamp	C. F. Rugby	696,748	Apr. 1	670	132	99	143
Rope-clasp	W. N. Hull	702,214	June 10	1683	379	99	2471
Rope-climbing device	C. E. Knop	711,251	Oct. 14	1651	356	101	358
Rope-fastener	F. B. Adams	701,277	June 3	1	1	99	2109
Rope-grip	H. M. Sackett	694,029	Feb. 25	3475	766	98	1576
Rope-grip for snaffling	J. H. Wallace	704,282	July 8	1713	373	100	360
Rope-guide.	W. G. Poulson	711,786	Oct. 21	2678	590	101	588
Rope-laying machine	W. C. Boone	697,487	Apr. 15	1981	438	99	457
Rope-making machine	T. W. Norman	691,797	Jan. 28	2723	612 613 614	98	619
Rope-operating apparatus	C. A. Baechtold and H. N. Covell	715,338	Dec. 9	1317	282	101	2125
Rope or cable clamp	J. B. Braden	713,738	Nov. 18	2471	550	101	1438
Rope-tip.	H. S. Durand	716,877	Dec. 30	4448	964	101	2839
Rosette.	W. T. Thomas	698,233	Apr. 22	3467	763	99	784
Rosin. Hardening	E. and M. Schaal	698,741	Apr. 29	4451	555	99	1008
Rotary and folding chair	A. A. Wilkinson	709,286	Sept. 16	2461	600	100	2518
Rotary apparatus or plow for treatment of ground.	J. Castellan	704,857	July 15	2776	601	100	595
Rotary cutter	H. A. Hannum	691,939	Jan. 28	2975	669	98	670
Rotary cutter	A. J. Norris	695,113	Mar. 11	1482	330	98	2042
Rotary cutter	F. Panse	697,875	Apr. 15	2773	615	99	622
Rotary cutter	J. Ettinger	704,960	July 15	3042	653	100	650
Rotary cutter	J. Ettinger	716,694	Dec. 23	3991	873	101	2716
Rotary-cutter-hardening apparatus	H. Liebert	698,121	Apr. 22	3261	713	98	740
Rotary-cutter holder	C. G. Belmer	695,630	Mar. 18	2437	530	98	2257
Rotary-cutter or pinking machine	T. F. Hagerty	691,702	Jan. 21	2517	563	98	559
Rotary cutters. Manufacturing	B. Jansen	703,030	July 1	1021	222	100	203
Rotary drier	L. Grill	709,704	Sept. 23	3287	737	100	2703
Rotary drill. Portable pneumatic	J. Keller	710,782	Oct. 7	746	158 159	101	153
Rotary engine	H. W. Van Auken	690,798	Jan. 7	832	184	98	176
Rotary engine	C. Crook Jr.	691,604	Jan. 21	2333	524	98	520
Rotary engine	G. F. Sage	692,212	Jan. 28	3476	786	98	771
Rotary engine	G. P. Nielsen	693,055	Feb. 11	1543	337	98	1143
Rotary engine	D. M. Dearing	693,348	Feb. 11	2134	469	98	1265
Rotary engine	E. R. Hyde	694,101	Feb. 25	3600	797	98	1601
Rotary engine	T. J. Masters	694,294	Feb. 25	3358	881	98	1673
Rotary engine	C. W. Barton	694,603	Mar. 4	519	113	98	1832
Rotary engine	H. Liethegeuer and A. Klemm	694,763	Mar. 4	823	182	98	1886
Rotary engine	J. B. Eidel, Jr., and G. Hartmann	695,095	Mar. 11	1451	321 322	98	2036
Rotary engine	A. E. Fish	695,296	Mar. 11	1838	409	98	2115
Rotary engine	J. H. Houseman	696,047	Mar. 25	3194	721 722	98	2427
Rotary engine	I. V. Ketcham	696,825	Apr. 1	809	183	99	172
Rotary engine	M. J. Hewlett	696,904	Apr. 1	980	219	99	207
Rotary engine	F. G. Bates	696,926	Apr. 8	1036	231	99	239
Rotary engine	J. P. Shepard	697,026	Apr. 8	1238	276	99	282
Rotary engine	W. H. Dougherty	697,398	Apr. 8	1894	423	99	422
Rotary engine	J. Theemling	697,693	Apr. 15	2442	544 545	99	548
Rotary engine	S. D. Book	698,360	Apr. 22	3681	812 813	99	828
Rotary engine	S. Smith	699,720	May 13	1136	265 266	99	1421
Rotary engine	J. E. Arthur	699,740	May 13	1175	273 274	99	1428
Rotary engine	E. W. Barton	700,007	May 13	1698	391	99	1537
Rotary engine	B. D. Hobbs	700,423	May 20	2574	589	99	1735
Rotary engine	T. J. Perrin	700,557	May 20	2819	647	99	1788
Rotary engine	F. A. Headson	701,339	June 3	110	22, 23	99	2132



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Rotary engine	S. C. Shepard	701,404	June 3	213	48	99	2151
Rotary engine	W. F. Bangs	701,531	June 3	445	100	99	2199
Rotary engine	J. A. Porter	702,474	June 17	2160	492	99	2590
Rotary engine	C. A. and O. W. Hult	702,558	June 17	2309	526	99	2620
Rotary engine	W. L. Casaday	702,624	June 17	2448	527	99	2649
Rotary engine	P. Phillip	702,674	June 17	2541	582	99	2669
Rotary engine	E. F. Pickett	702,675	June 17	2544	583	99	2670
Rotary engine	J. W. Strabala	703,014	June 24	3191	584	99	2820
Rotary engine	C. Tuckfield	703,502	July 1	221	585	100	46
Rotary engine	C. Tuckfield	703,679	July 1	566	126	100	112
Rotary engine	A. T. Stimson	704,280	July 8	1706	127	100	359
Rotary engine	H. E. Hodgson	704,687	July 15	2365	372	100	509
Rotary engine	H. E. Hodgson	704,688	July 15	2369	373	100	510
Rotary engine	F. A. Pallé	704,913	July 15	2917	514	100	628
Rotary engine	W. D. Williams	705,004	July 15	3126	625	100	666
Rotary engine	C. O. Morley	705,274	July 22	3716	674	100	800
Rotary engine	G. Cassady	705,380	July 22	3951	805	100	848
Rotary engine	J. E. Cary	705,644	July 29	4501	850	100	971
Rotary engine	F. G. Grove	705,835	July 29	4851	977	100	1042
Rotary engine	W. J. Mason	706,077	Aug. 5	147	1053	100	1147
Rotary engine	A. P. Charles	706,158	Aug. 5	310	147	100	1180
Rotary engine	W. Alsop	706,372	Aug. 5	733	65, 66	100	1264
Rotary engine	G. E. Woodard	706,485	Aug. 5	967	160	100	1312
Rotary engine	J. N. Edwards	706,731	Aug. 12	1401	212	100	1419
Rotary engine	J. P. Pollard	707,003	Aug. 12	1911	313	100	1523
Rotary engine	W. F. Stanley	707,174	Aug. 19	2253	428	100	1612
Rotary engine	A. Dahlén	708,129	Sept. 2	243	503	100	2032
Rotary engine	A. C. Eek and A. F. Cederquist	708,328	Sept. 2	611	57, 58	100	2106
Rotary engine	E. L. Sill	708,414	Sept. 2	744	188	100	2182
Rotary engine	E. L. Sill	708,415	Sept. 2	745	189	100	2183
Rotary engine	M. M. Lockerby	708,566	Sept. 9	1011	167	100	2297
Rotary engine	G. Speice	708,742	Sept. 9	1343	229	100	2307
Rotary engine	P. Studer and P. Rupp	708,937	Sept. 9	1732	306	100	2349
Rotary engine	T. D., J. C., and H. A. Prescott	709,242	Sept. 16	2375	401	100	2499
Rotary engine	S. J. Webb	709,628	Sept. 23	3145	588	100	2674
Rotary engine	B. W. Fellows	709,702	Sept. 23	3283	589	100	2702
Rotary engine	O. C. Jones	709,773	Sept. 23	3432	735	100	2732
Rotary engine	W. Jameson	709,908	Sept. 30	3711	736	100	2803
Rotary engine	T. J. Bush	709,961	Sept. 30	3823	773	100	2827
Rotary engine	W. F. Evans	710,261	Sept. 30	4395	823	100	2949
Rotary engine	C. H. Hawkins	710,577	Oct. 7	342	989	101	69
Rotary engine	J. Zura	710,730	Oct. 7	696	74	101	130
Rotary engine	T. S. Colbourne	710,756	Oct. 7	682	132	101	139
Rotary engine	W. A. E. Henrici	710,973	Oct. 14	1081	143	101	236
Rotary engine	C. H. Taylor	711,083	Oct. 14	1320	239	101	287
Rotary engine	F. G. Bates	711,092	Oct. 14	1333	285	101	290
Rotary engine	W. Lawrence	711,168	Oct. 14	1483	289	101	323
Rotary engine	E. B. Tree	711,239	Oct. 14	1631	320	101	354
Rotary engine	V. A. Rice	711,261	Oct. 14	1662	351	101	360
Rotary engine	C. E. Shumway	711,354	Oct. 14	1849	358	101	400
Rotary engine	M. W. Wallace	711,600	Oct. 21	2320	403	101	512
Rotary engine	C. M. Agnew	711,711	Oct. 21	2527	506	101	556
Rotary engine	A. A. Methven	711,730	Oct. 21	2567	555	101	566
Rotary engine	H. T. Dunn	711,952	Oct. 28	3029	565	101	679
Rotary engine	W. Z. Stuart	712,105	Oct. 28	3311	666	101	734
Rotary engine	T. P. Butler	712,119	Oct. 28	3344	726	101	740
Rotary engine	C. D. Jansen	712,456	Oct. 28	3950	732	101	867
Rotary engine	G. Westinghouse	712,626	Nov. 4	312	864	101	963
Rotary engine	R. McGregor	712,709	Nov. 4	448	73	101	991
Rotary engine	M. J. Hewlett	713,003	Nov. 4	1004	106	101	1101
Rotary engine	D. B. and O. D. Kingsbury	713,007	Nov. 4	1012	236	101	1103
Rotary engine	J. C. Hagerty	713,301	Nov. 11	1645	237	101	1249
Rotary engine	W. I. Phifer	713,342	Nov. 11	1710	370	101	1264
Rotary engine	F. C. Jewell	713,443	Nov. 11	1881	386	101	1300
Rotary engine	M. D. Kalbach	713,448	Nov. 11	1891	426	101	1302
Rotary engine	G. M. Walker	713,541	Nov. 11	2099	427	101	1344
Rotary engine	J. M. Williams	713,578	Nov. 11	2172	428	101	1357
Rotary engine	T. M. Kenney	713,649	Nov. 18	2305	470	101	1401
Rotary engine	H. Mills	713,663	Nov. 18	2328	514	101	1406
Rotary engine	J. W. Larimore	714,200	Nov. 25	3399	520	101	1652
Rotary engine	J. F. Williams	714,424	Nov. 25	3816	749	101	1734
Rotary engine	J. F. Williams	714,425	Nov. 25	3818	843	101	1735

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Rotary engine	S. J. Johnson	714,582	Nov. 25	4098	906	101	1791
Rotary engine	S. J. Johnson	714,583	Nov. 25	4104	907	101	1793
Rotary engine	E. C. Warren	715,321	Dec. 2	1089	233	101	2059
Rotary engine	F. E. Womer	715,722	Dec. 9	2024	452	101	2367
Rotary engine	J. A. Grove	715,788	Dec. 16	2177	486	101	2319
Rotary engine	W. E. Troutman	715,904	Dec. 16	2418	535	101	2372
Rotary engine	W. P. Allen	715,933	Dec. 16	2482	547	101	2386
Rotary engine	S. E. Carothers	715,977	Dec. 16	2563	567	101	2403
Rotary engine	J. W. Pickel	716,470	Dec. 23	3546	775	101	2632
Rotary engine	S. S. Whitaker	716,503	Dec. 23	3612	789	101	2636
Rotary engine	J. Springer and W. A. Robbins	716,589	Dec. 23	3802	827	101	2677
Rotary engine	W. J. Mackle	716,642	Dec. 23	3901	852	101	2698
Rotary engine	E. H. Werner	716,970	Dec. 30	4624	1009	101	2875
Rotary engine	J. Putman	717,023	Dec. 30	4730	1025	101	2898
Rotary engine	F. Gouger	717,190	Dec. 30	5077	1101	101	2973
Rotary engine	G. W. Soule	717,461	Dec. 30	5446	1205	101	3070
Rotary engine. Compound	M. E. Knight	716,908	Dec. 30	4498	974	101	2848
Rotary engine or motor	N. J. Fortunesco and A. Georges	708,879	Sept. 9	1637	377	100	2329
Rotary engine or pump	W. A. Morgan	717,344	Dec. 30	5170	1121	101	2993
Rotary engine, water-meter, or pump	T. C. McBride	698,539	Apr. 29	4001	884	99	910
Rotary expansion-engine	R. S. Philips	710,711	Oct. 7	598	125	101	123
Rotary explosive-engine	C. F. Lembke	694,357	Mar. 6	432	99	98	180
Rotary explosive-engine	J. A. McLean	697,649	Apr. 15	2361	526	99	531
Rotary explosive-engine	S. S. Rose	700,243	May 20	2200	505	99	1664
Rotary fluid-engine	J. F. Cooley	698,950	Feb. 25	3302	726	98	1540
Rotary furnace	C. Groll	694,268	Feb. 25	3915	869	98	1663
Rotary machines. End-play device for	W. B. Potter and E. M. Hewlett	712,590	Nov. 4	247	60	101	949
Rotary mechanical drier	W. W. Wallace	711,027	Oct. 14	1194	263	101	263
Rotary mixer for concrete, &c	W. J. Judd	703,424	July 1	104	23	100	23
Rotary motor	B. V. Szabó	694,333	Feb. 25	4096	911	98	1693
Rotary motor	L. E. Troxler	695,896	Mar. 18	2904	658	98	2353
Rotary motor	H. Van Beresteyn	700,460	May 20	2641	605	99	1750
Rotary motor	T. U. Gray	704,456	July 8	2032	441	100	429
Rotary motor	D. F. Smith	704,943	July 15	2999	642	100	643
Rotary motor	C. J. Skowen	705,457	July 22	4091	889	100	878
Rotary motor	R. C. Sayer	706,116	Aug. 5	2009	434	100	1159
Rotary motor	C. A. and O. W. Hult	706,181	Aug. 5	351	75	100	1188
Rotary motor	A. L. Becht	709,254	Sept. 16	2400	544	100	2506
Rotary motor	P. Philippon and M. Chevalier	710,510	Oct. 7	223	49	101	46
Rotary motor	D. P. Upson	716,791	Dec. 23	4162	913	101	2753
Rotary motor. Two-cycle	P. A. Dupont	706,730	Aug. 12	1399	312	100	1418
Rotary shears	G. W. Mudd	709,106	Sept. 16	2107	483	100	2444
Rotary shears	O. Sundt	713,361	Nov. 11	1750	364	101	1273
Rotary steam-engine	F. G. Kennedy	696,245	Mar. 25	3601	806	98	2500
Rotary steam-engine	J. F. Craig and T. V. Fleming	701,299	June 3	35	7	99	2116
Rotary steam-engine	J. T. Hays and J. W. Wilson	705,079	July 22	3276	710	100	713
Rotary steam-engine	L. W. Wepplo	708,684	Sept. 9	1230	281	100	2242
Rotary steam-engine	J. W. K. Hodge	709,323	Sept. 16	2532	559	100	2534
Rotary steam-engine	W. P. Holman	710,977	Oct. 14	1083	241	101	237
Rotary steam-engine	H. Denis	713,073	Nov. 11	1142	263	101	1147
Rotary steam-motor	H. Roeske	715,152	Dec. 2	962	208	101	2033
Rotating-piston engine	J. Dow	697,075	Apr. 8	1321	293	99	299
Roundabout	C. W. Hinchcliffe	693,968	Feb. 25	3339	734	98	1548
Roundabout	N. F. Felton	708,540	Sept. 9	975	220	100	2190
Roundabout	M. J. Doner	708,873	Sept. 9	1625	373	100	2327
Routing-machine	W. S. Richards	695,348	Mar. 11	1906	424	98	2129
Routing machine. Cylinder	V. Royle	695,119	Mar. 11	1505	325	98	2046
Routing or engraving machine	W. S. Eaton	696,950	Apr. 8	1093	241	99	252
Routing or engraving machine	W. S. Eaton	696,951	Apr. 8	1096	242	99	253
Rove-stop mechanism	J. Fraser	695,100	Mar. 11	1459	324	98	2037
Roving-guide	F. Stevens	707,874	Aug. 26	3652	823	100	1915
Rowing appliance	D. B. Goodwin	710,147	Sept. 30	4185	942	100	2303
Rowing mechanism. Bow-facing	D. B. Goodwin	715,882	Dec. 16	2377	527	101	2362
Rowlock	C. H. Butts	697,442	Apr. 15	1993	440	99	459
Rowlock	F. S. Lowe	710,873	Oct. 7	902	196	101	183
Rowlock. Ball-bearing	T. H. Garrett, Jr	692,845	Feb. 11	1117	250	98	1053
Rowlock. Swivel	A. H. Rollins	700,827	May 27	3362	773	99	1918
Rubber article. Hollow seamless	T. W. Miller	696,992	Apr. 8	1167	260	99	268
Rubberarticles. Apparatus for placing insertions in	B. A. Stevens	710,817	Oct. 7	812	175	101	165



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Rubber belts. Apparatus for stretching and vulcanizing a plurality of	D. R. Bowen and C. T. Ericsson	694,087	Feb. 25	3576	790	98	1596
Rubber boot or shoe	J. L. Perry	699,562	May 6	810	791	99	1343
Rubber boot or shoe	A. T. Schermerhorn	712,437	Oct. 28	3920	858	101	890
Rubber-coated materials. Preparing and treating	J. Minder	708,823	Sept. 9	1524	100	2305	
Rubber-dam holder	E. N. Beall	702,394	June 17	2905	457	99	2537
Rubber-dam holder	G. W. Todd	710,306	Sept. 30	4468	1008	100	2964
Rubber. Devulcanizing india-	O. F. J. Duwez	696,423	Apr. 1	57		99	16
Rubber from vulcanized-rubber waste. Reclaim-	R. B. Price	693,151	Feb. 11	1749	388	98	1182
Rubber glove	J. Pfeiffer, Jr.	692,703	Feb. 4	865	197	98	976
Rubber glove	J. Pfeiffer	692,704	Feb. 4	866	198	98	976
Rubber heel for boots or shoes	G. W. Lewton	712,816	Nov. 4	662	153	101	1033
Rubber hose-pipe, tubing, &c. Manufacture of	G. E. Heyl-Dia	710,688	Oct. 7	555	116	101	114
Rubber-like gum from greasewood. Extracting	A. Y. Werner and P. B. Ellis	697,957	Apr. 15	2621		99	650
Rubber. Manufacturing	A. C. Blossier	713,736	Nov. 18	2467		101	1438
Rubber. Producing a composition of matter to be used as a substitute for	O. A. Bailor	708,003	Sept. 2	7		100	1989
Rubber scrap. Utilizing waste	T. Harmer	697,338	Apr. 8	1769		99	396
Rubber-tired wheel	R. Mulholland	696,698	Apr. 1	549	125	99	119
Rubber tread	R. E. Foster	695,298	Mar. 11	1840	410	98	2115
Rubber. Treatment of crude	J. Thame	707,654	Aug. 26	3192		100	1825
Rubber. Vulcanizing	A. O. Bourn	697,792	Apr. 15	2623	582	99	587
Rubber-working machine	J. H. Pearce	697,217	Apr. 8	1557	340	99	350
Rubbish storing and removing apparatus	S. Maschke	696,832	Apr. 1	820	189	99	174
Rudder attachment	E. G. Gaillac	694,468	Mar. 4	248	55	98	1795
Rudder. Yacht-	G. W. Swan	715,176	Dec. 2	1003	217	101	2041
Ruffler	W. R. Parsons	699,229	May 6	174	42	99	1210
Ruffling and sewing machine	R. G. Woodward	706,484	Aug. 5	965	211	100	1311
Rug loading and stiffening device	F. E. Kindgen	694,213	Dec. 30	5118	1110	101	2382
Rug or garment fastener	W. E. Hardison	695,887	Mar. 2	3804	98	100	1658
Rugs. Machine for preparing strips of carpet for making	H. Lieberman	712,460	Oct. 28	3956	865	101	863
Rule	W. and O. G. Meyer	696,687	Apr. 1	547	125	99	119
Rule	B. M. Gerardin	704,313	July 8	1763	385	100	371
Rule	J. A. Traut	711,547	Oct. 21	2220	483	101	491
Rule and square. Combined	F. J. Coombs	700,304	May 20	2348	534	99	1690
Rule cutting and bending machine	P. M. Callahan	715,194	Feb. 25	1039	224	101	2049
Rule. Drafting	J. Welty	707,744	Aug. 26	3374	750	100	1861
Rule. Drafting	M. C. Kelley	709,776	Sept. 23	3440	774	100	2734
Rule-holder	J. W. Keeley	712,140	Oct. 28	3384	742	101	748
Rule. Measuring	A. Latshaw	706,242	Aug. 5	462	98	100	1210
Rule. Measuring	J. A. and F. L. Traut	716,150	Dec. 16	2906	640	101	2475
Rule or straight-edge. Folding	J. Wurschmidt	715,925	Dec. 16	2470	544	101	2384
Rule. Slide	J. H. Dennert	694,358	Feb. 25	3804	98	100	1658
Rule. Slide	E. Thacher	701,103	May 27	3861	88	99	2922
Rule, square, compasses, and comb. Combined pocket	C. P. Hartley	708,355	Sept. 2	650	147	100	2113
Rules, &c. Joint for foldable	F. L. Traut	713,255	Nov. 11	1510	342	101	1221
Rule attachment	O. Schaller	714,404	Nov. 25	3773	834	101	1727
Rule, book-holder, and marker combined	T. D. Thomas	700,453	May 20	2622	600	99	1747
Rule. Flexible	C. G. Hunt	694,061	Feb. 25	3337	779	98	1568
Rule. Flexible	F. Lawrence	708,208	June 24	3372	821	99	2344
Rule. Parallel	J. Page	694,185	Feb. 25	3767	832	98	1633
Rule. Parallel	J. Sternfeld	705,473	July 22	4115	894	100	883
Rule. Parallel extensible	F. A. Morley	692,794	Feb. 4	1033	232	98	1007
Rule. Protracting	B. H. Camden	703,235	June 24	3617	831	99	2903
Ruling device	B. H. Joy	706,066	Aug. 5	126	25	100	1143
Ruling edges. Parallel motion for	R. Marx	714,594	Nov. 25	4119	911	101	1796
Ruling-machine	A. M. Whitten	700,371	May 20	2261	516	99	1675
Ruling-machine	E. Graber	714,576	Nov. 25	4085	904	101	1788
Ruling-machine. Engraver's	F. Wesel	699,859	May 13	1424	328	99	1481
Ruling machine. Paper-	W. H. Jordan	709,225	Sept. 16	2333	539	100	2491
Ruling plain paper. Pen or pencil attachment for spacing lines in	E. Krauss	695,738	Mar. 18	2612	538	98	2292
Runaways. Device for arresting	F. E. Arnold	702,275	June 10	1779	406	99	2491
Running-gear	H. P. Colby	710,428	Oct. 7	55	13	101	18
Rural-delivery box	A. Miesse	713,662	Nov. 18	2327	519	101	1406
Sack, bag, or other flexible receptacle	A. M. Bates. (Reissue)	12,062	Dec. 16	3312	723	101	3556
Sack-holder	E. H. Johnson	693,643	Jan. 7	119	24	99	160
Sack-holder	H. M. Lillo and O. A. Giere	695,644	Mar. 18	2461	558	98	2262
Sack. Ore or grain	W. R. Morris	695,693	Mar. 18	2541	575	98	2277
Sad-iron	A. Luethi	690,972	Jan. 14	1144	259	98	254
Sad-iron	A. Luethi	693,876	Feb. 25	3152	697	98	1511
Sad-iron	C. H. Sheftall	700,444	May 20	2609	597	99	1744
Sad-iron	H. Graber	702,422	June 17	2060	469	99	2598
Sad-iron	E. Blechmann	704,775	July 15	2612	665	100	865
Sad-iron	G. Finn	705,573	July 29	4380	950	100	948
Sad-iron	J. Kalmár	711,977	Oct. 28	3075	674	101	688
Sad-iron	W. Jones and L. Johnson	712,307	Oct. 28	3665	800	101	805
Sad-iron	J. F. Kingwill	717,007	Dec. 30	4702	1020	101	2892
Sad-iron and vapor-stove. Combined	J. M. Currier	700,180	May 20	2082	476	99	1637
Sad-iron. Gas-heated	R. Blair	695,598	Mar. 18	2574	588	98	2245
Sad-iron handle	C. T. Demarest	702,230	June 10	1739	411	99	1566
Sad-iron handle	W. B. Fenn	706,812	Aug. 12	1577	353	100	1456
Sad-iron handle	W. B. Fenn	706,813	Aug. 12	1578	354	100	1456
Sad-iron heater	E. F. Fischer and H. W. Schmid	716,020	Dec. 16	2647	583	101	2421
Sad-iron holder	K. Barnickol	715,536	Dec. 9	1684	368	101	2197
Sad-iron. Self-heating	H. B. Swartz	698,757	Apr. 29	4477	990	99	1013
Sad-iron. Self-heating	W. B. Burns	705,304	July 22	3543	708	100	768

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. L.	Vol.	Page.
Sad-iron waxer	E. Ludde	699,886	May 13	1486	341	99	1496
Saddle	J. R. and C. B. Hastings.	709,904	Sept. 30	8707	885	100	2802
Saddle and saddle attachment. Riding-	E. E. Whitman	717,307	Dec. 30	5374	1146	101	3016
Saddle. Harness-	E. A. Spaulding	691,015	Jan. 14	1290	377	98	272
Saddle. Harness-	C. F. Brooks	694,723	Mar. 4	739	164	98	1868
Saddle. Harness-	M. Wilson	697,069	Apr. 8	1287	286	99	292
Saddle. Harness-	J. Bromberek	704,505	July 15	2137	462 463	100	462
Saddle. Harness-	J. J. Creedon	714,870	Dec. 2	462	98	101	1929
Saddle. Harness track-	L. B. Allen	708,514	Sept. 9	931	211	100	2182
Saddle-pad. Pneumatic.	H. R. Rensman	709,930	Sept. 30	3757	849	100	2812
Saddletree and elastic checkrein and back-strap holder. Combined	J. I. Ayres	716,512	Dec. 23	3638	735	101	2640
Safe	H. C. Lowrie	693,142	Feb. 11	1721	377	98	1178
Safe	C. V. Peckham	702,883	June 17	2927	675	99	2749
Safe	W. E. Arnold	706,877	Aug. 12	1698	380	100	1481
Safe	G. J. H. Goehler	713,871	Nov. 18	2713	606	101	1487
Safe	N. H. Hollar	713,888	Nov. 18	2741	610	101	1494
Safe	C. A. Barber	716,833	Dec. 30	4397	953	101	2829
Safe and vault	N. M. Abbott	695,360	Mar. 11	1930	430 431	98	2134
Safe. Burglar-proof	D. Neale	707,344	Aug. 19	2568	580	100	1678
Safe-door	A. Gustafson	693,857	Feb. 25	3119	691	98	1505
Safe-door burglar-proof device	A. M. Cushing	703,187	June 24	3526	811	99	2884
Safe-door lock	H. H. Tislow	707,655	Aug. 26	3191	716	100	1825
Safe-door. Screw	W. E. Arnold	710,554	Oct. 7	307	67	101	61
Safe-doors. Day-lock for time-lock-operated screw.	C. E. Blechschmidt.	710,417	Oct. 7	35	8	101	10
Safe-lock. Electric	J. M. Allen	715,334	Dec. 9	1311	280	101	2124
Safe or lock-box. Wall-	H. C. Lowrie	711,326	Oct. 14	1793	388	101	388
Safe or vault.	J. Paton	713,142	Nov. 11	1280	990	101	1177
Safe or vault door	H. D. Hibbard	708,041	Sept. 2	86	20	99	1491
Safe or vault door	H. D. Hibbard	713,870	Nov. 18	2735	609	101	1491
Safe or vault plate-fastening	H. D. Hibbard	713,880	Nov. 18	2733	609	101	1492
Safe or vault plate-fastening	H. D. Hibbard	713,881	Nov. 18	2735	609	101	1493
Safe. Screw-door	J. B. Boos	695,191	Mar. 11	1629	362	98	2074
Safe. Screw-door	J. B. Boos	708,991	Sept. 16	1859	427	100	2392
Safety appliance.	H. P. Suman	699,035	Apr. 29	5008	1108 1109	99	1128
Safety-box	M. Klein	704,549	July 15	2230	483	100	482
Safety-clamp	C. E. Treadwell	713,337	Nov. 11	2003	468	101	1343
Safety device	A. Sundh	704,398	July 8	1925	417	100	405
Safety-elevator	P. H. Burgart	710,038	Sept. 30	3957	892	100	2855
Safety-hook	A. M. J. Novella	712,065	Oct. 28	3283	719	101	728
Safety-knife	W. C. Heimerdinger	712,792	Nov. 4	610	140	101	1024
Safety-pin	M. Berube	694,238	Feb. 25	3846	853	98	1649
Safety-pin	G. W. Light	702,308	June 10	1826	417	99	2501
Safety-pin	G. Boden	702,916	June 24	2991	689	99	2781
Safety-pin	G. Boden	702,917	June 24	2993	689	99	2781
Safety-pin	E. S. Ingraham	702,953	June 24	3078	708	99	2794
Safety-pin	E. McConnell	703,965	July 1	1099	237	100	218
Safety-pin	W. F. Baldwin	709,860	Sept. 30	3588	808	100	2779
Safety pin	M. G. Lippincott	712,819	Nov. 4	666	153	101	1034
Safety-pin	J. Hancock	716,888	Dec. 30	4467	908	101	2843
Sail for marine vessels.	R. Lundquist	700,520	May 20	2762	632	99	1776
Sail-hank	J. M. Into	712,303	Oct. 28	3660	799	101	804
Sails. Shifting top-	A. Keegan	701,571	June 3	523	115	99	2216
Sales-recording system	M. A. Stone	716,956	Dec. 30	4602	956	101	2870
Sales-register	W. F. A. Tottleben	713,926	Nov. 18	2835	630	101	1514
Sales-slip and blank therefor	S. and S. R. Shoup	701,407	June 3	218	49	99	2152
Salt-lake of salicyl quinlin, &c	H. Thacker	698,079	Apr. 22	3161	717	99	717
Salt and making same. Triple	E. Courant	693,378	Feb. 18	2201	98	98	1298
Salt-cellar	C. W. Morris	692,466	Feb. 4	429	101	98	887
Salt cellar or dredge	E. J. Gilmore	693,005	Feb. 11	1451	315	98	1124
Salt-making apparatus	J. S. Clarke	705,381	July 22	3953	856 857	100	849
Salt or feed for cattle. Device for holding blocks of compressed	H. A. Michelson	711,170	Oct. 14	1493	522	101	325
Salt-shaker granulating attachment	J. A. Moller, Jr.	700,534	May 20	2786	637	99	1780
Salts. Treating solutions of	C. J. Reed	699,414	May 6	549	126	99	1287
Salter. Stock-	J. L. McHenry and S. Wilson	716,743	Dec. 23	4071	891	101	2733
Salting-machine	J. W. Gheen	713,425	Nov. 11	1854	419	101	1295
Sample and ticket holder. Dry-goods	C. H. Smith and E. Jones	714,249	Nov. 25	3492	759	101	1670
Sample case and exhibitor.	S. M. Wiscel	701,658	June 3	688	152	99	2252
Sample-case. Folding	C. S. Morris	708,489	Sept. 2	885	200	100	2161
Sample-rack. Portable	G. J. Hasely	713,636	Nov. 18	2283	508	101	1397
Sample-register	P. Olsson	695,832	Mar. 18	2791	636	98	2329
Sand and producing same. Artificial	J. A. Shinn	707,170	Aug. 19	2241	501	100	1610
Sand-blast	R. C. Newhouse	699,405	May 6	530	122	99	1284
Sand-blast apparatus	A. G. Warren	707,527	Aug. 19	2909	656	100	1747
Sand-blast apparatus	T. A. Sippel	709,181	Sept. 16	2258	513	100	2474
Sand-blast-controlling apparatus	J. Shaver	709,448	Sept. 16	2788	627	100	2588
Sand-blast machine.	F. J. Heideger	708,880	Sept. 9	1638	377	100	2329
Sand-blasting apparatus.	M. E. Evans	699,898	May 13	1374	318	99	1471
Sand-box	J. L. Chedell and E. V. Scott.	703,112	June 24	3378	776	99	2855
Sand-carriage. Self-strewing	C. A. Green and H. E. Larsson	716,409	Dec. 23	3429	748	101	2597
Sand-dischargers. Compressed-air controlling device for	J. Farley	696,730	Apr. 1	633	143	99	137
Sand-drier	C. Lindstrom	692,791	Feb. 4	1017	230	98	1005
Sand-drier	N. Q. Speer	695,004	Mar. 11	1283	282 283	98	2001
Sand-drier	J. A. Mumford	696,580	Apr. 1	335	80	99	74
Sand-drier	W. and H. Merriman	711,328	Oct. 14	1796	369	101	389
Sand drying and heating apparatus	T. H. McElheny	716,462	Dec. 23	3538	773	101	2620
Sand-flue and netting cleaner. Pneumatic	R. W. Gibson and W. N. Best	710,855	Oct. 7	878	191	101	178
Sand scoop and elevator.	I. Bush	713,302	Nov. 11	1396	314	101	1200



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Sand-screen	S. W. Dow	697,076	Apr. 8	1328	294	99	801
Sand-sprinkling machine	C. F. O'Neil	699,004	Apr. 29	4959	1048	99	1119
Sand-valve mechanism	M. P. McLaughlin	713,910	Nov. 18	2801	622	101	1507
Sander	S. T. Simmons and W. T. Moore	708,929	Sept. 9	1722	396	100	2347
Sanding and polishing machine	D. T. Clemons	699,368	May 6	449	104	99	1266
Sanding-machine	O. S. Hammond	701,877	June 10	1061	239	99	2345
Sanding-machine	E. B. Hayes	714,899	Dec. 2	523	109	101	1940
Sanding-machine	E. B. Hayes	715,204	Dec. 2	1064	111	101	2054
Sandpaper-holder	A. Shurick	714,247	Nov. 25	3489	708	101	1669
Sandpapering-machine	F. Hopkins	698,501	Apr. 29	3934	870	99	806
Sandpapering-machine	C. H. Driver	704,785	July 15	2681	509	100	1004
Sandpapering-machine	J. A. Halden	705,232	July 22	3627	786	100	784
Sandal	J. F. Fink	698,912	Apr. 23	3622	1063	99	1564
Sanitary receptacle and cesspool	J. F. McCoy and T. N. Gilmore	702,811	June 17	2801	644	99	2727
Sanitary toilet-sheet	E. F. Lankenau	711,981	Oct. 28	3083	676	101	690
Sanitary trap	A. S. Newton	698,217	Apr. 23	3444	756	99	780
Sap-bucket cover	F. W. Gunn	716,887	Dec. 30	4465	968	101	2843
Sap-bucket cover	M. V. B. Ives	717,005	Dec. 30	4700	1019	101	2801
Sap-spout	D. Rudd	695,841	Mar. 18	2804	639	98	2332
Sash adjuster and lock	F. W. G. Boettcher	708,512	Apr. 27	3442	566	100	2173
Sash attachment. Window	L. Seibert	710,811	Oct. 7	803	173	101	184
Sash-balance	G. B. Pickop and W. R. Corbin	700,814	May 27	3341	767	99	1914
Sash-balance	J. Barrow	706,008	Aug. 5	10	3	100	1118
Sash-balance and fastener	F. J. Lowery and F. E. Billings	714,720	Dec. 2	133	27	101	1864
Sash-balance connection	A. Weingaertner	704,225	July 8	1607	348	100	336
Sash-bar for greenhouses, &c	P. M. Pierson	697,746	Apr. 15	2537	565	99	568
Sash-bar for greenhouses, &c	P. M. Pierson	697,747	Apr. 15	2540	566	99	569
Sash-cord fastener	F. Barrou	700,192	May 20	2312	526	99	1640
Sash-cord fastener	E. L. Blackman	702,395	June 17	2006	457	99	2557
Sash-fastener	J. A. Kemp	690,440	Jan. 7	104	22	98	24
Sash-fastener	E. A. Bronson	692,047	Jan. 25	3178	717	98	709
Sash-fastener	C. M. Zirkle	692,100	Jan. 28	3277	741	98	729
Sash-fastener	W. W. Battles	694,234	Feb. 25	3842	851	98	1648
Sash-fastener	W. Carriek	694,612	Mar. 4	534	116	98	1827
Sash-fastener	A. C. Hendricks	694,856	Mar. 4	990	221	98	1924
Sash-fastener	W. B. Abrams	695,203	Mar. 11	1768	391	98	2102
Sash-fastener	B. Murphy	695,327	Mar. 11	1883	419	98	2123
Sash-fastener	J. G. Thompson	698,339	Apr. 22	3638	805	99	819
Sash-fastener	J. F. and N. N. Neher	699,223	May 6	162	40	99	1208
Sash-fastener	J. W. Lyon	699,334	May 6	387	90	99	1253
Sash-fastener	J. H. Scrivens	699,580	May 6	860	201	99	1352
Sash-fastener	R. Williams	701,228	May 27	942	946	99	2171
Sash-fastener	R. D. Logan	702,806	June 17	2793	642	99	2721
Sash-fastener	C. A. Goodsell	702,940	June 24	3051	702	99	2700
Sash-fastener	A. Brauer	704,433	July 8	1980	431	100	417
Sash-fastener	W. Rundell	704,580	July 15	2278	494	100	492
Sash-fastener	J. C. Loder	705,260	July 22	3904	801	100	796
Sash-fastener	W. H. Nelson	705,282	July 22	3728	810	100	808
Sash-fastener	J. B. Gibbs	708,148	Sept. 16	2179	466	100	749
Sash-fastener	J. B. Letourneau	710,590	Oct. 7	375	78, 79	101	75
Sash-fastener	S. D. Samson	710,896	Oct. 7	940	206	101	191
Sash-fastener	E. A. Sacket, J. C. Anderson, and G. P. Betts	711,348	Oct. 14	1839	399	101	398
Sash-fastener	J. A. Johnson	712,306	Oct. 28	3663	800	101	805
Sash-fastener	E. M. Comstock	713,857	Nov. 18	2690	600	101	1483
Sash fastener and lift	J. W. G. Alford and B. C. Martin	715,531	Dec. 9	1675	366	101	2195
Sash-fastener and shade-support. Combined	E. A. Sacket	706,456	Aug. 5	920	199	100	1302
Sash fastener. Detachable window	A. L. Darr	702,089	June 10	1464	329	99	2427
Sash fastener or holder	J. W. Cade	702,774	June 17	2730	626	99	2708
Sash fastener. Storm	C. Mauldin	692,025	Jan. 28	3131	705	98	700
Sash fastener. Storm	E. C. Quimby	700,706	May 20	3103	705	99	1850
Sash-holder	R. B. Maloon	692,532	Feb. 4	564	132	98	913
Sash-holder	E. N. Gray	700,324	May 20	2383	543	99	1697
Sash-holder	W. M. Reely	703,820	July 1	839	185	100	168
Sash-holder	B. D. Berry	703,880	July 1	946	207	100	190
Sash-holder	H. Flanders	714,569	Nov. 25	4072	901	101	1786
Sash-lock	G. W. Anderson	694,816	Mar. 4	917	205	98	1906
Sash-lock	H. H. Kendrick	695,734	Mar. 18	268	532	98	2073
Sash-lock	D. Hoyt	696,819	Apr. 7	799	182	99	160
Sash-lock	H. H. Goucher	697,837	Apr. 15	2699	599	99	604
Sash-lock	W. Scharnweber	698,742	Apr. 29	4152	983	99	1008
Sash-lock	J. H. Thornton	701,966	June 10	1223	278	99	2380
Sash-lock	H. A. Baker	703,634	July 1	467	106	100	92
Sash-lock	A. M. Southard	703,976	July 1	1117	242	100	221
Sash-lock	J. A. Espittaller	704,014	July 8	1180	258	100	232
Sash-lock	C. Stimpson	704,273	July 8	1705	372	100	358
Sash-lock	V. R. McBride	706,845	Aug. 12	1643	367	100	1471
Sash-lock	N. M. Hutton	706,947	Aug. 12	1818	407	100	1505
Sash-lock	E. A. Patterson	707,940	Aug. 26	3781	848	100	1941
Sash-lock	E. P. Armstrong	708,611	Sept. 9	1067	246	100	2214
Sash-lock	J. T. Pethick	708,919	Sept. 9	1708	394	100	2344
Sash-lock	W. Bennett	709,591	Sept. 23	3093	680	100	2664
Sash-lock	D. Forbes	710,189	Sept. 30	4261	961	100	2919
Sash-lock	H. J. Lomb	717,424	Dec. 30	5487	1190	101	3059
Sash lock and adjuster. Window	L. Petraccone	711,258	Oct. 14	1659	357	101	390
Sash lock and lift	T. Berquist	691,348	Jan. 21	1873	422	98	424
Sash lock and lift	R. H. Price	703,465	July 1	165	38	100	35
Sash lock and lift	C. W. Robison	708,406	Sept. 2	733	165	100	2190
Sash-lock. Automatic	F. George	690,557	Apr. 1	296	70	99	67

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Sash-lock, Automatic	S. G. Wellman	714,343	Nov. 25	3667	808	101	1704
Sash-locking mechanism	J. A. Brooks and E. E. Whittaker	702,700	June 17	2585	595	99	2678
Sash. Metal window.	H. C. Smith	696,110	Mar. 25	3333	751	98	2456
Sash ratchet and pivot. Combined	J. G. Linkert	695,161	Mar. 11	1585	852	98	2065
Sash. Revolving window.	A. Weingaertner	696,287	Mar. 25	3677	823	98	2527
Sash. Revolving window.	C. D. Tabor	696,516	Apr. 1	215	50, 51	99	50
Sash. Revolving window.	W. E., W. H., and D. O. Ogden	716,575	Dec. 23	3771	820	101	2670
Sash stop and fastener	J. O'Donnell	696,073	Mar. 25	3243	734	98	2436
Sash support and lock	J. W. Shatto	710,730	Oct. 7	616	129	101	126
Sash-supporter	E. A. Bronson	692,048	Jan. 28	3178	717	98	709
Sash-tightening device	C. B. Foote, Jr.	697,939	Apr. 15	3889	637	99	644
Sash ventilator. Window.	J. Jacobs	700,935	May 27	3565	820	99	1959
Sash-weight	J. D. Ansley	705,992	July 29	5131	1119	100	1099
Sash-weight	G. A. Beckwith and C. L. Lamphere	707,197	Aug. 19	2245	513	100	1623
Sash-weights. Flask for making seamless	A. S. Hodges	709,708	Sept. 23	3421	731	100	2780
Sash. Window.	B. Barnum	698,168	Apr. 22	3343	732	99	757
Sash. Window.	E. Héroux.	707,106	Aug. 19	2118	473	100	1584
Sash. Window.	C. D. Tabor	716,594	Dec. 23	3812	827	101	2679
Sashes. Automatic releasing device for window.	C. Rupp	709,800	Sept. 23	3487	786	100	2743
Satchel. Folding	J. H. 802	711,802	Oct. 21	2707	538	101	121
Sausagepan	R. B. Vanderburg	694,807	Mar. 4	904	201	98	1903
Sauer-kraut. &c. Follower for packing	I. I. Newfield	691,479	Jan. 21	2108	473	98	473
Sausage filling and linking machine	J. A. Biberfeld	715,949	Dec. 16	2513	553	101	2393
Sausage-mills. &c. Base for.	C. W. Lieblich	717,226	Dec. 30	5143	1115	101	2387
Saw	L. R. Sosna	690,785	Jan. 7	812	179	98	171
Saw	R. E. Poindexter	693,312	Feb. 11	2973	451	98	171
Saw	R. E. Martin	704,838	July 15	2841	615	100	609
Saw	J. Tutterrow	708,273	Sept. 2	516	117	100	2086
Saw	W. G. Anderson	709,857	Sept. 30	3585	808	100	2779
Saw adapted especially for felling trees and cutting them up.	A. Perez	696,265	Mar. 25	3644	814	98	2519
Saw attachment. Gang.	J. E. Duchanois	704,787	July 15	2635	570	100	565
Sawbuck	J. J. Inceles and C. W. Stanton	691,638	Jan. 21	2938	538	98	532
Saw. Butcher's	G. Meyer	707,396	June 3	151	32	99	2139
Saw. Circular.	B. Leitmayr	697,857	Apr. 15	2739	607	99	614
Saw. Circular hand.	M. V. Grogan	711,207	Oct. 14	1580	339	101	343
Saw-clamp	A. T. Binkerd	694,718	Mar. 4	729	161	98	1866
Saw-clamp	W. I. Kirk	701,897	June 10	1095	249	99	2353
Saw-clamp	A. J. Jaeger	705,930	July 29	5025	1035	100	1077
Saw-clamp	J. H. 745	711,745	Oct. 21	2900	572	101	872
Saw-clamp	M. D. Converse	716,385	Dec. 23	3381	733	101	2586
Saw. Compass.	J. F. Carey	703,334	June 24	3772	868	99	2937
Saw. Crosscut.	C. W. Eccleston	717,363	Dec. 30	5371	1167	101	3036
Saw. Double-acting	G. R. Peart	706,447	Aug. 5	908	196	100	1299
Saw. Double-cutting band.	E. E. Thomas	690,678	Jan. 7	859	128	98	126
Saw. Drag.	C. A. Benjamin	713,945	Nov. 18	2873	637	101	1521
Saw filing and setting device	H. D. Sharp	717,078	Oct. 14	1310	283	101	285
Saw-filing device	L. M. Miller	699,206	May 6	138	35	99	1204
Saw-filing device.	J. H. L. and G. A. W. Folkers	701,700	June 3	761	169	99	2267
Saw-filing device.	A. J. Beck	705,899	July 29	4967	1081	100	1065
Saw-filing machine.	H. F. Noyes	693,985	Feb. 25	3385	744	98	1557
Saw-frame. Butcher's	D. S. Cole	704,517	July 15	2167	469	100	470
Saw-guard	W. B. Bennett	713,196	Nov. 11	1387	312	101	1198
Saw-guide	J. W. Manering	691,399	Jan. 21	1975	442	98	446
Saw-guide	C. R. Van Horn	694,337	Feb. 25	4107	914	98	1695
Saw-guide	C. R. Van Horn	694,338	Feb. 25	4109	914	98	1696
Saw-guide.	T. Prentice	703,085	June 24	3336	767	99	2848
Saw guide and tension device. Band.	A. Gillarduzzi	697,711	Apr. 15	2481	554	99	556
Saw guide. Band.	C. Ryan	716,763	Dec. 23	4105	900	101	2741
Saw. Hand.	G. C. Buell	691,237	Jan. 14	1618	369	98	833
Saw-handle.	W. R. Hawkins	695,392	Mar. 11	1988	445	98	2147
Saw-handle	J. Chambers	712,452	Oct. 28	3941	862	101	865
Saw-handle.	M. D. Converse	716,521	Dec. 23	3656	798	101	2644
Saw-handle clamp	J. A. Hale	698,936	Apr. 29	4850	1070	99	1097
Saw-handle. Detachable	E. L. Laherty	694,555	Mar. 4	430	93	98	1803
Saw-handle. Detachable	W. H. Stiles	710,904	Oct. 7	3523	329	101	124
Saw-handle fastening	H. E. Herrick	701,201	May 27	4044	929	99	2062
Saw-holding device	J. H. Miner	712,708	Nov. 4	436	102	101	987
Saw jointer and gage	C. McDonner	703,348	June 24	3813	876	99	2945
Saw jointer and gage. Combined	D. W. Solomon	690,668	Jan. 7	576	125	98	123
Saw log-carriage offset	S. Erb	709,590	Sept. 30	3684	830	100	2797
Saw-mandrel	J. B. Reichenbach	692,349	Feb. 4	233	55	98	847
Sawmill and planer	E. E. Willard	700,870	May 27	3441	790	99	1934
Saw mill. Band.	R. F. Barker	716,169	Dec. 16	2940	615	101	2481
Sawmill-carriage steam-feed	E. E. Thomas	708,598	Sept. 9	1066	242	100	2208
Sawmill-carriages. Means for automatically controlling	E. E. Thomas and J. E. Lockwood	693,629	Feb. 18	2690	594	98	1398
Sawmill-carriages. Offset mechanism for	J. J. Galvay	706,311	Aug. 5	690	136	100	1241
Sawmill-dog	D. L. Cole	705,039	July 22	3196	690	100	697
Sawmill-feed	A. C. Osborn	706,339	Aug. 5	671	146	100	1251
Sawmill feed-works	S. Edwards	714,879	Dec. 2	489	103	101	1994
Sawmill-knee indicator	J. D. Beatty	710,238	Sept. 30	4356	979	100	2941
Sawmill log-reflector.	W. T. S. Diggins	709,627	Sept. 23	3152	702	100	2675
Sawmill lumber-conveyer	E. E. Thomas	694,696	Mar. 4	693	151	98	1857
Sawmill. Portable	E. Carney	695,194	Mar. 11	1639	364	98	2076



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Sawmill set-works	M. F. Johnston	692,297	Feb. 4	139	33	98	827
Sawmill set-works	J. Walton	707,370	Aug. 19	2673	589	100	1686
Sawmill set-works	J. Walto	714,269	Nov. 25	3555	777	101	1680
Sawmill steam set-works	D. C. Prescott	708,629	Sept. 9	1587	352	100	2998
Saw mills. Guide-operating means for band-	E. E. Thomas.	694,697	Mar. 4	605	151	98	1838
Sawmills. Haul-up-chain unloader for	E. E. Thomas.	690,677	Jan. 7	588	127	98	125
Sawmills. Reciprocating lumber-mover for	E. E. Thomas.	690,679	Jan. 7	590	128	98	126
Sawmills. Steam set-works for	R. F. Barker and M. Corry	698,243	Apr. 22	3488	768	99	798
Saw. Power-driven	W. D. Lloyd	709,786	Sept. 23	3455	777	100	2738
Saw-protecting hood.	A. Bourgeat	698,363	Apr. 22	3687	813	99	829
Saw. Pruning.	G. R. Tyler	698,764	Apr. 29	4491	992	99	1017
Saw. Railway cut-off	B. G. Luther	714,314	Nov. 25	3620	1797	101	1696
Saw-repairing machine	W. Travis	708,720	July 29	4655	1000	100	1001
Saw-set.	L. H. Price	691,072	Jan. 14	1330	300	98	202
Saw-set.	J. G. Baker	692,225	Feb. 4	3	1	98	799
Saw-set.	J. G. Baker	692,226	Feb. 4	5	1	98	800
Saw-set.	M. N. Du Bois	694,142	Feb. 25	3665	810	98	1614
Saw-set.	C. A. Baggs and A. B. Cummin	695,135	Mar. 11	1545	342	98	2066
Saw-set.	R. E. Poindexter	697,882	Apr. 15	2768	617	99	625
Saw-set.	C. Morrill	703,440	July 1	131	30	100	29
Saw-set.	D. W. Solomon	708,865	Aug. 12	1678	376	100	1477
Saw-set.	H. E. Vick	708,100	Sept. 2	184	44	100	2019
Saw-set.	A. M. Giles	708,762	Sept. 9	1385	317	100	2276
Saw-set.	O. R. Johnson	711,401	Oct. 14	1926	419	101	416
Saw set, gage, swage, and jointer. Combined	A. B. Edmonds	693,504	Feb. 18	2440	534	98	1348
Saw-setting machine	J. Houf	693,970	Feb. 25	3342	734	98	1548
Saw-setting machine	J. E. Hillstrom	709,013	Sept. 16	1916	440	100	2403
Saw-setting machine	C. Young	712,229	Oct. 28	3534	774	101	778
Saw-sharpener.	N. Kall	692,301	Jan. 28	3444	779	98	765
Saw-sharpening device	O. E. Peiseler	702,150	June 10	1560	354	99	2448
Saw-sharpening machine	R. P. Phelps	693,667	Feb. 18	2756	608	98	1412
Saw-shipping case	E. H. Taylor	716,785	Dec. 23	4154	911	101	3751
Saw slabbing-machine. Twin-	E. E. Thomas.	707,184	Aug. 19	2369	508	100	1616
Saw-spacing device	F. Yost	708,450	Sept. 2	809	185	100	2145
Saw straightening and tensioning hammer	A. O. Patenaude, C. J. and J. A. Anderson.	693,060	Feb. 11	1551	338	98	1145
Saw-tool	E. L. Post	712,846	Nov. 4	722	166	101	1046
Saw-tooth gage	R. E. Poindexter	697,883	Apr. 15	2769	617	99	625
Saw-tooth holder.	H. A. Tracy	716,963	Dec. 30	4614	1000	101	2873
Saw-tooth. Inserted.	E. H. Steedman	692,490	Feb. 4	469	109	98	834
Saw-tooth tool	T. Olsen	709,355	Sept. 16	2587	583	100	2546
Saw-tooth wrench	G. H. Shellabarger	705,454	July 22	4085	888	100	877
Saw. Wabbling	J. A. Peoples	710,094	Dec. 16	2802	617	101	2454
Saw wheel. Band.	T. S. Wilkin	695,257	Mar. 11	1756	380	98	2069
Saw wheel. Band.	T. S. Wilkin	708,850	Sept. 9	1532	360	100	2317
Saw. Wood-	W. H. Pence	702,884	June 17	2929	675	99	2749
Sawing apparatus	J. A. Brines	710,838	Oct. 7	845	184	101	172
Sawing crooked timber. Timber-drag for	P. M. Qvarnström	705,442	July 22	4063	881	100	873
Sawing, jointing, and boring machine	C. E. Sandstrom	701,623	June 3	615	136	99	2237
Sawing-machine	E. G. Herbert	691,139	Jan. 14	1436	326	98	314
Sawing-machine	W. W. and F. N. Trevor	696,119	Mar. 25	3351	756	98	2460
Sawing-machine	G. C. Knapp	697,497	Apr. 15	2063	461	99	476
Sawing-machine	F. J. Pahls	701,390	June 3	174	37	99	2143
Sawing-machine	P. P. Batte	704,170	July 8	1512	321	100	318
Sawing-machine attachment	J. N. Graham	715,054	Dec. 2	782	196	101	1994
Sawing-machine. Automatic cut-off	W. M. Dwight	702,360	June 10	1990	440	99	2521
Sawing machine. Circular	W. Miller	706,770	Aug. 12	1500	332	100	1439
Sawing machine. Circular	H. J. Colburn	707,675	Aug. 26	3219	722	100	1830
Sawing-machine. Electric	C. Partington	700,980	May 27	3632	834	99	1972
Sawing-machine. Gang-edger	A. E. Roe	702,592	June 17	2389	545	99	2637
Sawing machine. Miter-	S. R. Owen	692,699	Feb. 4	859	196	98	975
Scaffold	J. Boardman	702,914	June 24	2969	688	99	2780
Scaffold	A. L. and E. D. Stiles	713,358	Nov. 11	1744	393	101	1271
Scaffold and fire-escape. Combined window-	H. R. Cole	717,352	Dec. 30	5351	1193	101	3032
Scaffold-bracket	W. E. Arnold	694,230	Feb. 25	3836	850	98	1647
Scaffold-bracket	F. Haas	710,861	Oct. 7	887	193	101	180
Scaffold-chair	L. W. Niendorff	710,602	Oct. 7	391	83	101	78
Scaffold-horse	J. S. Tiley	714,761	Dec. 2	217	43	101	1881
Scaffold. Painter's or decorator's	E. A. Carman	711,384	Oct. 14	1830	414	101	411
Scaffold. Paper-hanging.	W. H. Root	714,520	Nov. 25	3983	882	101	1765
Scaffold. Portable	E. Chartrand	697,447	Apr. 15	2005	442	99	461
Scaffold-splicer	J. Lally	704,884	July 15	2826	611	100	605
Scaffold-support	E. Jolliffe	713,308	Nov. 11	1657	372	101	1252
Scaffold-support	W. J. Le Bret	715,590	Dec. 9	1788	397	101	2218
Scaffolding	F. M. David.	714,101	Nov. 18	3179	703	101	1587

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Scale	C. G. Strubler	690,480	Jan. 7	200	40	98	44
Scale	J. S. Cortelyou	691,750	Jan. 28	2636	590	98	601
Scale	L. Botz	692,820	Feb. 11	1072	241	98	1043
Scale	C. G. Strubler	700,254	May 20	2231	510	99	1668
Scale	H. B. Osgood, Jr.	701,273	May 27	4177	959	99	2086
Scale	A. De Vilbiss, Jr. (Reissue)	12,029	Sept. 9	1832	492	100	2369
Scale	J. A. Heydrick	713,097	Nov. 11	1202	275	101	1161
Scale and penholder combined	P. F. M. Burrows	698,370	Apr. 22	3700	817	99	832
Scale attachment	W. D. Evans and J. T. Marshall	703,244	June 24	3627	833	99	2905
Scale. Automatic computing	W. F. Hummer	694,647	Mar. 4	591	130	98	1838
Scale. Automatic grain	A. P. MacDonald	717,426	Dec. 30	5490	1191	101	3059
Scale. Automatic weighing	N. Nilson	702,463	June 17	2140	487	99	2586
Scale. Automatic weighing	C. L. Bond	711,934	Oct. 28	2984	656	101	671
Scale. Color	C. J. Jorgensen	709,328	Sept. 16	2541	572	100	2535
Scale. Computing	M. A. Dees	693,843	Feb. 25	3086	683	98	1498
Scale. Computing	F. E. Mefford	697,098	Apr. 8	1362	302	99	309
Scale. Computing	F. C. Osborn	698,048	Apr. 22	3093	681	99	705
Scale. Computing	A. B. Hayden	700,919	May 27	3532	810	99	1952
Scale. Computing	A. B. Hayden	700,920	May 27	3535	811	99	1953
Scale. Computing	C. T. Tipton	704,668	July 15	2420	523	100	522
Scale. Computing	W. F. Stimson	715,172	Dec. 2	999	216	101	2040
Scale. Computing	E. Finn	716,211	Dec. 16	3044	694	101	2504
Scale computing-poise	M. F. Knox	693,523	Feb. 18	2476	549	98	1355
Scale. Computing spring	W. C. Whitney	713,265	Nov. 11	1541	348	101	1228
Scale. Draftsman's	R. J. Simpson	700,156	May 13	2007	460	99	1598
Scale for maltsters. Test	W. H. Prinz	694,781	Mar. 4	862	190	98	1894
Scale for railway mileage-books. Computing	J. G. Goldfoot	706,046	Aug. 5	85	18	100	1134
Scale. Garment	J. Nelson	717,253	Dec. 30	5187	1125	101	2997
Scale. Liquid	W. Buschmann	691,110	Jan. 14	1385	315	99	1303
Scale. Machinist's	G. E. Ayer	697,701	Apr. 15	2463	549	99	532
Scale. Measuring	H. Giles	714,172	Nov. 25	3348	737	101	1641
Scale-pivot bearing	G. A. N. Wahlen	695,973	Mar. 25	3043	690	98	2395
Scale. Platform	A. Doering	693,847	Feb. 25	3101	686	98	1501
Scale. Platform	A. Doering	703,392	July 1	55	10	100	14
Scale. Platform	J. S. Austin	714,555	Nov. 25	4051	896	101	1781
Scale platform-support	F. C. Osborn	710,003	Sept. 30	3900	880	100	2843
Scale. Price	M. A. Dees	693,842	Feb. 25	3080	679	98	1497
Scale. Price	L. T. Johnson	698,509	Apr. 29	3946	872	99	899
Scale. Price	L. T. Johnson	706,239	Aug. 5	456	97	100	1209
Scale. Price	H. B. Sherwood	706,460	Aug. 5	924	201	100	1303
Scale. Proportionate	G. E. Ayer	697,318	Apr. 8	1729	388	99	390
Scale. Slide	J. S. Merritt	703,437	July 1	125	28	100	27
Scale. Specific-gravity	R. J. Bogue	691,437	Jan. 21	2040	457	98	460
Scale. Spring	J. D. Smith	698,334	Apr. 22	3631	802	99	817
Scale. Spring-balance	J. L. Mauldin	702,020	June 10	1323	302	99	2297
Scale. Spring-balance computing	J. W. Culmer	702,927	June 24	3015	692	99	2784
Scale. Traveling-crane	F. W. Taylor and W. H. Sargent	716,309	Dec. 16	3216	703	101	2538
Scale. Vertical grain	P. B. Clarke	700,303	May 20	2340	531	99	1689
Scale. Weighing	O. O. Ozias	697,162	Apr. 8	1463	329	99	330
Scale. Weighing	G. Hoepner	716,544	Dec. 23	3711	808	101	2657
Scale. Weighing and price spring-balance	O. O. Ozias	708,393	Sept. 2	707	153	100	2125
Scales. Spring-balance	O. O. Ozias	708,392	Sept. 2	704	158	100	2124
Scales. Stock-rack for platform	C. B. Hurst	703,586	July 1	372	86	100	74
Scalper and bolter	G. R. Davidson	711,830	Oct. 21	2762	612	101	605
Scarecrow	A. C. Davis	697,072	Apr. 8	1318	291	99	298
Scarf. Waterproof	W. O. Chisholm	709,138	Sept. 16	2166	990	100	2457
Scener. Orace	F. T. Lippincott	704,703	July 15	2477	535	99	2069
School-bag	H. C. Robertson	701,224	May 27	4084	936	99	2069
Scissors-edge	F. C. Wolf	692,578	Feb. 4	634	149	98	928
Scissors or shears	D. McKenna	702,238	June 10	1718	388	99	2479
Scissors or shears	J. P. Jackson	711,503	Oct. 21	2125	461	101	471
Scoop	H. H. Hodell	690,522	Jan. 7	305	60	98	67
Scoop	P. W. Wolfe	695,359	Mar. 11	1930	430	98	2134
Scoop and scraper	R. E. Lee	706,886	Aug. 13	1622	354	100	1467
Scoop-board	M. W. Royenga	693,134	Feb. 11	1710	374	98	1176
Scoop. Measuring	L. M. Reed	704,931	July 15	2978	637	100	639
Scoop. Wheeled	J. J. Gylidenborg	713,982	Nov. 18	2946	653	101	1537
Score-board	J. D. Carter	700,738	May 27	3184	726	99	1882
Score-indicator	H. H. Norrington	710,993	Oct. 14	1123	247	101	247
Scorer. Rind	W. J. Riddick	699,815	May 13	1325	308	99	1460
Scoring-machines. Adjustable receiving-table for	C. W. Hobbs	705,988	July 29	5139	1121	100	1101
See Grain-scourer.							
Scow-unloading apparatus	J. W. Reno	716,105	Dec. 16	2829	622	101	2459
Scraper	D. E. Preston and W. H. Atkinson	695,231	Mar. 11	1714	380	98	2090
Scraper	A. Reich	698,138	Apr. 22	3287	720	99	744
Scraper and dumping device. Combined wheeled	M. Mead	710,592	Oct. 7	377	79	101	75
Scraper and scoop. Combined	S. M. Spangler	716,124	Dec. 16	2829	630	101	2460
Scraper and scoop. Wheeled	T. D. Radcliffe	707,977	Aug. 26	3846	864	100	1953
Scraper. Fork	J. S. Healea	716,229	Dec. 16	3076	671	101	2510
Scraper. Ground	P. E. Monnerat	717,013	Dec. 30	4713	1022	101	2894
Scraper holder. Cabinet	S. Dean	717,498	Dec. 30	5616	1219	101	3084
Scraper. Road	T. Wilson	700,594	May 20	2880	662	99	1800



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. K.	Vol.	Page.
Scraper. Roller.....	R. Clucas.....	702,868	June 17	2898	670	99	2744
Scraper. Rotary.....	R. H. McCaughy.....	712,838	Nov. 4	705	163	101	1013
Scraper. Wheeled.....	W. S. Livengood.....	694,560	Mar. 4	437	94	98	1805
Scraper. Wheeled.....	W. S. Livengood.....	694,561	Mar. 4	438	95	98	1806
Scraper. Wheeled.....	J. C. Stubbs.....	703,098	June 24	2359	771	99	2852
Scraper. Wheeled.....	T. D. Radcliffe.....	703,352	June 24	3818	877	99	2946
Scraper. Wheeled.....	W. S. Livengood.....	703,800	July 1	786	173	100	157
Scraper. Wheeled.....	T. D. Radcliffe.....	706,343	Aug. 5	680	147	100	1253
Scraper. Wheeled.....	J. C. Stubbs.....	711,365	Oct. 14	1866	407	101	404
Scraper. Wheeled dumping.....	V. D. Johnson.....	714,706	Dec. 2	106	20, 21	101	1859
Scrapers. Safety-catch for wheeled earth-screen.....	C. J. Whiting.....	706,706	Aug. 12	1354	301	130	1409
Screen.....							
See Adjustable screen. Paper-pulp screen.							
Burglar-alarm fly-screen. Photographic screen.							
Car-window roller-screen. Photographic-light screen.							
Fly-screen. Revolving screen.							
Folding screen. Roller-screen.							
Grain-screen. Sand-screen.							
Grain-cleaning screen. Well-tube sand-screen.							
Insect-screen. Window-screen.							
Screen.....	F. M. Kepler.....	692,455	Feb. 4	406	97	98	882
Screen.....	E. J. McCarty.....	696,250	Mar. 25	3618	809	98	2513
Screen.....	G. W. Cross.....	697,071	Apr. 8	1317	291	99	298
Screen.....	G. W. Cross, Jr.....	704,004	July 8	1173	256	100	249
Screen.....	H. L. Sanders.....	712,971	Nov. 4	956	222	101	1093
Screen.....	J. E. Duncan.....	715,767	Dec. 16	2126	476	101	2309
Screen and chute. Combined.....	G. Holmes.....	693,019	Feb. 11	1470	321	98	1128
Screen-frame Adjustable metallic.....	M. Messer.....	690,599	Jan. 7	450	96	98	96
Screen hanger and lock.....	B. F. Douglass.....	715,084	Dec. 2	752	159	101	1988
Screen-plate fastener.....	M. E. Wilkinson.....	695,522	Apr. 23	4612	502	99	1042
Screens, blinds, &c. Brace for.....	M. H. Stevens.....	710,622	Sept. 30	3391	888	100	2840
Screens. Means for hanging.....	C. Rowland.....	697,020	Apr. 8	1224	274	99	278
Screens. Means for hanging.....	C. Rowland.....	702,886	June 17	2932	676	99	2750
Screening crushed ores or other materials. Apparatus for.....	W. McDermott.....	697,353	Apr. 8	1792	402	99	401
Screw adjustment. Feed.....	J. Doney.....	697,332	Apr. 8	1760	394	99	394
Screw-bolts, &c. Apparatus for extracting.....	L. Senn.....	702,948	June 10	1188	271	99	2872
Screw-cap closure.....	H. J. S. Hall.....	707,320	Aug. 19	2525	568	100	1663
Screw clamp. Temper.....	P. H. Mack.....	696,829	Apr. 1	816	187	99	173
Screw-cutting die.....	C. J. Jackson.....	707,233	Aug. 19	2356	528	100	1635
Screw-cutting die-head.....	P. F. Maines.....	693,557	Feb. 13	2533	558	98	1367
Screw-cutting machine.....	D. Lake and E. W. Crellin.....	705,538	July 22	4295	929	100	917
Screw-cutting tool.....	J. J. Burke.....	699,446	May 6	605	133	99	1360
Screw-driver, &c.....	W. W. Fairchild.....	693,123	Feb. 11	1688	368	98	1171
Screw-driver.....	T. A. Farrell.....	694,848	Mar. 4	980	218	98	1921
Screw-driver.....	J. G. Gorham.....	697,836	Apr. 15	2698	599	99	604
Screw-driver.....	E. G. Rowlands.....	701,941	June 10	1176	268	99	2370
Screw-driver.....	J. D. Campbell and J. K. Gunn.....	703,638	July 1	473	108	100	93
Screw-driver.....	G. E. Gay.....	703,917	July 23	5903	1089	100	1072
Screw-driver.....	J. F. Larsen.....	704,602	Sept. 23	3116	694	100	1693
Screw-driver. Ratchet.....	I. E. Stump.....	699,773	May 13	1243	289	99	1442
Screw-driver. Ratchet.....	A. D. Leblanc.....	711,169	Oct. 14	1484	320	101	324
Screw-driving machine.....	E. Finn.....	710,676	Oct. 7	533	111	101	108
Screw guard. Set.....	D. W. Bender.....	702,865	June 17	2893	669	99	2743
Screw. Hand.....	C. H. Lindstrom and L. E. Christiansen.....	700,952	May 27	3587	825	99	1964
Screw. Jack.....	G. L. and S. W. M. Kollock.....	691,061	Jan. 14	1315	297	98	289
Screw-jack.....	C. P. Storrs.....	707,730	Aug. 26	3329	745	100	1833
Screw-machine.....	F. E. Wells.....	714,841	Dec. 2	387	83	101	1913
Screw-machine slotting mechanism.....	W. S. Davenport.....	703,121	June 24	3400	780	99	2860
Screw-making machine.....	F. Curtis.....	712,506	Nov. 4	73	19, 20	101	912
Screw or spiral cutting apparatus.....	H. C. Robinson.....	701,225	May 27	4084	940	99	2969
Screw-plate.....	W. F. Conant.....	698,430	Apr. 23	3296	840	99	570
Screw-plate.....	W. F. Conant.....	713,051	Nov. 11	1131	260	101	1145
Screw-press.....	L. M. Hosea.....	694,861	Mar. 4	1006	222	98	1925
Screw-press. Hand and power.....	E. A. Muller.....	693,980	Feb. 25	3377	742	98	1555
Screw-press. Power.....	H. J. Hinde.....	700,046	May 18	1775	411	99	1553
Screw protector. Set.....	T. F. Kelley.....	705,093	July 22	3311	719	100	720
Screw-shaving machine.....	W. L. Cheney.....	717,166	Dec. 30	5001	1086	101	2956
Screw. Spindle.....	W. S. Johnson.....	703,880	July 1	840	185	99	168
Screw. Take-down.....	T. C. Johnson.....	694,156	Feb. 25	3702	817	98	1621
Screw. Temper.....	G. F. Bell.....	700,610	May 20	2910	670	99	1806
Screw-thread-cutting tap.....	C. B. Blackburn and G. J. Porter.....	700,892	May 27	3479	798	99	1942
Screw threading and beading machine.....	A. P. Wolfe.....	716,162	Dec. 16	2994	643	101	2478
Screw-threading trenails, &c. Machine for.....	A. Collet.....	711,716	Oct. 21	2537	557	101	559
Screw-wrench.....	L. S. Starrett.....	716,303	Dec. 16	3204	701	101	2536
Scrubber and mop. Combined.....	C. J. Hunt.....	702,825	June 17	2912	629	99	2740
Scrubbing-machine.....	J. A. Nelson.....	695,479	Mar. 18	2131	480	98	2164
Sculpturing-machine.....	A. Bontempi.....	703,388	Sept. 16	2676	600	100	2564
Scutching or fiber-preparing machine.....	J. A. Lacôte.....	701,058	May 27	3790	888	99	2007
Scuttle, bucket, &c.....	E. M. Lockwood, Jr.....	706,074	Aug. 5	144	30	100	1146
Scuttle-covers. Means for operating and locking.....	E. F. Johnson.....	706,829	Aug. 12	1611	362	100	1464
Scythe-snath-bending machine.....	G. M. Fenn.....	695,295	Mar. 11	1835	592	98	2151
Scythe-snath-bending machine.....	G. M. Fenn.....	707,221	Aug. 19	2395	523	100	1631
Scythe-snath fastener.....	R. B. Edwards.....	711,538	Oct. 21	2298	486	101	495

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Seythe-snath-fastening device.	P. Forbes.	706,814	Aug. 19	1580	354	100	1456
Seythes. Machine for forming ribs on.	A. Heurtier.	703,202	June 24	3556	816	99	3891
Seal.	C. H. Mann.	698,301	Apr. 22	3584	790	99	808
Seal.	E. J. Brooks.	709,626	Sept. 23	3150	702	100	2675
Seal and die. Combined.	H. S. Maidhof.	703,072	June 24	3311	761	99	2842
Seal-applying machine. Bottle.	E. D. Schmitt.	697,280	Apr. 8	1674	374	99	376
Seal-applying machine. Bottle.	E. D. Schmitt.	697,281	Apr. 8	1677	374	99	377
Seal-applying machine. Bottle.	E. D. Schmitt.	697,282	Apr. 8	1679	375	99	377
Seal. Bottle.	E. D. Schmitt. (Reissue).	12,032	Sept. 16	2819	632	100	2596
Seal. Bottle.	E. D. Schmitt. (Reissue).	12,033	Sept. 16	2821	633	100	2596
Seal. Car.	W. D. Doremus.	691,716	Jan. 21	2537	568	98	563
Seal. Car.	C. S. Ellis.	692,836	Feb. 11	1100	246	98	1049
Seal. Car.	J. N. Brunner.	707,083	Aug. 19	2074	463	100	1574
Seal. Car.	H. H. Lienke.	715,822	Dec. 16	2242	500	101	2332
Seal. Cording.	E. J. Brooks.	704,673	July 15	2428	524	100	523
Seal. Dress-pattern.	J. Broach and G. W. Goodrich.	709,464	Sept. 23	2837	637	100	2600
Seal for jugs or bottles.	J. P. Dant.	695,709	Mar. 18	2563	580	98	2232
Seal for seal-locks.	J. W. Stevens.	695,418	Mar. 11	2028	455	98	2156
Seal. Jar-cover.	E. A. Marshall.	716,730	Dec. 23	4047	886	101	2729
Seal-lock.	T. S. Wheelwright.	695,513	Mar. 18	2188	494	98	2206
Seal-lock.	H. R. Thompson.	700,258	May 20	2326	511	99	1699
Seal-lock.	F. Brown.	700,298	May 20	2322	520	99	1686
Seal-lock.	J. H. T. Jones.	700,502	May 20	2731	624	99	1760
Seal-lock.	C. J. Reynolds.	704,107	July 8	1387	299	100	292
Seal-lock.	J. P. Kernbaum.	709,777	Sept. 23	3440	774	100	2734
Seal-lock.	E. Tyden.	712,021	Oct. 28	3156	690	101	705
Seal-lock.	G. B. Edgar.	712,275	Oct. 28	3611	788	101	794
Seal-lock.	W. H. Preston.	714,027	Nov. 18	3024	673	101	1554
Seal. Metallic.	F. G. Kossov.	701,579	June 3	541	118	99	2230
Seal-press.	A. B. Schofield.	691,079	Jan. 14	1339	302	98	294
Seal-press.	A. Krah.	693,612	Feb. 18	2656	586	98	1391
Seal. Self-locking.	E. Tyden.	710,634	Oct. 7	456	95	101	92
Seal. Shackle.	A. B. Schofield.	690,466	Jan. 7	152	32	98	34
Seal. Snap.	E. J. Brooks.	696,002	Mar. 25	3095	701	98	2406
Seal. Snap.	E. J. Brooks.	696,003	Mar. 25	3098	702	98	2406
Seal. Snap.	E. J. Brooks.	697,375	Apr. 8	1824	409	99	408
Seal. Snap.	E. J. Brooks.	712,250	Oct. 28	3567	780	101	785
Sealed jars. Exhausting and closing hermetically.	W. A. Lorenz and W. H. Honiss.	711,431	Oct. 14	1977	429	101	426
Sealed receptacle.	H. C. Osborn.	695,698	Mar. 18	2549	577	98	2279
Sealer and stamp-affixer. Automatic envelop.	L. Madas.	695,408	Mar. 11	2013	453	98	2152
Sealing apparatus. Jar.	W. H. Honiss.	711,210	Oct. 14	1582	340	101	343
Sealing apparatus. Jar.	W. H. Honiss.	711,211	Oct. 14	1584	340	101	344
Sealing apparatus. Jar.	W. H. Honiss.	711,212	Oct. 14	1586	340	101	344
Sealing apparatus. Jar.	W. A. Lorenz.	711,219	Oct. 14	1596	342	101	346
Sealing apparatus. Jar.	W. A. Lorenz.	711,220	Oct. 14	1597	342	101	346
Sealing apparatus. Jar.	B. Arkell.	711,413	Oct. 14	1943	423	101	419
Sealing apparatus. Jar.	W. A. Lorenz and W. H. Honiss.	711,432	Oct. 14	1979	430	101	427
Sealing attachment.	C. C. Armstrong.	704,493	July 15	2112	457	100	457
Sealing-cap for bottles. Sheet-metal.	N. B. Abbott.	704,167	July 8	1505	322	100	316
Sealing caps. Machine for producing bottle.	A. Jones.	697,489	Apr. 15	2069	458	99	474
Sealing device. Bottle.	L. Kalling.	697,491	Apr. 15	2075	460	99	475
Sealing device. Bottle.	G. A. Brooks.	703,530	July 1	1278	63	100	56
Sealing device. Can.	A. W. Livingston.	715,397	Dec. 9	1416	306	101	2145
Sealing device. Envelop.	A. Heydrich.	700,199	May 20	2112	484	99	1643
Sealing device. Vacuum fruit-jar.	S. Adlam.	708,191	Sept. 2	362	86	100	2055
Sealing implement.	H. W. Abbott.	702,351	June 10	1916	437	99	2518
Sealing-in machine.	A. Swan.	715,898	Dec. 16	2407	533	101	2369
Sealing machine. Bottle.	W. S. Dorman.	705,564	July 29	4965	946	100	945
Sealing machine. Bottle.	H. T. Gay.	707,916	Aug. 19	2516	566	100	1667
Sealing machine. Bottle.	H. T. Gay.	711,204	Oct. 14	1573	337	101	342
Sealing machine. Envelop.	A. Heydrich.	694,966	Mar. 11	1220	266	98	1988
Sealing machine. Envelop.	H. E. Gavitt.	709,761	Sept. 23	3404	764	100	2726
Sealing of tins, &c. Hermetic.	J. R. Croft.	708,868	Sept. 9	1614	369	100	2325
Sealing preserving-jars. Means for.	W. Walter.	714,539	Nov. 25	4023	890	101	1776
Sealing-wax can. Tin.	W. E. Moyer.	704,075	July 8	1317	287	100	276
Seam-dampener.	W. H. Rickey.	715,296	Dec. 9	1235	264	101	2108
Seam for sheet-metal vessels. Solderless side.	W. Thompson.	697,956	Apr. 15	2920	645	99	650
Seam for tin cans. End.	W. Thompson.	700,578	May 20	2853	655	99	1794
Seam for tin cans. Solderless end.	W. Thompson.	700,578	May 20	2851	654	99	1794
Seam for tin cans. &c. Solderless side.	W. Thompson.	697,955	Apr. 15	2919	644	99	650
Seam for tin cans. Solderless side.	W. Thompson.	700,575	May 20	2850	654	99	1794
Seam for tin cans. Solderless side.	W. Thompson.	700,577	May 20	2853	654	99	1794
Seam for uniting fabrics.	S. Arnold.	702,390	June 17	1998	456	99	2555
Seam. Lock-stitch.	E. E. Winkley and B. Phillips.	703,030	June 24	3216	749	99	2825
Seam or joint. Sheet-metal.	J. W. Mathis.	708,723	Sept. 9	1313	299	100	2260
Seam. Stitched.	G. H. Dimond.	704,467	Sept. 2	841	192	100	2152
Seam-stretcher.	J. A. Tessmer.	716,310	Dec. 16	3217	703	101	2538
Seams of sheet-metal can-bodies. Machine for automatically sweating or uniting without solder the side.	E. Norton and A. P. Kennedy.	693,804	Feb. 18	3000	663	98	1462
Seaming and edge-rolling machine. Combined double.	B. H. Larkin.	693,800	Feb. 18	2988	660	98	1460
Seaming machine. Automatic double.	E. Norton and J. G. Hodgson.	693,303	Feb. 11	2048	447	98	1245
Seaming machine. Double.	J. G. Hodgson.	693,135	Feb. 11	1712	374	98	1177
Seaming machine. Double.	A. P. Wolfe.	700,997	May 27	3667	872	99	1970



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Seaming machine. Side.	C. W. Sleeper	698,066	Apr. 22	3125	687 688	99	713
Seaming metal cans. Apparatus for side.	G. Wilcox	695,521	Mar. 18	2211	501	98	2212
Seaming metal cans. Side.	G. Wilcox	695,517	Mar. 18	2202	499	98	2210
Seaming metal sheets. Machine for double.	C. N. Brown	701,011	May 27	3708	849 850 851	99	1980
Seaming sheet-metal bodies. Machine for end.	W. J. Kenny	699,843	May 13	1388	320 321 322	99	1474
Seasickness. Device for preventing	W. Schmidt	713,806	Nov. 18	2585	578	101	1463
Seat:							
See Adjustable seat.	Portable seat.						
Car-seat.	Spring-seat.						
Child's seat.	Steel seat.						
Collapsible seat.	Vehicle-seat.						
Cultivator-seat.	Wagon-seat.						
Implement-seat.	Water-closet seat.						
Lawn-seat.	Window-seat.						
Seat	F. H. Janson	692,141	Jan. 28	3345	757 758	98	744
Seat	L. Janson	694,283	Feb. 25	3940	877	98	1669
Seat	E. B. Redington	715,147	Dec. 2	955	101	2031	
Seat-lock	J. W. Ranson	713,153	Nov. 11	1298	293	101	1181
Seat-spider.	H. W. Bolens	693,824	Feb. 25	3052	673	98	1492
Seat-spider.	H. W. Bolens	693,825	Feb. 25	3053	673	98	1492
Seating	F. S. Brooke	715,969	Dec. 16	2546	562	101	2399
Secondary battery	R. H. Hassler	696,171	Mar. 25	3466	776	98	2484
Secondary battery	W. Morrison	701,917	June 10	1132	259	99	2361
Secondary battery	J. B. Entz	704,739	July 15	2553	556	100	548
Secondary battery	E. G. Steinmetz	704,767	July 15	2601	563	100	558
Secondary battery	W. L. Silvey	709,611	Sept. 23	3126	696 697	100	2670
Secondary battery	R. Welford	713,186	Nov. 11	1371	309	101	1195
Secondary battery	W. Morrison	717,107	Dec. 30	4879		101	2930
Secondary battery	W. Morrison	717,108	Dec. 30	4880		101	2930
Secondary battery	I. Kisse	717,416	Dec. 30	5474	1187	101	3056
Sectional heater	J. G. Langdon	705,099	July 22	3327	723	100	723
Sectional tank	S. T. Playford	698,050	Apr. 22	3098	682	99	707
Seed-cake trimmer	S. J. Ellis and C. Neilsen	709,720	Sept. 23	3403	764	100	2725
Seed-cleaner and grain-separator	B. F. Hatfield	709,766	Sept. 23	3417	768	100	2729
Seed-cracking and disintegrating mechanism. Cotton.	J. C. W. Stanley	711,134	Oct. 14	1404	303	101	307
Seed delinter. Cotton.	J. M. Gardner	696,959	Apr. 8	1117	248	99	357
Seed-drill.	A. Chaplin	702,402	June 17	2018	460	99	2559
Seed-drill.	A. McWhorter	712,323	Oct. 28	3690	807	101	810
Seed-drill and cultivator. Combined hand.	H. K. and H. A. Bacon	697,191	Apr. 8	1519	339	99	342
Seed-drill and fertilizer-distributor. Combined	F. Bateman	715,633	Dec. 9	1853	411 412	101	2231
Seed-drill furrow opening and covering attachment.	L. C. Sweet	710,378	Sept. 30	4592	1036	100	2989
Seed-drill scraper	W. Stephenson	691,016	Jan. 14	1231	278	98	272
Seed-drill trash-cleaner	O. E. Johnston	715,812	Dec. 16	2226	495 496	101	2329
Seed-dropper	S. A. Loring	699,200	May 6	126	33	99	1201
Seed dropper and distributor. Combination	W. W. Pickorn	713,681	Nov. 18	2304	526	101	1413
Seed-gatherer.	J. Pence	709,036	Sept. 16	1965	450	100	2413
Seed, grain, or fertilizer drill	R. D. King	712,687	Nov. 4	413		101	983
Seed-hull-reducing apparatus	F. B. Pope	710,887	Oct. 7	924	202 203	101	188
Seed hulls. Treatment of cotton.	J. C. W. Stanley	702,681	June 17	2556	587	99	2672
Seed. Hulling cotton.	J. McFarlane and D. C. Reinohl	695,475	Mar. 18	2126	479	98	2194
Seed. Hulling cotton.	J. McFarlane	695,476	Mar. 18	2127	479	98	2194
Seed kernels from their hulls and lint. Means for separating cotton.	J. McFarlane and D. C. Reinohl	695,477	Mar. 18	2128	479	98	2194
Seed products. Manufacture of	F. B. Pope	699,010	Apr. 29	4969	1130	99	1121
Seed. Removing fiber from cotton	J. J. Green	695,305	Mar. 11	1856	413	98	2118
Seed separator and cleaner. Cotton.	W. O. Coleman	712,263	Oct. 28	3591	784	101	790
Seed. Treating beet.	A. R. Black	704,610	July 15	2325	505	100	501
Seeder	W. H. Smith	696,356	Mar. 25	8847	855	98	2561
Seeder	C. Moehring and W. Fetzer	700,966	May 27	3610	890	99	1968
Seeder	W. Stephenson	701,642	June 3	662	144 145	99	2247
Seeder.	W. Fetzer	710,852	Oct. 7	872	189	101	177
Seeder-adjusting device	W. Stephenson	701,641	June 3	660	144	99	2246
Seeder and cultivator tooth	E. O. Edwards	697,460	Apr. 15	2022	446	99	464
Seeder and fertilizer-distributor. Combined	L. D. Moore	711,996	Oct. 28	3109	681	101	695
Seeder fertilizer-distributor, and cultivator. Combined	A. Cravotto	703,238	June 24	3620	832 833 834	99	2904
Seeding and planting machine	R. D. Zimmermann	698,778	Apr. 29	4509	997	99	1021
Seeding-machine	W. T. M. Brunnemer	698,584	Feb. 18	2602	575 576	98	1380
Seeding-machine	V. Korejs and J. Khebl	693,722	Feb. 18	2856	629 630	98	1432
Seeding-machine	W. A. Van Brunt	695,509	Mar. 18	2183	498	98	2205
Seeding-machine	J. H. Samuels	702,486	June 17	2186	499	99	2595
Seeding-machine	E. M. Heylman	707,846	Aug. 26	3607	814	100	1906
Seeding-machine	F. E. Davis	709,472	Sept. 23	2854	641 642	100	2613
Seeding-machine	R. L. Rhea	710,119	Sept. 30	4123	930	100	2888
Seeding-machine	F. G. Colley	710,251	Sept. 30	4379	985	100	2945
Seeding-machine	J. S. Heath and E. Baseman	710,272	Sept. 30	4411	994	100	2932

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Seeding-machine	C. D. Pouille	717,268	Dec. 30	5209	1131	101	3001
Seeding-machine. Broadcast	C. N. E. Gray	713,300	Nov. 11	1643	369	101	1213
Seeding-machine furrow-opener	J. S. Heath and E. Baseman	711,626	Oct. 21	2362	518	101	521
Seeding-machine furrow-opener	E. Baseman	717,155	Dec. 30	4979	1080	101	2952
Seine-pursing apparatus	C. H. Gaffney	712,370	Oct. 28	3774	825	101	829
Seine-pursing machine	W. B. Lantz	696,874	Apr. 1	900	207	99	190
Seine-pursing machine	W. B. Lantz	697,150	Apr. 8	1443	323	99	327
Seine-pursing machine	W. B. Lantz	697,151	Apr. 8	1445	324	99	327
Selective system. Automatic	C. D. Ehret	707,056	Aug. 12	2012	450	100	1545
Selector	K. Himrod, J. R. Tucker, and C. C. Hinckley.	690,577	Jan. 7	399	82, 83	98	87
Self-acting brake	J. Fischer and H. Schneider	717,182	Dec. 30	5063	1098	101	2970
Self-closing gate	E. H. Carpenter	701,676	June 3	719	158	99	2259
Self-heating material	G. H. Chinnock	707,550	Aug. 26	2060	670	100	1777
Self-playing instrument	E. E. Flora	700,413	May 20	2351	584	99	1731
Self-sealing jar	J. S. Du Bois	712,049	Oct. 28	3200	701	101	712
Semaphore	A. C. Johnson	703,932	July 1	1023	221	100	204
Semaphore-signal. Automatic electric	J. N. Harper	704,323	July 8	1778	888	100	374
Semaphore-signal. Automatic electromechanical	J. J. McGill	706,586	Aug. 12	1137	251	100	1361
Sensitized material and making same	A. H. Mies, Jr. and A. Cobenzl	713,474	Nov. 11	1941	93	101	1348
Sensitized plates. Light-proof case for	A. A. Brooks and G. A. Watson	714,860	Dec. 2	434	93	101	1921
Separable ring	C. A. Kellogg	706,322	Aug. 5	644	140	100	1245
Separating and bolting machine	D. W. Marmon	696,831	Apr. 1	818	188	99	173
Separator.							
See Ammonia-separator.	Gas, oil, and water separator.						
Battery-separator.	Gold-separator.						
Bean-separator.	Grain-separator.						
Centrifugal separator.	Liquid-separator.						
Coal-separator.	Magnetic separator.						
Cream-separator.	Oil-separator.						
Egg-separator.	Ore-separator.						
Gas-separator.	Seed-separator.						
Gas and water separator.	Steam-separator.						
Gas and water separator.	Steam and oil separator.						
Separator	C. H. Scott	691,876	Jan. 28	2358	644	93	647
Separator	C. H. Scott	691,877	Jan. 28	2863	645	98	648
Separator	E. P. Waggoner	692,390	Feb. 4	299	73	98	861
Separator	R. W. Jessup	693,025	Feb. 11	1476	322	98	1130
Separator	R. W. Jessup	693,026	Feb. 11	1478	323	98	1130
Separator	E. C. Stabler	700,384	May 20	2503	573	99	1721
Separator	F. Cutler	704,241	July 8	1632	353	100	341
Separator	G. M. Jackson	707,701	Aug. 26	3273	731	100	1841
Separator	R. W. Jessup	710,981	Oct. 14	1095	242	101	239
Separator	R. W. Jessup	710,982	Oct. 14	1098	243	101	240
Separator	R. W. Jessup	710,983	Oct. 14	1100	243	101	241
Separator	C. W. A. Koelkebeck	714,381	Nov. 25	3734	823	101	1719
Separator-bowl cover	P. L. Kimball	692,526	Feb. 4	551	129	98	910
Separator for ore, coal, &c	J. N. Rice	694,420	Mar. 4	162	36, 37	98	1747
Separator-sieve	D. Lippy	692,682	Feb. 4	829	187	98	909
Set apparatus	L. B. Gurley	711,848	Oct. 21	2784	617	101	610
Setting instrument	L. Chamberlain	695,798	Mar. 18	2720	620	98	2315
Setting-tool	J. Kydd	693,406	Feb. 18	2254	493	99	1309
Settling-tank	R. D. Jackson	710,462	Oct. 7	116	26, 27	101	25
Settling-tank or decanting vessel	J. Randall	714,822	Dec. 2	335	73	10	1905
Sewage. Apparatus for the treatment of	A. J. Provost, Jr	699,345	May 6	409	94	99	1257
Sewage. Apparatus for use in the treatment of	H. B. Killon	714,801	Dec. 2	300	65, 66	101	1898
Sewage-disposal plant	G. H. Anderson, J. W. Stevens, and A. Lutz.	701,827	June 10	968	1215	99	2327
Sewage. Purifying.	L. Tralls	693,316	Feb. 11	2070	122	98	1250
Sewed articles. Covered seam for	C. McNeil	703,966	July 1	1100	237	100	218
Sewed articles. Seam for	J. L. Patterson	691,568	Jan. 21	2257	508	98	505
Sewed articles. Seam for	J. W. Smith	699,254	May 6	231	54	99	1221
Sewed articles. Seam for	C. McNeil	702,668	June 17	2526	578	99	2666
Sewed signature	W. G. TREVETTE	697,043	Apr. 8	1262	287	99	287
Sewed-wrap fabric	C. M. Brett	711,898	Oct. 21	336	124	101	1008
Sewer basin and trap	C. F. O'Neil	696,475	Apr. 1	150	36	99	37
Sewer catch-basin	W. J. Hough	699,176	May 6	86	22, 23	99	1193
Sewer catch-basin	E. Kelly	712,194	Oct. 28	3470	762	101	764
Sewer-cleaner	L. Dubois	713,077	Nov. 11	1158	267	101	1151
Sewer-inlet	W. H. Garrett and H. C. Pauly	693,511	Feb. 18	2452	538	98	1351
Sewer-pipe connection	F. W. Carlson	706,248	Aug. 5	596	130	100	1235
Sewer-pipes. Test trap or seal for	C. M. Brown	712,759	Nov. 4	336	124	101	1008
Sewer-trap	H. L. Behrens	692,418	Feb. 4	842	85	98	871
Sewer-trap	J. Crawford	698,460	Apr. 29	3872	855	99	883
Sewer-trap	J. Pratt	710,209	Sept. 30	4306	968	100	2930
Sewing and cutting machine. Buttonhole	F. W. Ostrom	692,309	Jan. 28	3465	783	98	769
Sewing and welt-beveling machine. Shoe	J. B. Hadaway	704,457	July 8	2093	441	100	429
Sewing and welt-beveling machine. Shoe	J. B. Hadaway	704,458	July 8	2099	442	100	429
Sewing buttons to fabrics. Machine for	J. T. Hogan	712,191	Oct. 28	3465	760	101	763
Sewing device. Broom	T. H. Brown	697,320	Apr. 8	1741	388	99	391
Sewing edgings. Guide for	J. Davis	706,166	Aug. 5	323	68	100	1183
Sewing hooks and eyes on cards. Machine for	G. Rowbottom	710,517	Oct. 7	237	52	101	48
Sewing hooks and eyes on cards. Machine for	G. Rowbottom	710,518	Oct. 7	244	54, 55	101	49
Sewing hooks and eyes on cards. Machine for	G. Rowbottom	710,519	Oct. 7	246	55	101	50



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Sewing looped fabrics. Machine for	G. Keyser	692,017	Jan. 28	3114	700	98	697
Sewing-machine	W. H. Beck	696,400	Apr. 1	15	5	90	6
Sewing-machine	A. W. Eaton	701,862	June 10	1033	281	90	2340
Sewing-machine	J. T. Hogan	710,150	Sept. 30	4193	944	100	2904
Sewing-machine	H. C. Peters	711,909	Oct. 21	2929	644	101	641
Sewing-machine adjustable trimming attachment	H. A. Klemm	693,657	Feb. 18	2736	604	98	1408
Sewing-machine attachment drawer	P. Diehl	716,094	Dec. 16	2619	576	101	2415
Sewing-machine attachment for overedge or blind stitching.	E. Donaldson	709,308	Sept. 16	2506	564	100	2528
Sewing-machine attachment-holder	F. Jacob, Jr	705,354	July 22	3913	848	100	840
Sewing-machine attachment-holder	H. P. Steward	705,472	July 22	4114	884	100	882
Sewing-machine automatic stop mechanism. Buttonhole.	P. Fabisch	713,079	Nov. 11	1163	267	101	1152
Sewing-machine automatic thread-feeder.	J. L. Saillet	704,690	July 15	2454	530	100	528
Sewing-machine binder	W. R. Abercrombie	698,384	Apr. 22	3721	822	99	837
Sewing-machine. Blind-stitch	C. A. Dearborn	705,325	July 22	3825	820	100	823
Sewing-machine-bobbin holder-case	A. Döring	709,886	Sept. 30	3679	829	100	2796
Sewing machine. Book	F. Kugler	705,363	July 22	3927	850	100	843
Sewing machine. Book	F. D. Taylor	714,531	Nov. 25	4309	887	101	1773
Sewing machine. Boot or shoe	J. H. and J. B. Ursbruck	715,323	Dec. 9	1285	275	101	2119
Sewing-machine braiding attachment.	L. Smith	708,418	Sept. 2	752	169	100	2133
Sewing-machine brake	T. Stankewicz, J. Yuknis, and P. P. Mauricas.	711,542	Oct. 21	2211	481	101	489
Sewing machine. Button	F. T. Leilich	692,680	Feb. 4	825	186	98	968
Sewing machine. Button	R. R. Wanless	698,342	Apr. 22	3642	806	99	820
Sewing machine. Button	A. Giacomini	701,871	June 10	1051	237	99	2343
Sewing machine. Button	B. T. String	706,124	Aug. 5	222	47	100	1162
Sewing machine. Buttonhole	F. W. Ostrom	692,210	Jan. 28	3471	785	98	770
Sewing machine. Buttonhole	J. Reece	692,904	Feb. 11	1250	277	98	1082
Sewing machine. Buttonhole	J. T. Hogan	694,150	Feb. 25	3680	814	98	1617
Sewing machine. Buttonhole	J. T. Hogan	694,151	Feb. 25	3689	815	98	1619
Sewing machine. Buttonhole	F. T. Leilich	705,257	July 22	3679	796	100	793
Sewing machine. Buttonhole	J. T. Hogan	710,149	Sept. 30	4188	943	100	2903
Sewing machine. Buttonhole	G. S. Hill	713,764	Nov. 18	2519	561	101	1449
Sewing machine. Buttonhole	C. A. Dahl and G. S. Hill	714,294	Nov. 25	3563	785	101	1685
Sewing-machine cabinet	E. E. Manning	713,660	Nov. 18	2326	519	101	1406
Sewing machine. Carpet	J. H. Hood	713,884	Nov. 18	2742	610	101	1495
Sewing-machine. Chain-stitch	H. J. Hancock	707,227	Aug. 19	2348	526	100	1633
Sewing-machine cloth-guide	S. E. Burries	701,013	May 27	3716	851	99	1991
Sewing-machine cloth-presser	G. H. Dimond and W. F. Dial	696,012	Mar. 25	3127	706	98	2412
Sewing-machine cutting attachment.	G. S. Hill	703,960	July 1	1080	233	100	215
Sewing-machine. Cylinder	L. Onderdonk	695,481	Mar. 18	2135	481	98	2196
Sewing-machine. Double-chain-stitch	A. Rontke	712,852	Nov. 4	732	169	101	1048
Sewing-machine. Double-zigzag	H. A. Klemm	710,696	Oct. 7	567	118	101	117
Sewing-machine driving mechanism	S. Borton and O. B. Brush	696,933	Apr. 8	1050	234	99	245
Sewing machine. Eyelet	W. U. and J. R. U. Morton	696,069	Mar. 25	3337	732	98	2435
Sewing machine. Eyelet	D. Noble	706,253	Aug. 5	479	103	100	1213
Sewing machine. Eyelet-hole	C. A. Dahl	699,371	May 6	456	105	99	1268
Sewing machine. Fabric	J. W. Hyatt	708,480	Sept. 2	859	196	100	2156
Sewing-machine fan attachment	G. Geer	691,340	Jan. 14	1861	420	98	406
Sewing-machine feed mechanism	H. A. Klemm	693,656	Feb. 18	2735	603	98	1408
Sewing-machine feed mechanism	W. Grothe	696,039	Mar. 25	3182	718	98	2425
Sewing-machine feed mechanism	J. A. Batchelor and F. E. Hall	705,633	July 29	4488	974	100	968
Sewing-machine feeder	C. Förster	708,631	Sept. 9	1128	254	100	2221
Sewing-machine feeding mechanism	G. M. Todd	690,680	Jan. 7	593	129	98	127
Sewing-machine feeding mechanism	W. C. Free	698,852	Feb. 25	3100	688	98	1503
Sewing-machine feeding mechanism	F. O. Berg	695,269	Mar. 11	1775	393	98	2103
Sewing-machine feeding mechanism	L. Onderdonk	703,811	July 1	810	178	100	302
Sewing-machine feeding mechanism	D. M. Smyth	704,137	July 8	1459	313	100	877
Sewing-machine feeding mechanism	C. A. Dearborn	705,326	July 22	3830	880	100	824
Sewing-machine feeding mechanism	C. H. Foster	705,577	July 29	4386	951	100	948
Sewing-machine feeding mechanism	L. Onderdonk and A. A. Merritt	705,604	July 29	4442	962	100	959
Sewing-machine feeding mechanism	L. Onderdonk	705,605	July 29	4444	963	100	960

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Sewing-machine feeding mechanism. Shoe.	J. V. Eves	709,911	Sept. 16	2511	566	100	2529
Sewing-machine feeding mechanism.	Z. T. French and W. C. Meyer	705,062	July 22	3248	702	100	706
Sewing-machine felling and hemming attachment.	W. S. Jenkins	698,682	Apr. 1	538	124	99	117
Sewing-machine folder.	W. L. Switt and E. Burk	706,278	Aug. 5	559	121	100	1228
Sewing-machine folding-guide.	J. L. Patterson	691,567	Jan. 21	2256	507	98	514
Sewing-machine folding-guide.	C. L. Weatherwax	702,512	June 17	2237	510	99	2107
Sewing-machine for felling.	W. Arbetter	690,385	Jan. 7	1	1	98	13
Sewing-machine. Fur and glove.	M. Hashfield	697,389	Apr. 8	1771	396	99	396
Sewing-machine gage.	G. Goulson	694,632	Mar. 4	563	123	98	1832
Sewing-machine gage.	E. F. Turner	695,972	Mar. 25	3042	690	98	2305
Sewing-machine guide.	I. Stuhlman	699,772	May 13	1241	2-8	99	1442
Sewing-machine guide.	A. Lennox	704,200	July 8	1569	389	100	329
Sewing-machine guide.	F. W. Gerlach and F. W. Moore	705,363	July 29	4544	987	100	980
Sewing-machine guide.	G. Scott	716,117	Dec. 16	2850	628	101	2464
Sewing-machine guide. Straw-braid.	J. F. Hamilton	692,279	Feb. 4	116	27	98	822
Sewing-machine hemmer.	A. H. Devoe	691,754	Jan. 25	2645	592	98	603
Sewing-machine hemming and cording attachment.	A. H. De Voe	696,417	Apr. 1	48	10, 11	99	14
Sewing-machine hemming attachment.	T. F. Dennison	706,223	Aug. 5	426	91	100	1203
Sewing-machine hemming attachment.	W. E. Durham	715,565	Dec. 9	1749	386	101	2210
Sewing-machine. Lock-stitch.	M. Marx and A. Guerra	696,578	Apr. 1	331	78, 79	99	74
Sewing-machine. Lock-stitch.	K. S. Klock	708,771	Sept. 9	1401	321	100	2279
Sewing-machine. Lock-stitch.	G. E. Warren	715,911	Dec. 16	2432	537	101	2374
Sewing-machine lock-stitch mechanism.	E. O. Blackwell	700,131	May 13	1945	447	99	1584
Sewing-machine. Lock-stitch shoe.	A. B. Fowler	707,094	Aug. 19	2089	467	100	1577
Sewing-machine loop-taker mechanism.	W. Grothe	690,722	Jan. 7	706	156	98	149
Sewing-machine loop-taking mechanism.	H. R. Tracy	697,184	Apr. 8	1499	395	99	388
Sewing-machine lower-thread tension mechanism.	G. G. Beitzel	699,067	Apr. 29	5066	1120	99	1141
Sewing-machine. Mattress.	H. S. Martin	701,749	June 3	841	185	99	2284
Sewing-machine needle.	F. W. Merrick	703,941	July 1	401	226	100	207
Sewing-machine needle-bar-guiding mechanism.	W. Forsyth	698,484	Apr. 29	3911	804	99	891
Sewing-machine needle-bar mechanism.	A. Rontke	712,853	Nov. 4	734	169	101	1049
Sewing-machine needle-controlling mechanism.	J. V. Eves	709,310	Sept. 16	2509	566	100	2529
Sewing-machine. Needle-feed chain-stitch.	H. J. Hancock	691,311	Jan. 14	1776	404	98	385
Sewing-machine-needle threader.	C. Schaefer	698,414	Apr. 22	3772	832	99	847
Sewing-machine. Overseaming.	S. Borton	710,942	Oct. 14	1023	226	101	225
Sewing-machine overseaming and blindstitching attachment.	W. D. Beam	704,291	July 8	1726	376	100	363
Sewing-machine overseaming attachment.	J. C. Moore	708,824	Sept. 9	1525	349	100	2805
Sewing-machine plait-folder.	J. Most	712,399	Oct. 28	3833	887	101	843
Sewing-machine plaiting apparatus.	F. L. Koehler	696,101	Mar. 25	3309	745	98	2452
Sewing-machine power-cutting attachment. Buttonhole.	P. Fabisch	713,078	Nov. 11	1159	267	101	1151
Sewing-machine presser-foot and needle-bar lifting mechanism combined.	E. G. O'Donnell	709,354	Sept. 16	2584	582	100	2545
Sewing-machine presser-foot lifting and locking mechanism.	H. A. Klemm	715,069	Dec. 9	1924	430	101	2246
Sewing-machine presser-foot-lifting mechanism.	C. Theobald	708,940	Sept. 9	1738	402	100	2350
Sewing-machine presser-foot-locking mechanism.	H. A. Klemm	706,068	Aug. 5	129	26	100	1143
Sewing-machine presser-foot mechanism. Shoe.	E. P. Richardson	710,613	Oct. 7	422	88	101	84
Sewing-machine pull-off mechanism.	J. L. Kieffer	706,670	Aug. 12	1299	286	100	1396
Sewing-machine ring-shuttle.	H. Regenstein	704,923	July 15	2344	631	100	633
Sewing-machine rotary take-up.	M. Hemleb	705,240	July 22	3645	780	100	788
Sewing-machine rotary take-up.	P. Diehl and M. Hemleb.	705,327	July 22	3838	831	100	826
Sewing-machine rotary take-up device.	P. Diehl and M. Hemleb.	705,321	July 22	3592	777	100	777
Sewing-machine ruffler.	P. Diehl	705,517	July 22	4211	915	100	900
Sewing-machine ruffler and gatherer.	J. F. Wilkinson	716,159	Dec. 16	2919	642	101	2477
Sewing-machine ruffler or gatherer.	J. Douglas and V. Hansen	703,049	June 24	3259	749	99	2882
Sewing-machine. Shoe.	E. E. Bean	697,600	Apr. 15	2264	506	99	513
Sewing-machine. Shoe.	T. K. Keith	700,693	May 20	3075	699	99	1845
Sewing-machine. Shoe.	Z. T. French and W. C. Meyer	705,063	July 22	3245	702	100	706
Sewing-machine. Shoe.	E. P. Richardson	710,612	Oct. 7	415	86, 87	101	83
Sewing-machine shuttle.	V. Royne	690,616	Jan. 7	475	103	98	101
Sewing-machine shuttle-forming mechanism.	H. R. Tracy	704,406	July 8	1938	419	100	408
Sewing-machine shuttle mechanism.	C. T. Warren	692,842	Feb. 11	1109	248	98	1051
Sewing-machine spool-holder.	C. T. Warren	701,780	June 3	891	199	99	2295
Sewing-machine spool-holder and tension device.	J. Bowey and G. Rockliffe	700,187	May 20	2051	468	99	1629
Combined.	A. I. Jacobs. (Reissue)	11,996	May 27	4194	962	99	2089
Sewing-machine stitch-forming mechanism.	L. Onderdonk	703,812	July 1	512	179	100	163
Sewing-machine stitch-forming mechanism.	L. Onderdonk	703,813	July 1	515	180	100	163
Sewing-machine shuttle-forming mechanism.	H. C. Fedel	705,569	July 29	4372	948	100	946
Sewing-machine stripper-plate.	R. G. Woodward	690,812	Jan. 7	858	199	98	181
Sewing-machine table and guard attachment combined.	E. H. Ahrens	701,824	June 10	965	215	99	2327
Sewing-machine table. Folding.	A. Morley	693,419	Feb. 18	2279	499	98	1214
Sewing-machine table or cabinet head.	J. Cuber and A. Hackenbroch	710,042	Sept. 30	3965	824	100	2857
Sewing-machine take-up.	W. F. Dial and G. H. Dimond	695,915	Mar. 25	2945	1667	98	2376
Sewing-machine take-up.	W. C. Free	699,673	May 13	1047	244	99	1405
Sewing-machine take-up.	J. J. M. Chauvet and J. W. Coulter	704,297	July 8	1735	378	100	364



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Sewing-machine take-up	F. W. Merrick	707,145	Aug. 19	2189	490	100	1598
Sewing-machine take-up and tension	A. Godfrey	706,045	Aug. 5	82	18	100	1133
Sewing-machine take-up device	P. Diehl	705,328	July 22	3341	831	100	886
Sewing-machine take-up mechanism	J. L. Kieffer	696,871	Apr. 1		892	99	189
Sewing-machine tension device	R. Pierpont	695,486	Mar. 18	2142	204	98	2197
Sewing-machine tension mechanism	J. L. Kieffer	696,872	Apr. 1	896	207	99	189
Sewing-machine thread-controlling device.	E. B. Allen	709,456	Sept. 23	2823	634	100	2607
Sewing-machine thread-controlling device.	E. B. Allen	713,584	Nov. 18	2185	487	101	1377
Sewing-machine thread-cutter	R. W. Thomson	691,676	Jan. 21	2169	553	98	549
Sewing-machine thread-cutting mechanism	R. W. Thomson	702,832	June 17	2332	651	99	2730
Sewing-machine thread-guiding attachment.	C. Reinhold	691,408	Jan. 21	1988	446	98	449
Sewing-machine-treadle foot-clip	A. Eppich	699,610	May 6	912	212	99	1364
Sewing-machine-treadle-power stand	G. M. Eames	704,524	July 15	2181	472	100	473
Sewing-machine-treadle rocker attachment	F. P. Harris	695,881	Mar. 18	2875	632	98	2348
Sewing-machine trimming attachment	E. F. Durand	698,912	Apr. 29	4814	1061	99	1089
Sewing-machine tuck-creaser	J. M. Greist	698,011	Apr. 22	3030	666	99	693
Sewing-machine tuck-creaser	H. P. Steward	705,471	July 22	4113	894	100	882
Sewing-machine tucker	R. J. Kelley	695,735	Mar. 18	2608	591	98	2291
Sewing-machine tucking-guide	R. C. Johnson	690,735	Jan. 7	726	160	98	153
Sewing-machine tucking-guide	C. H. Lewis	691,705	Jan. 21	2521	564	98	590
Sewing-machine tucking-guide	R. J. Kelley	712,195	Oct. 28	3471	762	101	765
Sewing-machine. Waxed-thread	P. Shatford	715,431	Dec. 9	1483	820	101	2158
Sewing machine. Welt	E. E. Wroth	697,073	Apr. 2	2821	521	99	1678
Sewing-machine work-gage.	H. A. Klemm	692,150	Jan. 28	3333	760	98	746
Sewing machines. Finger-tip attachment for glove	L. A. Van Praag	690,682	Jan. 7	506	130	98	128
Sewing-machines. Purling device for overedge	J. G. Greene	705,230	July 22	3624	785	100	783
Sewing shank-eyed buttons. Machine for	J. Mathison	690,973	Jan. 14	1154	263	98	257
Shackle. Emergency.	E. F. Diamond	696,136	Mar. 25	3388	764	99	2469
Shade	W. A. Hardywood	690,725	Jan. 7	710	157	98	149
Shade-adjuster. Window.	T. C. Hardy	713,215	Nov. 11	1424	322	101	1205
Shade-adjustment	F. H. Knapp	707,240	Aug. 19	2363	530	100	1636
Shade and awning. Convertible window	R. O. Bolles	695,856	Mar. 18	2331	643	98	2338
Shade and curtain bracket. Window	T. H. Kenvin	692,144	Jan. 28	3349	758	98	745
Shade and curtain fixture. Adjustable	C. S. Fers	695,694	Mar. 18	2381	575	98	2376
Shade and curtain fixture. Window	E. W. Schneider	697,023	Apr. 8	1232	275	99	258
Shade and curtain hanger	J. Pfeifer	693,619	Feb. 18	2666	589	98	1393
Shade and curtain hanger	J. P. Gerth	716,027	Dec. 16	2662	587	101	2124
Shade and curtain holder. Window	W. H. Griffin	703,059	June 24	3281	755	99	2837
Shade and curtain-pole bracket. Window	J. P. and T. W. Sweeney	708,505	Sept. 2	912	207	100	2166
Shade and curtain-pole holder. Adjustable window	G. T. Ashton and J. F. Bainter	705,548	July 29	4341	939	100	939
Shade and fixture. Window	J. Eckert	708,773	July 1	31	162	100	147
Shade and screen holder. Window	J. Robertson	710,215	Oct. 7	235	51	101	48
Shade attachment. Window	M. F. and C. Stephens	699,770	May 13	1238	288	99	1441
Shade-bracket	E. M. Winfrey	702,519	June 17	2247	511	99	2699
Shade-bracket.	F. Yahn	706,287	Aug. 5	574	124	100	1232
Shade-bracket. Adjustable	E. Chamberlin	696,390	Mar. 25	3335	872	98	2578
Shade-bracket. Adjustable	A. Hanson	708,226	Sept. 2	427	97	100	3068
Shade-bracket. Adjustable	L. A. Watts	708,281	Sept. 2	324	120	100	3088
Shade-bracket. Adjustable	W. H. Sattelberg	710,215	Sept. 30	4347	970	101	3392
Shade-bracket. Automatic extension	A. H. Ousley	702,112	June 10	1500	337	99	2434
Shade bracket. Window	J. C. Barker	714,854	Dec. 2	425	91	101	1920
Shade carrier. Adjustable window	A. W. Ellis	708,629	Sept. 9	1126	253	100	2221
Shade-cloth trimmer	F. McDaniels	713,333	Nov. 11	1695	382	101	1290
Shade-cord clamp. Window	E. J. Wells and J. F. Young	701,436	June 8	273	66	99	2164
Shade-cord fastener	G. G. Goings	714,474	Nov. 25	3901	861	101	1750
Shade fixture	E. L. A. Cureau	704,816	July 15	2712	586	100	530
Shade fixture. Window	C. Wimmer	708,842	Sept. 23	3556	802	100	2759
Shade guide for shade-rollers. Window	H. P. Gross	696,037	Mar. 25	3180	717	98	2424
Shade guide, shield, and curtain-pole bracket. Combined window	M. A. Allen	711,455	Oct. 21	2039	442	101	453
Shade-hanger	M. H. Boyce	707,900	Aug. 26	3713	832	100	1927
Shade-hanger. Window	J. C. Wallace	699,264	May 6	551	58	99	1225
Shade-hanger. Window	S. Blaustein	703,374	July 27	6	8	100	127
Shade-hanger. Window	J. B. Merkel	708,156	Sept. 2	291	70	100	2041
Shade-hanger. Window	S. Johnson	714,800	Dec. 2	298	65	101	1898
Shade-holder	A. McKenzie	702,460	June 17	2137	485	99	2585
Shade-holder	T. B. Nowlin	706,093	Aug. 5	174	35	100	1152
Shade-holder	A. W. Hoffmann	712,796	Nov. 3	628	144	101	1036
Shade holder. Adjustable window	F. D. Hewes and F. J. Bittner	707,413	Aug. 19	2605	609	100	1705
Shade holder. Window	J. H. Donaldson	704,468	Oct. 2	341	182	100	2157
Shade holder. Window	W. S. Artell	711,930	Oct. 28	2976	654	101	669
Shade or curtain hanger. Window	F. Wiest	695,525	Mar. 18	2217	502	98	2213
Shade rod-hanger. Window	C. H. Bacon	697,313	Apr. 8	1734	386	99	389
Shade-roller	O. M. Edwards	704,738	July 15	2547	550	100	547
Shade-roller	O. M. Edwards	708,701	Sept. 9	1364	290	100	2248
Shade-roller	C. H. Bridgen	711,757	Oct. 2	323	577	101	577
Shade-roller	G. Mathis	714,005	Nov. 18	2986	664	101	1546
Shade-roller and bracket therefor	C. A. Baker	698,620	Apr. 29	418	924	99	947
Shade-roller and curtain-pole bracket. Combined	L. Bloom	696,930	Apr. 8	1044	232	99	240
Shade-roller and curtain-pole holder. Combined	H. S. De Sollar	706,728	Aug. 12	1396	311	100	1418
Shade roller and fixture	G. C. Mathers	705,594	July 29	4428	959	100	956
Shade-roller bracket	F. Auer	694,049	Feb. 25	3520	774	98	1584
Shade-roller bracket	E. F. Kaiser	696,568	Apr. 1	315	74	99	71
Shade-roller bracket	J. J. De Long	701,164	May 27	3979	915	99	2048
Shade-roller bracket	W. Clowse and O. M. Stevens	709,964	Sept. 30	3837	803	100	2830
Shade-roller bracket-support	J. Renner	690,529	Jan. 7	314	63	98	68

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Shade-roller cap	W. D. Jones	718,644	Nov. 18	2297	512	101	1400
Shade-roller-hanging apparatus	J. Stonebraker	708,090	Sept. 2	163	39	100	2015
Shade-roller roller-bearing support	J. Renner	708,736	Sept. 9	1332	304	100	2264
Shade-roller support	B. McKenzie	711,582	Oct. 21	2275	494	101	503
Shade-rollers. Bearing-bracket for vertically-adjustable	C. P. Thomas	697,114	Apr. 8	1382	307	99	314
Shade-rollers. Mounting for vertically-adjustable	A. A. Pease	714,230	Nov. 25	3465	762	101	1664
Shade-support	E. A. Livet	707,433	Aug. 19	2731	618	100	1712
Shade support. Window	W. K. Martin	704,894	July 15	2848	615 616	100	609
Shade support. Window	F. R. Mease	705,555	July 29	4430	960	100	957
Shade support. Window	L. Dalbert	711,294	Oct. 14	1741	376	101	377
Shade. Window	M. E. Reilly	715,294	Dec. 9	1332	293	101	2107
Shade. Window	P. G. Emery	716,832	Dec. 23	4353	944	101	2803
Shades and curtains. Roller-bracket for window	F. A. Giorgio	705,339	July 22	3282	840	100	834
Shades. Device for spring-actuated	E. T. Burrowes	705,031	July 22	3182	688	100	695
Shades. Holding-fixture for spring-actuated	J. H. Milans	693,604	Feb. 18	2747	606	98	1410
Shades. Means for sustaining and adjusting window	A. Serafini	710,079	Sept. 30	4036	910	100	2872
Shadowgraph	J. G. Hirsch	703,416	July 1	98	20	100	21
Shaft attachment. Vehicle	D. J. Jones	691,774	Jan. 23	2679	600	98	611
Shaft-bending machine	C. N. Allarding	716,612	Dec. 23	3849	888 839	101	2087
Shaft-boring apparatus	R. Abé	698,165	Apr. 22	3339	729 730	99	756
Shaft construction	G. J. Maas	694,397	Mar. 4	120	27	98	1738
Shaft coupling	G. J. Maas	694,398	Mar. 4	121	27	98	1739
Shaft coupling	J. Kennedy	691,274	Jan. 14	1687	384	98	367
Shaft-coupling	J. J. Cowell	691,448	Jan. 21	2054	460	98	463
Shaft-coupling	C. Comstock	692,768	Feb. 4	971	220	98	996
Shaft-coupling	A. B. Tower	700,457	May 20	2629	602	99	1748
Shaft-coupling	S. E. Diescher	701,017	May 27	3724	853	99	1993
Shaft-coupling, &c	S. E. Diescher	701,018	May 27	3725	853	99	1993
Shaft-coupling	I. Lehman	705,366	July 22	3933	852	100	844
Shaft-coupling	H. W. Scott	707,453	Aug. 19	2762	626	100	1719
Shaft-coupling	R. B. Murdock	713,135	Nov. 11	1268	288	101	1175
Shaft-coupling. Compression	W. W. Carey	711,294	Oct. 14	1713	370	101	370
Shaft-coupling. Flexible	G. C. Hicks, Jr	708,582	July 1	367	85	100	72
Shaft coupling. Power	O. Rudd	707,357	Aug. 19	2367	584	100	1682
Shaft coupling. Spring	G. W. Hicks, Jr	700,773	May 27	3266	748	99	1900
Shaft cross-bar. Vehicle	S. H. Hayden and H. D. Hathaway	704,460	July 8	2045	443	100	430
Shaft-door and stage locking device	A. Grothe	701,809	June 3	938	208	99	2305
Shaft-driver	H. E. Eberhardt	712,273	Oct. 28	3608	788	101	794
Shaft-driving device	J. Holthaus	701,043	May 27	3767	863	99	2002
Shaft. Flexible	J. A. De Vito	715,356	Dec. 9	1349	290	101	2131
Shaft. Flexible	H. W. A. Fette	717,090	Dec. 30	4553	1051	101	2324
Shaft-furnace for burning cement, &c	C. A. F. C. Seumenicht	699,852	May 13	326	99	99	1478
Shaft-hanger	C. A. Brinley	699,943	May 13	1538	364	99	1517
Shaft hanger and bearing	F. W. Witte	695,086	Mar. 11	1437	316 317	98	2032
Shaft hanger and bearing	E. O. Lean	712,392	Oct. 23	3820	834	101	840
Shaft-mounting	H. McCornack	706,088	Aug. 5	164	34	100	1150
Shaft or pole coupling. Vehicle	J. Hearne	714,371	Nov. 25	3723	819	101	1716
Shaft or pole support	E. B. Dikeman	696,552	Apr. 1	288	67	99	1801
Shaft prop	W. L. Marshall	702,978	June 24	3133	720	99	2808
Shaft shackle. Vehicle	S. R. Bailey	703,364	July 1	3	2	100	3
Shaft shackle. Vehicle	S. R. Bailey	703,365	July 1	4	2	100	3
Shaft shackle. Vehicle	S. R. Bailey	715,513	Dec. 23	3639	795	101	2641
Shaft-sinking apparatus	P. G. Moran	715,834	Dec. 16	2266	504 505	101	2337
Shaft support and coupling. Combined	H. Harden	702,300	June 10	1816	414	99	2499
Shaft support. Vehicle	J. H. Johnson	696,489	Apr. 29	3917	866	99	893
Shaft support. Vehicle	I. D. Cady	708,020	Sept. 2	31	7	100	1987
Shafts. Device for hitching horses to	C. B. Gibson	708,560	Sept. 9	1002	227	100	2196
Shafts. Device for withdrawing keys from	M. C. Bement and M. L. Black	716,368	Dec. 23	3343	730	101	2379
Shafts. Electromagnetic device for controlling the rotation of	P. V. Avril	710,311	Sept. 30	4476	1010	100	2965
Shafts. Sinking	G. J. Maas	701,490	June 2	380	85	99	2186
Shafting. Means for attaching collars or pulleys to	D. L. Potter	714,605	Nov. 25	4146	917	101	1801
Shafting safety device	W. Francis	695,923	Mar. 25	2960	670	98	2379
Shafting set-collar	C. W. Levalley	713,227	Nov. 11	1449	328	101	1211
Shampooing-hood	W. J. H. Walters	717,148	Dec. 30	4962	1077	101	2947
Shapers, &c. Counterbalance for traveling-head	M. and H. E. Morton	713,903	Nov. 18	2789	619 620	101	1505
Shaping-machine cross-head feed	G. J. Meyer	715,832	Dec. 16	2262	504	101	2337
Shaping tools of different patterns. Pattern-grinding apparatus for	K. Krennitz	714,903	Dec. 2	307	66, 67	101	1900
Sharpener	C. F. Brown	707,082	Aug. 19	2073	462	100	1574
Sharpener and dresser for mill-runners	L. D. Colley	712,909	Nov. 4	839	195	101	1068
Sharpener. Harrow-disk	A. E. Durner	708,802	Sept. 9	1472	336	100	2225
Sharpener. Knife	A. M. McLeran	699,890	May 13	1494	343	99	1498
Sharpener. Knife and pencil	L. Johnson	707,118	Aug. 19	2187	478	100	1588
Sharpener. Knife or scissors	C. A. Payne	691,171	Jan. 14	1498	338	98	327
Sharpener. Lawn-mower	W. H. Gilbert	698,846	Feb. 11	1118	250	98	1053
Sharpener. Mower or reaper knife	S. McCay	707,616	Aug. 26	3091	696	100	1804
Sharpener. Shears	K. Rossler	709,648	Sept. 23	3188	712	100	2683
Sharpening band-cutter knives. Machine for	H. C. Jacobs	711,865	Oct. 21	2829	626	101	622
Sharpening device. Grinding-plate	R. H. Foos and W. E. Copenhaver	694,056	Feb. 25	3530	777 778	98	1586
Sharpening device. Knife	A. P. Ruhl	700,562	May 20	2828	649	99	1789
Sharpening-machine	F. A. Reichardt and H. Wilcox	704,106	July 8	1384	298 299	100	291
Sharpening machine. Drill-bit	T. H. Proske	692,796	Feb. 4	1035	232 233	98	1008
Shaving-cup	W. A. Lemon and W. H. Otto	716,067	Dec. 16	2754	607	101	2444



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette	
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Shaving-cup soap-holder	U. G. Crampton	695,093	Mar. 11	1449	321	98	2035
Shaving-stick	D. T. Kendrick	700,947	May 27	3580	823	99	1963
Shavings. Apparatus for the production of spirally-wound	C. Etzold	691,122	Jan. 14	1403	319	98	307
Sheaf-fork	G. Hall and M. T. Bedford	692,134	Jan. 28	3334	755	98	742
Shear-spring	R. G. Titus	715,708	Dec. 9	1996	447	101	2261
Shears.							
See Animal-shears.	Iron shears.						
Barber's shears.	Metal-shears.						
Gage-shears.	Pruning-shears.						
Grass-cutting shears.	Rotary shears.						
Hand-shears.	Sheep-shears.						
Shears	H. F. Camp	697,232	Apr. 8	1586	355	99	356
Shears	C. C. Brooks	697,440	Apr. 15	1987	439	99	458
Shears	W. G. Henderson	698,195	Apr. 22	3404	749	99	770
Shears	R. Hamilton	703,253	June 24	3644	837	99	2909
Shears	W. Richard	705,444	July 22	4063	881	100	873
Shears	A. E. Wales	708,683	Sept. 9	1223	281	100	2242
Shears	S. N. Fortney	709,478	Sept. 23	2888	644	100	2022
Shears	Z. L. Brewer	713,039	Oct. 28	3181	696	101	710
Shears	J. D. Broman	713,595	Nov. 18	3207	490	101	1381
Shears	E. D. Woods	714,087	Nov. 18	3150	697	101	1581
Shears and punch. Combined	W. F. Custer	715,459	Dec. 9	1532	333	101	2167
Shearing machine. Gate	C. A. Bertsch	712,244	Oct. 28	3557	779	101	783
Shearing tool or clipper	J. K. Stewart	709,522	Sept. 23	2983	665	100	2642
Sheathing. Metallic surface	G. L. Sherman	717,080	Dec. 30	4837	1048	101	2621
Sheep-shears	J. Pomeroy	713,343	Nov. 11	1713	386	101	1265
Sheep-shears	C. J. Shipway and H. May	715,615	Dec. 9	1824	405	101	2225
Sheep-shears, &c. Method of and apparatus for driving the cutters in machine	J. C. Barnes	713,378	Nov. 11	1784	401	101	1279
Sheep-trail	J. Cherpaw and F. McGuire	703,999	July 8	1168	254	100	248
Sheet-carrying device. Pneumatic	G. F. Read	700,239	May 20	3198	502	99	1661
Sheet catching and packing device.	A. J. Maskrey	703,210	June 24	3574	821	99	2994
Sheet-delivering apparatus	A. Cowan	708,958	Sept. 9	1784	412	100	2358
Sheet-delivery apparatus.	G. P. Fenner	692,840	Feb. 11	1106	247	98	1051
Sheet-delivery apparatus.	G. P. Fenner	698,914	Apr. 29	4818	1062	99	1090
Sheet-delivery mechanism	W. Scott	708,741	Sept. 9	1337	305	100	2265
Sheet feeding and cutting machine	W. G. Chapin	703,183	June 24	3515	808	99	2882
Sheet-introducing mechanism. Slip	W. Scott	698,745	Apr. 29	4457	983	99	1008
Sheet-metal articles. Machine for wiring	J. Leclerc, H. Tremblay, and A. Lalumière	697,636	Apr. 15	2338	522	99	527
Sheet-metal bailed can or vessel.	B. H. Larkin	704,261	July 8	1672	364	100	350
Sheet-metal bending machine	C. W. Kennedy	716,032	Dec. 16	2711	598	101	2435
Sheet-metal bending or flanging machine	A. E. Chambers and L. H. Bullard	711,471	Oct. 21	2067	447	101	458
Sheet-metal bending or flanging machine.	A. E. Chambers and L. H. Bullard	711,472	Oct. 21	2069	448	101	459
Sheet-metal box or can	E. F. Griffin and W. E. Higgs	697,622	Apr. 15	2315	517	99	523
Sheet-metal-brushing machine	C. G. Wemlinger	717,150	Dec. 30	4969	1077	101	2550
Sheet-metal can	F. Tyson	709,426	Sept. 16	2743	616	100	2578
Sheet-metal can	F. W. Galbraith, Jr.	713,076	Dec. 30	4837	1055	101	1923
Sheet-metal corrugating machine	T. Bailey	696,350	Mar. 25	3853	857	98	2562
Sheet-metal disk or cap feeding machine. Automatic	J. F. Wing	702,388	June 10	1982	552	99	2533
Sheet-metal drawing-die	J. N. Reynolds	694,892	Mar. 4	1066	236	98	1937
Sheet-metal elbow	O. H. Lawrence	691,150	Jan. 14	1454	331	98	318
Sheet-metal folded joints. Machine for the production of	T. L. Carbone	702,046	June 10	1373	312	99	2407
Sheet-metal handle	H. A. Keiner	714,584	Nov. 25	4107	908	101	1793
Sheet-metal-heating furnace	J. E. and B. Jones.	699,533	May 6	757	178	99	1331
Sheet metal. Machine for dovetail-corrugating	T. Bailey	696,358	Mar. 25	3851	856	98	2562
Sheet metal. Machine for manufacturing expanded	W. L. Caldwell	698,448	Apr. 29	3849	848	99	879
Sheet-metal pipe.	F. L. Filson	710,262	Sept. 30	4396	990	100	2949
Sheet-metal pipe-elbows. Manufacturing	E. H. Smith	703,932	Sept. 9	1726	399	100	2348
Sheet-metal plates. Machine for bending	A. Swoboda and H. Rothe	691,205	Jan. 14	1557	353	98	340
Sheet-metal sections. Packaging	G. P. Hobbs	699,322	May 6	767	86	99	1248
Sheet-metal siding	E. G. Charlebois	705,207	July 22	3565	740	100	772
Sheet-metal-vessel spout-brace	C. L. Vazandt	704,408	July 8	1941	420	100	400
Sheet-metal vessels hermetically tight. Rendering joints of	W. Thompson	699,592	May 6	882	204	99	1357
Sheet-metal vessels. Machine for bulging	G. W. Knapp	698,404	Apr. 22	3754	828	99	843
Sheet-metal vessels. Machine for fastening the bottoms in and	W. Carljude	704,735	July 15	2538	548	100	546
Sheet-metal-working press	E. F. Griffin and W. E. Higgs	697,477	Apr. 15	2052	453	99	471
Sheet. Reversible suspended flexible	W. E. Elam	703,394	July 1	58	11	100	14
Sheet slitting and piling apparatus	A. J. Diescher	710,441	Oct. 7	77	17, 18	101	18
Sheet-transferring mechanism	G. F. Read	707,721	Aug. 26	3306	741	100	1848
Sheets from a pile. Apparatus for lifting off and removing	I. Orloff	636,186	Mar. 25	3493	782	98	2488
Sheets to be punched and for releasing same. Adjuster for retaining	F. Sutherland	711,744	Oct. 21	2598	571	101	572
Shelf and shipping-crate. Book	A. A. Loomis	700,060	May 13	1795	416	99	1557
Shelf-bracket	C. F. Kade	692,858	Feb. 11	1135	253	98	1056
Shelf. Bracket	R. R. Walker	704,134	July 8	1486	318	100	312

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Shelf-bracket. Adjustable	W. C. Peckham	701,079	May 27	3817	875	99	2018
Shelf for desks, &c. Swinging	E. J. Timmons	694,445	Mar. 4	208	46	99	1757
Shelf-hook	C. A. Schrader	698,227	Apr. 22	3457	759	99	782
Shelf-support	C. Chmelitzek	711,759	Oct. 21	2827	578	101	578
Shelf support. Book	J. R. Baker	716,852	Dec. 30	4396	953	101	2829
Shelving	J. M. Lippincott	714,206	Nov. 25	3412	752	101	1654
Shelving-bracket. Subsidiary	W. G. Croom	704,957	July 15	3063	651	100	649
Shelving. Metallic	W. H. Taylor	707,983	Aug. 26	3856	866	100	1955
Shell	W. S. Callaway	697,703	Apr. 15	2465	550	99	552
Sheller.							
See Corn-sheller.	Pea-sheller.						
Shepherd's crook	F. Bins	713,279	Nov. 11	1590	359	101	1238
Shield. Adhesive	W. J. Müller	706,250	Aug. 5	474	101	100	1212
Shield for personal wear	L. H. Catzen	708,317	Sept. 2	591	184	100	2101
Shift-key-actuating device	R. S. Cope	709,748	Sept. 23	3384	759	100	2721
Shingle	F. Randel	712,093	Oct. 28	3295	722	101	730
Shingle	E. Schneider	716,585	Dec. 23	3793	824	101	2675
Shingle-dipping tank	L. Harvey	694,059	Feb. 25	3524	779	98	1387
Shingle-edging machine	J. D. Caldwell	714,098	Nov. 13	3170	702	101	1585
Shingle-gage	F. L. Nelson	693,054	Feb. 11	1542	336	98	1143
Shingle-machine	G. W. Roper	711,533	Oct. 21	2192	477	101	486
Shingle-machine. Band-saw	H. A. Park	717,116	Dec. 30	4805	1060	101	2933
Shingle-packer	F. Campbell	693,783	Feb. 18	2959	652	98	1454
Shingling-bracket.	M. Choquette	703,894	July 1	967	211	100	193
Shingling carriage and gage	F. C. Leek	710,281	Sept. 30	4427	998	100	2956
Ship	J. K. Leedy	696,103	Mar. 25	3320	749	98	2454
Ship-coaling apparatus	F. V. Matton	714,499	Nov. 25	3947	874	101	1758
Ship construction	R. T. Green	705,342	July 22	3890	842	100	835
Ship construction	A. B. Wolvin	706,708	Aug. 12	1857	303	100	1409
Ship windlasses and capstans. Mechanism for operating	F. N. Connet	694,616	Mar. 4	538	117	98	1827
Ships. Apparatus for raising sunken	M. Bourhanovsky and A. de Kowanko.	691,713	Jan. 21	2533	567	98	562
Ships at sea. Means for coaling	A. C. Cunningham	717,356	Dec. 30	5357	1164	101	3033
Ships' bottoms. Apparatus for cleaning	R. S. Culpepper	693,242	Feb. 11	1591	424	98	1225
Ships' bottoms, &c. Coating	A. P. Cuthrell	716,678	Dec. 23	3958	101	2709	
Ships' cargoes. Apparatus for unloading	A. Mullan	700,790	May 27	3308	759	99	1908
Ship's-course indicator	W. J. Condon	713,608	Nov. 18	2235	496	101	1387
Ship's-course-recording apparatus	J. Hope	711,971	Oct. 28	3063	672	101	686
Ships, &c., for making them less visible. Treating the outsides of	G. Brush and A. H. Thayer	715,013	Dec. 2	719	152	101	1981
Ships' hatches. Protective tumbling-hood for	J. Bergesen	700,012	May 13	1704	392	99	1538
Ships' hulls. Means for cleaning	W. S. Burt	699,144	May 6	34	9,10	99	1183
Ship's-log apparatus. Electrical	T. F. and T. S. Walker	701,651	June 3	677	149	99	2250
Ships. Means for guiding and propelling steam-	L. Sher	694,433	Mar. 4	187	41	98	1752
Ships. Ventilator	W. M. Walters	704,155	July 8	1487	319	100	812
Shipper mechanism	C. McVeety and J. F. Ford	699,928	May 13	1560	359	99	1511
Shipper mechanism	J. McCaffrey	691,960	Jan. 28	3014	677	98	678
Shipping-box	J. M. Caffrey	692,468	Feb. 4	482	101	98	887
Shipping-box	A. E. Piper	693,311	Feb. 11	2062	451	98	1248
Shipping-box	J. T. Hicks	710,100	Sept. 30	4087	922	100	2881
Shipping case. Banana	F. Schmitz	698,061	Apr. 22	3115	685	99	711
Shirting-band. Skirt	F. E. Bush	717,159	Dec. 30	4988	1081	101	2283
Shirt	S. Butz	694,133	Feb. 25	3652	807	98	1612
Shirt	J. T. Shipley	695,629	Mar. 18	2436	550	98	2257
Shirt	S. J. England	697,823	Apr. 15	2676	594	99	599
Shirt	D. L. Block	699,365	May 6	446	102	99	1266
Shirt	M. P. Magly	708,731	July 1	659	146	100	132
Shirt and collar	B. Lichtig	717,102	Dec. 30	4872	1055	101	2928
Shirt and collar	W. C. Cox	694,532	Mar. 4	385	85	98	1794
Shirt-collar	W. B. Eichholtz	713,973	Nov. 18	2934	651	101	1534
Shirt-band stiffener	A. D. Boudet	700,013	May 13	1705	392	99	1539
Shirt-bosom pad	L. M. Bryan	693,226	Feb. 11	1919	417	98	1218
Shirt-folding machine	M. Peukert	694,074	Feb. 25	3556	784	98	1592
Shirt-front and braces. Combined	M. E. Poore	708,397	Sept. 2	717	160	100	2126
Shirt-neckband-expanding ring	H. H. Horr	716,545	Dec. 23	3713	809	101	2857
Shirt-vest	G. W. Sheckells	704,392	July 8	1917	415	100	404
Shirt-waist holder	F. S. and A. E. Miller	715,833	Dec. 16	2264	504	101	2387
Shock-carrier	E. A. Johnston	715,383	Dec. 9	1392	300	101	2139
Shock-compressor	S. Rapp	698,735	Apr. 29	4442	981	99	1006
Shock-loader	A. C. Houdyshell	708,045	Sept. 2	93	62	100	2000
Shock-loader	H. O. Kolsbun	716,250	Dec. 16	3117	683	101	2518
Shock-loading apparatus	A. C. Houdyshell	702,796	June 17	2766	636	99	2716
Shocks. Appliance for taking up or neutralizing	F. H. Schule	700,092	May 13	1848	430	99	1568
Shocking attachment. Wagon	M. Bruner	694,726	Mar. 4	747	166	98	1870
Shoe	M. J. Moloney	691,284	Jan. 14	4412	388	98	373
Shoe	H. P. Fouque	696,030	Mar. 25	3167	714	98	2421
Shoe	J. C. Wright	697,590	Apr. 15	2245	500	99	509
Shoe	A. T. E. Smith	712,442	Oct. 28	3928	859	101	862
Shoe	E. J. Bliss	714,439	Nov. 25	3841	850	101	1739
Shoe	C. K. Flowers	716,528	Dec. 23	3667	801	101	2646
Shoe-box	J. C. Leclerc	715,830	Dec. 16	2239	500	101	2332
Shoe-brushing machine	C. A. Sundgren	710,628	Oct. 7	449	93	100	90
Shoe-cleaner	D. J. Foley	705,052	June 24	3266	751	99	2834



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Shoe cleaning and polishing machine	E. C. McKee and T. Matheny	698,531	Feb. 18	2491	547	98	1358
Shoe-cleaning machine	W. Richardson	698,742	Feb. 18	2895	637	98	1441
Shoe-cleaning machine	W. Richardson	712,332	Oct. 28	3711	811	101	816
Shoe-duster	W. G. Mullen	700,069	May 13	1811	420	99	1560
Shoe-fastener	D. M. Jordan and W. W. Jonah	702,896	June 10	1944	249	99	2353
Shoe-fastener	A. T. Jordan	705,356	July 22	3916	848	100	841
Shoe-fastener	M. S. Brown	705,817	July 29	4823	1047	100	1036
Shoe-fastener	J. F. Hawkes	707,694	Aug. 26	3362	729	100	1839
Shoe-fastening	A. G. Mead	702,665	June 17	2522	577	99	2965
Shoe-fastening device	W. Becker	714,130	Nov. 25	3235	714	101	1618
Shoe form or last	H. B. Walker	703,686	July 1	579	129	100	115
Shoe-holding device	A. R. Edwards	711,204	Oct. 14	1562	336	101	840
Shoe-hook-setting machine	E. L. Purke	692,343	Oct. 4	320	53, 54	98	844
Shoe-horn	G. Schneider	703,310	June 24	3726	858	99	2926
Shoe-lining trimmer	C. B. Corwin	707,906	Aug. 26	3722	834	100	1928
Shoe, Marsh	W. D. Kelsey	694,019	Feb. 25	3452	762	98	1570
Shoe or boot	B. E. Lockett	694,872	Mar. 4	1036	220	98	1931
Shoe-polisher	W. R. Derr	693,245	Feb. 11	1954	424	98	1226
Shoe-polisher	J. F. Brougher	696,712	Apr. 1	604	136	99	2301
Shoe-polisher	E. De Baun	702,296	June 10	1798	411	99	2405
Shoe-polishing apparatus	N. C. Spring	698,987	Feb. 25	3389	745	98	1558
Shoe-polishing machine	M. Levy	707,703	Aug. 26	3276	732	100	1842
Shoe-protector	J. H. Price	702,476	June 17	2165	494	99	2591
Shoe-protector	J. A. Raiser	714,821	Dec. 2	335	73	101	1905
Shoe-straining device	H. Michelstädter and H. Christian	700,065	May 13	1802	418	99	1559
Shoe-stretcher	C. L. Passmore	700,705	May 20	3103	705	99	1840
Shoe-tip clamp	R. E. Woolman	716,608	Dec. 23	3835	833	101	2684
Shoe-tree	G. F. Dunn	698,848	Feb. 25	3103	686	98	1501
Shoe-turning device	G. B. Gardner	702,196	June 10	1650	369	99	2465
Shoe-turning machine	A. Eppler, Jr.	706,038	Aug. 5	70	15, 16	100	1132
Shoe-upper fastener	W. E. Ellis	704,451	July 8	2021	439	100	426
Shoe-upper packing-machine	M. E. Morris	715,210	Dec. 2	1072	230	101	2566
Shoe vampstay	E. De Baunbury	702,342	June 10	1798	411	99	2405
Shoes while polishing same. Device for supporting	C. G. Keller	701,350	June 3	130	27	99	2136
Shoemaker's jack	A. T. Draper	698,636	Apr. 29	4213	930	99	952
Shoemaker's jack	I. Holzmark	716,896	Dec. 30	4480	971	101	2846
Shoestring	J. T. Thompson	704,980	July 15	3083	664	100	658
Shooting-gallery	W. F. Loss and J. F. Blake	691,643	Jan. 21	2409	542	98	536
Shot. Boarding	C. Tatham	708,320	June 24	3740	861	99	2929
Shot-making machine	J. C. Curline	697,814	Apr. 3	2665	591	99	3307
Shot-spreader	D. Brown	699,487	May 6	682	158	99	1316
Shoulder brace and suspenders. Combined	A. N. Johnson	714,307	Nov. 25	3611	794	101	1693
Shovel:							
See Cart-shovel.	Power-shovel.						
Dump-shovel.	Steam-shovel.						
Pneumatic shovel.							
Shovel	J. W. Ellison	701,805	June 3	932	207	99	2203
Shovel	J. F. Haviland	702,097	June 10	1478	333	99	2430
Shovel attachment	W. T. Spillane	707,948	Aug. 26	3790	851	100	1943
Shovel-clip. Sheet-metal.	H. G. Sawyer	714,403	Nov. 25	3777	894	101	1727
Shovel-handle. Auxiliary.	J. C. H. Gruner	715,056	Dec. 2	786	167	101	1905
Shovel-support	J. Baker	709,192	Sept. 16	2279	518	100	2479
Shovel-board. Vehicle	J. A. and J. G. Paxton	712,828	Oct. 28	3702	810	101	813
Show-card pin-fastener	L. Lenos	694,093	Feb. 25	3539	780	98	1538
Show-case	T. S. Coffin	692,670	Feb. 4	410	138	98	965
Show-case	F. Pollard	694,987	Mar. 11	1254	274	98	1995
Show-case	M. A. Heimanu	696,041	Mar. 25	3185	719	98	2425
Show-case	A. Reinle	696,269	Mar. 25	3652		98	2521
Show-case	A. Reinle	698,320	Apr. 22	3613	797	99	813
Show-case	F. Pollard	699,811	May 13	1314	305	99	1158
Show-case	A. Reinle	701,222	May 27	4080	939	99	2928
Show-case	A. Reinle	701,316	June 3	952	211	99	2927
Show-case	A. Jaeger	701,888	June 10	1084	246	99	2331
Show-case	J. S. Lewis and D. F. Grow	704,056	July 8	1270	275	100	267
Show-case	W. Kinzy	709,331	Sept. 16	2545	572	100	2536
Show-case	S. Himmel	709,709	Sept. 23	3295	739	100	2705
Show-case	F. Pollard, Jr.	710,998	Oct. 13	1133	250	101	248
Show-case	E. C. Thurnau	713,534	Nov. 11	2087	1466	101	1341
Show-case	W. G. Flint	714,686	Dec. 2	66	13, 14	101	1831
Show-case	O. Yates	715,926	Dec. 16	2472	544	101	2384
Show-case	A. D. Guibert	716,410	Dec. 23	3439	749	101	2597
Show-case bracket	G. C. Wright	711,610	Oct. 21	2334	510	101	515
Show-case corner-clamp	L. Paulle	712,842	Nov. 4	712		101	1044
Show-case cover. Barrel or pail	J. C. Thibeault	712,423	Oct. 23	3896	1822	101	856
Show-case fastener	P. S. Scott	716,118	Dec. 16	2852	628	101	2464
Show-case fastener. Glass	P. Olsen	693,736	Feb. 18	2885	635	98	1439
Show-case or show-front	C. F. Kurz	702,444	June 17	2100	478	99	2576
Show-case or show-front	J. L. Crane	710,141	Sept. 30	4174	940	100	2900
Show stand or rack. Revolving	H. F. Palmer	697,008	Apr. 8	1197	268	99	273
Show-top	C. H. Goldman	703,912	July 1	990	216	100	198
Show-tray	T. S. Coffin	690,305	Jan. 7	26	6	98	8
Show-window construction	H. Hunter	709,985	Sept. 30	3871	872	100	2837
Shredder snapping-rolls	E. E. Jones	703,592	July 1	380	88	100	75
Shuffle-board	H. Vaughan	694,121	Feb. 25	3635	803	98	1608
Shutter. Curtain	O. Näther	708,797	Sept. 9	1320	1300	100	2261
Shutter-fastener	G. P. Rahn	700,235	May 20	2191	501	99	1659
Shutter-fastener	K. Unterlechner	704,560	July 15	2310	501	100	498
Shutter-fastener	W. R. Briggs	708,619	Sept. 9	1108	249	100	2317
Shutter-fastener and bowser	G. C. Bolgiano	711,279	Oct. 14	1702	367	101	367
Shutter. Focal-plane	L. Moretti	697,350	Apr. 8	1787	401	99	400
Shutter-holder	E. C. S. Marshall	694,975	Mar. 11	1234	270	98	1991
Shutter-holder	C. Holmcraus	716,636	Dec. 23	3892	850	101	2097

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Shutter-lock	J. A. Cook	711,696	Oct. 21	2501	548	101	551
Shutter-operating device	W. W. Van Duzer	697,297	Apr. 8	1704	381	99	383
Shutter-operator	J. F. Stackhouse	726,126	Dec. 16	2863	631	101	2467
Shutter-setting mechanism. Automatic.	G. Orth	704,755	July 15	2580	557	100	553
Shutter. Window	J. L. Nettleton	702,148	June 10	1556	333	99	2447
Shutter. Window	J. G. Busch	706,217	Aug. 5	409	87, 88	100	1200
Shuttle-check	A. L. Champion	714,693	Dec. 2	28	7	101	1843
Shuttle-check	T. Scheltenbach	708,923	Sept. 9	1713	305	100	2345
Shuttle-check	W. H. Bailey and I. Snow	716,514	Dec. 23	3640	795	101	2641
Shuttle-driving mechanism.	W. C. Free	692,843	Feb. 11	1110	248	98	1051
Sideboard. Combination	J. T. Hicks	708,943	Sept. 2	90	20	100	2000
Sidewalk covering or protector	W. A. Schmidt	696,199	Mar. 25	3516	787	98	2492
Siding-gage	L. P. A. Nelson	694,023	Feb. 25	2457	703	98	1572
Sieve	A. Teichmann	708,717	July 29	4651	1008	100	1001
Sieve. Adjustable.	F. Hixson	695,104	Mar. 11	1467	326	98	2038
Sieve-cleaner	R. F. Snyder	711,133	Oct. 14	1402	303	101	306
Sieve-cleaner. Shaking	F. L. Shaler	699,026	Apr. 29	4903	1105	99	1125
Sieve. Flour-bolting	D. I. Coggin	699,745	May 13	1183	276	99	1430
Sieve. Self-cleaning	A. C. Brantingham	705,027	July 22	3178	687	100	694
Sifter	J. E. Mueller	696,907	Apr. 8	1175	293	99	269
Sifter	R. Marter	713,011	Nov. 4	1021	239	101	1104
Sifter and receptacle. Ash	J. M. Olsen	697,744	Apr. 15	2534	565	99	567
Sifter. Ash	M. E. Barbour	691,522	Jan. 21	2187	490	98	491
Sifter. Ash	G. J. Te Brake	695,250	Mar. 11	1745	386	98	2097
Sifter. Ash	W. T. Lamm	696,056	Mar. 25	3210	725	98	2430
Sifter. Ash	H. M. Austin	699,134	May 16	16	4	99	1173
Sifter. Ash	L. H. Taylor	706,129	Aug. 5	236	49	100	1166
Sifter. Ash	A. L. Rundell	708,257	Sept. 2	496	11	101	2079
Sifter. Ash	E. Wilcox	704,383	Sept. 16	2664	598	100	2562
Sifter. Ash	I. H. Taylor	712,018	Oct. 28	3153	690	101	704
Sifter. Cinder	H. Maynard	699,832	Sept. 23	3574	805	100	2763
Sifter. Flour	T. G. Melish	695,575	Mar. 13	2338	590	98	2232
Sifter. Flour	W. M. Viser	697,903	Apr. 15	2814	622	99	630
Sifter or strainer. Culinary	J. F. Foster and A. Ferber	701,702	June 3	765	170	99	2629
Sifter. Sand	U. Eberhardt	700,751	May 27	3226	739	99	1890
Sifter spout. Flour	H. R. Roberts	701,936	June 10	1161	266	99	2367
Sifters. Cloth-cleaning attachment for gyratory	T. Scott	695,842	Mar. 18	2806	639	98	2332
Sifting pulverized ores, &c. Apparatus for	W. Jamieson and F. J. Odling	690,731	Jan. 7	718	158	98	151
Sight-bars. Locking-catch for extendible	O. C. Horney	711,213	Oct. 14	1587	340	101	344
Sign	J. E. Schmidt	702,863	June 17	2891	669	99	2742
Sign	J. Lorich Jr.	709,024	Sept. 16	1943	446	100	2408
Sign	F. E. Smith and F. C. Watson	715,309	Dec. 9	1263	268	101	2115
Sign	L. A. J. Muller-Thym	716,078	Dec. 16	2770	611	101	2447
Sign. Advertising	L. J. Hunter	699,178	May 6	93	23, 24	99	1194
Sign-board	J. M. Niesen	705,781	July 29	4761	1032	100	1078
Sign. Changeable	P. Heinemann	696,436	Apr. 1	80	18	99	22
Sign. Day and night corner	E. W. Edwards	715,769	Dec. 16	2132	477	101	2310
Sign. Electric	T. E. Murray	705,597	July 29	4432	960	100	957
Sign. Electric	L. S. Crandall	715,555	Dec. 9	1732	381	101	2206
Sign. Electric-light	H. Tripp and G. E. Stephenson	696,775	Apr. 1	725	164	99	1555
Sign. Electric-light	M. Norden	705,429	July 22	4038	875	100	867
Sign. Electrically-illuminated	J. H. Goehst	690,649	Jan. 7	542	117	98	116
Sign. Illuminated	G. D. Chapman and C. R. Quine	698,256	Apr. 22	3505	772	99	792
Sign. Illuminated	C. C. Scott	700,836	May 27	3323	776	99	1922
Sign. Illuminated	H. S. Kemp	711,868	Oct. 21	2835	627	101	623
Sign illuminated by electric current	E. Plancon	714,233	Nov. 25	3468	763	101	1664
Sign. Illuminated display	C. C. Scott	704,122	July 8	1418	304	100	298
Sign-illuminating device. Street	J. W. Lieb, Jr. and J. H. Tyler	709,023	Sept. 16	1942	445	100	2403
Sign. Portable electrically-illuminated	H. S. Kemp	711,867	Oct. 21	2834	627	101	622
Sign. Street-lamp	O. I. Terrell	690,901	Jan. 7	1006	227	98	211
Sign. Street or other	E. F. Dreman	715,766	Dec. 16	2124	476	101	2309
Sign. Vacuum-tube	D. M. Moore	699,208	May 6	141	36	99	1204
Sign. Vibrating	E. B. Lydick	692,686	Feb. 4	836	190	98	971
Signs. Apparatus for displaying movable	J. P. Bryan	715,752	Dec. 16	2094	460	101	2303
Signs. Switchboard for illuminating electric-lamp	M. Norden and L. S. Crandall	702,149	June 10	1557	470	99	2447
Signs. Switchboard for illuminating electric-light	M. Norden	713,668	Nov. 18	2335	521	101	1408
Signal	See Automatic signal.	Railway-signal.					
	Cable-signal.	Railway danger-signal.					
	Distress-signal.	Railway electric signal.					
	Door-signal.	Semaphore-signal.					
	Electric signal.	Telephone and fire-alarm					
	Elevator-signal.	signal.					
	Fluid-operated sig- nal.	Train-signal.					
		Train-order signal.					
Signal	W. H. Hartline	700,041	May 13	1768	409	99	1552
Signal	J. B. Baker	701,460	June 3	320	71	99	2175
Signal	R. Herman	704,800	July 15	2670	578	100	571
Signal and engine-driver recorder	J. P. de Braam	698,993	Sept. 16	1864	428	100	2393
Signal and signaling-circuit	J. A. Wilson	693,094	Feb. 11	1613	352	98	1157
Signal apparatus	S. C. Shaffner	699,532	May 6	862	201	99	1352
Signal device	H. S. Balliet	705,549	July 29	4341	939	100	939
Signal-gong. Electric	H. C. Thomson	717,137	Dec. 30	4942	1072	101	2943
Signal mechanism	R. Herman	705,584	July 29	4396	954	100	951
Signal-operating apparatus	C. W. Coleman	693,109	Feb. 11	1657	361	98	1165
Signal-recording mechanism	G. J. Schoeffel and H. W. Aylward	694,327	Feb. 25	4080	908	99	1690
Signal standard. Portable flag	J. E. Weirich	695,663	Mar. 18	2489	505	98	2263



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. <sup>d</sup>	Vol.	Page.
Signal-station	J. W. Harrison	698,942	Apr. 29	4857	1072	99	1098
Signal system	E. Peterson	698,308	Feb. 11	2056	450	98	1247
Signal system. Telegraphically-operated	J. N. Newsom	708,810	July 1	799	177	100	161
Signal system. Train-	A. G. Davis	714,366	Nov. 25	3712	817	101	1714
Signal-waves. Amplifying electromagnetic	J. S. Stone	714,833	Dec. 2	370	80	101	1910
Signal-waves. Apparatus for amplifying electromagnetic	J. S. Stone	714,832	Dec. 2	367	79	101	1910
Signals. Apparatus for the transmission of	C. E. Beach	697,065	Apr. 8	1293	287	99	293
Signals automatically at level crossings, &c. Means for operating	L. Sémat	695,498	Mar. 18	2166	489	98	2302
Signals through space. Apparatus for communicating	L. De Forest and E. H. Smythe	716,000	Dec. 16	2806	575	101	2412
Signals through space. Communicating	L. De Forest and E. H. Smythe	716,334	Dec. 16	3265	714	101	2548
Signaling	R. C. Spaulding	716,301	Dec. 16	3197	700	101	2534
Signaling and circuit-controlling apparatus. Electric	T. J. Zoeller	695,991	Mar. 25	3076	697	98	2402
Signaling and telephoning apparatus	E. L. Grauel	700,912	May 27	3518	807	99	1940
Signaling apparatus	H. H. Grenfell	696,330	Mar. 25	3794	845	98	2551
Signaling apparatus	J. R. Mead	708,487	Sept. 2	880	199	100	2159
Signaling apparatus	H. A. Fessenden	710,320	Sept. 30	4493	1013	100	2969
Signaling apparatus. Clearing-out	W. M. Davis	697,990	Apr. 22	2998	660	99	686
Signaling apparatus. Electric	F. B. Herzog	693,013	Feb. 11	1462	317	98	1126
Signaling apparatus. Electric	F. B. Herzog	693,014	Feb. 11	1463	318	98	1126
Signaling apparatus. Electric	F. B. Herzog	693,390	Feb. 18	2322	487	98	1303
Signaling apparatus. Electric	F. B. Herzog	696,140	Mar. 25	3399	766	98	2471
Signaling apparatus. Electric	F. B. Herzog	696,372	Mar. 25	3889	803	98	2567
Signaling apparatus. Electric	A. F. Hauss	711,893	Oct. 21	2881	637	101	632
Signaling apparatus. Electrical hose	G. G. Weitz	696,529	Apr. 1	241	55	99	56
Signaling. Apparatus for selective electric	J. S. Stone	714,831	Dec. 2	373	78	101	1909
Signaling apparatus. Marine	W. B. Barker	716,617	Dec. 23	3858	841	101	2689
Signaling apparatus. Pneumatic	J. H. Brady	703,637	July 1	470	107	100	93
Signaling apparatus. Train	W. A. and B. S. H. Harris	700,765	May 27	3245	743	99	1894
Signaling apparatus. Train	W. A. and B. S. H. Harris	700,766	May 27	3251	744	99	1895
Signaling apparatus. Train	W. D. Clopton	709,746	Sept. 23	3380	758	100	2721
Signaling by electromagnetic waves	R. A. Fessenden	706,745	Aug. 12	1443	319	100	1426
Signaling by electromagnetic waves	R. A. Fessenden	706,746	Aug. 12	1448	319	100	1427
Signaling by electromagnetic waves. Apparatus for	R. A. Fessenden	706,747	Aug. 12	1450	319	100	1428
Signaling by electromagnetic waves. Selective	R. A. Fessenden	715,203	Dec. 2	1061	228	101	3053
Signaling device	C. Kitching	713,774	Nov. 18	2535	584	101	1452
Signaling-machine	H. L. McGowan	708,904	Sept. 9	1636	388	100	2340
Signaling mechanism	R. Herman	695,723	Mar. 18	2580	584	98	2285
Signaling mechanism	A. P. Dwelly	697,999	Apr. 22	3014	662	99	689
Signaling. Selective electric	J. S. Stone	714,756	Dec. 2	198	40	101	1878
Signaling. Semaphore-indicator for electric	H. Gulliver	708,987	July 1	1076	284	100	214
Signaling system	J. J. Ruddick	704,117	July 8	1406	302	100	226
Signaling system	H. Shoemaker	711,182	Oct. 14	1519	327	101	332
Signaling system	H. Shoemaker	711,444	Oct. 14	2001	434	101	431
Signaling system and apparatus used therein. Electric	R. G. Callum	706,218	Aug. 5	412	88, 89	100	1200
Signaling system. Day	B. A. Fiske	716,402	Dec. 23	3413	744	101	2593
Signaling system. Electric	W. W. Salmon	692,917	Feb. 11	1278	281	98	1089
Signaling system. Electric	A. J. Wilson and W. W. Salmon	692,959	Feb. 11	1372	298	98	1107
Signaling system. Electric	F. K. Fassett	711,202	Oct. 14	1565	336	101	340
Signaling system. Electrical	A. C. and A. C. McKnight, Jr.	717,112	Dec. 30	4886	1058	101	2931
Signaling. Wireless	R. A. Fessenden	706,740	Aug. 12	1428	316	100	1424
Signaling. Wireless	R. A. Fessenden	706,742	Aug. 12	1433	317	100	1425
Signaling. Wireless	R. A. Fessenden	706,743	Aug. 12	1440	318	100	1426
Signaling system. Wireless	H. Shoemaker	711,132	Oct. 14	1308	303	101	305
Signaling system. Wireless	G. W. Pickard	711,174	Oct. 14	1501	324	101	327
Signaling system. Wireless	H. Shoemaker	711,183	Oct. 14	1521	327	101	332
Signaling system. Wireless	H. Shoemaker	711,184	Oct. 14	1526	328	101	332
Signaling system. Wireless	H. Shoemaker	711,269	Oct. 14	1669	360	101	361
Signaling to or communicating with ships. Means for	L. Daft and A. Williams	711,386	Oct. 14	1902	414	101	411
Signalphone. Automatic gravity-	E. E. Salisbury	696,198	Mar. 25	3512	787	98	2491
Signature-gatherer	D. M. and D. G. Smyth and H. Hastings	715,890	Dec. 16	2390	530	101	2365
Signature-gathering machine	H. L. Roberts	715,872	Dec. 16	2361	523	101	2359
Silk. Artificial	H. S. Mork, A. D. Little, and W. H. Walker	712,300	Oct. 28	3480	745	101	767
Silk fiber. Intensifying the luster of	C. Stuart	705,715	July 29	4649	1007	100	1000
Silk. Intensifying the luster of	C. Stuart	709,524	Sept. 23	2987	665	100	2643
Silk-lustering machine	C. Stuart	705,716	July 29	4650	1008	100	1009
Silk. Manufacture of artificial	H. Bernstein	712,756	Nov. 4	532		101	1007

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr-g.	Vol.	Page.
Silk. Preparation of collodion for the manufacture of artificial	J. Douge	699,155	May 6	52		99	1186
Silk-reeling machine. Hot-air	J. P. Evertz	691,457	Jan. 21	2078	464	98	467
Silo	J. W. Smith	691,818	Jan. 28	2765	623	98	627
Silo	G. H. Greenfield	694,377	Mar. 4	75	17	98	1727
Silo	S. P. White	699,602	May 6	899	208	99	1361
Silo	J. W. Woodruff	699,997	May 13	1684	387	99	1534
Silo	J. W. Woodruff	699,998	May 13	1685	387	99	1535
Silo	O. F. Wallihan	708,324	June 24	3745	862	99	2930
Silo	F. J. Ernewein	708,338	June 24	3782	871	99	2938
Silo	G. B. Manlove	708,189	Aug. 5	360	79	100	1191
Silo	E. B. Lacey and A. J. Fuller	707,123	Aug. 19	2142	480	100	1589
Silver. Manufacture of colloidal	C. Paal	701,606	June 3	588		99	2231
Sinew-extractor	J. C. Scannell	706,853	Aug. 12	1657	370	100	1473
Singletree attachment	J. Hafer, Sr.	694,544	Mar. 4	406	89	98	1798
Singletree attachment	J. Hafer, Sr.	694,545	Mar. 4	407	89	98	1798
Singletree attachment	J. W. Magarvy	707,935	Aug. 26	3774	447	100	1840
Singletree attachment	M. A. Pike	711,344	Oct. 14	1832	398	101	307
Singletree-clip	C. J. Burch	706,897	Aug. 12	1745	389	100	1491
Singletree-clip	E. Weaver	711,087	Oct. 14	1328	287	101	289
Singletree end iron	P. H. De Rochemont	695,289	Mar. 11	1828	406	98	2113
Singletree-hook	T. S. Young	697,929	Apr. 15	2868	632	99	640
Singletree or doubletree	J. M. Dunlap and J. W. Tracy	712,916	Nov. 4	853	198	101	1071
Sink and connection thereof	E. A. Fountain and S. Myers	711,845	Oct. 21	2781	616	101	1543
Sink-cleaning device	W. McIn	715,107	Dec. 2	3916	188	101	2017
Sink garbage-holding attachment	E. C. Cox	690,888	Jan. 7	901	200	98	190
Sinker-bur holder	E. Tompkins	714,061	Nov. 18	3112	688	101	1572
Siphon	D. A. Kreider	695,739	Mar. 18	2613	593	98	2292
Siphon	W. C. Mützer	710,598	Oct. 7	388	81	101	77
Siphon attachment	H. C. Tuller	691,021	Jan. 14	1243	281	98	274
Siphon. Automatic	S. W. Miller	710,708	Oct. 7	277	121	101	118
Siphon-cleaning or polishing apparatus	S. M. Skotton	695,755	Mar. 15	2941	690	98	2298
Siphon-filling apparatus	L. Gansz	714,573	Nov. 25	4081	903	101	1787
Siphon-filling machines. Salts-injector for	J. H. Fox	702,717	Nov. 17	2617	602	99	2685
Siphon for dispensing liquids	A. Kleinfeldt	706,423	Aug. 5	849	186	100	1285
Siphon-head	C. L. Bastian	711,461	Oct. 21	2051	444	101	455
Siphon-head for soda-water bottles, &c	J. V. Fassmann	710,674	Oct. 7	531	110	101	108
Siphon. Pneumatic	A. J. Weekley	716,323	Dec. 16	3337	707	101	2543
Size. Making resin	F. and H. Arledter	701,125	May 27	3916	990	99	2034
Skate	O. W. Everett	690,711	Jan. 7	668	148	98	141
Skate. Automatic cycle or bicycle	E. E. Ries	706,783	Aug. 12	1524	338	100	1444
Skate-clamp	J. H. Morrison	702,145	June 10	1552	351	99	2446
Skate. Combined road and ice	J. Sakrzewski	700,377	May 20	2489	570	99	1719
Skate. Ice	F. E. Brown	708,232	June 24	3613	830	99	2902
Skate. Rolling	A. Houce	698,281	Apr. 22	3553	783	99	801
Skate-runner	F. M. Stromsem	710,537	Oct. 7	277	61	101	56
Skate wheel. Roller	A. L. Foy	698,110	Apr. 22	3237	706	99	735
Skein-holder	L. M. Tressel	710,126	Sept. 30	4143	935	100	2893
Skein-holder	J. O. West	712,874	Nov. 4	770	178	101	1055
Skelp-bending machine	G. G. and R. O. Blakey	708,015	Sept. 2	25	6	100	1986
Skewer-making machine	A. T. True	691,987	Jan. 28	3062	687	98	687
Skiscope	K. A. Mott	696,350	Mar. 25	3826	853	98	2558
Skid	L. D. Junkins	692,299	Feb. 4	142	34	98	828
Skid	B. H. Alvey	698,095	Apr. 22	3194	698	99	727
Skid	E. B. Richardson	711,677	Oct. 21	2467	542	101	544
Skins. Splitting	F. W. Moore	708,382	Sept. 2	687		100	2121
Skipping-rope. Musical	C. W. Edwards	693,693	Feb. 18	2814	618	98	1424
Skirt and drawers. Combined	L. A. Burgard	700,477	May 20	2678	614	99	1757
Skirt and shirt-waist fastener	L. M. Browning	711,096	Oct. 14	1342	292	101	292
Skirt and waist supporter	J. C. McDonald	699,339	May 6	395	92	99	1254
Skirt attachment	G. H. L. Clark	718,286	Nov. 11	1612	365	101	1242
Skirt-clasp and waist-retainer. Combined	W. C. Cortelyou	699,286	May 6	295	69	99	1235
Skirt-drier	E. P. McCloskey	717,439	Dec. 30	5509	1196	101	3063
Skirt-elevator	C. W. L. Barber	709,459	Sept. 23	3283	634	100	2608
Skirt-elevator. Lady's	G. W. Foy	695,546	Mar. 15	2965	512	98	2222
Skirt-holder	V. F. Revor	698,056	Apr. 22	3108	684	99	709
Skirt-holder	C. W. Baughman	707,862	Sept. 30	3591	810	100	2780
Skirt-holder	L. C. Edmunds	713,972	Nov. 18	2933	650	101	1534
Skirt-holder or skirt-suspender	W. Mehfeldt	709,823	Sept. 23	3529	795	100	2753
Skirt. Lady's	G. Lewis	698,205	Apr. 22	3423	753	99	774
Skirt lifter. Dress	J. and K. M. Hammer	696,561	Apr. 1	304	72	99	69
Skirt-protector	W. F. Wymann	698,298	Apr. 22	3479	765	99	786
Skirt-protector	J. Cathrein	707,387	Aug. 19	2643	597	100	1694
Skirt-protector	G. S. Hensel	710,687	Oct. 7	554	116	101	114
Skirt-retainer	M. C. Huffman	704,042	Aug. 5	1243	268	100	261
Skirt-supporter	J. Mathison	696,650	Apr. 1	462	108	99	99
Skirt-supporter	L. H. Flory	706,172	Aug. 5	333	71	100	1185
Skirt-supporter	L. E. Hacherelle	706,232	July 8	444	83	100	1207
Skirt-supporter	E. J. Lloyd and W. E. B. Pierce	715,098	Dec. 2	872	188	101	2015
Skylight	C. Rupp	691,668	Jan. 21	2459	551	98	547
Skylight	A. N. Staples	697,320	Apr. 8	1565	351	99	852
Skylight	E. J. Hulse	707,419	Aug. 19	2707	613	100	1707
Skylight-opener	G. Bickelhaupt	701,135	May 27	3936	905	99	2038
Slab or tile for building purposes	N. Poulson	707,635	Aug. 26	3131	704	100	1812
Slabs with plain or ornamental surfaces of plastic cement or composition. Machinery for making	G. B. Hall	707,921	Aug. 26	3750	841	101	1936
Slack-adjuster	W. H. Sauvage	704,970	July 15	3061	658	100	654
Slack-adjuster	W. J. Keville and J. P. Carey	710,361	Sept. 30	4563	1029	100	2983
Slag-casting machine	C. H. Rhoad	715,868	Dec. 16	2355	521	101	2358
Slag-heating apparatus	J. A. Potter	709,112	Sept. 16	2118	486	100	2447
Slag. Making basic	J. Reese	714,330	Nov. 25	3648		101	1701
Slag. Molding	S. Norton	710,882	Oct. 7	915	199	101	186



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Slat-and-wire fabric. Machine for making	J. Reif, Jr	693,152	Feb. 11	1751	384 385 386	98	1183
Slat-and-wire-fabric-making machine	J. Reif, Jr	715,421	Dec. 9	1460	315 316	101	2154
Slat-forming machine	G. W. Packer	705,434	July 22	4049	877 878	100	870
Slat-trimming mechanism	J. Reifa, Jr	698,139	Apr. 22	3289	720	99	745
Slate	W. F. Hahn	693,385	Feb. 14	222	487	98	1302
Slate-cutting machine	C. R. Huston	703,357	June 24	3668	843	99	2013
Sled	A. F. Lagerstrom	702,306	June 10	1824	416	99	2500
Sled	C. Miller	705,943	July 29	5945	1090	100	1080
Sled. Bob	J. C. Meyers	696,991	Apr. 8	1166	260	99	268
Sled. Bob	J. H. Anderson	714,435	Nov. 25	3835	849	101	1738
Sled. Hand	J. Mauser	715,405	Dec. 9	1429	308	101	2147
Sled. Logging	W. E. Organ	713,915	Nov. 18	2812	624 625	101	1509
Sled-runner	G. Johnson	694,753	Mar. 4	799	177	98	1881
Sleeper or tie. Metallic	J. I. Newburg	706,587	Aug. 12	1141	253	100	1362
Sleeping-bag	L. W. Morton	713,329	Nov. 11	1689	381	101	1259
Sleeve-holder	H. G. Carpenter	700,478	May 20	2680	614	99	1757
Sleeve-holder	A. J. Barber	703,366	July 1	6	2	100	4
Sleeve-protector	H. M. Wood	701,445	June 3	1260	33	99	2166
Sleeve-protector	E. J. Betts	713,674	Dec. 21	1470	337	101	1214
Sleigh	A. H. Flint	698,000	Apr. 22	3015	662	99	690
Sleigh	F. F. Long	699,540	May 6	769	181	99	1333
Sleigh	P. R. Gwyn	703,914	July 1	994	216	100	198
Sleigh	P. Martinson	712,697	Nov. 4	430	100	101	986
Sleigh attachment. Bob	R. McArthur	714,389	Nov. 25	3749	827	101	1721
Sleigh. Bob	H. Korte	695,317	Mar. 11	1869	416	98	2121
Sleigh-knee	M. Creighton	716,674	Dec. 23	3923	854	101	2708
Sleigh-runner	W. N. Williams	703,510	July 1	242	56	100	49
Sleigh-runner. Detachable	W. W. Topliff	703,856	July 1	888	195	100	178
Sleigh-runner. Double-ender	J. E. Hobbs	716,543	Dec. 23	3709	808	101	2656
Slicer	G. L. Leachman	717,223	Dec. 30	5139	1114	101	2987
Slicer and cutter. Potato	L. L. Stevens	710,085	Sept. 30	4052	912 913	100	2874
Slicer. Potato	W. H. Weaver	711,088	Oct. 14	1329	287 288	101	280
Slicer. Vegetable	H. L. Bailey	712,753	Nov. 4	325	123	101	1006
Slicer. Vegetable	J. J. Hall	713,430	Nov. 11	1861	421	101	1296
Slicing-machine	S. Drury	692,640	Feb. 4	745	172	98	952
Slicing-machine	C. R. Zorsch	702,852	June 17	2871	663	99	2738
Slide-changing mechanism	M. Berger	712,034	Oct. 28	3175	694	101	708
Slide-loop clip	I. Goures	691,133	Jan. 14	129	98	98	315
Slide-opening	F. J. Betts	697,436	Apr. 15	1980	438	99	457
Sliding bolt	C. E. Long	708,892	Sept. 9	1664	382	100	2334
Sling-lock trip	J. Ney	690,659	Jan. 7	561	122	98	120
Sliver-can	J. B. Crouch	716,675	Dec. 23	3954	864	101	2709
Slot-machine	W. Klepetar	701,358	June 3	140	29	99	2137
Slotting machine. Blank	E. C. Henn	694,965	Mar. 11	1214	265	98	1986
Slugging and nailing machine jack	L. A. Casgrain	705,512	July 22	4199	913	100	898
Sluice. Automatic	W. B. Skotnicki and A. F. Ostrowski	700,096	May 13	1854	432 433	99	1570
Sluice-box	L. B. Tanner	695,085	Mar. 11	1434	316	98	2032
Sluice-box	F. M. Johnson	702,956	June 24	3080	709	99	2796
Sluice-gate-operating mechanism	W. J. Ritchie	695,898	Mar. 18	2798	637 638	98	2830
Sluice or runway	G. Telford	717,301	Dec. 30	5264	1142	101	3013
Small-arm	A. Frank	701,321	June 3	76	16	99	2124
Small-arms	S. J. Evans	713,623	Nov. 18	2261	503 504	101	1392
Smearing-preventing device	O. Roesen	697,174	Apr. 8	1484	332	99	335
Smelting and refining volatile metals	J. Armstrong	713,043	Nov. 4	1074	250	101	1115
Smelting-furnace	H. E. Auman	692,776	Feb. 4	983	223	98	968
Smelting-furnace	C. Laughlin	707,692	Aug. 26	3061	689	100	1737
Smelting-furnace	C. Laughlin	707,692	Aug. 26	3062	689	100	1737
Smelting-furnace	W. F. Hannes	712,374	Oct. 28	3779	837	101	830
Smelting-furnace. Copper	G. Mitchell	691,648	Jan. 21	2417	543	98	538
Smelting-furnace. Electric	F. C. Weber	704,993	July 15	3108	669 670	106	663
Smelting-furnace. Iron	H. A. Jones	715,263	Dec. 9	1181	252	101	2046
Smelting-furnace. Reverberatory	F. Davegold	695,863	Mar. 18	2851	647	98	2343
Smelting zinc	S. Davies	694,947	Mar. 11	1171	256	98	1978
Smoke-abating device	F. R. Selman	698,145	Apr. 22	3301	723	99	748
Smoke and cinder conveyer	H. S. Lord	700,955	May 27	3590	825 826	99	1165
Smoke and spark-preventing device	W. S. Hughes	707,332	Aug. 19	2548	574	100	1674
Smoke-bell	B. Barnett	710,834	Oct. 7	840	183	101	171
Smoke-burning furnace	J. E. Cavanagh	695,089	Mar. 11	1441	319	98	2034
Smoke-conductor	D. L. Potter	714,606	Nov. 25	4148	917 918	101	1802
Smoke-consumer	J. W. Jackson	695,155	Mar. 11	1576	350	98	2063
Smoke-consumer	D. Clump and W. Hofmeister	701,296	June 3	31	6	99	2115
Smoke-consumer	J. S. Donohue	703,048	June 24	3258	749	99	2832
Smoke-consumer	W. T. Keogh	706,420	Aug. 5	844	185	100	1284
Smoke-consumer	L. E. Morgal	707,341	Aug. 19	2564	578 579	100	1677
Smoke-consumer	J. P. Kelly	708,362	Sept. 2	669	149	100	2115
Smoke-consumer	J. W. Johnson	708,644	Sept. 9	1162	264	100	2228
Smoke-consumer	C. E. Padgett, A. M. Cowham, and W. H. Allen	713,238	Nov. 11	1466	332	101	1214
Smoke-consuming apparatus	L. E. C. Brushaber	697,069	Apr. 8	1314	290	99	298
Smoke-consuming apparatus for steam-boiler or like furnaces.	R. D. Brett	707,957	Aug. 26	3800	833 834	100	1945

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Smoke-consuming apparatus. Furnace	A. Anderson	714,434	Nov. 25	3834	848	101	1737
Smoke-consuming appliance for furnaces	J. Alves	707,534	Aug. 26	2926	662	100	1770
Smoke-consuming attachment	W. McNeil	708,149	June 24	3454	792	99	2871
Smoke-consuming device	J. H. Strehli	690,671	Jan. 7	582	126	98	124
Smoke-consuming furnace	G. S. and J. J. Huff	690,580	Jan. 7	406	84	98	88
Smoke-consuming furnace	J. J. and G. S. Huff	695,581	Jan. 7	408	84, 85	98	80
Smoke-consuming furnace	H. G. Cox	692,782	Feb. 4	960	225	98	1000
Smoke-consuming furnace	C. M. Barnard	700,605	May 20	2896	665	99	1803
Smoke-consuming furnace	J. A. McAllister	711,255	Oct. 14	1656	356	101	359
Smoke-consuming furnace	B. F. Binnix	716,369	Dec. 23	3344	731	101	2579
Smoke-conveyer	W. L. Gale	708,035	Sept. 2	75	17	100	1997
Smoke, fumes, and gases. Apparatus for condens- ing	W. B. Jackson	700,934	May 27	3564	820	99	1959
Smoke-preventer	J. H. Hobart	697,085	Apr. 8	1345	298	99	305
Smoke-preventer. Automatic	R. W. Cavenaugh	698,948	Feb. 25	3296	725	98	1539
Smoke-preventing and fuel-saving device for boiler or other furnaces.	G. Gregory	694,147	Feb. 25	3675	813	98	1616
Smoke-preventing device	G. M. Conway	698,112	Feb. 11	1670	963	98	1168
Smoke-preventing furnace	H. F. Hayden	704,325	July 8	1782	380	100	374
Smoke-preventing furnace	H. F. Hayden	704,326	July 8	1785	390	100	375
Smokeless combustion-furnace	C. Wegener	711,805	Oct. 21	2715	599	101	596
Smokeless combustion-furnace	C. Wegener	712,467	Oct. 28	3972	808	101	871
Smokers' articles. Manufacturing	G. L. Flusin	714,587	Dec. 2	501	101	1936	
Smoker's pipe	H. W. Rice	712,851	Nov. 4	731	168	101	1048
Smoking-pipe	A. S. Spears	707,208	Aug. 19	2414	541	100	1646
Smoking-pipe	C. P. Remore	708,404	Sept. 2	728	164	100	2129
Smoking-pipe	R. N. Barger	711,691	Oct. 21	2494	547	101	550
Smoking-pipes. Manufacturing	W. C. Cunningham	702,708	June 17	2600	598	99	2681
Smoothing-iron	B. F. Albaugh	701,825	June 10	966	215	99	2327
Smoothing-iron	J. Jones	705,248	July 22	3657	791	100	790
Smoothing-iron. Vapor-heated	W. Mitchell	694,770	Mar. 4	844	187	98	1890
Smut-machine	A. Coleman	690,565	Jan. 7	380	78	98	82
Smut-machine	J. L. Owens	699,892	May 13	1407	343	99	1490
Smut-machine	J. L. Owens	699,893	May 13	1500	344	99	1499
Snap	H. A. Wroe	691,690	Jan. 21	2497	559	98	555
Snap. Harness	L. A. Parsley	712,955	Nov. 4	984	217	101	1088
Snap. Harness	A. C. Getz and C. S. Rowsey	715,655	Dec. 9	1895	423	101	2240
Snap-hook	W. A. Schleicher	691,185	Jan. 14	1521	348	98	332
Snap-hook	A. K. Lovell	691,396	Jan. 21	1972	442	98	446
Snap-hook	H. Sexton	691,669	Jan. 21	2461	551	98	548
Snap-hook	E. Weber and F. C. Frey	693,194	Feb. 11	1859	402	98	1205
Snap-hook	G. W. H. Schreffler	697,367	Apr. 8	1812	406	99	405
Snap-hook	B. P. Mattison	699,685	May 13	1097	257	99	1414
Snap-hook	A. J. Towner	700,581	May 20	2860	657	99	1796
Snap-hook	J. Grigg	701,332	June 3	100	20	99	2180
Snap-hook	R. W. Levitt	701,586	June 3	553	121	99	2223
Snap-hook	J. C. Myers	710,497	Oct. 7	186	40	101	39
Snap-hook	A. R. Clarke	711,655	Oct. 21	2414	531	101	532
Snap-hook	C. F. Reynolds	714,033	Nov. 18	3036	675	101	1557
Snap-hook	C. A. Buck	714,777	Dec. 2	246	40	101	1887
Snap-hook	A. R. Otterman	716,745	Dec. 23	4080	894	101	2736
Snap-hook. Combined bridle and halter.	J. Candlish	690,832	Jan. 7	893	198	98	189
Snap. Plow-line	W. L. Peterson	695,699	Mar. 18	2550	577	98	2279
Snap-switch	A. Sundh	692,217	Jan. 28	3485	788	98	773
Snap-switch	H. E. Reeve	715,511	Dec. 9	1628	353	101	2186
Snow-compressing machine	R. Shirreffs	698,566	Apr. 29	4043	894	99	919
Snow guard or fender	F. A. Peter	706,684	Aug. 12	1934	292	100	1402
Snow-melter for railway-switches	G. Kovacs	690,742	Jan. 7	738	163	98	155
Snow-plow	C. L. Tolles	698,873	Apr. 29	4736	1043	99	1073
Snow-plow	P. W. Martin	706,980	Aug. 12	1872	419	100	1515
Snow-plow	W. W. Foss	710,853	Oct. 7	874	190	101	177
Snow-plow	M. Rounds.	716,283	Dec. 16	3166	693	101	2528
Snow-plow	J. W. Russell	717,283	Dec. 30	5290	1137	101	3006
Snow-plow. Cylinder rotary	H. H. Kryger	707,121	Aug. 19	2140	478	100	1588
Snow-removing device	J. Sullivan	716,784	Dec. 23	4153	911	101	2751
Soap	H. C. Peffer	704,364	July 8	1872	102	100	395
Soap and making same	B. L. Johnson	712,069	Oct. 28	3256	777	101	733
Soap. Apparatus for making designs in cakes of	E. H. Uckott	692,493	Feb. 4	477	112	98	886
Soap article	H. L. Boswell	701,463	June 3	325	72	99	2176
Soap boiling and finishing machine	L. Gottschalk	711,492	Oct. 21	2105	457	101	467
Soap cake	W. E. Robinson	692,481	Feb. 4	456	106	98	892
Soap cake	W. R. Bowen	702,531	June 17	2265	515	99	2612
Soap cake	W. Berry	710,939	Oct. 14	1019	225	101	224
Soap cake	N. J. Nilsson	717,256	Dec. 30	5190	1125	101	2998
Soap cake. Antiseptic	E. H. Uckott	711,403	Oct. 14	1928	419	101	416
Soap cakes. Apparatus for inserting floats in	W. Berry	695,026	Mar. 11	1331	293	98	2010
Soap container. Liquid	L. G. Langstaff	700,787	May 27	3287	755	99	1905
Soap cutting and spreading machine	T. Gaynor, Jr.	705,067	July 22	3255	704	100	709
Soap-granulator	J. Schwechler	698,144	Apr. 22	3300	722	99	747
Soap-holder	J. P. Eustis	708,577	Sept. 9	1633	375	100	2328
Soap-holder	A. E. Dusek	708,143	Sept. 16	2173	498	100	2459
Soap-holder. Pendant	R. H. Neumann	700,992	Aug. 12	1893	424	100	1590
Soap. Making	T. Parziale	700,229	May 20	2185	457	99	1657
Soap-mold	W. Berry	695,027	Mar. 11	1333	294	98	2011
Soap-mold	W. Berry	695,028	Mar. 11	1334	294	98	2011
Soap-plotting machine	L. Gottschalk	711,493	Oct. 21	2107	457	101	468



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Soap-press	J. R. Masecar.	699,887	May 13	1487	341	99	1496
Soap-press	W. S. Watson.	701,113	May 27	3887	802	99	2028
Soap-press	J. J. Forster and R. L. Murdock.	706,919	Aug. 12	1771	397	100	1496
Soap. Reservoir for dispensing liquid.	E. Lee	708,652	Sept. 9	1171	207	100	2230
Soap-saver	P. Leoni	711,872	Oct. 21	2848	629	101	625
Soap-saving device.	D. Rothschild	711,864	Oct. 14	1666	359	101	361
Socket.	N. M. Cox	717,353	Dec. 30	5332	119	101	3082
Socket-cover and globe-holder.	J. F. Wetmore	703,890	July 1	930	203	100	187
Socket member	W. B. Murphy	717,246	Dec. 30	5175	1122	101	2394
Socket. Regulating.	L. F. Bogia, Jr.	708,016	Sept. 2	26	6	100	1986
Socket-wrench. Adjustable	J. L. Paxson	708,816	July 1	819	181	100	164
Socket-wrench. Adjustable	J. C. Burgess	715,014	Dec. 2	720	153	101	1981
Soda alum. Making	J. F. White	714,846	Dec. 2	409	—	101	1917
Soda by electrolysis. Apparatus for producing caustic	E. A. Allen and H. K. Moore	716,804	Dec. 23	4191	918	101	2757
Soda-fountain apparatus and syrup-drawing can therefor.	J. C. Johnson	690,436	Jan. 7	96	21	98	23
Soda-water apparatus.	E. A. Wilcox	692,955	Feb. 11	1364	297	98	1106
Soda-water apparatus	R. M. Green, Jr.	702,132	June 10	1532	346	99	2441
Soda-water apparatus	R. M. and R. M. Green, Jr.	702,133	June 10	1533	346	99	2442
Soda-water-dispensing apparatus	C. A. Geddes	702,719	June 17	2821	608	99	2686
Soda-water-dispensing apparatus	C. A. Geddes	712,392	Oct. 28	3640	—	101	734
Soda-water-dispensing fountain	M. H. Pettigor	708,659	Sept. 9	1187	271	100	2233
Soda-water fountain	P. De Lacy	695,874	Mar. 18	2866	650	98	2346
Soda-water fountain	E. J. Calley	710,949	Oct. 14	1088	230	101	227
Soda-water fountains. Syrup-cock for	R. M. Green, Jr.	702,131	June 10	1531	345	99	2441
Sodium cyanid. Making	F. Roessler	708,070	Sept. 2	147	—	100	2011
Sodium cyanid. Making	F. Roessler	711,910	Oct. 21	2932	—	101	641
Sodium cyanid. Making	F. Roessler	716,590	Dec. 16	3230	—	101	754
Sodium peroxid. Compressing	G. F. Jaubert	709,490	Sept. 23	2908	—	100	2626
Sodium sulfoguaiacolate and making same	W. C. Alpers	692,588	Feb. 4	661	—	98	934
Sofa, couch, &c	H. Heineman	716,892	Dec. 30	4471	969	101	2844
Solar heater	P. G. Hubert	705,350	July 22	3903	845	100	839
Solder for soldering aluminium	J. C. Webster	707,470	Aug. 19	2788	—	100	1725
Solder to metal blanks. Machine for applying	J. Lee	705,937	July 29	5035	1098	100	1078
Solder to sheet-metal blanks. Machine for applying	G. Wilcox	695,520	Mar. 19	2206	500	98	2211
Soldering device	W. E. Crane and E. T. Holton	693,500	Feb. 18	2433	532	98	1347
Soldering-iron.	H. Geisenhöner and T. Van Aller	696,429	Apr. 1	66	15	99	18
Soldering-iron.	G. Guntz	705,732	July 29	4714	1020	100	1012
Soldering-iron.	J. C. Covert	707,212	Aug. 17	2820	619	100	1627
Soldering-iron.	A. Kaufman	712,338	Oct. 4	891	209	101	1079
Soldering-iron.	C. A. Kaiser.	715,083	Dec. 2	843	180	101	2008
Soldering-iron. Can-cap	W. Morse	713,665	Nov. 18	2331	520	101	1407
Soldering-iron heater	P. H. Bayley	698,894	Apr. 29	4781	1051	99	1081
Soldering-iron heater	M. J. Nash.	711,584	Oct. 21	2277	494	101	503
Soldering-machine	A. W. Livingston	692,319	Feb. 4	182	41	98	807
Soldering-machine	J. M. K. Letson and F. W. Burpee	697,345	Apr. 8	1779	338	99	398
Soldering machine. Can.	G. Wilcox	695,518	Mar. 18	2203	499	98	2210
Soldering machine. Can.	J. D. Cox and F. A. Odin	696,550	Apr. 1	281	66, 67	99	64
Soldering machine. Can.	J. G. Hodgson and J. C. Taliaferro.	704,257	July 8	1665	362	100	349
Soldering machine. Can.	B. Coll	708,798	Sept. 9	1462	334	100	2293
Soldering machine. Can-end.	H. C. Black	700,890	May 27	3475	335	99	1941
Soldering machine for sheet-metal cans. Automatic side-seam.	J. G. Hodgson and J. C. Taliaferro.	704,256	July 8	1658	361	100	347
Soldering machine. Side-seam.	H. B. Williams	702,168	June 10	1608	362	99	2457
Soldering or uniting seams of sheet-metal cans. Machine for	E. Norton	693,803	Feb. 18	2296	501	98	1461
Soldering pliers. Crown.	F. E. Roach	695,625	Mar. 18	2425	549	98	2255
Sole. Adjustable clump.	A. S. Hartrick	711,809	Oct. 14	1766	383	101	382
Sole chamfering and feather-edging machine	G. L. Preble	693,902	Feb. 25	3213	709	98	1523
Sole-edge setter. Rotary	H. A. Webster	699,480	May 6	534	132	99	1295
Sole for boots or shoes. Spiked	G. L. Pierce	715,138	Dec. 2	941	202	101	2029
Sole laying and rounding machine	W. H. Clark	698,257	Apr. 22	3506	772	99	792
Sole-laying-machine pressing-form.	G. H. Gifford	694,367	Mar. 4	43	11	98	1721
Sole-leveling machine	E. E. Winkley	692,401	Feb. 4	316	76, 77	98	866
Sole-rounding machine	C. F. Cushing	700,624	May 20	2039	675	99	1813
Soles. Machine for making pieced	G. E. Warren	706,615	Aug. 12	1194	265	100	1373
Solidifying and excavating the soil and constructing tunnels.	C. Soosmith	713,165	Nov. 11	1331	299	101	1187
Solvents from substances. Separating	F. G. du Pont.	712,406	Oct. 28	3847	849	101	846
Soot or ash pan	T. K. Stanton	705,468	July 22	4107	893	100	881
Sorting and addressing machine	S. Elliott.	707,961	Aug. 23	3812	857	100	1947
Sound and ventilating auditoriums. Means for reflecting and distributing	T. Boyd.	693,488	Feb. 18	2410	526	98	1342
Sound-box	W. V. P. Bradley	713,592	Nov. 8	2196	327	101	1379
Sound-box for recording or reproducing apparatus	E. Berliner and J. Sanders	715,003	Dec. 2	906	149	101	1978
Sound-concentrator	C. L. Hyde	711,974	Oct. 28	3071	673	101	688
Sound-conducting horn	G. A. Baldwin	715,237	Dec. 9	1129	242	101	2085
Sound-modifier	N. C. Durand	707,909	Aug. 26	3726	835	100	1929
Sound-motor	W. L. Smith	701,410	June 3	222	50	99	2153
Sound-producing device suitable for sirens, &c	R. Hope-Jones	702,557	June 17	2307	526	99	2620

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Sound-producing instruments. Means for regulating the tension of diaphragms of	J. F. Luscomb	695,883	Mar. 18	2882	653	98	2349
Sound-record of celluloid	A. N. Petit	708,828	Sept. 9	1537	851	100	2308
Sound-record reproducer	T. A. Edison	705,829	July 29	4838	1051	100	1039
Sound-records in celluloid. Producing	A. N. Petit	710,299	Sept. 30	4455		100	2362
Sound recording and reproducing apparatus. Horn for	G. Osten and W. P. Spalding	705,126	July 22	3382	732	100	734
Sound recording and reproducing device	E. R. Johnson	704,047	July 8	1250	270	100	263
Sound-reproducer	H. G. A. I. Wieder	708,849	Sept. 9	1581	360	100	2317
Sound-reproducing apparatus	T. B. Lambert	695,159	Mar. 11	1382	351	98	2064
Sound-reproducing apparatus	D. Higham	712,980	Nov. 4	875	205	101	1076
Sound-signals for nautical purposes. Apparatus for the reception of	E. De Meulemeester	701,166	May 27	3982	915	99	2049
Sounds Recording and reproducing	T. H. Macdonald	714,651	Nov. 25	4220	935	101	1817
Sounding apparatus. Navigational	L. Tanner	702,507	June 17	2228	508	99	2605
Sounding-board	S. W. Clark	713,401	Nov. 11	1822	410	101	1288
Soup material and making same	W. T. Scheele	707,646	Aug. 26	3155		100	1817
Sower. Broadcast seed-	D. E. Speicher and V. Rousey	712,342	Oct. 28	3727	814	101	819
Sowing apparatus	G. K. Spitzenberg	714,051	Nov. 18	3084	682	101	1567
Sowing machine. Seed-	D. Sumner	697,900	Apr. 15	2811	621	99	1127
Spanner device	G. C. Lees	694,923	May 13	1551	357	99	1509
Spanner attachment.	P. Rayson	713,492	Nov. 11	1978	447	101	1320
Spark and cinder arrester for locomotive smoke-stacks.	L. C. Laurent	707,063	Aug. 12	2027	453	100	1548
Spark-arrester	G. F. Moore, Jr.	692,165	Jan. 28	3377	765	98	750
Spark-arrester	W. P. Allen and J. E. H. Browne	694,228	Feb. 25	8834	849	98	1646
Spark-arrester	E. J. Smith	699,031	Apr. 23	5904	1107	99	1127
Spark-arrester	L. Atwood	712,236	Oct. 28	3546	776	101	781
Spark arrester and extinguisher	A. Garske	696,960	Apr. 8	1120	249	99	258
Spark arresting and discharging device	E. J. Smith	705,461	July 22	4099	891	100	879
Spark-interrupter	T. von Zweigbergk	691,693	Jan. 21	2504	560	98	557
Spark-preventer for locomotive or other engines	D. Drummond	704,008	July 8	1178	267	100	250
Sparkling-coil	M. H. Moffett	690,750	Jan. 7	748	167	98	158
Sparkling-coil casing	C. F. Splittorf	704,589	July 15	2292	498	100	494
Sparkling device	D. M. Bliss	702,695	June 17	2578	594	99	2677
Sparkling device	C. O. White	702,895	June 17	2954	681	99	2755
Sparkling plug	H. C. Folger, H. Moriarty, and E. B. Jacobson	696,670	Apr. 1	519	120	99	112
Sparkling plug	C. A. Mezger	700,147	May 13	1980	456	99	1594
Speaking-tube for trains	A. J. Boyd	694,825	Mar. 4	938	208	98	1911
Speaking-tube terminal.	J. O. Brown	690,557	Jan. 7	364	74	98	79
Spectacle attachment	A. A. Laforest	704,714	July 15	2496	540	100	537
Spectacle-bow	G. Gordon	692,269	Feb. 4	100	23	98	819
Spectacle-fitting instrument	T. Boothroyd and J. F. Johnson	716,516	Dec. 23	3643	796	101	2642
Spectacle-frame	F. Schick	710,015	Sept. 30	3922	885	100	2847
Spectacle-frame	J. M. Anderson	715,533	Dec. 9	1677	366	101	2196
Spectacle or eyeglass case	C. M. Wells	705,502	July 22	4174	908	100	892
Spectacle or eyeglass nose-piece	I. Fox	695,681	Mar. 18	2520	571	98	2373
Spectacles	M. H. Cohen	709,874	Sept. 30	3624	819	100	2786
Spectacles	A. H. Strassburger	712,616	Nov. 4	296	70	101	960
Spectacles	F. Schick	714,522	Nov. 25	3984	882	101	1766
Spectacles or eyeglasses	W. S. Essick	709,891	Sept. 30	3686	831	100	2797
Spectacles or eyeglasses. Frameless	L. Wilhelm	712,429	Oct. 28	3905	855	101	858
Spectacles or eyeglasses. Supplementary-lens mounting for	L. A. Conn	716,194	Dec. 16	3014	658	101	2498
Speculum. Vaginal	A. J. Bearer	693,345	Feb. 11	2128	468	98	1264
Speed and direction changing mechanism	E. L. P. Mors	701,073	May 27	3808	873	99	2011
Speed and reversing mechanism. Differential	W. Diebel	695,673	Mar. 18	2503	568	98	2271
Speed-changer	N. Christenson	698,103	Apr. 22	3207	569	99	730
Speed changing and reversing mechanism	W. P. Norton	691,963	Jan. 28	3023	679	98	680
Speed-changing apparatus	I. J. Foccart	716,881	Dec. 30	4452	965	101	2840
Speed-changing device	J. A. White	703,359	June 24	3842	884	99	2953
Speed-changing device	C. C. Tyler	710,225	Sept. 30	4336	975	100	2936
Speed changing device	W. T. Emmes	712,279	Oct. 28	3618	790	101	735
Speed-changing device	E. Innes and I. P. Hazard	716,550	Dec. 23	3723	810	101	2659
Speed-controller	F. Trinks	699,040	Apr. 29	5019	1110	99	1132
Speed-controlling and reversing mechanism	M. C. Johnson	699,872	May 13	1444	334	99	1486
Speed-controlling and reversing mechanism	M. C. Johnson	699,873	May 13	1451	335	99	1488
Speed device. Variable	W. E. Crane	705,209	July 22	3567	772	100	773
Speed device. Variable	F. M. W. Hanson and F. W. Gordon	706,049	Aug. 12	3905	191	100	1135
Speed driving mechanism. Two-	F. L. Sanders	707,944	Aug. 26	3785	849	100	1942
Speed driving mechanism. Variable	R. M. Head	692,658	Feb. 4	777	177	98	958
Speed-gage	H. S. Credlebaugh	705,514	July 22	4203	918	100	808
Speed. Indicating	J. H. Hudgson	713,986	Nov. 18	2953	655	101	1539
Speed-indicating system	J. L. Hall	706,554	Aug. 12	1092	240	100	1350
Speed-indicator	L. Mott	716,263	Dec. 16	3132	686	101	2522
Speed-indicator-operating means	C. E. Kelly	716,721	Dec. 23	4034	883	101	2725
Speed-indicator-operating means	C. E. Kelly	716,732	Dec. 23	4037	884	101	2726
Speed-limiting means. Safety	G. W. Henricks	700,491	May 20	2709	620	99	1764
Speed-measurer for rotary shafts	J. Heyde	715,067	Dec. 2	801	171	101	1998
Speed mechanism	J. S. and L. Heath and E. Baseman	710,271	Sept. 30	4409	994	100	2952
Speed mechanism	E. Baseman	717,154	Dec. 30	4977	1080	101	2951
Speed mechanism. Differential	H. R. Isler	704,645	July 15	2380	515	100	513
Speed mechanism. Variable	J. A. Smith	698,866	Apr. 29	4724	1041	99	1071
Speed mechanism. Variable	J. E. Caps	701,293	June 3	25	0	99	2113



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Speed mechanism. Variable.	A. Laidlar	701,581	June 3	546	119	99	2221
Speed mechanism. Variable.	R. K. Le Blond	706,186	Aug. 5	358	77	100	1189
Speed mechanism. Variable.	W. A. Wood	715,922	Dec. 16	2463	542	101	2382
Speed of vehicles. Instrument for indicating and recording the	J. Nutry	702,110	June 10	1498	337	99	2434
Speed recorder and register for vehicles	C. Francke and H. Schwabacher	698,793	Feb. 18	2975	657	98	1457
Speed-recording apparatus	R. W. Eaton	694,913	Mar. 4	1106	244	98	1946
Speed-recording apparatus	F. Bayerdoerfer	716,364	Dec. 23	3335	728	101	2577
Speed regulating and reversing device for power-transmitting mechanism	F. H. Bates	704,480	July 8	1974	430	100	415
Speed-regulator	N. Lombard	695,464	Mar. 18	2108	475	98	2190
Speed-regulator	H. T. Wilber	698,609	Apr. 29	4161	915	99	942
Speed-regulator	V. G. Apple	698,888	Apr. 29	4774	1049	99	1080
Speed-regulator	J. E. Johnson	706,321	Aug. 5	641	140	100	1245
Speed-regulator	H. P. White	708,439	Sept. 2	786	178	100	2140
Speed-regulator	M. G. Miller	716,456	Dec. 23	3522	770	101	2917
Speed-regulator for rotary shafts	A. E. Howe	703,261	June 24	3655	840	99	2011
Speed-regulator. Mechanical	H. P. White	703,027	June 24	3210	739	99	2824
Speed-sheave. Variable	E. Christensen	702,630	June 17	2462	564	99	2652
Speed-varying transmission	M. O. Reeves and E. K. Hood	710,714	Oct. 7	603	127	101	124
Speeds are exceeded by vehicles. Apparatus for indicating when certain predetermined	A. F. Poillevillein, (dit P. Villain)	707,254	Aug. 19	2390	535	100	1641
Spelling device. Fluid-pressure	J. Wiechmann	717,308	Dec. 9	5275	536	101	3016
Spelling-manual	R. R. Riordon	707,800	Aug. 26	3514	793	100	1889
Spelter-furnace	A. J. Ash	702,526	June 17	2257	514	99	2611
Spelter. Making	O. Nagel	699,969	May 13	1638		99	1526
Spelter. Refining	C. Wessell	698,163	Apr. 22	3337		99	756
Spigot and bung remover. Combined	T. Livingood	703,346	June 24	3811	876	99	2945
Spike	S. H. Bracey	692,793	Feb. 4	962	217	98	364
Spike drawer or extractor	G. F. Pearson	711,341	Oct. 14	1827	397	101	396
Spike-drawing tool	J. K. Reid	696,844	Apr. 1	843	194	99	178
Spike holder and puller	W. E. Sewell	692,369	Feb. 4	269	65	98	854
Spike-extractor	J. W. Pitts	695,487	Mar. 18	2144	484	98	2198
Spike-extractor	E. J. Kennedy	710,468	Oct. 7	124	29	101	27
Spike-extractor	W. C. Morrill	712,083	Oct. 28	3278	718	101	728
Spike-machine	H. H. Bringer	698,100	Apr. 22	3200	701	99	729
Spike-puller	N. F. Murphy	703,443	July 1	136	31	100	29
Spike-puller	W. L. Harris	714,107	Nov. 18	3184	704	101	1589
Spike-puller	G. Smith	714,250	Nov. 25	3493	769	101	1670
Spike-puller and car-mover. Combined	G. Grazier	692,272	Feb. 4	106	25	98	820
Spindle.							
See Axle-spindle.	Spinning-spindle.						
Bobbin-spindle.	Vehicle-wheel spindle.						
Hub-spindle.	Wagon-spindle.						
Leading-spindle.							
Spindle-adjusting device	O. Tyberg	715,526	Dec. 9	1667	364	101	2194
Spindle-driving mechanism	H. W. Bracken	711,093	Oct. 14	1335	290	101	290
Spinning	J. Widmer	700,272	May 20	2265	517	99	1675
Spinning and doubling apparatus	R. W. Moncrieff	714,933	Dec. 2	591	124	101	1953
Spinning and doubling fibrous substances. Machinery for	G. H. Milward	705,774	Sept. 29	4749	1028	100	1020
Spinning and doubling machine flier	T. Watson	708,945	Oct. 9	1748	404	100	2351
Spinning and doubling machinery. Cop-building mechanism for	T. Watson	691,991	Jan. 28	3066	689	98	688
Spinning and twisting frame. Ring	A. Hitchon	706,414	Aug. 5	832	181	100	1282
Spinning apparatus. Yarn	J. Booth	705,793	July 29	4678	1012	100	1005
Spinning apparatus. Yarn	G. O. Draper	707,215	Aug. 19	2326	520	100	1629
Spinning artificial-silk filaments for forming strands or threads. Apparatus for	R. W. Strehlenert	702,168	June 10	1595	360	99	2454
Spinning-band	G. M. Beadle	708,988	Sept. 16	1853	426	100	2391
Spinning device	C. W. and A. Mettler	696,390	Apr. 8	1165	290	99	207
Spinning, doubling, or twisting machine. Ring-	P. P. Craven	699,152	May 6	46	13, 14	99	1186
Spinning-frame	F. A. Breeze	711,756	Oct. 21	2619	577	101	577
Spinning-frame protector. Ring-	J. C. Wall and M. E. Schedlbauer, Jr.	695,876	Mar. 18	2868	651	98	2346
Spinning-frame roving-breaker	A. E. Rhoades	697,018	Apr. 8	1221	272	99	278
Spinning frames. Doffing-machine for ring-	J. E. Tichon and H. S. Foster	691,677	Jan. 21	2472	553	98	549
Spinning-head	F. A. Breeze	706,893	Aug. 12	1733	387	100	1488
Spinning-head	F. A. Breeze	708,458	Sept. 2	824	187	100	2148
Spinning-machine	J. G. Fredericks	699,672	May 13	1046	244	99	1104
Spinning-machine	J. Brown	713,283	Nov. 11	1599	362	101	1240
Spinning-machine cleaner	S. Mock and C. D. Robinson	708,061	Sept. 2	116	28	100	2005
Spinning-machine flier	J. and H. Wright	712,886	Nov. 4	734	184	101	1060
Spinning-machine roll	J. B. Hudson	692,855	Feb. 11	1131	252	98	1055
Spinning-machine shell-rolls	A. G. Boozer	709,298	Sept. 16	2487	559	100	2524
Spinning-machine traverse-motion	O. L. Owen	699,400	May 6	540	125	99	1286
Spinning-machine. Twine	R. A. Myers	706,989	Aug. 12	1888	423	100	1519
Spinning-machine yarn or thread guide	J. W. McCarthy	694,568	Mar. 4	454	97	98	1809
Spinning-machines. Vessel or pot for gathering fibers being thrown off	G. Stiehle	698,755	Apr. 29	4475	980	99	1013
Spinning-machinery doffing apparatus	A., G., and J. Stell	692,491	Feb. 4	470	110	98	805
Spinning-machinery drag device	T. Watson	691,992	Jan. 28	3069	630	98	689
Spinning or roving machine	W. V. Threlfall	707,462	Aug. 19	2773	628	100	1721
Spinning or twisting artificial fibrous material	R. W. Strehlenert	716,138	Dec. 16	2887	635	101	2471
Spinning or twisting frame	L. W. Campbell	690,694	Jan. 7	625	136	98	132

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Spinning or twisting frame.	L. W. Campbell	699,491	May 6	688	159	99	1318
Spinning or twisting machine	L. W. Campbell	690,634	Jan. 7	511	111	98	110
Spinning or twisting machine tension-regulator	A. C. Butler	691,594	Jan. 21	2314	521	98	516
Spinning or twisting machines. Truing up the drawing-rolls of	F. M. Marcy	697,262	Apr. 8	1640	367	99	369
Spinning. Preparing flax fiber for	G. H. Ellis	701,183	May 27	4010	922	99	2054
Spinning-ring	D. Harrington	693,797	Feb. 18	2982	659	98	1459
Spinning-ring	M. E. Sullivan	714,966	Dec. 2	643	185	101	1964
Spinning-ring-truing apparatus	W. Welch	712,109	Oct. 28	3320	728	101	736
Spinning-ring-truing mechanism	C. F. Roper	709,512	Sept. 23	2955	660	100	2685
Spinning-roll	E. Kempshall	700,125	May 13	1908	443	99	1579
Spinning-spindle	G. W. Stafford and S. M. Hamblin	695,179	Mar. 11	1613	358	98	2070
Spinning-spindle	W. Gibson	701,709	June 3	772	171	99	2270
Spinning-spindle	C. E. Lovejoy	708,374	Sept. 2	674	152	100	2118
Spinning-spindle	G. A. Draper	713,618	Nov. 18	2255	502	101	1391
Spinning-spindles. Knee-brake for stopping	J. Boyd	701,138	May 27	3940	906	99	2089
Spiral-shaped helically-twisted bodies. Manufacture of	J. Gieshoidt	714,890	Dec. 2	505	105	101	1937
Spittoon. Fountain.	W. E. Allen	708,221	June 24	3594	825	99	2808
Spittoon. Fountain.	C. M. Freeman	707,912	Aug. 26	3730	836	100	1930
Spittoon. Fountain.	J. C. Blair	715,005	Dec. 2	710	150	101	1979
Spittoon-guard	C. Hagen	693,007	Feb. 11	1454	316	98	1124
Spittoon. Pocket.	R. Buettner and X. Marx	700,733	May 27	3177	723	99	1880
Spittoon. Sanitary	N. J. Beaudin and N. R. Thibert	698,786	Apr. 29	4526	1000	99	1023
Spittoon. Street-car	R. B. Norwood	715,128	Dec. 2	918	197	101	2025
Splice-bar	F. Lieske	711,776	Oct. 21	2659	587	101	685
Splice-boxing machinery	A. B. Calkins	704,511	July 15	2148	465	100	465
Spacers, &c. Machine for catching	A. Aberg	691,344	Jan. 21	1869	421	98	423
Spoke and felly fastener.	J. S. Davis	692,123	Jan. 28	3310	750	98	736
Spoke-chipping machine	R. L. Notman	714,227	Nov. 25	3448	759	101	1660
Spoke-cutting machine	W. H. Exley	695,449	Mar. 18	2081	470	98	2185
Spoke end piece. Wheel.	G. S. Brantingham	692,821	Feb. 11	1073	241	98	1048
Spoke-fastener	B. B. Bowers	712,037	Oct. 28	3179	695	101	709
Spoke-fastener and tire-tightener. Combined	E. Leveille	696,458	Apr. 1	116	28	99	30
Spoke for vehicle-wheels. Elastic steel	H. G. M. Howard	706,659	Aug. 12	1278	282	100	1392
Spoke-holes in metallic wheel-fellies. Machine for drilling	G. H. Everson	701,694	June 3	747	165	99	2265
Spoke puller. Vehicle.	C. W. Sleeter	701,519	June 3	422	96	99	2195
Spoke-setting machine	G. P. Yeakel	703,883	July 1	934	204	100	187
Spoke-socket	W. B. Roberts	714,951	Dec. 2	621	130	101	1960
Spoke-throating machine.	C. Seymour	692,076	Jan. 28	3230	730	98	720
Spoke-tightener	V. J. La Bauve	706,071	Aug. 5	134	27	100	1144
Spokes, &c. Machine for making metallic	G. T. Warwick	693,342	Feb. 11	2121	465	98	1262
Sponge or muckage holder	H. W. Scattergood	698,325	Apr. 22	3620	799	99	815
Sponge. Protected	J. Williams	714,626	Nov. 25	4189	926	101	1809
Sponge substitutes. Forming	A. Straus	702,162	June 10	1594		99	2454
Spool and producing same	E. Hubbard	697,408	Apr. 8	1915	427	99	425
Spool-blanks. Machine for making	J. W. Carver	700,480	May 20	2684	615	99	1759
Spool for sand-reels, &c.	K. Chickering	704,435	July 8	1984	432	100	417
Spool-holder	J. H. Hilton	697,942	Apr. 15	2893	637	99	645
Spool-holding frame	P. D. Morton	691,287	Jan. 14	1720	391	98	374
Spool-machine	H. N. Pierce	701,081	May 27	3823	876	99	2014
Spool or bobbin	E. B. Crocker	700,176	May 20	2075	474	99	1636
Spool. Sheet-metal jack-	J. E. Zimmermann	715,729	Dec. 9	2040	456	101	2271
Spool-stand	E. Buftum	710,095	Sept. 30	4076	919	100	2879
Spout and faucet	A. J. Ketelsen	714,585	Nov. 25	4108	949	101	1794
Spout. Means for supporting and operating distributing	P. Nicolay	716,087	Dec. 16	2780	613	101	2449
Sprayer	R. Morrill	691,651	Jan. 21	2420	544	98	539
Sprayer	W. E. Chandler	697,446	Apr. 15	2003	442	99	461
Sprayer. Liquid.	L. A. Aspinwall	701,668	June 3	704	156	99	2255
Sprayer. Liquid.	L. A. Aspinwall	717,314	Dec. 30	5283	1148	101	3018
Spraying apparatus	M. J. Caswell	705,645	July 29	4504	977	100	972
Spraying apparatus	T. W. Lübbecke	716,910	Dec. 30	4508	978	101	2851
Spraying device.	C. T. Childers	693,496	Feb. 18	2422	529	98	1344
Spraying device.	C. E. Lanstrum	696,057	Mar. 25	3211	725	98	2430
Spraying device.	I. and J. Zimmermann	700,282	May 20	2286	522	99	1679
Spraying device.	R. E. Chapin	715,982	Dec. 16	2571	568	101	2405
Spraying-machine	G. A. Metcalf and R. K. Hall	694,106	Feb. 25	3606	798	98	1601
Spraying-machine	L. Doerr	699,292	May 6	308	71	99	1237
Spring							
See Bed-spring.	Friction-spring.						
Bolster-spring.	Shear-spring.						
Car-spring.	Tail-board spring.						
Carriage or wagon	Vehicle-spring.						
spring.	Vehicle resilient spring.						
Door-spring.	Vehicle-seat spring.						
Elliptical spring.	Vehicle truss-rod spring.						
Spring	M. H. Naber	710,502	Oct. 7	192	42	101	40
Spring	M. H. Naber	714,225	Nov. 25	3446	758	101	1660
Spring attachment for articles of wear, &c	P. E. Wirt	692,041	Jan. 28	3160	714	98	706
Spring attachment for articles of wear, &c	P. E. Wirt	692,042	Jan. 28	3164	714	98	706



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Spring attachment for articles of wear, &c	P. E. Wirt	692,096	Jan. 28	3270	739	98	728
Spring-clasp	C. Kellner	713,888	Nov. 18	2760	740	101	1499
Spring-clip	J. M. Mays	701,068	May 27	3802	871	99	2010
Spring-cushion	E. Denegre	709,969	Sept. 30	3848	866	100	2832
Spring-cushion	A. C. McCord	709,992	Sept. 30	3892	878	100	2841
Spring-cushion	A. C. McCord	709,999	Sept. 30	3895	878	100	2842
Spring-cushion and its support	W. H. Bates	701,461	June 3	321	71	99	2175
Spring-cushioning device	C. P. Byrnes	704,813	July 15	2705	585	100	578
Spring-cutting machine	F. H. Daniels and C. S. Marshall	713,208	Nov. 11	1406	317	101	1202
Spring for pillows, cushions, &c	J. H. Masland	691,065	Jan. 14	1319	298	98	290
Spring key or cotter	T. S. Brown	707,756	Aug. 26	3414	769	100	1869
Spring-lid box	A. M. English	694,357	Mar. 4	29	7	98	1718
Spring-motor	A. Bender	703,373	July 1	17	4	100	6
Spring-motor	J. S. Bay	712,432	Oct. 28	3910	856	101	858
Spring-motors. Automatic winding mechanism for	R. H. Sears	690,882	Jan. 7	969	220	98	204
Spring-seat	W. A. Murray	692,535	Feb. 4	568	133	98	914
Spring-seat	J. J. Breaker	698,365	Apr. 22	3689	814	99	830
Spring-seat	E. A. Hoefler	711,161	Oct. 14	1468	318	101	329
Spring-structure support	W. G. Engle	710,260	Sept. 30	4394	989	100	2948
Spring-wheel	J. Dicaire	709,142	Sept. 16	2172	497	100	2459
Spring-wheel	A. H. Huch	710,046	Oct. 26	3469	765	101	780
Spring-wirework	H. K. Kuersten	694,391	Mar. 4	107	319	98	1723
Springs. Machine for separating the coils of spiral	F. H. Daniels and C. S. Marshall	716,683	Dec. 23	3969	868	101	2711
Springs. Manufacture of	F. H. Daniels, C. S. Marshall, and J. O. E. Trotz	716,679	Dec. 23	3959	865	101	2709
Springs. Manufacture of	F. H. Daniels, C. S. Marshall, and J. O. E. Trotz	716,680	Dec. 23	3961	866	101	2710
Springs. Manufacture of	F. H. Daniels and C. S. Marshall	716,681	Dec. 23	3964	867	101	2710
Springs. Manufacture of spiral	F. H. Daniels and C. S. Marshall	716,682	Dec. 23	3967	868	101	2711
Springs or coils. Apparatus for the continuous manufacture of spiral	A. R. Cole and P. J. Donnelly	708,128	Sept. 2	240	57	100	2031
Springless hook. Self-locking	D. E. Barton	703,368	July 1	8	2,3	100	4
Springwork-clip	J. A. Staples	714,830	Dec. 2	353	78	101	1908
Sprinkler.							
See Automatic sprin- Lawn-sprinkler.							
Sprinkler-head	P. Huebner	709,907	Sept. 30	3711	837	100	2803
Sprinkler-head	J. K. S. Ray and W. D. McNeill	717,272	Dec. 30	5214	1182	101	3002
Sprinkling or spraying device	G. Schock	703,089	June 24	3345	769	99	2850
Sprocket attachment	J. G. Wangerin	697,577	Apr. 15	2216	494	99	503
Sprocket-wheel	D. C. Jackling	708,232	Sept. 2	438	100	100	2071
Sprocket-wheel	F. M. Bisbee	711,932	Oct. 28	3979	655	101	670
Sprocket-wheel	H. K. Kuersten	712,305	Oct. 26	3469	765	101	780
Sprocket-wheels. Casting	C. W. Levalley	694,395	Mar. 4	114	29	98	1737
Spur. Riding	J. G. Ridings	694,421	Mar. 4	164	37	98	1747
Spur. Riding	C. W. Davison	701,854	June 10	1022	228	99	2337
Sputum-receptacle and holder. Aseptic	C. M. Langhorne	709,164	Sept. 16	2236	506	100	2468
Square	A. L. Lundgren	708,376	Sept. 2	679	153	100	2119
Square	J. Phillips	710,509	Oct. 7	223	48	101	46
Square. Adjustable	L. S. Starrett	715,703	Dec. 9	1988	445	101	2259
Square and bevel. Combined set-	A. C. Smith	698,075	Feb. 11	1580	345	98	1150
Square and level. Combination	H. H. Richardson	705,867	July 29	4908	1067	100	1053
Square and protractor. Combination	E. Oehre	706,095	Aug. 5	175	36	100	1152
Square. Bevel	E. W. Streed	715,897	Dec. 16	2405	532	101	2369
Square bevel attachment	J. Sampson	715,610	Dec. 9	1818	403	101	3234
Square. Carpenter's	H. Smith and G. N. Lemmon	691,192	Jan. 14	1533	346	98	3324
Square. Carpenter's folding	E. J. Morrell	704,074	July 8	1316	287	100	276
Square. Center	K. O. Muehlberg	694,774	Mar. 4	851	188	98	1892
Square. Engineer's	W. Chesterman	707,301	Aug. 19	2487	558	100	1662
Square. Separable	C. L. F. and M. C. Hooker	705,403	July 22	3990	864	100	857
Square. T	G. M. Lees	703,140	June 24	3441	789	99	2869
Square. Tailor's	G. Adamo	710,399	Oct. 7	1	1	101	3
Square. Try	E. E. Elanberger	709,759	Nov. 25	3998	884	100	2725
Square. Try	S. R. Pugh	710,891	Oct. 27	93	201	101	189
Square. Try	H. B. Cary	715,550	Dec. 9	1724	380	101	2204
Squeeze-roll	W. P. Denegre	696,416	Apr. 1	46	10	99	13
Squeezer	J. Coomber	694,617	Mar. 4	540	118	98	1828
Squeezer	A. Baumgarten	703,518	July 1	258	59	100	52
Stack former and protector	E. M. Stipp	706,610	Aug. 12	1184	262	100	1371
Stack-protector. Adjustable	A. Quarrie, T. M. Morgan, J. S. Gibson, and C. S. Coatsworth	715,603	Dec. 9	1806	401	101	2222
Stacker	S. F. Weaver	697,578	Apr. 15	2218	491	99	503
Stacker	G. W. Worley	715,232	Dec. 2	1115	238	101	2065
Stacker fan. Pneumatic	J. K. Sharpe, Jr.	714,525	Nov. 25	3998	884	101	1770
Stacker fan. Pneumatic	J. K. Sharpe, Jr.	714,526	Nov. 25	3999	885	101	1770
Stacker for stalk-shredding machines. Pneumatic	C. E. Curtiss	715,760	Dec. 16	2112	473	101	2306
Stacker for threshing-machines. Pneumatic	O. O. Bodvig	712,902	Nov. 4	828	192	101	1066
Stacker for threshing-machines. Pneumatic straw	R. and T. B. Christie	715,849	Dec. 9	1337	288	101	2129
Stacker. Hay	S. C. Dunham	700,905	May 27	3504	804	99	1947
Stacker. Hay	H. J. Cope	701,357	May 27	4145	933	99	2079
Stacker. Hay	T. Cascaden, Jr.	706,290	Aug. 5	597	130	100	1286
Stacker. Hay	M. H. Mooney	716,738	Dec. 23	4058	889	101	2731
Stacker. Hay	C. W. Nickell	716,745	Dec. 23	4073	892	101	2734
Stacker hood. Pneumatic straw	G. M. Mitchell	711,116	Oct. 14	1370	298	101	298
Stacker. Pneumatic	D. Dow	696,553	Apr. 1	289	68	99	65
Stacker. Pneumatic	F. L. Norton	697,653	Apr. 15	2370	528	99	593

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Stacker. Pneumatic	J. B. Bartholomew	702,766	June 17	2713	623	99	2705
Stacker. Pneumatic	F. L. Norton	703,078	June 24	3320	624	99	2844
Stacker. Pneumatic	E. Huber and J. W. Miller	705,407	July 22	3995	865	100	858
Stacker. Pneumatic	J. H. Elward	706,037	Aug. 5	67	15	100	1181
Stacker. Pneumatic	J. H. Elward. (Reissue)	12,022	Aug. 19	2909	658	100	1749
Stacker. Pneumatic	C. Bradford	713,739	Nov. 18	2472	550	101	1439
Stacker. Pneumatic	W. McKone	713,787	Nov. 18	2558	551	101	1457
Stacker. Pneumatic	E. P. Alsted	717,312	Dec. 30	5281	1147	101	3017
Stacker. Pneumatic	A. A. Stelting	717,465	Dec. 30	5554	1206	101	3072
Stacker. Pneumatic straw	J. M. Andrews. (Reissue)	11,994	May 27	4190	961	99	2088
Stacker. Straw	M. Heineke	691,305	Jan. 14	1666	379	98	363
Stacker. Straw	A. Hagemeister	696,812	Apr. 1	789	180	99	167
Stacker. Straw	J. R. Buckwalter	698,793	Apr. 29	4537	1004	99	1026
Stacker. Straw	C. B. Hazard	703,414	July 1	90	19	100	21
Stacker. Straw	J. B. Bartholomew	706,214	Aug. 5	403	86	100	1199
Stacker. Straw	A. M. Kolp	712,311	Oct. 28	3671	802	101	807
Stacker. Straw	C. N. Leonard	713,119	Nov. 11	1241	282	101	1169
Stacker. Straw	C. H. Brunger	716,374	Dec. 23	3353	333	101	2581
Stacker. Wheeled straw	S. D. Feising and E. G. Gustafson	696,954	Apr. 8	1109	246	99	256
Stacker. Wind	E. A. Darst	692,246	Feb. 4	52	11	98	809
Stacker. Wind	M. Glynn	700,760	May 27	3237	742	99	1892
Stacker. Wind	W. H. McWilliams	704,906	July 15	2861	620	100	613
Stacker. Wind	J. W. Heaton	711,964	Oct. 28	3054	670	101	684
Stacker. Wind	C. Hearn	715,063	Dec. 2	797	69	101	1907
Stage illumination with indirect light	N. Fortuny	698,924	Apr. 22	4833	1066	99	1093
Stage or turn-table. Pivotal	A. Fryers	704,626	July 15	2351	511	100	506
Stage purposes. Property quadruped for	A. Braatz	695,908	Mar. 25	9242	662	98	2372
Staging bracket or support	H. B. Cramer	693,641	Feb. 18	2713	598	98	1404
Staging-clamp	J. Lally	706,185	Aug. 5	356	77	100	1189
Stair-builders. Adjustable form for	C. A. Ambrosius	699,057	Apr. 29	5048	1116	99	1138
Staircase. Winding	H. Snider	705,794	July 29	4782	1117	100	1028
Stair-lift	J. M. Dodge	693,789	Feb. 18	2968	655	98	1455
Stair-lift	J. M. Dodge	712,913	Nov. 4	848	197	101	1070
Stair-pad	M. H. Marcus	707,608	Aug. 26	3077	693	100	1801
Stair-pad	H. H. Sanderson	708,260	Sept. 2	489	112	100	2080
Stair-rod	F. S. Anderson	715,937	Dec. 16	2489	549	101	2388
Stair-rod and fastener	S. L. Stuver	711,136	Oct. 14	1408	304	101	307
Stair-rod fastener	W. Richards	701,394	June 3	195	42	99	2148
Stair-routing machine	F. V. Phillips	700,813	May 27	3339	766	99	1914
Stairs. Means for repairing wooden	F. Jensen	716,899	Dec. 30	4488	973	101	2947
Stairs, &c. System and apparatus for facilitating the ascent of	L. Brennan	702,534	June 17	2267	516	99	2613
Stairway	F. W. Weber	699,993	May 13	1677	336	99	1533
Stairway	G. C. Tillyou	700,455	May 20	2626	601	99	1747
Stairway	J. Piccardi	710,886	Oct. 7	923	202	101	188
Stairway. Moving	J. M. Dodge. (Reissue)	12,036	Sept. 30	4632	1045	100	2998
Staking-machine	F. J. Perkins	704,096	July 8	1352	294	100	283
Stalk-chopper	W. L. Adamson	710,232	Sept. 30	4347	977	100	2939
Stalk-cutter	W. R. Welsh	702,513	June 17	2238	510	99	2607
Stalk-cutter	M. D. Williams	705,183	July 22	3503	760	100	760
Stalk-cutter	J. H. Cotten	713,207	Nov. 11	1405	317	101	1202
Stalk-cutter	J. T. Kizer	715,586	Dec. 9	1782	395	101	2217
Stalk or weed cutter	T. A. Wood and J. W. Spann	712,883	Nov. 4	730	183	101	1059
Stalk-puller	W. B. McKinly	716,082	Dec. 16	2776	612	101	2448
Stalk-rake	J. L. Clark	704,516	July 15	2165	469	100	470
Stall	S. H. Frost and G. W. Southwick	712,516	Nov. 4	94	24	101	917
Stall. Animal	R. Smith	707,947	Aug. 26	3789	851	100	1943
Stall. Cattle	G. E. Horr	704,643	July 15	2378	515	100	512
Stall. Cow	W. A. Snow	716,352	Dec. 30	4578	934	101	2866
Stall-floor	J. W. Comer	714,677	Dec. 2	45	10	101	1846
Stall for cattle. Folding	R. A. McLery, J. W. Wilbur, and A. S. Wooster	706,772	Aug. 12	1503	334	100	1439
Stamp	E. H. Smith	703,011	June 24	3182	733	99	2818
Stamp affixer	B. H. Calkin	701,996	June 10	1282	294	99	2389
Stamp affixer	E. A. Bienenstok	707,198	Aug. 19	2296	513	100	1623
Stamp affixer	H. D. Long and J. Jackson	709,272	Sept. 16	2440	335	100	2514
Stamp affixer	J. W. Comer	714,536	Nov. 25	4018	889	101	1775
Stamp-affixing device	W. Wright	693,480	Feb. 18	2398	524	98	1339
Stamp-affixing machine	R. H. Strong	708,424	Sept. 2	762	171	100	2135
Stamp-affixing machine	C. J. Fancher	713,415	Nov. 11	1838	415	101	1291
Stamp-affixing machine	J. T. Welke	716,969	Dec. 30	4622	1002	101	2875
Stamp carrier and applicator. Postage	J. H. Lasserot	691,277	Jan. 14	1691	335	98	368
Stamp detaching and affixing machine	J. A. Chambliss	706,387	Aug. 5	774	170	100	1271
Stamp device. Postage	A. H. Pitney	710,997	Oct. 14	1128	249	101	248
Stamp. Hand	A. L. Edgarton	694,318	Feb. 25	4061	903	98	1686
Stamp. Hand	L. J. Hendershott	704,189	July 8	1550	334	100	325
Stamp. Hand	J. Durand	704,302	July 8	1742	380	100	366
Stamp-mill mortar	J. A. Merralls	703,104	Sept. 16	2104	482	100	2444
Stamp-mill tappet	J. C. H. Vaught	703,680	July 1	568	127	100	112
Stamp-pad	E. G. Woody	695,577	Mar. 18	2869	651	98	2347



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Stamp-rack. Hand.....	F. W. Glover.....	698,272	Apr. 22	3542	780	99	799
Stamp-stem.....	D. S. McKinney.....	701,077	May 27	3815	874	99	2012
Stamp-stem guide.....	D. C. Demarest.....	698,378	Apr. 22	3712	820	99	835
Stamp-tappet.....	C. C. Rueger.....	707,259	Aug. 19	2387	537	100	1643
Stamp. Time.....	C. S. Moseley.....	690,910	Jan. 7	1025	231	98	214
Stamp. Time.....	E. B. Hess and J. M. Stoughton.....	700,688	May 20	3056	696	99	1840
Stamp. Time.....	S. G. Miller.....	702,229	June 10	1704	384	99	2476
Stamp. Time.....	N. Collins.....	705,909	July 29	1983	1085	100	1068
Stamp. Time.....	C. F. Johnson.....	708,889	Sept. 9	1657	381	100	2333
Stamp. Time.....	F. W. Hubbard.....	717,405	Dec. 30	5450	1183	101	3051
Stamp with changeable face.....	W. T. Cressler.....	692,245	Feb. 4	49	11	98	809
Stamps, drop-hammers, &c. Safety device for.....	C. A. Thornton and C. W. Whittemore.....	708,095	Feb. 2	173	40, 41	100	2017
Stamps. Operating device for dating or other.....	H. De Wallace.....	710,144	Sept. 30	4178	941	100	2901
Stamps or labels upon envelopes, cards, &c. Machine for affixing postage.....	R. H. Strong.....	708,423	Sept. 2	760	171	100	2135
Stamping-machine.....	W. Kraemer.....	692,530	Feb. 4	559	131	98	912
Stamping-machine.....	H. L. Wilson.....	699,051	Apr. 29	5037	1114	99	1136
Stamping-machine.....	H. Watkins.....	702,753	June 17	2691	618	99	2701
Stamping-machine ejecting device.....	J. Shirreffs.....	701,405	June 3	215	48	99	2151
Stamping mill or machine. Metalliferous.....	J. G. Daw.....	707,678	Aug. 26	3224	724	100	1831
Stamping or embossing machine die-carrier.....	A. G. Brewer.....	694,127	Feb. 25	3641	805	98	1609
Stamping or punching tool.....	W. Neuendorf.....	714,602	Nov. 25	4133	914	101	1799
Stamping-press.....	A. Lion, M. E. Mosely, and A. H. Sproule.....	716,071	Dec. 16	2760	609	101	2445
Stamping press. Relief-color.....	R. F. Sproule.....	708,420	Sept. 2	756	170	100	2134
Stamping-presses, &c. Automatic feeding mechanism for.....	G. P. Schmidt.....	705,308	July 22	3783	821	100	815
Stanchion.....	E. Prescott.....	699,411	May 6	543	125	99	1286
Stanchion.....	G. B. Rogers.....	712,967	Nov. 4	952	221	101	1092
Stanchion. Cattle.....	O. H. Robertson.....	697,105	Apr. 8	1370	304	99	311
Stanchion. Cattle.....	D. F. McLennan.....	715,843	Dec. 16	2291	509	101	2343
Stand.....	See Adjustable stand. Hat-stand.						
Stand.....	Bicycle-stand. Horn-stand.						
Stand.....	Camera-stand. Ironing-stand.						
Stand.....	Christmas-tree stand. Liquid-receptacle stand.						
Stand.....	Cigar-stand. Moving stand.						
Stand.....	Display-stand. Photographic stand.						
Stand.....	Dress-fitting stand. Reading-stand.						
Stand.....	Drum-stand. Show-stand.						
Stand.....	Egg-stand. Spool-stand.						
Stand.....	Flower-stand. Switch-stand.						
Stand.....	Folding stand. Washstand.						
Stand.....	Washtub-stand.						
Stand-pipe.....	W. C. Krick.....	694,867	Mar. 4	1018	224	98	1028
Staple.....	C. Gulland.....	695,925	Mar. 25	2963	671	98	2379
Staple forming and driving machine.....	H. B. Rapson.....	717,270	Dec. 30	4041	1181	101	3002
Staple forming and driving mechanism.....	G. W. Packer.....	705,493	July 22	4047	877	100	869
Staple-puller.....	W. Edge.....	702,091	June 10	1468	331	99	2427
Stapling-machine.....	F. T. King.....	715,207	Dec. 2	1069	229	101	2055
Starch and zein. Obtaining.....	E. A. Barber.....	692,757	Feb. 4	948	215	98	992
Starch. Making.....	H. Wulkan.....	696,156	Mar. 25	3439	216	98	992
Starch. Making laundry.....	H. A. Frasch.....	717,184	Dec. 30	5066	.....	99	2478
Starch. Making modified.....	C. H. Tolhurst and A. G. Goldthwait.....	707,985	Aug. 26	3861	867	100	1956
Starch. Making thin boiling.....	L. Cerf.....	698,632	Apr. 29	4207	868	99	951
Starch. Manufacturing.....	C. B. Duryea.....	696,949	Apr. 8	1091	241	99	252
Starch material. Treating.....	J. Loiselet.....	702,571	June 17	2351	.....	99	2629
Starch or other amylaceous substances. Manufacturing rice.....	A. P. Anderson.....	707,892	Aug. 26	3895	890	100	1924
Starch-treating apparatus.....	E. Leconte and J. Loiselet.....	704,349	July 8	1947	400	100	390
Starch. Utilizing by-products of the manufacture of.....	C. H. Tolhurst and A. G. Goldthwait.....	707,986	Aug. 26	3863	868	100	1957
Starching-machine.....	A. S. Hoyt.....	710,461	Oct. 7	115	26	101	25
Starching-machine.....	S. S. Behrend.....	699,942	May 13	1591	364	99	1517
Starching-machine.....	E. B. Heindol.....	700,196	May 20	2106	483	99	1642
Starching-machine.....	E. B. Heindol.....	712,065	Oct. 28	3247	711	101	721
Starching-machine.....	W. H. Rickey.....	715,297	Dec. 9	1236	264	101	2108
Starting-gate.....	P. McGinnis.....	717,249	Dec. 30	5182	1123	101	2996
Starting mechanism.....	J. Baldwin.....	694,454	Mar. 4	226	50	98	1760
Starting mechanism for prime movers.....	C. M. Manly.....	710,486	Oct. 7	163	37	101	35
Starting or stopping mechanism.....	G. M. Brous.....	701,280	June 3	16	3	99	2112
Starting or stopping mechanism.....	A. Giacomini.....	701,872	June 10	1054	237	99	2344
Station-indicator.....	E. Leconte and J. Loiselet.....	704,349	July 8	1947	400	100	390
Station-indicator.....	A. M. Taylor.....	692,733	Feb. 4	905	207	98	984
Station-indicator.....	A. Cope.....	693,377	Feb. 18	2198	482	98	1298
Station-indicator.....	J. A. Mead.....	696,464	Apr. 1	129	31	99	83
Station-indicator.....	W. Smith.....	698,754	Apr. 29	4472	889	99	1012
Station-indicator.....	F. C. Luethy.....	699,924	May 13	1554	357	99	1509
Station-indicator.....	H. T. Smith and A. J. Tarrant.....	704,135	July 8	1456	312	100	306
Station-indicator.....	J. S. Anderson.....	709,293	Sept. 16	2475	557	100	2522
Station-indicator.....	A. Kuentz.....	709,912	Sept. 30	3722	839	100	2806
Station-indicator.....	J. D. Kneeder.....	712,143	Oct. 28	3389	743	101	749
Station-indicator.....	J. E. Smith.....	713,516	Nov. 11	2354	460	101	1335
Stationery-package box.....	J. P. Norton.....	715,127	Dec. 2	917	197	101	2024

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. E.	Vol.	Page.
Stationery packing and display box	W. A. Pike	704,708	July 15	2485	586	100	585
Statuary or other ornamental structures. Forming.	F. Peano	706,775	Aug. 12	1508	394	100	1440
Stave-blanks for casks. Machinery for jointing or finishing	A. Dunbar	702,932	June 24	3034	697 698 699	99	2787
Stave-column	J. S. Miller	694,320	Feb. 25	4064	904	98	1687
Stave-drying apparatus	W. H. Hines	691,140	Jan. 14	1439	327	98	315
Stave-jointing machine	H. U. Palmer	698,893	Feb. 25	3190	704 705	98	1518
Stave-tapering machine	W. H. Voss	711,599	Oct. 21	2318	506	101	511
Stay-bolt and making same	G. O. Gridley	699,678	May 13	1059	247	99	1406
Stay. Dress.	A. A. Dieter	694,619	Mar. 4	543	118	98	1828
Stay. Garment.	R. Herzog	714,372	Nov. 25	3724	820	101	1717
Stay-strip	M. D. Knowlton and F. H. Beach	716,249	Dec. 16	3115	681	101	2518
Steak-tenderer	W. W. Jacques	700,500	May 20	2723	623	99	1767
Steam and internal-combustion motor. Combined.	F. D. Clark	698,856	Apr. 1	1662	198	99	182
Steam and oil separator	J. T. Lindstrom	699,691	May 13	1091	256	99	1412
Steam and oil separator	E. Friesdorf	704,022	July 8	1302	202	100	255
Steam. Apparatus for separating grease from	W. J. Baker	692,415	Feb. 4	339	88	98	870
Steam-boiler	B. F. Jackson	690,730	Jan. 7	716	158	98	151
Steam-boiler	F. Burger and H. M. Williams	691,044	Jan. 14	1285	291	98	283
Steam-boiler	F. G. and F. H. Bates	691,580	Jan. 21	2285	513	98	510
Steam-boiler	B. A. Keeler and R. D. Fildes	691,907	Jan. 28	2915	657	98	658
Steam-boiler	J. H. McDonald and G. G. Worthington.	692,062	Jan. 28	3206	723 724	98	715
Steam-boiler	E. J. Pennington	694,493	Mar. 4	285	65	98	1773
Steam-boiler	C. B. Rearick. (Reissue)	11,974	Mar. 4	1149	251	98	1955
Steam-boiler	G. B. Raisle	696,079	Mar. 25	3250	736	98	2437
Steam-boiler	C. Holly	696,240	Mar. 25	3590	804	98	2507
Steam-boiler	A. Spencer	696,770	Apr. 1	716	161 162 163	99	153
Steam-boiler	J. S. Stevens	697,561	Apr. 15	2195	488	99	498
Steam-boiler	C. B. Rearick	699,812	May 13	1316	305 306	99	1459
Steam-boiler	E. J. Moore	700,066	May 13	1804	418 419	99	1559
Steam-boiler	C. P. Altmann	703,362	July 1	1	1	100	3
Steam-boiler	J. P. Simmons	704,588	July 15	2291	497 498 499	100	494
Steam-boiler	G. D. Miller	704,753	July 15	2577	556 557	100	553
Steam-boiler	E. W. McCanna	705,779	July 29	4756	1030	100	1022
Steam-boiler	J. J. Hoppes	706,563	Aug. 12	1096	243	100	1353
Steam-boiler	J. Platto	707,002	Aug. 12	1909	428	100	1323
Steam-boiler	H. A. Duc, Jr.	707,216	Aug. 19	2227	520	100	1629
Steam-boiler	J. A. Schlehr	708,407	Sept. 2	735	165	100	2130
Steam-boiler	C. Olson	709,082	Sept. 16	1959	448	100	2411
Steam-boiler	H. K. Hess	711,311	Oct. 14	1770	383	101	383
Steam-boiler	R. M. Downie and D. A. Messner	711,557	Oct. 21	2235	485 486	101	494
Steam-boiler	D. P. McQueen	711,783	Oct. 21	2673	589	101	517
Steam-boiler	W. Hopkins	711,860	Oct. 21	2519	624 625	101	699
Steam-boiler	C. Diedreath	712,260	Oct. 28	3601	786	101	793
Steam-boiler	H. L. Wilson. (Reissue)	12,052	Nov. 4	1084	252	101	1117
Steam-boiler	H. L. Wilson. (Reissue)	12,053	Nov. 4	1087	252	101	1118
Steam-boiler	L. Lewicki	713,462	Nov. 11	1919	494	101	1808
Steam-boiler	W. A. Woodeson	714,084	Nov. 18	3142	695 696 697	101	1579
Steam-boiler	W. A. Woodeson	714,085	Nov. 18	3146	697	101	1580
Steam-boiler	C. M. Raymond	714,237	Nov. 25	3473	764	101	1665
Steam-boiler	R. McKay	715,842	Dec. 16	2286	508 509	101	2342
Steam-boiler. Multitubular	F. D. Althaus	694,048	Feb. 25	3518	774	98	1584
Steam-boiler. Sectional	H. Bradley	710,420	Oct. 7	40	9, 10	101	10
Steam-boiler. Vertical	W. Penman	708,729	Sept. 9	1322	301	100	2262
Steam-boiler. Vertical-tube	F. Burger and H. M. Williams	696,714	Apr. 1	607	136 137	99	132
Steam-boiler. Water-tube	C. B. Rearick	695,869	Mar. 18	2836	647 648	98	2344
Steam-boiler. Water-tube	A. Meehborn	707,440	Aug. 19	2742	620 621	100	1714
Steam-boiler. Water-tube	P. J. Sweeney	714,530	Nov. 25	4007	827	101	1772
Steam connection. Revolving	F. Murgatroyd	708,900	Sept. 9	1681	387	100	2339
Steam. Controlling the generation of	C. and A. Musker and W. G. Hay	701,921	June 10	1138	260 261	99	2362
Steam-drier. Rotary	F. B. Giesler	694,366	Mar. 4	40	9, 10	98	1720
Steam-engine	R. T. Abell	691,228	Jan. 14	1597	364 365	98	348
Steam-engine	J. G. A. Kitchen	692,307	Feb. 4	156	36 37	98	830
Steam-engine, &c	F. J. E. Johansson	693,522	Feb. 18	2474	542 543	98	1355
Steam-engine	B. F. Stowell	695,006	Mar. 11	1289	283 284	98	2002
Steam-engine	K. Fitzpatrick	695,451	Mar. 18	2085	470 471 472	98	2186
Steam-engine	J. A. Virtue	695,510	Mar. 18	2185	494 495	98	2206
Steam-engine	P. B. Whitney	697,187	Apr. 8	1507	336 337	99	340
Steam-engine	W. A. Johnson	698,510	Apr. 29	3948	872	99	899
Steam-engine	A. J. Markham	700,064	May 13	1801	417	99	1558



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Steam-engine .....	C. C. Worthington .....	708,082	June 24	3218	741 742	99	2826
Steam-engine .....	J. A. Jenney .....	706,320	Aug. 5	639	139	100	1244
Steam-engine .....	M. J. Verret and H. N. Samstag .....	709,062	Sept. 16	2014	460	100	2423
Steam-engine .....	A. P. Moresi and H. J. Bergeron .....	709,719	Sept. 23	3312	743 744	100	2708
Steam-engine .....	P. H. White .....	711,606	Oct. 21	2327	508 509	101	513
Steam-engine .....	P. Paulsen .....	712,088	Oct. 28	3286	720	101	729
Steam-engine .....	W. L. Silvey .....	713,248	Nov. 11	1499	330 340	101	1219
Steam-engine .....	J. M. Clark .....	713,400	Nov. 11	1820	409 410	101	1287
Steam-engine .....	C. Vogel .....	714,977	Dec. 2	662	139	101	1968
Steam-engine .....	W. S. Colwell .....	716,382	Dec. 23	3367	736	101	2584
Steam engine. Aero .....	S. J. Corrigan .....	708,027	Sept. 2	46	11 13	100	1900
Steam-engine. Compound .....	J. E. Sague .....	692,034	Jan. 28	3146	709 710 711	98	703
Steam-engine. Compound .....	J. E. Sague .....	692,035	Jan. 28	3150	711 712	98	704
Steam-engine. Compound .....	J. Patten .....	707,716	Aug. 26	3297	738 739	100	1846
Steam-engine. Duplex steam-pump or other duplex .....	C. C. Worthington .....	695,989	Mar. 25	3074	697	98	2402
Steam-engine. Multiple-expansion .....	J. Deneal .....	716,523	Dec. 23	3659	799	101	2645
Steam-engine. Oscillating-piston .....	J. G. Lepper .....	694,485	Mar. 4	272	61, 62	98	1770
Steam explosive-engine .....	C. A. Braden .....	715,008	Dec. 2	713	151	101	1980
Steam for rotary motors. Mechanism for admitting or shutting off .....	J. B. Zura .....	691,041	Jan. 14	1280	290	98	282
Steam from hot slag, &c. Generating .....	G. Mitchell and L. D. Copeland .....	711,333	Oct. 14	1806	391 392	101	391
Steam-generating and water-heating boiler .....	F. Logan .....	705,682	July 29	4577	994	100	986
Steam-generating furnace .....	J. L. Giroux .....	713,236	Nov. 11	1631	368	101	1246
Steam-generating plants. Heater and separator for .....	J. Angell .....	696,296	Mar. 25	3694	826 827	98	2530
Steam-generating system .....	W. Chesterman .....	699,102	Apr. 29	5116	1131	99	1151
Steam-generator .....	W. Morgans .....	691,286	Jan. 14	1716	389 390 391	98	373
Steam-generator .....	G. H. Rheutan .....	692,031	Jan. 28	3139	707 708	98	701
Steam-generator .....	G. H. Rheutan .....	692,032	Jan. 28	3141	708 709	98	702
Steam-generator .....	C. H. Fox .....	692,436	Feb. 4	375	92	98	877
Steam-generator .....	H. Bédet .....	694,236	Feb. 25	3844	852	98	1648
Steam-generator .....	H. P. J. Earnshaw .....	696,165	Mar. 25	3454	774	98	2482
Steam-generator .....	C. A. Kitts .....	698,403	Apr. 22	3752	828	99	843
Steam-generator .....	W. Sharkie and D. Crawford .....	701,403	June 3	211	46, 47	99	2151
Steam-generator .....	A. Thompson .....	701,422	June 3	248	55, 56	99	2159
Steam-generator .....	J. J. Kilshaw .....	701,895	June 10	1063	249	99	2353
Steam-generator .....	J. L. Giroux .....	702,550	June 17	2393	522	99	2617
Steam-generator .....	W. Roussanoff .....	708,834	July 1	845	186 187	100	169
Steam-generator .....	O. D. Orvis .....	704,571	July 15	2264	490 491	100	488
Steam-generator .....	C. and A. Musker and W. G. Hay .....	704,689	July 15	2452	520 542	100	528
Steam-generator .....	J. C. Walker .....	704,722	July 15	2508	543	100	540
Steam-generator .....	J. L. Giroux .....	704,743	July 15	2564	553	100	550
Steam-generator .....	C. A. Kitts .....	705,533	July 22	3277	925	100	914
Steam-generator .....	W. A. Sr., and W. A. Kitts, Jr. ....	707,331	Aug. 26	3764	844	100	1938
Steam-generator .....	P. H. White .....	707,996	Aug. 26	3891	874	100	1963
Steam-generator .....	W. Norris and H. Spurrier .....	708,062	Sept. 2	224	99	100	2007
Steam-generator .....	P. Stoltz .....	709,371	Sept. 16	2644	593 844	100	2533
Steam-generator .....	E. de Porto-Riche .....	709,926	Sept. 30	3748	845 846	100	2811
Steam-generator .....	R. J. Barton .....	710,313	Sept. 30	4480	1011	100	2966
Steam-generator .....	W. E. Pearson .....	712,405	Oct. 28	3846	841 842	101	846
Steam-generator .....	J. T. Plenty .....	714,234	Nov. 25	3469	763	101	1664
Steam-generator .....	J. H. Campbell .....	716,187	Dec. 16	2997	654 655	101	2495
Steam-generator .....	R. M. Oates .....	717,260	Dec. 30	5195	1127 1128	101	2999
Steam-generator. Combined water and fire tube .....	T. R. Butman .....	697,606	Apr. 15	2276	509	98	515
Steam-generator for hydrocarbon-burners .....	G. W. Arper .....	713,048	Nov. 11	1096	353	101	1138
Steam-generator for locomotive service .....	C. H. Fox .....	700,320	May 20	2376	542	99	1695
Steam-generator header. Sectional .....	J. H. Rosenthal .....	704,968	July 15	3058	657	100	653
Steam-generator of the locomotive type .....	H. Plowman .....	709,421	Sept. 16	2734	614	100	2577
Steam-generator or hot-water heater .....	W. H. Page .....	706,846	Aug. 12	1644	368	100	1471
Steam-generator or water-heater .....	B. A. Geurink .....	709,006	Sept. 16	1805	431	100	2399
Steam-generator or water-heater .....	C. M. Raymond .....	709,042	Sept. 16	1976	451	100	2415
Steam-generator regulator .....	T. Clarkson .....	701,542	June 3	464	104	99	2203
Steam-generator shells, cylinders, &c. Manufacture of .....	B. F. McTear .....	700,360	May 20	2444	558	99	1711
Steam-generator. Slag .....	L. D. Copeland .....	711,290	Oct. 14	1732	374 375	101	373
Steam-generator. Slag .....	L. D. Copeland .....	711,291	Oct. 14	1735	375	101	376
Steam-generator. Slag .....	G. Mitchell .....	711,331	Oct. 14	1800	390 391	101	390
Steam-generator. Slag .....	G. Mitchell .....	711,332	Oct. 14	1804	391	101	391
Steam-generator superheater .....	H. Webster .....	713,183	Nov. 11	1370	369	101	1195

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Steam-generators. Apparatus for purifying water for	A. Gray	697,838	Apr. 15	2701	600	99	605
Steam-generators. Means for regulating the supply of water and liquid fuel to	J. Simpson	699,030	Apr. 29	5002	1107	99	1127
Steam-generators. Superheater for	H. Webster	708,433	Sept. 2	774	174	100	2138
Steam-heater	B. K. Hussey	711,769	Oct. 21	2644	382	101	582
Steam-heater. Low-pressure	F. Tudor	705,981	July 29	5111	1114	100	1095
Steam heating apparatus	A. P. Broomell	717,335	Dec. 30	5319	1157	101	3025
Steam in cylinders. Means for reducing condensation of	G. R. Harvey	696,635	Apr. 1	437	101	99	94
Steam-lines. Automatic drip for	J. H. Blakely	697,932	Apr. 15	2873	633	99	641
Steam-lines. Water-outlet for	J. F. Logue and J. K. Gano	691,395	Jan. 21	1971	441	98	445
Steam-motor	I. S. Davis	708,758	Sept. 9	1378	316	100	2275
Steam or fluid-pressure engine	W. J. Emmitt	697,136	Apr. 8	1421	316	99	322
Steam or vapor. Generating	E. C. Newcomb	704,908	July 15	2890	622	100	622
Steam or vapor generating apparatus	E. C. Newcomb	704,907	July 15	2862	622	100	613
Steam-plant drainage system	J. Angell	690,546	Jan. 7	343	69.70	98	74
Steam-plant purge-feeding apparatus	J. Angell	704,469	July 8	2059	446	100	433
Steam-pressure indicator	E. A. Hitchcock	715,382	Dec. 9	1390	299	101	2139
Steam-pressure regulator. Automatic	D. P. Blount	698,221	Feb. 11	1913	416	98	1217
Steam-reheater. Electric	G. Griesche	695,206	Mar. 11	1670	371	98	2081
Steam-reintegrator	G. Adrot and P. Pons	698,348	Apr. 22	3654	807	99	823
Steam-roller.	G. E. Townsend	714,762	Dec. 2	220	43.44	101	1881
Steam-separator	D. E. Austin	690,389	Jan. 7	11	3	98	6
Steam-separator	C. M. Baum	692,597	Feb. 4	678	158	98	937
Steam-separator	W. L. Jameson	696,446	Apr. 1	97	22.33	99	26
Steam-separator	W. W. Way	700,880	May 27	3462	734	99	1938
Steam-separator	J. Angell	710,654	Oct. 7	494	104	101	100
Steam-separator	J. Angell	710,655	Oct. 7	496	104	101	101
Steam-separator	G. Engel	715,649	Dec. 9	1878	417	101	2236
Steam set-works	C. S. Prescott	694,780	Mar. 4	860	189	98	1803
Steam-shovel, &c.	A. W. Robinson	708,590	Sept. 9	1054	239	100	2205
Steam-shovel	F. Franz	715,470	Dec. 9	1555	337	101	2171
Steam shovel or excavating-machine.	C. M. Harrison	716,538	Dec. 23	3700	806	101	2654
Steam-shovels, excavators, &c. Apparatus for moving	H. Crowe	710,764	Oct. 7	702	148	101	144
Steam-superheater	J. Howden	698,202	Apr. 22	3419	732	99	774
Steam-trap	H. Webster	709,655	Sept. 23	3197	714	100	2684
Steam-trap	R. J. Finn	693,961	Feb. 25	3321	730	98	1544
Steam-trap	W. H. and R. Thompson	696,517	Apr. 1	231	51	99	51
Steam-trap	G. Moffat	697,349	Apr. 8	1785	400	99	400
Steam-trap	J. W. Hodges	699,170	May 6	76	20	99	1191
Steam-trap	C. H. Berry	699,646	May 13	1000	233	99	1395
Steam-trap	N. N. Haigh and T. Sugden	701,035	May 27	3756	861	99	2000
Steam-trap	F. Tudor	701,524	June 3	427	97	99	2196
Steam-trap	W. H. Reynolds	706,781	Aug. 12	1520	338	100	1443
Steam-trap	J. Bonar	707,295	Aug. 19	2476	555	100	1650
Steam-trap	J. Campbell	708,996	Sept. 16	1873	431	100	2395
Steam-trap	J. Morehead	709,347	Sept. 16	2574	581	100	2543
Steam-trap	C. H. Atkins	711,272	Oct. 14	1680	382	101	363
Steam-trap	F. Cornwell	711,828	Oct. 21	2759	611	101	605
Steam-trap	R. F. Piatt	712,089	Oct. 28	3288	721	101	729
Steam-trap	A. Silk and P. Light	712,441	Oct. 28	3626	859	101	862
Steam-trap	W. T. Powers	713,148	Nov. 11	1290	292	101	1179
Steam-trap	D. Murdock	714,509	Nov. 25	3962	878	101	1761
Steam-trap. Expansion	C. Fletcher	716,997	Dec. 30	4689	1018	101	2889
Steam washing and purifying apparatus	J. L. Ebner	712,368	Oct. 28	3769	824	101	828
Steamer and inhaler. Combined face-	H. C. Karpenstein	696,342	Mar. 25	3811	850	98	2554
Steamer. Wheat	J. Frantz	701,322	June 3	78	16	99	2125
Steaming-cabinet	G. J. Burns	716,862	Dec. 30	4415	957	101	2833
Steaming fabrics, &c. Apparatus for	T. Walsh	692,171	Jan. 28	3384	768	98	752
Steel, &c. Apparatus for making	E. C. Willis	698,610	Apr. 29	4162	915	99	942
Steel by the open-hearth process. Manufacture of	W. B. Hughes	694,752	Mar. 4	796	196	98	1880
Steel-concrete construction	C. Weber	712,625	Nov. 4	311	73	101	963
Steel construction	H. C. Clark	691,531	Jan. 21	2198	494	98	433
Steel construction	H. C. Clark	691,599	Jan. 21	2322	522	98	518
Steel-converter	S. K. Behrend	698,787	Apr. 29	4527	1000	99	1023
Steel from oxid-of-iron ore. Producing	D. Reynolds	707,638	Aug. 26	3134	705	100	1813
Steel-furnace. Open-hearth	F. L. Saniter and J. L. Smith	703,309	June 24	3725	858	99	2925
Steel. High-tungsten	G. B. Brown	714,139	Nov. 25	3249	871	101	1621
Steel in conical ingot-molds. Press for compressing liquid	H. Harmet	714,692	Dec. 2	76	16	101	1853
Steel ingots for forging. Treatment of	C. T. Dudley	705,330	July 22	3845	100	827	
Steel. Manufacture of	W. White, Jr.	695,256	Mar. 11	1755	98	2099	
Steel. Manufacture of crucible-	E. B. Clarke	703,543	July 1	298	100	60	
Steel. Manufacturing	T. Andrew and T. K. Bellis	695,264	Mar. 11	1770	98	2102	
Steel. Manufacturing	H. Knoch	712,389	Oct. 28	3816	101	839	
Steel. Manufacturing basic Bessemer.	S. McDonald	706,089	Aug. 5	167	100	1151	
Steel plant. Bessemer-	C. H. McCullough, Jr., and L. C. B. Holmboe	697,740	Apr. 15	2526	563	99	566
Steel. Preparing solutions for the treatment of	B. K. Jamison	690,963	Jan. 14	1125	325	98	251
Steel process. Open-hearth	J. L. Smith and R. Bedford, Jr.	691,297	Jan. 14	1736	395	98	377



*Alphabetical list of inventions—Continued.*

Invention.	Name.*	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Steel seat. Pressed.	W. S. Judd	717,211	Dec. 30	5112	1109	101	2981
Steel tie and rail fastener.	J. R. McClure	713,906	Nov. 18	2793	621	101	1506
Steel trap	E. Lewis	690,970	Jan. 14	1140	258	98	254
Steering and braking device.	C. F. Weeber, Jr.	704,156	July 8	1488	319	100	312
Steering and maneuvering wheel for vessels	S. W. Corlin	713,083	Nov. 11	1130	259	101	1145
Steering apparatus. Boat.	C. Rogers	714,035	Nov. 18	3040	676	101	1357
Steering apparatus for ships. Electrical	B. A. Fiske	697,826	Apr. 15	2680	595	99	600
Steering apparatus. Ships.	M. E. Lowell	707,607	Aug. 26	3076	692	100	1801
Steering apparatus. Vessel.	P. L. Ennor	708,332	Sept. 2	618	139	100	2107
Steering-gear	P. H. White	690,802	Jan. 7	840	186	98	177
Steering-gear	R. E. Sack	694,791	Mar. 4	885	196	98	1806
Steering-gear	W. A. Crowder	703,552	July 1	317	72	100	64
Steering-gear	G. A. Burwell	715,193	Dec. 2	1039	224	101	2049
Steering-gear. Electrical	M. W. Day	710,045	Sept. 30	3970	895	100	2858
Steering-lever	C. B. Hershey	716,709	Dec. 23	4014	879	101	2721
Steering machinery	A. B. Brown	707,382	Aug. 19	2632	594	100	1692
Steering mechanism	F. E. Allen and R. H. Danforth	705,892	July 29	4953	1078	100	1063
Steering mechanism. Hydraulic	J. Christensen	699,451	May 6	615	140	99	1302
Steering or other purposes. Shifting mechanism for.	G. C. Brooks	698,439	Apr. 29	3832	845	99	876
Stencil. Baker's.	L. T. F. Zaiser	701,662	June 3	696	153	99	2254
Stencil-cutting apparatus	S. Elliott	712,124	Oct. 28	3352	734	101	742
Stencil-cutting machine	S. D. Hartog	699,921	May 13	1547	356	99	1508
Stencil-cutting machine	S. Elliott	712,125	Oct. 28	3355	735	101	743
Stencil-frame	S. Elliott	708,628	Sept. 9	1125	253	100	2221
Stencil-punch	J. Hornby	711,972	Oct. 28	3065	673	101	687
Stencil-sheet cutting and printing machine.	W. S. Pain	690,991	Jan. 14	1182	267	98	262
Stencils from which music-sheets are printed. Machine for forming	G. H. Davis	703,389	July 1	48	10	100	12
Step	C. H. Lemon	693,087	Feb. 11	1503	328	98	1135
Step structure	H. W. Beardsley	697,434	Apr. 15	1979	438	99	436
Stereopticon. Coin-controlled	F. Duve	712,780	Nov. 4	592	135	101	1020
Stereoscope	H. C. and H. C. White	701,526	June 3	433	98	99	2198
Stereoscope	H. C. and H. C. White	701,527	June 3	436	98	99	2198
Stereoscope	H. E. Richmond	705,706	July 29	4629	1003	100	996
Stereoscope. Knockdown	H. M. Reichenbach	712,410	Oct. 28	3455	845	101	848
Stereotype. Asbestos	L. Elias	709,398	Sept. 16	2692	681	100	2567
Stereotype-matrices with musical notes, &c. Apparatus for impressing	A. Réveillé	691,971	Jan. 23	3084	692	98	682
Stereotype-plate and base	C. S. Partridge	702,470	June 17	2153	491	99	2580
Stereotype-plate-cutting machine	W. P. Nisbett and P. Andrews	694,207	Feb. 25	3963	883	98	1674
Stereotype-plate holder.	S. G. Yundt and W. J. Nolen	694,905	Mar. 4	1091	241	98	1943
Stereotype-plate matrices. Machine for producing.	I. Kitsee	698,966	Apr. 29	4895	1082	99	1106
Stereotyping. Casting-box for	S. G. Goss	697,141	Apr. 8	1427	318	99	323
Stereotyping-matrix	J. E. Weigl	709,284	Sept. 16	2458	600	100	2518
Stereotyping. Turf matrix-pulp for.	R. Kraft	698,028	Apr. 22	3055	701	99	698
Sterilizer	S. G. Scanlan	699,717	May 13	1129	264	99	1420
Sterilizer. Liquid or fluid	I. E. Schoch	714,041	Nov. 18	3062	679	101	1563
Sterilizing apparatus	G. W. Kellogg	698,711	Apr. 29	4496	972	99	169
Sterilizing apparatus	A. Watrock	712,746	Nov. 4	517	121	101	1005
Sterilizing apparatus	E. R. Pease and P. J. Tucker	717,448	Dec. 30	5524	1200	101	3066
Sterilizing-machine	C. A. King	710,784	Oct. 7	750	159	101	154
Sterilizing water, &c. Apparatus for	D. Grove	705,751	July 29	4713	1020	100	1012
Stethoscope	R. C. M. Bowles	693,487	Feb. 18	2409	526	98	1341
Stethoscope. Binaural.	R. C. M. Bowles	700,728	May 27	3159	719	99	1877
Stethoscopic instrument.	A. A. Knudson and F. H. Clark	705,354	July 29	5029	1096	100	1077
Stiff-finished woven fabric.	P. G. McLean	708,907	Sept. 9	1690	389	100	2340
Stiffener for ladies' clothing.	A. G. Wahlen	693,932	Feb. 25	3271	720	98	1534
Stiffener. Garment.	H. Feder	717,373	Dec. 30	5385	1171	101	3039
Stiffening-band	H. H. Taylor	703,632	July 1	445	102	100	87
Stiffening cord or tape	E. K. Warren	698,879	Apr. 29	4748	1046	99	1175
Stiffening-strip for garment-waists, corsets, &c.	A. M. Weber	714,541	Nov. 25	4027	891	101	2416
Stiffening-strips. Substitute for whalebone.	E. Warren and G. W. Healy	714,339	Nov. 25	3659	807	101	1703
Still. Ammonia.	G. Strohm	710,221	Sept. 30	4325	972	100	2934
Still. Turpentine.	J. T. Gilmer	709,315	Sept. 16	2518	567	100	2531
Still	D. McDonough	704,658	July 15	2404	568	100	518
Stirrup	W. H. Aughey and W. Clifton	699,472	May 6	638	152	99	1312
Stirrup	I. Yeatts	700,851	May 27	3463	735	99	1939
Stirrup	C. W. Gillespie	704,184	July 8	1544	332	100	324
Stirrup	P. W. Koontz	715,485	Dec. 9	1584	343	101	2177
Stirrup. Riding.	E. E. Dunnegan	715,647	Dec. 9	1675	416	101	2235
Stirrup-strap.	L. P. Wellman	706,468	Aug. 5	941	205	100	1306
Stitch-indenting machine	A. Olson	702,465	June 17	2145	487	99	2587
Stitch-ripper	F. L. Marshall	709,917	Sept. 30	3733	840	100	2808
Stitch-separating machine.	J. B. Hadaway	690,422	Jan. 7	63	14, 15	98	17
Stitch-separating machine.	J. B. Hadaway	691,903	Jan. 28	2908	655	98	657
Stitch-separating machine.	J. B. Hadaway	699,679	May 13	1061	247	99	1407
Stitch-separating machine.	J. B. Hadaway	700,913	May 27	3519	805	99	1950
Stitch-separating machine	J. B. Hadaway	703,573	July 1	347	79, 80	100	20
Stitch-separating machine.	J. B. Hadaway	703,574	July 1	351	80, 81	100	70
Stitch-separating machine.	J. B. Hadaway	703,575	July 1	356	81, 82	100	71
Stitch-separating-machine tool	J. B. Hadaway	712,669	Nov. 4	386	90	101	978

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	Page.
				Spec.	Dr. g.		
Stitching machine. Bar-	F. T. Leilich	705,256	July 22	3671	793 794 795	100	793
Stitching machine. Wire-	F. P. Rosback	706,690	Aug. 12	1833	295 296	100	1404
Stock.	E. J. Ryerson	696,845	Apr. 1	844	194	99	178
Stock and die	H. L. Manson and J. Kamphues	706,977	Aug. 12	1867	417	100	1514
Stock. Care of live	J. Donald and J. Pohl	713,075	Nov. 11	1155	266	101	1150
Stock-ringer	A. J. Spencer	897,559	Apr. 15	2193	487	98	1493
Stock-tank	W. C. Wright	707,530	Aug. 19	2904	657	100	1742
Stocking	J. Sheltou	691,327	Jan. 14	1805	410	98	391
Stocking	K. Palme	698,550	Apr. 29	4025	889	99	915
Stocking	M. Lamond	712,941	Nov. 4	902	211	101	1081
Stocking. Elastic	W. F. Ware and W. R. Cartledge	707,659	Aug. 26	3198	717	100	1826
Stocking-guard	H. Weil	696,779	Apr. 1	732	165	99	156
Stocking-knee protector	L. Cozens	695,115	Feb. 11	1676	364	98	1169
Stocking-supporter	H. H. Taylor	695,349	Mar. 11	1916	426	98	2130
Stocking-supporter	E. M. Yarrington and T. Hall	699,940	May 13	1558	363	99	1516
Stocking-supporter	E. H. Waterman	709,066	Sept. 16	2021	461	100	2424
Stocking-supporter	D. H. Warner	713,184	Nov. 11	1369	309	101	1194
Stoker and smoke-consumer. Automatic	R. W. King	703,068	June 24	3298	559	99	2840
Stoker for mine refuse or other very fine fuel. Automatic	J. MacCormack	715,826	Dec. 16	2355	502	101	2335
Stoker. Mechanical.	G. S. and J. J. Huff	690,582	Jan. 7	410	85	98	89
Stoker. Mechanical.	J. W. Kincaid	691,391	Jan. 21	1959	439 440	98	443
Stoker. Mechanical.	T. N. Harrison	691,764	Jan. 28	2060	596 597	98	606
Stoker. Mechanical.	W. Fraser	701,192	May 27	4082	928	99	2059
Stoker. Mechanical.	A. F. Nagle	701,602	June 3	581	127	99	2229
Stoker. Mechanical.	A. F. Nagle	703,450	July 1	147	33	100	32
Stoker. Mechanical.	G. Howard and G. Gibbs	704,880	July 15	2820	610	100	603
Stoker. Mechanical.	N. S. Arthur and J. S. Binnie	710,171	Sept. 30	4231	954 955	100	2012
Stoker. Mechanical.	E. McConnell	711,668	Oct. 21	2449	538	101	539
Stoker. Mechanical.	E. McConnell	711,669	Oct. 21	2452	539 540	101	540
Stoker. Mechanical.	C. R. Allen	713,191	Nov. 11	1380	311	101	1196
Stoker. Mechanical.	J. W. Kincaid	714,712	Dec. 2	118	24	101	1862
Stone and forming articles therefrom. Making artificial	G. V. Chappell	708,640	July 1	485	100	96	
Stone and manufacturing same. Artificial.	F. M. Emerson	692,644	Feb. 4	749	986 987	98	953
Stone. Apparatus for manufacturing artificial	W. Bügler	716,861	Dec. 30	4414	957	101	2833
Stone. Apparatus for the manufacture of artificial	F. Marx	702,573	June 17	2354	538	99	2629
Stone. Artificial	V. Conti, G. de Geofroy, and G. le Gall du Tertre.	705,650	July 29	4514	100	974	
Stone. Artificial	F. Boas	707,898	Aug. 26	3708	100	1025	
Stone. Artificial building	J. C. McClenahan	698,727	Apr. 23	4429	977	99	1203
Stone. Artificial building	C. W. Stevens	699,587	May 6	873	203	99	1355
Stone board. Artificial.	A. McDougall	699,791	Sept. 23	3463	780	100	2739
Stone composition. Artificial.	H. Mielck	711,254	Oct. 14	1656	101	359	
Stone-crusher	G. Lowry	693,289	Feb. 11	2025	441 442	98	1240
Stone-cutting machine.	H. H. Wetmore	713,823	Nov. 18	2623	585	101	1469
Stone dressing or polishing tool	J. C. Bassett	716,171	Dec. 10	2345	646	101	2482
Stone facing. Artificial.	C. W. Stevens	705,156	July 22	3444	749	100	747
Stone facing for buildings. Artificial.	T. Kelly and F. C. Sarazin	705,846	July 29	4869	1058	100	1046
Stone. Finishing artificial	W. Black and H. S. Richards	716,371	Dec. 23	3349	101	2580	
Stone. Fireproof lime sand-	J. Horak	712,799	Nov. 4	630	101	1027	
Stone grinding and polishing machine	I. N. Rogers	696,195	Mar. 25	3507	786	98	2490
Stone-handling apparatus	C. N. Owen	706,197	Aug. 5	378	81	100	1194
Stone-lifting machine	F. A. Fulghum	693,002	Feb. 11	1447	314	98	1123
Stone, &c. Machine for handling	S. B. Welch	699,266	May 6	253	58, 59	99	1225
Stone. Making artificial	C. W. Stevens	699,588	May 6	875	203	99	1355
Stone. Making dolomitic sand-	H. E. Brown	697,319	Apr. 8	1740	99	390	
Stone. Manufacture of artificial sand-	H. Engbert	701,690	June 3	743	99	2264	
Stone. Manufacturing	J. C. McClenahan	711,436	Oct. 14	1987	431	101	428
Stone, &c. Manufacturing red aggregates for use as artificial	H. W. C. K. Dyson	716,639	Dec. 23	3978	101	2713	
Stone. Mold for making cement	R. B. Coltrin	708,532	Sept. 9	561	218	100	2188
Stone. Molding artificial.	F. Orlikowski	708,248	Sept. 2	465	106	100	2076
Stone-molding machine. Artificial.	N. F. Palmer	694,985	Mar. 11	1252	273 274	98	1905
Stone-molding machine. Artificial.	N. F. Palmer	695,483	Mar. 18	2138	483	98	2196
Stone-molding machine. Artificial.	N. F. Palmer	700,551	May 20	2810	642 643	99	1786
Stone-molding machine. Artificial.	N. F. Palmer	703,081	June 24	3327	765 766	99	2846
Stone-molding machine. Artificial.	N. F. Palmer	708,452	July 1	149	34	100	32
Stone-molding machine. Artificial.	N. F. Palmer	710,995	Oct. 14	1125	248	101	247
Stone or brick and the preparation of lime therefor.	O. H. Anderson	702,611	June 17	2427	99	2645	
Stone or brick. Building	J. W. Lahmann	699,337	May 6	765	180	99	1333
Stone or ore crusher	D. C. Robinson	708,495	Sept. 2	894	202	100	2163
Stone post. Artificial.	H. D. Streater	715,433	Dec. 9	1485	321	101	2159
Stone. Producing artificial	H. Mielck	711,329	Oct. 17	1798	101	390	
Stone-puller	H. P. Stroh and J. Hutchison	691,081	Jan. 14	1341	303	98	294
Stone. Raising sheets of	A. W. Pratt	693,302	June 24	3716	856	99	2324
Stone-ripping machine	M. J. O'Connor	709,617	Feb. 15	2663	588	98	1363
Stone-saw	J. Peckover	693,306	Feb. 11	2054	449	98	1246
Stone surfaces. Machine for working	T. Stigitz	702,037	June 10	1353	308	99	2403
Stone tank. Artificial.	C. I. Huxley	695,687	Mar. 18	2529	573	98	2275
Stones, &c. Apparatus for separating	J. C. W. Stanley	707,173	Aug. 19	2351	503	100	1612



*Alphabetical list of inventions—(Continued).*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.
				Spec.	Dr'g.	
Stones. Molding-box for the manufacture of building-	E. Levi	709,495	Sept. 23	2914	650	100 2627
Stones or mortar. Composition for making	J. Loewenthal	707,129	Aug. 19	2151		100 1501
Stones, tiles, &c. Manufacture of artificial	E. Rott	693,906	Feb. 25	3219		98 1524
Stool	W. F. McNary and F. P. Wiley	713,483	Nov. 11	1555		101 1315
Stool. Adjustable counter	A. Adler	697,911	Apr. 15	2428	626	99 632
Stool-back	G. L. Case	693,685	Feb. 18	2792	615	98 1419
Stool. Bookkeeper's	S. S. Bryan	691,931	Jan. 28	2356	665	98 667
Stool. Foldable	P. R. Anton	705,893	July 29	4955	1078	100 1063
Stool. Folding	S. S. Brechbiel	692,832	Feb. 11	1075	242	98 1044
Stool. Military	H. Ecker	692,506	Feb. 4	500	117	98 901
Stool. Portable	W. H. Harbert	713,639	Nov. 15	2289	100	101 1398
Stop-box	R. McBe	704,656	July 15	2400	319	100 517
Stop-fastening	H. H. Greene	715,785	Dec. 16	2169	485	101 2318
Stopper:						
See Beer-stopper.	Hot-water-bag stopper.					
Boiler-tube-leak stopper.	Jar-stopper.					
Bottle-stopper.	Ladle-stopper.					
Expandable stopper.	Pipe-stopper.					
Gas-main stopper.	Refractory stopper.					
Stopper	Vessel-stopper.					
Stopper-extractor	W. G. Spire	713,708	Nov. 18	2415	539	101 1424
Stopper-fastener	H. C. Wehrle	716,602	Dec. 23	3827	830	101 2683
Stopper or closure	J. A. Jones	705,675	July 29	4561	991	100 983
Stopper-puller	L. H. Abbee and S. A. Sewall	694,332	Mar. 4	1144	250	98 1954
Stoppers for bottles, jars, &c. Manufacturing	E. M. Wilcox	710,188	Nov. 18	2842	631	101 1515
Stopping or starting device	J. L. Rawbon and E. E. W. Bundy	701,504	June 3	402	91	99 2191
	W. G. Eaton and W. A. Reed	697,707	Apr. 15	2472	552	99 551
Storage apparatus	C. Piez and R. H. Beaumont	696,266	Mar. 25	3646	815	98 2519
Storage battery	W. Taylor	693,757	Feb. 18	2919	642	98 1446
Storage battery	J. B. Elitz	695,710	Mar. 18	2564	580	98 2282
Storage battery	J. Redding	690,413	May 6	537	90	98 2387
Storage battery	H. J. Cogswell	699,658	May 13	1020	238	99 1309
Storage battery	L. W. Lombard	700,210	May 20	2134	489	99 1647
Storage battery	L. W. Lombard	700,666	May 20	3003	659	99 1828
Storage battery	A. D. Edgerton	702,361	June 10	1932	440	99 2521
Storage battery	M. O. Smith	703,490	July 1	201	48	100 42
Storage battery	H. P. King	710,870	Oct. 7	897	195	101 1582
Storage battery	F. Sedgwick	711,537	Oct. 21	2204	479	101 488
Storage battery	D. E. Wiseman	711,710	Oct. 21	2526	554	101 556
Storage battery	B. Ford	712,999	Nov. 4	1000	235	101 1100
Storage battery	S. Laszczynski	714,201	Nov. 25	3403		101 1652
Storage battery	L. Paget	715,412	Dec. 9	1441	310	101 2150
Storage battery	L. Paget	715,413	Dec. 9	1442	311	101 2150
Storage battery	E. J. Knapp	716,056	Dec. 16	2720	600	101 2437
Storage battery	C. J. Clark	717,351	Dec. 30	5350	1163	101 2663
Storage battery. Electrical	O. T. Bugg, Jr.	695,707	Mar. 18	2560	579	98 2281
Storage structure	A. Smith	716,296	Dec. 16	3187	698	101 2532
Storage system	J. R. Rector	706,451	Aug. 5	914	198	100 1300
Storage-tank	H. E. Niese	698,129	Apr. 22	3273	716	99 742
Store-fixture	E. B. Sanders	697,665	Apr. 15	2391	532	99 537
Store-goods-lifter	A. J. Wilkin	695,800	Apr. 18	2407	404	99 583
Store-service apparatus	M. C. Swezey	702,080	June 10	1453	326	99 2425
Store-service apparatus	C. J. Miller	712,398	Oct. 28	3831	837	101 813
Stove	G. M. Cocke	690,561	Jan. 7	378	78	98 82
Stove	R. Winter	691,688	Jan. 21	2191	558	98 533
Stove	W. Heuermann	693,707	Feb. 18	2836	625	98 1428
Stove	E. E. Walters	693,761	Feb. 18	2924	643	98 1447
Stove	H. H. Holden	693,862	Feb. 25	3127	692	98 1567
Stove	H. E. Attelberry	694,712	Mar. 4	717	158	98 1863
Stove	J. T. Leshar	695,744	Mar. 18	2620	595	98 2294
Stove	A. K. Beckwith	696,664	Apr. 1	506	117	99 110
Stove	W. F. Kistler	697,091	Apr. 8	1353	300	99 307
Stove	A. W. Walker	697,185	Apr. 8	1502	335	99 339
Stove	E. R. Cahoon	698,798	Apr. 29	4554	1006	99 1031
Stove	E. R. Cahoon	698,799	Apr. 29	4560	1007	99 1032
Stove	E. R. Cahoon	698,800	Apr. 29	4570	1008	99 1035
Stove	E. R. Cahoon	698,802	Apr. 29	4577	1010	99 1037
Stove	E. R. Cahoon	698,803	Apr. 29	4580	1011	99 1038
Stove	E. G. Germer	701,325	June 3	84	18	99 2166
Stove	E. J. Lahan	704,052	July 8	1256	271	100 261
Stove	W. Heuermann	705,928	July 29	5021	1094	100 1076
Stove	W. H. Null	706,589	Aug. 12	1147	254	100 1363
Stove	H. Hoefli	710,193	Sept. 30	4266	962	100 2920
Stove	A. M. Lanner. (Reissue)	12,043	Oct. 7	1008	223	101 206
Stove	W. V. Robinson	710,616	Oct. 7	429	90	101 86
Stove	C. A. Richardson	711,124	Oct. 14	1385	301	101 302
Stove	R. Ständer	713,812	Nov. 18	2602	580	101 1465
Stove	A. Landry	716,436	Dec. 23	3479	759	101 2609
Stove	O. J. Holmes and W. R. Hampden	717,097	Dec. 30	4864	1054	101 2926
Stove air-introducer	E. R. Cahoon	698,809	Apr. 29	4593	1013	99 1042
Stove and steam-cooker. Combined baking	W. S. James	701,733	June 3	832	181	99 2280
Stove attachment	J. H. Soehren and C. J. Rohlf	698,751	Feb. 15	2947	699	98 1443
Stove attachment. Cooking	A. Jolly	703,251	June 24	3675	845	99 2615
Stove attachment. Gas or gasoline	T. R. Warren	712,988	Nov. 4	982	230	101 1007
Stove-base. Skirted	C. H. Bailey	717,318	Dec. 30	5291	1150	101 3020
Stove burner attachment. Gas	A. H. Coombs	691,356	Jan. 21	1898	426	98 430
Stove. Camp	H. M. Leininger	716,560	Dec. 23	3741	815	101 2663
Stove chimney-valve. Hot-blast	T. Morrison	691,476	Jan. 21	2103	472	98 472

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Stove. Collapsible camp.	F. L. Mitchell.	700,356	May 20	2438	556 557	99	1709
Stove. Combined heating and cooking.	J. L. Van Hook.	699,779	May 13	1257	292	99	1446
Stove. Cooking.	B. A. Vaughn.	699,991	May 13	1674	385	99	1533
Stove. Cooking.	R. Galbraith.	706,750	Aug. 12	1460	321	100	1431
Stove. Cooking.	W. N. Moore.	708,062	Sept. 2	117	28	100	2006
Stove. Cooking or heating oil.	M. L. Stone.	708,508	Sept. 2	909	206	100	2166
Stove-door hinge.	F. L. Sheppard.	707,025	Aug. 12	1955	438	100	1532
Stove fire-pot.	W. J. Keep.	698,708	Apr. 29	4401	971	99	998
Stove for the ventilation of rooms, &c	H. Türk.	696,610	Apr. 1	391	91, 92	99	86
Stove. Gas.	J. Schwarz.	698,327	Apr. 22	3632	800	99	816
Stove. Gas.	H. Bonser.	703,982	July 8	1134	245	100	240
Stove. Gas.	J. C. Forster.	706,309	Aug. 5	616	134	100	1240
Stove. Gas.	M. Griswold, Jr.	710,053	Sept. 30	3987	899	100	2861
Stove. Gas.	H. Eldridge.	711,389	Oct. 14	1907	415	101	412
Stove gas-burner.	H. J. Henry.	696,815	Apr. 1	793	181	99	168
Stove. Gas heating.	S. Stewart.	701,100	May 27	3636	886	99	921
Stove. Gas heating.	G. R. Moon.	710,122	Sept. 30	4212	130	100	2393
Stove-grate.	G. Hersh.	692,661	Feb. 4	782	178	98	959
Stove-grate.	T. Partridge, Jr.	708,455	July 1	152	35	100	82
Stove-grate.	C. A. Neff.	715,283	Dec. 9	1201	257	101	2100
Stove. Heating.	C. C. Pfeiffer.	693,438	Feb. 18	2308	505	98	1321
Stove. Heating.	J. L. Bangley.	695,872	Mar. 18	2862	649	98	2345
Stove. Heating.	T. M. Anderson.	697,428	Apr. 15	1967	435	99	454
Stove. Heating.	E. R. Cahoone.	698,797	Apr. 29	4549	1006	99	1029
Stove. Heating.	E. R. Cahoone.	698,801	Apr. 29	4573	1009 (1010)	99	1036
Stove. Heating.	E. R. Cahoone.	698,804	Apr. 29	4583	1011	99	1039
Stove. Heating.	E. R. Cahoone.	698,806	Apr. 29	4586	1012	99	1040
Stove. Heating.	E. R. Cahoone.	698,810	Apr. 29	4596	1014	99	1043
Stove. Heating.	C. W. Auer.	699,429	May 6	582	132	99	1232
Stove. Heating.	R. M. Moon.	702,984	June 24	3144	723	99	2811
Stove. Heating.	L. Howard.	704,331	July 8	1793	392	100	376
Stove. Heating.	J. L. Bangley.	704,470	July 8	2061	447	100	433
Stove. Heating.	C. Matthews.	704,889	July 15	2835	613	100	607
Stove. Heating.	W. Drengwitz.	705,828	July 29	4837	1050	100	1039
Stove. Heating.	H. R. Oney.	706,097	Aug. 5	178	36	100	1153
Stove. Heating.	L. W. Hemp.	709,673	Sept. 23	3238	723	100	2692
Stove. Heating.	L. W. Hemp.	709,674	Sept. 23	3234	723	100	2693
Stove. Heating.	J. B. Howard.	710,460	Oct. 7	114	25, 26	101	25
Stove. Heating.	J. W. Heuer.	711,627	Oct. 21	2364	519	101	521
Stove. Heating.	J. E. T. Dickinson.	716,990	Dec. 30	4668	1013	101	2885
Stove. Heating and cooking.	J. C. Parmelee.	697,876	Apr. 15	2774	615	99	622
Stove. Heating, cooking, and baking.	R. C. MacCulloch.	697,506	Apr. 15	2097	463	99	480
Stove heating or cooking attachment.	J. P. Lynott.	700,961	May 27	3601	829	99	1966
Stove. Hot-air.	D. Lamond.	712,690	Nov. 4	416	98	101	983
Stove hot-air attachment.	J. C. Kinley.	711,053	Oct. 14	1258	274	101	275
Stove. Hot-blast.	C. W. A. Koelkebeck.	692,678	Feb. 4	819	184 185	98	967
Stove. Hot-blast.	S. T. and C. H. Wellman.	711,089	Oct. 14	1330	101	101	289
Stove. Hot-blast.	E. Young.	715,188	Dec. 2	1028	232	101	2046
Stove hot-water reservoir.	W. J. Keep.	715,666	Dec. 9	1918	428	101	2345
Stove. Knockdown.	N. F. Seat.	692,718	Feb. 4	885	202	98	980
Stove. Laundry.	E. Clark.	702,922	June 24	2999	690	99	2782
Stove-lex. Ball-bearing.	O. A. Dahl.	712,122	Oct. 28	3348	733	101	741
Stove-leg. Extension.	J. Barbee.	706,377	Aug. 5	750	164	100	1287
Stove-lining.	E. R. Cahoone.	698,805	Apr. 29	4585	1011	99	1040
Stove. Magazine heating.	J. W. Graves and J. F. Mills, Jr.	693,735	Feb. 18	2883	634	98	1439
Stove. Open fireplace.	J. K. Ross.	714,399	Nov. 25	3771	833	101	1725
Stove or furnace.	G. W. Cope.	716,195	Dec. 16	3015	658	101	2499
Stove or furnace. Heating.	D. F. Winn.	700,874	May 27	3448	792	99	1935
Stove or furnace oil-burning attachment.	H. A. Cordray.	712,767	Nov. 4	551	126 127	101	1011
Stove or heater.	I. Brooke.	716,661	Dec. 23	3987	860	101	2706
Stovepipe or range.	E. R. Cahoone.	698,796	Apr. 29	4542	1005	99	1027
Stove or range.	G. A. Tuckfield.	707,989	Aug. 26	3871	870	100	1958
Stove or range.	E. Beatty.	713,383	Nov. 11	1792	403	101	1281
Stove or range. Cooking.	G. E. Wilbur.	691,033	Jan. 14	1261	286	98	278
Stove or range. Cooking.	E. W. Anthony.	693,096	Feb. 11	1622	354	98	1159
Stove or range. Cooking.	E. W. Anthony.	693,343	Feb. 11	2124	467	98	1253
Stove or range. Cooking.	E. Clarke.	696,857	Apr. 1	865	198	99	128
Stove or range. Gas.	J. W. Graves and J. F. Mills, Jr.	698,069	Apr. 22	3727	665	99	692
Stovepipe.	G. H. Lauterman.	692,965	Feb. 11	1150	256	98	1060
Stovepipe.	G. B. Barclay.	698,623	Apr. 29	4192	925	99	948
Stovepipe.	A. Clausen.	701,468	June 3	341	75	99	2179
Stovepipe.	C. C. Halstead.	703,702	July 1	608	135	100	120
Stovepipe.	B. A. Williamson.	705,507	July 22	4187	910	100	935
Stovepipe.	J. Wylie.	714,629	Nov. 25	3796	474	101	1819
Stovepipe attachment.	S. C. Bollinger.	696,977	Apr. 8	1145	305	99	263
Stovepipe attachment.	W. H. Etcheson and L. R. Witherell.	706,734	Aug. 12	1405	314	100	1420
Stovepipe attachment.	J. C. Hoyt.	709,545	Sept. 23	3019	672	100	2648
Stovepipe-cleaner.	B. C. Oblinger and A. H. C. Beatty.	707,713	Aug. 26	3290	736	100	1845
Stovepipe-collar.	J. Steinhilper.	697,034	Apr. 8	1251	278	99	285
Stovepipe-holder.	J. S. Rhodes.	705,964	July 29	5083	1109	100	1098
Stovepipe holder or collar.	J. E. Faulkner.	709,087	Sept. 15	3296	474	101	1819
Stovepipe-thimble.	S. C. Bollinger.	700,611	May 20	2911	670	99	1806
Stovepipe-thimble.	A. Staub.	710,168	Sept. 30	4227	953	100	2911
Stovepipe-thimble.	G. W. Stilson.	716,954	Dec. 30	4599	956	101	2870
Stovepipe ventilating attachment.	H. B. Hemphill.	712,377	Oct. 28	3786	828	101	832
Stovepipe-ventilator.	T. W. L. Murray.	702,879	June 17	2919	674	99	2747
Stovepipe-ventilator.	F. E. Taft.	709,525	Sept. 23	2969	666	100	2643
Stovepipe. Sheet-metal.	A. G. Scherer.	696,086	Mar. 25	3264	734	98	2441
Stove. Portable.	E. C. Leonard.	707,243	Aug. 19	2367	531	100	1637
Stove. Portable.	J. Watson.	716,501	Dec. 23	3605	788	101	2635



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drawg.	Vol.	Page.
Stove. Portable.....	C. W. Mettler and F. C. Rockwell.	717,242	Dec. 30	5166	1120	101	2993
Stove, range, &c.....	F. Anshutz	702,274	June 10	1777	406	99	2491
Stove-regulating device. Gas or vapor	G. Tresenreuter	691,019	Jan. 14	1239	280	98	273
Stove. Sawdust-burning.....	M. F. Canode and C. F. Wooley.	697,444	Apr. 15	1996	441	99	459
Stove. Self-cleaning hot-blast.....	J. W. Cabot	710,748	Oct. 7	673	140	101	137
Stove-shelf.....	E. W. Anthony	696,896	Apr. 1	969	217	99	205
Stove. Smoke-consuming heating.....	M. McInnemy	716,922	Dec. 30	4526	.....	101	2855
Stove. Summer cook.....	C. E. Cooke	709,876	Sept. 30	3627	820	100	2787
Stove-top.....	F. B. Whitlock	699,603	May 6	900	209	99	1361
Stove top plate.....	C. L. Beach	715,945	Dec. 16	2508	552	101	2392
Stove-urn.....	A. T. Matthews	691,319	Jan. 14	1792	407	98	289
Stove. Vapor.....	J. H. Newbold	694,173	Feb. 25	8745	827	98	1629
Stove. Vapor.....	J. H. Fink and R. Andlauer	701,475	June 3	348	77	99	2181
Stove. Vapor-burning.....	S. B. Keffer	693,403	Feb. 18	2350	493	98	1308
Stove. Ventilating.....	F. R. Shafer	717,290	Dec. 30	5246	1139	101	3010
Stoves. Adjustable fire-box for.....	J. P. Neeley	698,312	Apr. 22	3599	794	99	811
Stoves. Air mixer and heater for gas-burners for blast-furnace	C. H. Björckner	695,437	Mar. 18	2055	462	98	2180
Stoves. Automatic cut-off for gas.....	E. C. Hillver	698,199	Apr. 22	3412	751	99	772
Stoves. Bake-oven for gas or gasoline	R. W. Hilker	700,045	May 13	1774	410	99	1533
Stoves. Combined gas and air feeding attachment for gas-	J. Dennis, Jr.	700,020	May 13	1721	396	99	1542
Stoves, &c. Fire-pot for.....	C. S. Prizer	715,510	Dec. 9	1627	352	101	2186
Stoves. Force-draft attachment for.....	S. J. Walker	707,188	Aug. 19	2280	510	100	1619
Stoves. Heat radiating and tempering screen-drum for	J. R. McCoy	693,423	Feb. 18	2284	501	98	1315
Stoves. Heat-reflector for.....	B. C. Oblinger and A. H. C. Beatty	706,996	Aug. 12	1901	426	100	1521
Stoves. Interior charcoal attachment for cooking-	R. Fletcher	710,571	Oct. 7	335	72	101	67
Strabismus. Device for the cure of.....	J. E. Stierle	709,058	Sept. 16	2007	457	100	2422
Strainer.....	M. Warner	695,593	Mar. 18	2367	536	98	2244
Strainer.....	E. L. Mason	697,154	Apr. 8	1451	326	99	328
Strainer.....	W. Jones	698,961	Apr. 29	4887	1079	99	1104
Strainer.....	R. H. Casswell	713,967	Oct. 13	3757	822	101	2265
Strainer.....	R. O. Bennett	713,733	Nov. 18	2460	548	101	1436
Strainer and filter. Rain-water.....	J. Burger and C. C. Kemp	693,493	Feb. 18	2417	528	98	1343
Strainer and ventilator. Combined milk	P. Weise	708,285	Sept. 2	534	121	100	2099
Strainer. Coffee-pot.....	E. J. Guenzel	708,544	Sept. 9	979	221	100	2191
Strainer. Down-spout.....	B. A. Stair	694,440	Mar. 4	198	44	98	1755
Strainer. Sink.....	S. F. Williams	706,821	Aug. 12	1204	267	100	1675
Strainer. Vegetable.....	G. M. Gundel	700,193	May 20	2103	481	99	1341
Strainers. Machine for making tubular.....	J. H. King	716,555	Dec. 23	3730	813	101	2661
Strap:							
See Car hand-strap. Pole-strap.							
Metallic strap. Stirrup-strap.							
Picker-stick strap. Trunk-strap.							
Strap-coupling.....	W. H. Mallinson	693,294	Feb. 11	2037	444	98	1242
Strap-grip for snaffling horses, &c.....	J. H. Wallace	702,166	June 10	1601	362	99	2436
Straw-burning furnace.....	H. C. Clay	703,042	June 24	3244	746	99	2829
Straw-carrier riddle.....	M. Heineke	705,528	July 22	4270	923	100	913
Street-cleaning apparatus.....	D. I. Langworthy	712,315	Oct. 28	3678	803	101	808
Street-cleaning machine.....	J. Théry	707,367	Aug. 19	2602	588	100	1685
Street guide or sign.....	F. K. Plumbly	710,098	Dec. 16	2811	619	101	2167
Street-receiver.....	T. J. O'Brien	705,697	July 29	4010	1049	100	692
Street-sprinkling device. Automatic.....	T. D. Young	706,289	Aug. 5	576	123	100	1232
Street-sweeper.....	D. D. Hitchings	690,727	Jan. 7	712	157	98	150
Street-sweeper.....	Z. Whittemore	693,475	Feb. 18	2391	523	98	1338
Street-sweeper.....	W. Hight	698,949	Apr. 29	4867	1074	99	1100
Street-sweeper.....	S. Conrath	700,900	May 27	3497	802	99	1945
Street-sweeper.....	A. P. Palmer and H. L. Phelps	701,381	June 3	175	38	99	2144
Street-sweeper.....	P. R. Hansbury	703,194	June 24	3543	814	99	2888
Street-sweeper.....	W. S. Thorp	711,683	Oct. 21	2474	544	101	546
Street-sweeper.....	J. T. Collins	715,458	Dec. 9	1531	332	101	2167
Street-sweeper.....	W. Hight	717,397	Dec. 30	5439	1181	101	3049
Street-sweeper and dirt-conveyor.....	P. F. Renaud and W. P. Carey	711,074	Oct. 14	1304	282	101	284
Street-sweeping machine.....	W. G. Dingle	694,691	Feb. 4	54	11	99	1282
Street-sweeping-machine brushes. Machine for making	G. Binder	692,230	Feb. 4	18	4	98	201
Strength-tester.....	G. Jansen and H. Messmann	702,435	June 17	2086	475	99	2573
Strength-testing machine.....	H. Haenze	714,477	Nov. 25	3904	863	101	1751
Strength-testing machine. Coin-controlled	A. Wilson	692,358	Feb. 11	1370	298	98	1107
Stretching.....	F. X. Aigner	706,371	Aug. 5	732	150	100	1264
Stretching.....	M. W. M. Crawford	713,405	Nov. 11	1825	411	101	1288
Stretching. Collapsible.....	K. Freuler	694,097	Feb. 25	3594	795	98	1599
Stretching or cot. Folding.....	J. H. Koons	709,392	Sept. 16	2546	573	100	2537
Stretchers. Portable stand for supporting and carrying	H. C. Hall	713,875	Nov. 18	2721	608	101	1499
Stretching apparatus.....	J. W. Dimick, Jr., and J. Jagger	712,510	Nov. 4	84	32	101	914
Striking-bag.....	W. E. Price	690,685	Jan. 7	456	98	98	98
Striking-bag adjusting device.....	W. C. Rastetter	690,664	Mar. 4	629	136	98	1445
Striking-bag disk.....	R. Reach	717,273	Dec. 30	5216	1132	101	3003
Striking-machine. Coin-controlled.....	C. J. Thenan and W. A. Nourse	694,335	Feb. 25	4103	913	98	1694
Stringing-tool.....	H. H. Cummings	711,039	Oct. 14	1280	268	101	269
Stringing-tool.....	B. W. Putnam	711,073	Oct. 14	1303	281	101	283
Stripping-plate.....	E. H. Mumford	694,483	Mar. 4	280	64	98	1771
Stroke regulator.....	R. H. Yale	701,683	June 10	1235	285	99	2385
Strong light body and producing same.....	J. E. Seeley	706,498	Aug. 5	988	218	100	1316
Structural support.....	E. Fenton	692,841	Feb. 11	1108	247	98	1051
Structure-brace.....	E. Kidwell	715,390	Dec. 9	1403	302	101	2142
Structure. Hollow or double walled.....	A. de Clairmont	698,452	Apr. 29	3861	852	99	881

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Structures sustaining cross strains. Construction of	M. Weires	698,605	Apr. 29	4154	914	99	941
Stud.	P. Neumann	696,472	Apr. 1	145	35	99	36
Stud member	M. D. Shipman	692,373	Feb. 4	274	66	98	855
Stud or button	A. S. and F. L. Lundberg	713,465	Nov. 11	1926	436	101	1310
Stud setting and extracting tool	L. H. Morgan	691,406	Jan. 21	1886	445	98	449
Stud-setting machinery	F. A. Errington	702,334	June 24	3940	699	99	2788
Studding or partition. Metal	F. Brandstedt	694,721	Mar. 4	734	162	98	1867
Studding. Sheet-metal.	W. S. Moore	713,132	Nov. 11	1264	287	101	1174
Stuffing-box for piston-rods	D. W. Dougan and F. C. Watson	706,536	Aug. 12	1057	232 233	100	1344
Stuffing-box. Steam-engine	J. M. Rockwell	712,966	Nov. 4	950	220	101	1091
Stuffing-box. Turbine	A. C. E. Rateau and H. A. E. Harlé	712,594	Nov. 4	254	62	101	950
Stuffing-box with metallic packing	J. Friese	711,176	Oct. 14	1508	327	101	329
Stuffing-box. Yielding	C. Endruweit	713,411	Nov. 11	1831	413	101	1290
Stuffing-boxes. Automatic tightener for	B. J. Shaw	692,371	Feb. 4	271	65	98	855
Stump-extractor	C. R. Redman	696,593	Apr. 1	355	84	99	78
Stump-puller	M. W. Mashburn	691,645	Jan. 21	2412	542	98	537
Stump-puller	S. H. Pickett	715,088	Dec. 9	1957	493	101	2254
Stump-puller	W. Anderson	716,360	Dec. 23	3325	727	101	2576
Stump-puller and tree-transplanter. Combined	W. A. Hammer	700,441	May 20	299	681	99	1818
Stumps. Destroying tree.	J. J. E. McLelland	696,836	Apr. 1	632		99	176
Submarine construction. System of	B. H. Weisker	699,729	May 13	1153	269 270	99	1425
Submarine deposits. Apparatus for raising	J. Mangold and G. A. Schlinsock	695,068	Mar. 11	1409	309	98	2027
Submarine permanent way	K. Leps	694,486	Mar. 4	273	62	98	1770
Submarine transportation system	A. Davidson	710,044	Sept. 30	3969	835	100	2857
Subway	F. Palmer	711,257	Oct. 1	1503	357	101	329
Sucker-rod antifriction device	W. L. Black	712,486	Nov. 4	42	11	101	906
Sucker-rod antifriction device	W. L. Black	712,487	Nov. 4	43	12	101	906
Sucker-rod stub	I. Rallston	705,443	July 22	4063	881	100	873
Sucker-rods and couplings. Antifriction device for	W. L. Black	712,901	Nov. 4	826	192	101	1066
Sucker-rods, &c. Antifriction device for	W. L. Black	712,488	Nov. 4	45	12	101	907
Suckers or drinking-tubes. Machine for making	L. H. Britton and H. W. Morrow	706,835	Aug. 12	1739	388	100	1480
Sugar and solutions thereof. Purifying	C. A. Spreckels and C. A. Kern	698,150	Apr. 22	3307		99	74
Sugar, &c. Apparatus for purging	G. Desaulles	701,687	June 3	736	162 163	99	2262
Sugar. Apparatus for the manufacture of	J. A. Morrell	703,439	July 1	129	29,30	100	28
Sugar-bearing material. Purifying fluid	C. A. Spreckels and C. A. Kern	699,933	May 13	1567		99	1512
Sugar-boiling	C. Steffen	703,496	July 1	212	50	100	45
Sugar. Converting cellulose into	A. Classen	695,735	Mar. 18	2724		98	2315
Sugar. Converting cellulose into	A. Classen	696,800	Apr. 1	769		99	133
Sugar. Converting cellulose into	A. Classen. (Reissue)	12,069	Dec. 30	5533	1227	101	3092
Sugar. Converting cellulose into fermentable	A. Classen	700,616	May 20	2918	672	99	1808
Sugar. Converting wood into	A. Classen	707,903	Aug. 26	3717		100	1928
Sugar-crystals. Treating	C. A. Spreckels and C. A. Kern	700,099	May 13	1861		99	1571
Sugar. Dissolving low-grade	M. Lambert	692,020	Jan. 28	3124	703 704	98	699
Sugar-drying apparatus	F. Mahoudeau	694,767	Mar. 4	840	185 186	98	1889
Sugar from its solutions. Extracting	A. Wohl	707,889	Aug. 26	3686		100	1922
Sugar juice by means of electro dialysis. Purifying	A. Baudry	711,375	Oct. 14	1882	410 411	101	407
Sugar-juice. Defecating	J. A. Besson	710,413	Oct. 7	27	834	101	8
Sugar-juices. Purifying	H. Gouthiere	704,027	July 8	1221		100	258
Sugar-loaves in vacuum. Drying	E. Passburg	717,235	Dec. 30	5533	1129	101	3000
Sugar-loaves. Producing	H. Passburg	713,916	Nov. 18	2814		101	1510
Sugar manufacture by centrifugal action. Treating masse-cuite of	H. Claassen	714,863	Dec. 2	440	94	101	1923
Sugar. Manufacturing	J. H. Lavollay and G. E. Bourgois	693,408	Feb. 18	2258	494	98	1310
Sugar. Means for preserving maple	A. A. Low	715,400	Dec. 9	1420	305	101	2145
Sugar mold. Maple	J. M. Lyons	696,686	Apr. 1	546	125	99	118
Sugar-molding apparatus	J. B. Langlois	712,391	Oct. 28	3818		101	840
Sugar-paddle	C. Stout	697,133	Apr. 8	1498	335	99	338
Sugar product. Intermediate	C. A. Spreckels and C. A. Kern	703,219	June 24	3591		99	2898
Sugar. Purifying and preserving raw	M. Weinrich	711,603	Oct. 21	2324		101	513
Sugar. Recovering	A. Wohl and A. Kollrepp	695,702	Mar. 18	2355		98	2280
Sugar-refining apparatus	J. Robin-Langlois	705,869	July 29	4911	1067	100	1054
Sugar-washing machine	L. Fuchs	691,859	Jan. 28	2303	651	100	656
Suit-hanger	D. B. Salmon and D. C. Mitchell	706,497	Aug. 5	987	217	100	1316
Suit-hanger	L. G. Swan	714,967	Dec. 2	645	135	101	1965
Suit-holder	M. B. Taber	699,036	Apr. 29	5014	1109	99	1130
Suit-holder	C. S. Barrows	699,096	Apr. 29	5107	1129	99	1149
Sulfids. Treating metallic	A. Germot and H. E. L. Flévet.	697,138	Apr. 8	1424	317	99	323
Sulfid and making same. Substituted	J. Koetschet.	692,863	Feb. 11	1148		98	1059
Sulfite compounds. Making	H. H. Wing	716,330	Dec. 16	3249	710 711	101	2545
Sulfocyanids from coal-gas. Making	H. W. Smith, W. T. Gidden, and A. G. Salamon.	705,152	July 22	3437	747	100	745
Sulfur candle	C. H. Shaw	698,748	Apr. 29	4462	984	99	1010
Sulfur dioxide. Apparatus for generating	J. D. Moore and F. M. Martin	700,537	May 20	2792	633	99	1782
Sulfur from sulfid ores. Eliminating the	A. Gutensohn	709,426	Sept. 23	2894	646	100	2623
Sulfuric anhydrid. Apparatus for cooling and absorbing	G. C. Stone	695,180	Mar. 11	1615	358	98	2070
Sulfuric anhydrid. Apparatus for making	R. Knietisch	692,018	Jan. 28	3116	702 703	98	697
Sulfuric anhydrid. Making	H. S. Blackmore. (Reissue)	11,995	May 27	4192		99	2088
Sulfuric anhydrid. Making	A. Clemm	716,985	Dec. 30	4663		101	2883
Sulfuryl chlorid. Making	R. Knietisch and M. Scharff	716,248	Dec. 16	3115		101	2518
Sulky	J. B. Tsai	708,426	Sept. 2	766	72	100	2136
Summer-house	G. R. Lockwood	703,705	July 1	610	185	100	121
Superheater	F. D. Potter and R. D. Jeffreys	716,100	Dec. 16	2814	619 620	101	2457
Superheater	J. P. Sneddon	716,297	Dec. 16	3188	698	101	2532
Superheater	J. P. Sneddon	716,298	Dec. 16	3190	699	101	2533
Superheater	J. P. Sneddon	716,299	Dec. 16	3192	699	101	2533



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Disg.	Vol.	Page.
Superheater .....	J. P. Sneddon .....	716,300	Dec. 16	3195	700	101	2534
Superheater and steam-generator. Combined .....	R. Schulz .....	707,021	Aug. 12	1946	435	100	1530
Support. Adjustable .....	A. Fleming .....	706,228	Aug. 5	439	92	101	1306
Support. Self-adjusting .....	I. Hooper .....	713,100	Nov. 17	1245	276	99	1162
Supporting device .....	E. M. Bowyer .....	702,308	June 17	2010	458	99	2538
Supporting or connecting means .....	D. H. Warner .....	696,528	Apr. 1	240	55	99	55
Supporting-tool .....	A. T. Dudley .....	696,554	Apr. 1	290	68, 69	99	66
Surface-checking device .....	T. C. Page .....	692,028	Jan. 28	3135	706	98	700
Surface for preventing slipping and resisting wear .....	T. P. Farmer .....	696,362	Mar. 25	3871	860	98	2564
Surgeon's operating-table .....	T. B. Powers .....	716,756	Dec. 23	4094	1898	101	2739
Surgeons' use. Sterilizer for .....	C. E. Norton .....	690,759	Jan. 7	761	169	98	161
Surgical absorbent dressing .....	R. W. Johnson .....	700,939	May 27	3571	821	99	1961
Surgical appliance .....	P. H. T. Paulinetti .....	708,068	Sept. 2	126	30	100	2007
Surgical dressing .....	H. P. Weidig .....	696,123	Mar. 25	3357		98	2462
Surgical dressing-packer .....	J. M. Pugh .....	702,997	June 24	3164	727	99	2814
Surgical forceps .....	L. M. Rignot .....	702,472	June 17	2531	470	99	1369
Surgical instrument .....	R. E. Kratzmueller .....	702,443	June 17	2099	478	99	2762
Surgical instrument .....	R. H. Simpson .....	709,367	Sept. 16	2638	592	100	2557
Surgical-instrument case .....	C. J. Tagliabue .....	713,530	Nov. 11	2090	465	101	1340
Surgical instrument. Electro- .....	R. H. Wappler .....	702,752	June 17	2687	617	99	2700
Surgical-instrument hinge .....	C. J. Pilling and G. T. Barber .....	704,207	July 8	1579	341	100	331
Surgical ligatures. Preparing and inclosing .....	R. W. Johnson .....	698,138	Feb. 11	1716	375	98	1177
Surgical use. Scarificator for .....	L. G. Langstaff .....	707,161	Aug. 19	2219	557	99	1396
Surveying and reconnaissance instrument .....	J. C. Sala .....	707,161	Aug. 19	2219	408	100	1804
Surveying instrument .....	J. Beal .....	702,354	June 10	1922	438	99	2519
Surveying instrument .....	T. T. H. Ferguson .....	709,313	Sept. 16	2514	567	100	2530
Surveying-instrument lateral adjuster .....	C. L. Berger .....	696,401	Apr. 1	16	5	99	6
Surveyor's rod .....	G. G. Heghinian .....	717,193	Dec. 30	5081	1102	101	2974
Suspended carrier .....	R. A. Bruce .....	706,521	Aug. 12	1032	227	100	1339
Suspender and garment clamp .....	L. Lewis .....	693,064	Feb. 25	3530	720	98	1330
Suspender attachment .....	P. B. Blood .....	692,603	Feb. 4	387	150	98	930
Suspender attachment .....	C. R. Harris .....	706,933	Aug. 12	1796	402	100	1501
Suspender cast-off .....	F. B. Sweet .....	716,141	Dec. 16	2890	635	101	2472
Suspender cast-off .....	J. F. Molloy .....	716,736	Dec. 23	4057	888	101	2731
Suspender connection to garments. Tab for .....	C. A. Coon .....	702,925	June 24	3002	691	99	2733
Suspender-end .....	W. S. Sherer .....	685,701	Mar. 18	2554	578	98	2280
Suspender-end .....	J. Bloomberg .....	702,396	June 17	2007	458	99	2367
Suspender-end .....	S. W. Patterson .....	717,036	Dec. 30	4753	1030	101	2903
Suspender-end loop .....	H. E. Barnett .....	710,092	Sept. 30	4072	918	100	2878
Suspender-fastener .....	A. S. Henshaw .....	694,857	Mar. 4	1002	221	98	1924
Suspender-link .....	B. J. Balliett .....	692,595	Feb. 4	675	157	98	936
Suspenders .....	R. P. Robinson .....	694,194	Feb. 25	3781	836	98	1636
Suspenders .....	L. A. Talbert .....	694,334	Feb. 25	4102	913	98	1694
Suspenders .....	M. Barnett .....	695,890	Mar. 25	2014	690	98	2370
Suspenders .....	S. W. Patterson .....	696,676	Mar. 25	3247	35	98	2437
Suspenders .....	I. Wechsler .....	697,905	Apr. 15	2816	623	99	630
Suspenders .....	J. P. Heiser .....	697,916	Apr. 15	2838	628	99	634
Suspenders .....	A. K. Wander and R. Dalmar .....	698,085	Apr. 22	3156	694	99	719
Suspenders .....	A. M. Ziegler .....	700,883	May 27	3466	795	99	1939
Suspenders .....	H. T. Hazard .....	700,921	May 27	3537	811	99	1953
Suspenders .....	E. G. Mellem .....	702,962	June 17	2068	684	99	2737
Suspenders .....	C. Bloomberg .....	708,981	July 8	1192	245	100	2415
Suspenders .....	J. W. Burgett .....	705,205	July 22	3546	768	100	760
Suspenders .....	J. M. Sundean .....	706,357	Aug. 5	704	153	100	1258
Suspenders .....	C. O. Luce .....	708,154	Sept. 2	288	69	100	2041
Suspenders .....	H. C. Hine .....	711,314	Oct. 14	1775	394	101	384
Suspenders .....	L. and G. G. Stern and G. G. Lehman .....	712,016	Oct. 28	3151	680	101	703
Suspenders .....	P. M. Way .....	713,026	Nov. 4	1047	244	101	1110
Suspenders .....	H. M. Macwilliam .....	713,659	Nov. 18	2324	518	101	1405
Suspenders .....	G. E. Adams .....	715,931	Dec. 16	2480	546	101	2386
Suspenders and belt. Combined .....	M. Goldin .....	717,189	Dec. 30	5075	1100	101	2973
Suspenders and belt. Interchangeable .....	H. J. Bloomer .....	693,101	Feb. 11	1631	1356	98	1160
Suspenders and trousers connection .....	R. T. Clarke .....	698,456	Apr. 29	3867	837	99	882
Suspenders and trousers connection .....	R. T. Clarke .....	698,457	Apr. 29	3868	854	99	882
Suspenders and trousers connection .....	R. T. Clarke .....	703,386	July 1	43	9	100	11
Suspenders and trousers connection .....	R. T. Clarke .....	705,648	July 29	4509	979	100	973
Suspenders. Cast-off connection for .....	E. T. Specht .....	705,621	July 29	4471	969	100	965
Suspenders or other garment-supporter .....	H. C. Hine .....	708,882	Sept. 9	1641	378	100	2330
Suspension-clamp .....	J. R. Fletcher .....	706,227	Aug. 5	437	92	100	1246
Suspension-clasp .....	M. Rubin .....	696,106	Oct. 25	3563	796	98	2492
Suspension-hook .....	J. F. Kerr and A. Lauster .....	710,061	Sept. 30	3999	902	100	2864
Suspensory .....	J. U. Adams .....	692,043	Jan. 28	3268	715	98	707
Suture-clamp .....	H. Brown .....	709,392	Sept. 16	2684	602	100	2566
Suturing instrument .....	D. Schisgal .....	715,426	Dec. 9	1175	318	101	2157
Swage and casing-spear. Combined .....	E. North .....	695,169	Mar. 11	1600	355	98	2067
Swage-block .....	B. F. Blood .....	700,724	May 27	3153	716	99	1875
Sweater .....	H. Starn .....	711,360	Oct. 14	1858	405	101	402
Sweeper. Rotary .....	J. J. Hoppes .....	696,443	Apr. 1	88	20	99	23
Sweetmeat-machine .....	W. L. White .....	709,382	Sept. 16	2662	597	100	2562
Swimmer's appliance .....	H. Pratt .....	690,663	Jan. 7	568	124	98	122
Swimming appliance .....	F. Minkus .....	693,615	Feb. 18	2661	587	98	1392
Swine from rooting, &c. Device for preventing .....	S. J. Brighton .....	699,444	May 6	603	138	99	1300
Swing .....	W. Merker .....	693,040	Feb. 11	1510	329	98	1137
Swing .....	C. O. Lyman .....	695,465	Mar. 18	2111	475	98	2190
Swing .....	C. A. Salzman .....	696,355	Mar. 25	3846	855	98	2561
Swing .....	G. S. Kerr .....	699,180	May 6	110	29	99	1193

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Swing .....	G. S. Kerr .....	701,354	June 3	84	28	99	2136
Swing .....	A. C. Jacobs .....	704,192	July 8	1553	335	100	326
Swing .....	J. Bany, Sr .....	705,014	July 22	3158	682	100	690
Swing .....	E. Lurch. (Reissue) .....	12,018	July 29	5149	1123	100	1102
Swing .....	W. C. Turtle .....	709,281	Sept. 16	2451	554	100	2516
Swing .....	W. S. Torhill .....	710,033	Oct. 7	455	35	101	91
Swing .....	H. Geyer .....	712,924	Nov. 4	864	201	101	1074
Swing. Folding lawn .....	D. C. Coble .....	697,133	Apr. 8	1414	315	99	321
Swing. Horizontal .....	C. A. Schindler, Jr .....	691,494	Jan. 21	2138	479	98	480
Swing. Lawn or house .....	O. R. Olson .....	709,110	Sept. 16	2114	484	100	2446
Swing. Portable chair .....	A. T. Dowden .....	704,523	July 15	2179	472	100	472
Swinging chair .....	T. M. McKee and S. B. Saffell .....	695,225	Mar. 11	1704	378	98	2088
Swinging gate .....	W. S. Jones .....	702,964	June 24	3107	715	99	2803
Swinging gate .....	S. Hamilton .....	705,401	July 22	3987	863	100	856
Swinging gate .....	J. W. Reames and C. F. Heffington .....	707,256	Aug. 19	2392	536	100	1642
Swinging gate .....	W. J. Holland .....	710,976	Oct. 14	1086	240	101	237
Swinging-machine .....	F. J. McDonnell .....	701,372	June 3	159	34	99	2141
Switch .....	See Adjustable switch. Electrically-operated switch.						
Automatic switch. .....	Electromagnetic switch.						
Charging-switch. .....	High-potential switch.						
Derailing-switch. .....	Knife-switch.						
Electric switch. .....	Lamp-switch.						
Electric-circuit switch. .....	Multiple switch.						
Electric cut-off switch. .....	Overhead switch.						
Electric-light switch. .....	Plug-switch.						
Electric snap-switch. .....	Pneumatic switch.						
Electric time-switch. .....	Push-button switch.						
Electrical switch. .....	Railway-switch.						
Electrical flush switch. .....	Snap-switch.						
Electrical knife-switch. .....	Telephone-switch.						
Electrically-controlled switch. .....	Telephone hook-switch.						
	Thermo-electric switch.						
	Tongue-switch.						
	Track-switch.						
	Tramway-switch.						
	Trolley-track switch.						
	Voltmeter-switch.						
Switch .....	S. J. Harris .....	703,917	July 1	999	217	100	199
Switch .....	G. H. Smith .....	706,266	Aug. 5	512	110	100	1219
Switch .....	A. E. James .....	711,320	Oct. 14	1783	385	101	386
Switch .....	J. J. Smith .....	712,973	Nov. 4	960	233	101	1093
Switch-actuator. Electric. .....	J. P. Hasty .....	699,167	May 6	71	19	99	1190
Switch and frog .....	J. Y. Porter .....	712,845	Nov. 4	719	166	101	1046
Switch and lightning-arrester. Combined. .....	J. S. Perry .....	700,811	May 27	3336	766	99	1913
Switch and plug receptacle-box. Combined. .....	W. J. Bell .....	708,980	July 6	1131	245	100	240
Switchboard and supervisory signal-circuit .....	F. J. Russell .....	696,597	Apr. 1	363	86	99	80
Switchboard apparatus .....	D. S. Hulfish .....	712,801	Nov. 4	632	145	101	1027
Switchboard. Multiple .....	W. Meyer .....	698,038	Apr. 22	3071	676	99	701
Switchboard-socket .....	W. E. McCormick .....	716,460	Dec. 23	3327	771	101	2618
Switch-cluster-operating device .....	H. R. Sargent .....	712,600	Nov. 4	265	64	101	953
Switch-controller. Automatic .....	H. Hubbell .....	701,269	May 27	4172	958	99	2085
Switch-controlling apparatus. Fluid-pressure electric. .....	W. A. N. Dorland .....	692,050	Jan. 28	3182	717	98	710
Switch-indicator. End-cell .....	A. Sundb .....	706,478	Aug. 5	954	208	100	1308
Switch-iron .....	A. C. Walther .....	717,477	Dec. 30	5577	1211	101	3077
Switch-lever .....	J. Flynn .....	716,880	Dec. 30	4451	965	101	2840
Switch-lock. Automatic .....	J. Brennan .....	713,593	Nov. 18	2197	489	101	1379
Switch locking device. Motor-reversing mechanism. Electric time-reversing. .....	J. E. Gillmor .....	709,629	Sept. 23	3155	703	100	2676
Switch-operating apparatus .....	F. W. Garrett and E. W. Stull .....	691,618	Jan. 21	2361	531	98	523
Switch-operating device .....	P. Sorensen .....	691,014	Jan. 14	1238	277	98	271
Switch-operating device .....	J. D. Miller .....	704,336	July 8	1851	399	100	871
Switch-operating device .....	C. E. Jackson .....	699,227	May 6	372	87	98	1249
Switch-operating device .....	E. L. Pence .....	690,459	Jan. 7	138	29	98	31
Switch-operating device .....	T. Cope .....	697,238	Apr. 8	1593	357	99	357
Switch-operating device .....	F. S. Jones .....	707,929	Aug. 26	3761	844	100	1998
Switch-operating device .....	F. E. Quest .....	708,971	Sept. 9	1815	418	100	2364
Switch-operating device .....	J. and F. Stupar .....	709,183	Sept. 16	2264	514	100	2476
Switch-operating device .....	O. McNorton, Jr .....	714,392	Nov. 25	3751	828	101	1721
Switch-operating device. Automatic .....	G. G. Guenther .....	694,741	Mar. 4	779	173	98	1876
Switch-operating mechanism .....	J. Eisele .....	694,006	Feb. 25	3427	754	98	1565
Switch-operating mechanism .....	F. A. Carroll .....	701,790	June 3	910	203	99	2298
Switch-operating mechanism. Electric .....	G. L. Cooper .....	706,024	Aug. 5	36	8	100	1123
Switch or outlet box. Adjustable .....	J. H. Spangler and R. Herman .....	690,886	Jan. 7	976	221	98	205
Switch, outlet, and receptacle box .....	J. H. Rusby .....	702,247	June 10	1734	391	99	2482
Switch safety appliance .....	M. Robinson .....	691,874	Jan. 28	2856	643	98	647
Switch safety device. Point .....	S. J. Harris .....	703,918	July 1	1000	218	100	199
Switch-stand .....	L. Dunn .....	698,108	Apr. 22	3231	706	99	734
Switch-stand .....	J. J. Schrag .....	707,360	Aug. 19	2592	586	100	1683
Switch-stand .....	A. A. Strom .....	709,614	Sept. 23	3131	698	100	2671
Switch-stand .....	E. N. Strom .....	714,060	Nov. 18	3102	685	101	1571
Switch-stand attachment .....	H. F. Ong .....	704,363	July 8	1871	405	100	395
Switch-stand. Upright automatic .....	D. H. Foreman .....	707,066	Aug. 12	2035	454	100	1550
Switch throw or stand .....	C. E. Brown .....	712,040	Oct. 23	3132	696	101	710



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Switch-throwing device.	W. H. H. Welton	692,747	Feb. 4	929	212	98	988
Switch-throwing device.	P. L. Swank	693,185	Feb. 11	1887	399	98	1201
Switch-throwing device.	P. Luther	698,982	Apr. 29	4924	1088	99	1111
Switch-throwing device.	C. C. James	701,880	June 10	1085	246	99	2351
Switch-throwing device.	T. J. Kent	706,668	Aug. 12	1284	295	100	1395
Switch-throwing device.	U. F. Beeghly	709,130	Sept. 16	2157	465	100	2455
Switch-throwing device.	J. Johnson	712,305	Oct. 28	3862	799	101	805
Switch-throwing device.	J. O. McCan	713,905	Nov. 18	2792	620	101	1506
Switch-throwing device. Automatic.	J. N. Quinn	702,745	June 17	2669	614	99	2094
Switch-throwing device. Locomotor	A. C. Wolfe	702,042	June 10	1362	310	99	2405
Switch-throwing mechanism. Electric or automatic	J. M. Walker	712,026	Oct. 28	3165	692	101	706
Switches. Device for automatically opening or closing	J. T. Rice	716,758	Dec. 23	4099	899	101	2740
Switching apparatus.	C. Michalke	704,202	July 8	1573	339	100	329
Switching mechanism.	G. L. Mansfield	695,467	Mar. 18	2114	476	98	2191
Swiveled chair.	F. G. Watkins	714,764	Dec. 2	226	45	101	1883
Sword. Trick.	W. Thomas	714,534	Nov. 25	4014	888	101	1774
Synchronism-indicator	J. F. Bagole	712,174	Oct. 28	2440	754	101	759
Synchronizing alternators.	J. E. Woodbridge	691,334	Jan. 28	2791	739	98	1883
Synchronizing apparatus for alternators	R. E. Huthsteiner	701,886	June 10	1079	244	99	2349
Synchronizing apparatus for alternators	S. W. Mauer	717,234	Dec. 30	5153	1117	101	2990
Synchronizing apparatus for alternators	T. D. Boyles	717,331	Dec. 30	5310	1155	101	3024
Synchronous motion. Means for producing and maintaining	H. A. Rowland	704,929	July 15	2970	637	100	637
Synchronous motion to distant points. Means for transmitting	L. Saxon.	701,947	June 10	1186	570	99	2372
Syringe.	Y. M. Milam	695,470	Mar. 18	2120	477	98	2193
Syringe.	R. H. Eddy	696,728	Apr. 1	631	142	99	137
Syringe.	C. I. Bush	698,447	Apr. 29	3846	848	99	878
Syringe.	F. H. Jones	698,511	Apr. 29	3949	873	99	899
Syringe.	F. C. Gundlach and W. R. Ludewig	708,224	Sept. 2	425	97	100	2068
Syringe.	W. H. Pumphrey	713,017	Nov. 4	1080	241	101	1107
Syringe.	T. L. Jones	716,240	Dec. 16	3102	678	101	2515
Syringe.	A. B. Jamison	716,426	Dec. 23	3456	754	101	2604
Syringe box. Fountain	A. C. Eggers.	702,187	June 10	1638	367	99	2463
Syringe-bulb.	R. H. Eddy	716,526	Dec. 23	3664	800	101	2646
Syringe. Extracting.	J. R. Perry	714,738	Dec. 2	164	33	101	1870
Syringe. Fountain.	J. H. Stearns	716,304	Dec. 16	3205	701	101	2536
Syringe holder. Fountain.	G. Schirmer	692,920	Feb. 11	1285	282	98	1091
Syringe. Hot-air.	A. W. Schramm and E. B. Wilford.	693,162	Feb. 11	1775	389	98	1187
Syringe. Hypodermic.	E. T. Winchester	694,813	Mar. 4	911	208	98	1904
Syringe. Hypodermic.	J. A. Billings	701,671	June 3	710	157	99	2257
Syringe. Hypodermic.	H. J. Gill	713,980	Nov. 18	2943	653	101	1536
Syringe-nozzle.	R. L. McMurran	697,412	Apr. 8	1929	429	99	429
Syringe-nozzle.	H. E. Weber.	703,103	June 24	3367	773	99	2854
Syringe-nozzle.	C. S. Wood	703,107	June 24	3371	773	99	2854
Syringe thermometer attachment. Fountain.	F. King	711,509	Oct. 21	2135	464	101	473
Syringe. Vaginal.	R. H. Eddy and J. B. Johnston	695,698	Jan. 21	2511	562	98	573
Syringe. Vaginal.	A. R. Gordon	694,541	Mar. 4	399	88	98	1797
Syringe. Vaginal.	C. F. Allen	701,124	May 27	3915	900	99	2034
Syringe. Vaginal.	N. C. E. Schwartz	703,615	July 1	424	99	100	84
Syringe. Vaginal.	N. C. E. Schwartz	703,616	July 1	426	99	100	84
Syrup-cooler.	J. Werner	699,730	May 13	1157	270	99	1426
Syrup-cooling apparatus	W. Walter	701,971	June 10	1229	280	99	2380
Tab-cutting machine	E. B. Stimpson	703,748	July 1	691	153	100	134
Table.							
See Adjustable table.	Extension-table.						
Bedstead-table.	Fish-cutting-table.						
Billiard-table.	Folding table.						
Billiard and dining table.	Fruit-assorting table.						
Billiard or pool table.	Game-table.						
Book and study table.	Game and library table.						
Book and study table.	Ironing-table.						
Bottling-table.	Kitchen-table.						
Cigar-wrapping table.	Ore-concentrating table.						
Concentrating - table.	Roller-table.						
Concentrating - table.	Sewing-machine table.						
Concentrating - table.	Surgeon's operating-table.						
Display-table.	Trimming-table.						
Table.							
Table.	C. F. Laib	692,312	Feb. 4	165	38	98	832
Table.	E. Tyden	693,357	Feb. 11	2151	472	98	1268
Table.	W. S. Bayne	699,644	May 13	996	232	99	1394
Table.					317	99	2417
Table.	H. M. Hanson	702,057	June 10	1417			
Table.	G. H. Bullock	705,903	July 29	4972	1082	100	1066
Table.	W. T. Wells	714,981	Dec. 2	671	140	101	1970
Table.	F. A. Greenlaw and M. E. Holmes	715,055	Dec. 2	785	167	101	1995
Table and ironing-board. Combination.	P. Rothenbusch	709,176	Sept. 16	2242	510	100	2471
Table-fastener	J. Neumueller	709,581	Sept. 23	3980	685	100	2661
Table-leg joint.	E. Tyden	696,519	Apr. 1	228	52	99	52
Table lock. Pedestal-extension.	E. Tyden	707,195	Aug. 19	2274	500	100	1618
Table or desk for holding dies	H. B. Hollis	695,051	Mar. 11	1377	302	98	2020
Table-server	A. T. Hatch	705,237	July 22	3640	798	100	787
Table-spread and napkin-holder. Combined	C. M. Wales	705,496	July 22	4164	906	100	891
Table-spread support	D. C. Jordan	708,049	Sept. 2	99	23	100	2002
Table-spread support. Foldable	M. L. Smith	694,498	Mar. 4	195	43	98	1754
Tables, chairs, &c. Collapsible support or frame for	F. Mack	706,675	Aug. 12	1311	289	100	1400
Tables. Collapsible leaf for extension.	H. Johnson	716,238	Dec. 16	3907	677	101	2514
Tables, &c. Extension-slide for	W. Thompson	699,724	May 13	1142	267	99	1423
Tablet.	J. F. Altermatt and D. T. Van Tine	697,773	Apr. 15	2591	574	99	580
Tablet.	A. L. Holton	703,260	June 24	3654	840	99	2911

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	De'g.	Vol.	Page.
Tablet. Compressed	R. M. Whyte	701,488	June 3	276	62	99	2164
Tablet-machine	W. Freck	700,758	May 27	3234	741	99	1802
Tablet-making machine	S. C. Gurley	694,743	Mar. 4	782	173	98	1877
Tablet. Manifolding	B. F. Hoard	707,511	Aug. 19	2860	691	100	1740
Tablet. Writing or drawing	F. E. Dodge	716,629	Dec. 23	3881	848	101	2694
Tabulating-machine	D. E. Felt	694,955	Mar. 11	1188	261	98	1981
Tabulating-machine	D. E. Felt	711,487	Oct. 21	2096	454	101	465
Tabulating mechanism	D. J. T. Hiett	712,066	Oct. 28	3250	711	101	722
Tabulator	F. Rabinovitz	711,787	Oct. 21	2679	590	101	588
Tack-driver and carpet-stretcher. Combined	E. Smith	717,040	Dec. 30	4750	1032	101	2905
Tack-driving mechanism	P. R. Glass	695,384	Mar. 11	1972	441	98	2144
Tack-machine form	F. A. Snell	706,268	Aug. 5	535	116	100	1324
Tack or nail puller	E. Hanner	694,854	Mar. 4	993	221	98	1923
Tack-puller	T. G. Bladen	705,554	July 29	4348	940	100	941
Tacking-tool. Hand.	A. Hebert	696,554	Mar. 18	2284	517	98	2226
Tacking-tool. Hand.	A. Hebert	696,968	Apr. 8	1129	251	99	260
Tackle-block	E. B. Hammond	699,518	May 6	733	171	99	1327
Tackle-block	A. B. Tarbox	711,797	Oct. 21	2696	594	101	592
Tag	R. G. Hitt	696,678	Apr. 1	533	123	99	116
Tag	C. B. Fairchild	703,698	July 1	603	134	100	110
Tag-fastener	G. S. Spencer	694,801	Mar. 4	898	200	98	1902
Tag. Hat-pin.	E. A. Reimann	712,154	Oct. 28	3409	746	101	753
Tag-holder	W. S. Jacobs	705,762	July 29	4729	1023	100	1015
Tag. Marking	L. T. Arnold	699,362	May 6	441	101	99	1265
Tag or check	W. F. Connor	699,370	May 6	455	105	99	1268
Tag. Price	S. Dancyer	690,404	Jan. 7	33	7	98	10
Tag. Shipping	T. Matheny	694,402	Mar. 4	128	28	98	1738
Tag. Shipping	O. A. Steutermann	713,813	Nov. 18	2664	588	101	1465
Tags. Machine for making metal	F. C. Crowe	693,241	Feb. 11	1947	423	98	1224
Tail and rein guard. Combined	C. Daniel	697,453	Apr. 15	2013	444	99	463
Tail-board spring	P. Nickerson, Jr.	699,342	May 6	403	93	99	1256
Tailings. Apparatus for handling	H. W. Blaisdell	692,108	Jan. 28	3285	743	98	731
Tailings. Apparatus for removing	J. H. A. McPhee and J. E. L. Cull	716,268	Dec. 16	3140	687	101	2709
Tailings-elevator. Centrifugal	W. Peck	709,721	Sept. 23	3315	745	100	2523
Tailor's pressing-machine	J. Diech	705,826	July 29	4835	1050	100	1039
Talking-machine	L. P. Valiquet	701,648	June 3	673	147	99	2249
Talking-machine	L. P. Valiquet	701,649	June 3	674	147	99	2249
Talking-machine cabinet	H. Sheble	701,769	June 3	874	194	99	2291
Talking-machine. Coin-operated	B. G. Royal	706,203	Aug. 5	389	83	100	1197
Talking-machine horn	E. A. Heyl	708,810	Sept. 9	1491	341	100	2299
Talking-machine-horn tripod-support	L. P. Valiquet	700,582	May 20	2861	657	99	1796
Talking-machine horns and sound-boxes. Connector for	L. P. Valiquet	713,722	Nov. 18	2438	545	101	1429
Talking-machine record or record-blank	J. E. Alexander	717,311	Dec. 30	5280	1147	101	3017
Talking-machine-record seal	L. P. Valiquet	701,820	June 3	957	212	99	2309
Talking-machines. Horn-supporting arm for	L. P. Valiquet	705,165	July 22	3458	753	100	749
Talking or sound recording and reproducing machine.	J. E. Alexander	692,409	Feb. 4	328	79	98	868
Tally-sheet attachment for billing-platens	R. J. Fisher	705,522	July 22	4223	918	100	908
Tamping-bar	T. Millan	703,288	June 24	3696	852	99	2920
Tanbark-leaching apparatus	E. F. Smith	693,748	Feb. 18	2904	638	98	1443
Tanbark-leaching apparatus	E. F. Smith	693,749	Feb. 18	2905	639	98	1443
Tanbark-leaching apparatus	G. C. Vaughn	698,877	Apr. 29	4743	1045	99	1074
Tanning	W. H. Philippi	708,396	Sept. 2	716	160	100	2126
Tanning agents from the saw-palmetto. Producing	S. F. Gray	703,058	June 24	3250	726	99	2836
Tanning and leaching apparatus	C. M. Walter	713,542	Nov. 11	2102	470	101	1344
Tanning apparatus	B. Jr. and W. C. Allen	716,358	Dec. 23	3323	726	101	2575
Tanning hides, &c.	O. P. Amend	713,046	Nov. 11	1089	101	101	1187
Tanning hides, pelts, &c. Solution for	O. P. Amend	714,433	Nov. 25	3832	793	101	1737
Tanning. Preparing skins for	W. L. Albee	702,864	June 17	2802	690	99	2742
Tanning process. Rapid	K. F. G. Sommer	694,084	Feb. 25	3488	788	98	1578
Tanning skins or hides	A. J. Pilar	715,139	Dec. 2	942	211	101	2029
Tank:							
See Battery-tank.	Oil-tank.						
Cyanid-tank.	Paint-dipping tank.						
Dipping-tank.	Rendering-tank.						
Distributing-tank.	Sectional tank.						
Flush-tank.	Settling-tank.						
Flushing-tank.	Shingle-dipping tank.						
Gas-storage tank.	Stock-tank.						
Glass-tank.	Stone tank.						
Glue-tank.	Storage-tank.						
Measuring-tank.	Thresher-tank.						
Mixing-tank.							
Tank	G. Becking	691,585	Jan. 21	2297	517	98	512
Tank	E. N. Harmon	704,539	July 15	2214	479	100	479
Tank	H. Bradshaw	711,465	Oct. 21	2058	445	101	466
Tank alarm device	M. Kubitzky and R. B. Stewart	710,872	Oct. 7	901	196	101	183
Tank construction	E. D. Chester	699,303	Sept. 16	2496	562	100	2526
Tank-cover	A. Giesler	714,296	Nov. 25	3595	791	101	1691
Tank for storing aerated liquids under pressure	G. S. De Lacy	697,818	Apr. 15	2669	592	99	598
Tank for storing compressed hop-air	C. A. Bartliff	710,405	Oct. 7	16	4	101	6
Tank-heater	M. Lynch	698,983	Apr. 29	4925	1088	99	1112
Tank-heater	H. H. Beers and A. L. Griffin	700,294	May 20	2315	527	99	1684
Tank-heater	J. Strahm	700,854	May 27	3417	785	99	1929
Tank-heater	H. H. Schenk	703,087	June 24	3343	768	99	2849



*Alphabetical list of inventions—(Continued).*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Tank-heater.	D. Wedean	713,821	Nov. 18	2621	585	191	1469
Tank-heater.	J. Strahm	715,895	Dec. 16	2402	532	191	2338
Tank-heater and feed-cooker.	E. Paulson	695,943	Mar. 25	2993	677	98	2385
Tank-indicator.	C. Johnson and D. M. Cameron	712,070	Oct. 28	3256	714	101	723
Tank-lug.	C. S. Beebe	696,793	Apr. 1	754	171	99	161
Tank-lug.	J. Reichert	697,364	Apr. 8	1807	405	99	405
Tank-mold.	A. P. Morris	710,596	Oct. 7	385	81	191	77
Tank or ice-chest.	T. B. Rogers	706,455	Aug. 5	919	199	100	1301
Tanks. Automatic signal apparatus for liquid holding.	J. E. Johnson	693,650	Feb. 18	2726	1601	98	1406
Tap. Ale-cask.	J. Kenney	694,286	Feb. 25	3345	879	98	1670
Tap and die holder.	F. C. Tyler	711,085	Oct. 14	1326	287	191	288
Tap-blank-grooving machine.	F. N. Gardner	717,187	Dec. 30	5070	1099	101	2971
Tap. Bottle.	E. Walker	692,951	Feb. 11	1357	295	98	1104
Tap for aerated liquids. Drawing-off.	S. Young	701,452	June 3	297	66	99	2169
Tap-holder. Reversing.	H. Wharton	708,748	Sept. 9	1356	309	100	2370
Tap-hole plug.	A. Dickey	714,159	Nov. 25	3315	732	101	1636
Tap or die. Collapsible.	P. Krastin	715,671	Dec. 9	1927	1431	101	2247
Taps. Construction of high-pressure water.	W. Bradley	713,740	Nov. 18	2474	532	191	1439
Taps. Device for removing broken.	J. Kinvall	702,011	June 10	1306	298	99	2394
Tapping and stud-setting device.	C. G. Osteman and C. W. H. Blood.	710,116	Sept. 30	4114	928	100	2887
Tapping apparatus. Beer.	P. H. Keefe	703,206	June 24	3566	820	99	2393
Tapping device. Beer.	H. Kraemer and G. Hesse	713,113	Nov. 11	1231	281	191	1167
Tapping device. Beer-barrel.	P. Forg	698,023	Apr. 29	4832	1060	99	1693
Tapping-fixture.	J. Holbach	711,132	Oct. 14	1469	318	101	329
Tapping-jacket.	G. H. Hollm	717,199	Dec. 30	5096	1105	101	2977
Tapping lager-beer kegs. Device for.	M. Barrett	701,670	June 3	709	157	99	2256
Tapping-machine.	H. Hinz	717,500	Dec. 30	5018	1219	101	3085
Tap-holder.	J. W. Brown, Jr.	701,143	May 27	1946	908	99	2040
Tap-holder.	R. Sims	690,897	Jan. 7	1001	226	98	210
Tap-holder.	R. J. Smeeton	694,329	Feb. 25	4083	910	98	1692
Tap-inserting and stitching mechanism.	W. Y. Allen	709,688	Mar. 20	3083	701	99	1846
Tape into edging. Machine for inserting.	M. H. Powell	707,004	Aug. 12	1913	429	100	1523
Tape into edging. Machine for inserting.	M. H. Powell	707,005	Aug. 12	1914	429	100	1524
Tape into edging. Machine for inserting.	E. P. Hatch	707,061	Aug. 12	2023	452	100	1547
Tape into edgings. Machine for threading.	D. Grotta	707,585	Aug. 26	3035	683	100	1791
Tape into edgings. Machine for threading.	J. Davis	708,139	Sept. 2	245	58	100	3032
Tape-reel.	W. Keuffel	702,439	June 17	2094	477	99	2375
Taper-grinding device.	W. Y. Allen	704,123	July 8	1960	428	100	414
Tapet.	W. and A. McDonald and C. D. Tregoning.	698,847	Apr. 29	4697	1035	99	1065
Tar, &c. Production of solid materials from.	C. Dörr	691,934	Jan. 28	2961	.....	98	608
Target.	X. Reichlin	694,581	Mar. 4	471	101	98	1813
Target.	G. S. Goodale	704,631	July 15	2357	512	100	508
Target.	J. L. McCullough	707,617	Aug. 26	3093	697	100	1894
Target apparatus.	J. L. McCullough	708,245	Sept. 2	459	1105	100	2675
Target. Indestructible bird.	E. E. Thresher	694,216	Feb. 25	3818	844	98	1643
Target. Signaling.	G. A. Wirt	708,189	Sept. 2	335	85	100	2054
Target-trap.	L. A. Sherman	696,763	Apr. 1	696	157	99	148
Target trap. Magazine repeating.	W. D. Troutner	715,179	Dec. 2	1009	218	101	2042
Tassel-festooning.	W. B. Shuck	713,800	Nov. 18	2509	570	101	1464
Tattooing instrument.	J. Foulitz	699,915	May 13	1538	354	99	1507
Tea-kettle lid attachment.	T. L. Tinscher	695,893	Mar. 18	2899	657	98	2353
Tea-leaves. Withering.	C. U. Shepard	694,705	Mar. 4	891	198	98	1900
Tea or coffee pot.	F. A. Harrison	703,919	July 1	1002	218	100	200
Teaching apparatus. Music.	J. E. Forfar	699,510	May 6	719	167	99	1324
Teaching apparatus. Music.	H. Woodson	708,688	Sept. 9	1239	285	100	2243
Teaching apparatus. Telegraphy.	C. E. Egan	695,447	Mar. 18	2078	469	98	2185
Teaching device. Arithmetic.	J. J. Terrazas	704,979	July 15	3077	663	100	657
Teaching device. Music.	C. R. Tinsley	692,736	Feb. 4	910	694	98	985
Teaching gun practice. Apparatus for.	C. A. Sporrang	707,729	Aug. 26	3327	745	100	1852
Teaching primary arithmetic. Apparatus for.	A. F. Lorenzen	708,568	Sept. 9	1014	230	100	2198
Teaching type-writing. Automatic keyboard for.	J. Challinger	694,944	Mar. 11	1168	255	98	1978
Teaching type-writing. Machine for.	F. Herit	698,114	Apr. 22	3244	710	99	736
Teaching writing. Means for.	P. S. Halleck	698,938	Apr. 29	4853	1079	99	1067
Teeter-totter. Automatic revolving.	G. R. Unkefer and J. T. Bertelsen	715,321	Dec. 9	1282	373	101	2118
Teeth. Mold for forming artificial.	M. J. Murray	713,330	Nov. 11	1690	381	101	1260
Teeth. Mount for diatomic.	H. M. Justi	691,550	Jan. 21	2228	501	98	499
Telauto-motor.	H. Shoemaker	711,743	Oct. 21	2593	570	101	571
Telegraph.	F. E. d'Humy	693,605	Feb. 18	2647	581	98	1389
Telegraph.	C. E. Fritts	704,023	July 8	1203	292	100	255
Telegraph.	J. E. Carney	715,847	Dec. 9	1334	287	101	2128
Telegraph and telephone signal. Combined district.	C. Selden	701,127	July 8	1432	306	100	304
Telegraph apparatus. Electric.	P. Picard	691,176	Jan. 14	1506	339	98	329
Telegraph. Automatic.	A. C. Gilmore	695,203	Mar. 11	1650	367	98	2078
Telegraph circuit. Multiplex.	L. A. McCarthy	693,530	Feb. 18	2489	369	98	1357

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Telegraph circuit. Multiplex .....	L. A. McCarthy .....	700,800	May 27	3310	760	99	1909
Telegraph Electric .....	T. D. Penniman .....	715,686	Dec. 9	1952	487	101	2523
Telegraph. Facsimile .....	E. E. Kleinschmidt .....	709,158	Sept. 16	2195	502 503 504 505	100	2463
Telegraph instruments. Apparatus for perforat- ing tape for automatic .....	J. Gell .....	710,448	Oct. 7	85	20	101	19
Telegraph-keys. Automatic circuit-closer for .....	J. E. Folsom .....	707,312	Aug. 19	2510	564	100	1666
Telegraph-line repeater .....	J. W. Gray .....	700,037	May 13	1761	407	99	1550
Telegraph-office sounding mechanism .....	J. C. Stewart .....	717,046	Dec. 30	4768	1034	101	2906
Telegraph or other circuits. Automatic fuse-switch for .....	C. A. Stimpson .....	700,989	May 27	3649	888	99	1975
Telegraph or telephone lines. Selective call for .....	W. Palmer, Jr .....	710,335	Sept. 30	4518	1018	100	2974
Telegraph. Page-printing .....	G. Musso .....	707,612	Aug. 26	3093	694	100	1802
Telegraph-paper. Machine for producing perforated .....	G. H. Hackett .....	711,660	Oct. 21	2420	532 533 534	101	533
Telegraph-pole and fence-post .....	I. M. Warner .....	698,424	Apr. 22	3794	837	99	852
Telegraph-poles. Machine for shaping cross-arms of .....	W. D. Neville .....	696,255	Mar. 25	3626	810	98	2515
Telegraph. Printing .....	L. Cerebotani .....	695,537	Mar. 18	2347	507 508 509 781	98	2219
Telegraph. Printing .....	T. M. Foote .....	705,227	July 22	3606	782 783 784	100	780
Telegraph. Printing .....	O. L. Kleber .....	712,939	Nov. 4	893	209 210	101	1080
Telegraph. Signal .....	E. and E. J. Lavens .....	695,568	Mar. 18	2326	526 527	98	2235
Telegraph signals. Apparatus for determining the direction of space .....	J. S. Stone .....	716,135	Dec. 16	2880	634	101	2470
Telegraph signals. Apparatus for relaying space .....	J. S. Stone .....	717,509	Dec. 30	5635	1223	101	3089
Telegraph signals. Apparatus for relaying space .....	J. S. Stone .....	717,514	Dec. 30	5641	1224	101	3090
Telegraph signals. Apparatus for simultaneously transmitting and receiving space .....	J. S. Stone .....	716,136	Dec. 16	2883	634	101	2470
Telegraph signals. Determining the direction of space .....	J. S. Stone .....	716,134	Dec. 16	2877	634	101	2470
Telegraph signals. Relaying space .....	J. S. Stone .....	717,510	Dec. 30	5637	1223	101	3089
Telegraph signals. Relaying space .....	J. S. Stone .....	717,513	Dec. 30	5640	1224	101	3090
Telegraph signals. Simultaneously transmitting and receiving space .....	J. S. Stone .....	716,137	Dec. 16	2885	634	101	2470
Telegraph signals. Simultaneously transmitting and receiving space .....	J. S. Stone .....	716,955	Dec. 30	4600	956	101	2870
Telegraph-sounder .....	G. A. Green .....	697,619	Apr. 15	2306	515	99	621
Telegraph-sounder .....	J. A. Albertson .....	699,056	Apr. 29	5047	1116	99	1138
Telegraph. Submarine cable .....	A. C. Crehore and G. O. Squier .....	711,941	Oct. 28	3003	661	101	674
Telegraph system. Synchronous .....	H. A. Rowland .....	691,667	Jan. 21	2452	550	98	545
Telegraph system. Wireless .....	C. D. Ehret .....	699,158	May 6	57	15	99	1188
Telegraph system. Wireless .....	G. W. Pickard .....	708,071	Sept. 2	130	31	100	2008
Telegraph system. Wireless .....	H. Shoemaker .....	710,121	Sept. 30	4127	931	101	2890
Telegraph system. Wireless .....	H. Shoemaker .....	710,122	Sept. 30	4130	932	100	2890
Telegraph system. Wireless .....	C. D. Ehret .....	710,354	Sept. 30	4549	1027	100	2981
Telegraph system. Wireless .....	C. D. Ehret .....	710,355	Sept. 30	4552	1027	100	2981
Telegraph-transmitter. Mechanical .....	J. W. McDonald .....	706,251	Aug. 5	475	101	100	1212
Telegraphs. Transmitting apparatus for electric .....	T. D. Penniman and H. H. Wie- gand .....	704,917	July 15	2929	629	100	630
Telegraphers' keys, &c. Button for .....	H. J. Greule .....	714,299	Nov. 25	3569	792	101	1692
Telegraphic and telephonic transmission. Signal for composite .....	E. L. Grauel .....	700,911	May 27	3513	807	99	1949
Telegraphic apparatus .....	S. G. Brown .....	702,339	June 10	1892	432 433	99	2512
Telegraphic apparatus .....	C. M. Davis .....	707,557	Aug. 26	2972	671	100	1779
Telegraphic code .....	J. E. Dempsey .....	703,391	July 1	52	10	100	13
Telegraphic distribution .....	H. A. Rowland .....	699,574	May 6	832	196 197	99	1347
Telegraphic distribution .....	H. A. Rowland .....	704,928	July 15	2954	634 635 636	100	636
Telegraphic distribution system .....	H. A. Rowland .....	715,696	Dec. 9	1971	441 442	101	2256
Telegraphic messages over a single wire. Appara- tus for simultaneously transmitting a number of Telegraphic or telautographic apparatus .....	J. Ziegler .....	714,630	Nov. 25	4195	927	101	1809
Telegraphic page-printer .....	E. K. Gruhn .....	714,577	Nov. 25	4091	905	101	1790
Telegraphic page-printer .....	H. A. Rowland .....	699,575	May 6	847	197 198 199	99	1349
Telegraphic receiving-tapes for translation. Means for handling .....	P. B. Delany .....	709,752	Sept. 23	3358	760	100	2722
Telegraphic safety device .....	S. R. Wright .....	704,165	July 8	1501	322	100	315
Telegraphic transmitter .....	C. E. Yetman .....	692,967	Feb. 11	1385	301 302	98	1110
Telegraphic transmitter. Automatic .....	J. A. Toomey .....	702,263	June 10	1758	401	99	2487
Telegraphy .....	J. P. Gorton .....	694,542	Mar. 4	401	88	98	1797
Telegraphy .....	A. C. Crehore .....	707,829	Aug. 26	3568	806 807	100	1900
Telegraphy .....	A. C. Crehore .....	707,830	Aug. 26	3576	808	100	1901
Telegraphy .....	A. C. Crehore .....	707,959	Aug. 26	3803	854 855	100	1946
Telegraphy .....	A. C. Crehore .....	711,942	Oct. 28	3007	662	101	675
Telegraphy .....	A. C. Crehore .....	711,943	Oct. 28	3009	662 663	101	675



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. E.	Vol.	Page.
Telegraphy	H. A. Rowland	713,497	Nov. 11	1886	449 450 451 452 453	101	1321
Telegraphy and telephony. Apparatus for composite systems of simultaneous	J. M. Fell	709,437	Sept. 16	2763	622	100	2582
Telegraphy. Apparatus for wireless	R. A. Fessenden	706,736	Aug. 12	1410	315	100	1421
Telegraphy. Apparatus for wireless	R. A. Fessenden	706,741	Aug. 12	1430	317	100	1424
Telegraphy. Conductor for wireless	R. A. Fessenden	706,739	Aug. 12	1424	316	100	1423
Telegraphy. Electric	S. G. Brown	702,622	June 17	2441	557	99	2647
Telegraphy. Electric	S. G. Brown	703,892	July 1	951	209 210 211	100	191
Telegraphy keyboard	H. A. Rowland	704,927	July 15	2050	633 634	100	635
Telegraphy. Multiple	M. I. Pupin	707,007	Aug. 12	1918	430	100	1525
Telegraphy. Multiple	M. I. Pupin	707,008	Aug. 12	1921	430	100	1525
Telegraphy. Multiplex	H. Shoemaker	716,771	Dec. 23	4126	905 906	101	2745
Telegraphy. Receiver for wireless	A. de Castro	712,764	Nov. 4	544	126	101	1009
Telegraphy. Submarine cable	A. C. Crehore and G. O. Squier	698,261	Apr. 22	3525	775	99	796
Telegraphy. Transmitter for Morse alphabet and printing	L. Cerebotani	692,426	Feb. 4	357	87, 88	98	874
Telegraphy. Wireless	J. Barry	696,715	Apr. 1	609	137	99	192
Telegraphy. Wireless	H. Shoemaker	700,250	May 20	2222	508	99	1666
Telegraphy. Wireless	H. Shoemaker	703,712	July 1	621	138	100	122
Telegraphy. Wireless	H. Shoemaker	703,842	July 1	860	189	100	172
Telegraphy. Wireless	H. Shoemaker	706,500	Aug. 5	990	218	100	1317
Telegraphy. Wireless	R. A. Fessenden	706,735	Aug. 12	1406	314 315	100	1420
Telegraphy. Wireless	R. A. Fessenden	706,737	Aug. 12	1415	316	100	1422
Telegraphy. Wireless	R. A. Fessenden	706,738	Aug. 12	1421	316	100	1423
Telegraphy. Wireless	H. Shoemaker	707,064	Aug. 12	2029	453	100	1548
Telegraphy. Wireless	G. W. Pickard	708,072	Sept. 2	132	31, 32	100	2008
Telegraphy. Wireless	H. Shoemaker	711,130	Oct. 14	1393	302	101	304
Telegraphy. Wireless	H. Shoemaker	713,700	Nov. 18	2400	535	101	1421
Telegraphy. Wireless	H. Shoemaker	714,246	Nov. 25	3487	767 768	101	1668
Telegraphy. Wireless	H. Shoemaker	714,648	Nov. 25	4223	934	101	1515
Telegraphy. Wireless	L. De Forest and E. H. Smythe	716,203	Dec. 16	3628	661	101	2501
Telephone	A. Neri	697,528	Apr. 15	2137	475	99	487
Telephone	E. E. Yaxley	713,829	Nov. 18	2634	587	101	1471
Telephone and fire-alarm signal	L. G. Woolley	695,260	Mar. 11	1761	390	98	2100
Telephone and telegraph systems. Combined	C. E. Buell	716,186	Dec. 16	2994	654	101	2494
Telephone apparatus. Coin-freed	K. Uchermann	695,013	Mar. 11	1301	287 288	98	2004
Telephone apparatus. Party-line	G. Möller	698,307	Apr. 22	3592	792	99	809
Telephone attachment	H. I. Hauxhurst	690,651	Jan. 7	547	119	98	117
Telephone attachment	G. T. Newman	712,402	Oct. 28	3841	840	101	845
Telephone-booth	C. L. Kiefer	698,025	Apr. 22	3049	670	99	607
Telephone-booth	E. L. Tufts	704,986	July 15	3095	667	100	660
Telephone-booth	F. L. Tufts	704,987	July 15	3096	667	100	660
Telephone-cable connection	T. P. Jones	706,567	Aug. 12	1103	244	100	1354
Telephone-call annunciator	Z. E. Jackson	709,327	Sept. 16	2540	571	100	2535
Telephone-call for party-lines	W. A. Williams, O. L. Ingram, and J. B. Wilson	701,783	June 3	896	200	99	2296
Telephone call-list	M. Michaelis	701,596	June 3	574	125	99	2228
Telephone-circuit	W. K. Cook	691,245	Jan. 14	1627	372	98	335
Telephone-circuit	G. E. Goodhead	699,676	May 13	1055	246	99	1406
Telephone-circuit	I. H. Farnham	706,398	Aug. 5	614	134	100	1239
Telephone-circuit	M. H. Howell	706,319	Aug. 5	636	139	100	1244
Telephone-circuit system	E. F. Frost	699,162	May 6	64	17	99	1189
Telephone. Coin-controlled	S. P. Grey	694,960	Mar. 11	1202	263	98	1983
Telephone. Coin-controlled	S. P. Grey	708,138	Sept. 2	280	62	100	2096
Telephone coin-controlled apparatus	E. G. Lewis	712,559	Nov. 4	194	46	101	938
Telephone-exchange	N. H. Holland	694,918	Mar. 4	1117	247	98	1948
Telephone-exchange. Automatic	N. E. Norstrom	701,499	June 3	394	89	99	2189
Telephone-exchange. Automatic	A. M. Bullard	709,739	Sept. 23	3841	753 754	100	2715
Telephone-exchange circuits. Signaling and switch-board apparatus for	D. S. Hulfish	711,973	Oct. 28	3067	673	101	687
Telephone-exchange signal system	W. S. Paca	694,662	Mar. 4	623	135	98	1844
Telephone-exchange switchboard system	W. S. Paca	693,889	Feb. 25	3183	703	98	1517
Telephone-exchange system	W. S. Paca	693,890	Feb. 25	3186	703	98	1517
Telephone-exchange system	W. M. Davis	697,989	Apr. 22	2995	660	99	685
Telephone-exchange system	W. M. Davis	697,992	Apr. 22	3003	660	99	687
Telephone-exchange system	W. M. Davis	697,993	Apr. 22	3005	661	99	688
Telephone-exchange system	H. G. Webster	698,087	Apr. 22	3159	694	99	720
Telephone-exchange system and apparatus. Automatic	A. M. Bullard and M. C. Rorty	709,740	Sept. 23	3351	755	100	2716
Telephone-exchange system. Multiple-switchboard	W. M. Davis	697,991	Dec. 22	3001	660	99	687
Telephone-exchange systems. Supervisory signal for	C. E. Scribner	716,293	Apr. 16	3182	696	101	2531
Telephone-exchange toll apparatus	W. W. Dean	710,318	Sept. 30	4488	1012 1013	100	2968
Telephone hook-switch	W. W. Dean	704,697	July 15	2466	533	100	531
Telephone-inclosure	A. J. Parke	711,588	Oct. 21	2291	499	101	506
Telephone-inclosure	A. J. Parke	711,589	Oct. 21	2292	499	101	507
Telephone instrument	H. M. Reeves	698,055	Apr. 22	3106	683	99	709
Telephone instrument. Combination	J. G. Nolen	697,002	Apr. 8	1184	266	99	271
Telephone-line calling apparatus	W. W. Dean	692,250	Feb. 4	62	14	98	811
Telephone-lines. Selective calling appliance for	F. R. McBERTY	710,393	Sept. 30	4514	1017	100	2974

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Telephone-lines. Service-meter for	F. R. McBerty	690,453	Jan. 7	129	27	98	29
Telephone-lines. Switching mechanism for interconnecting	A. K. Andriano	692,189	Jan. 28	3423	775	98	760
Telephone-lock	G. P. Moore	712,950	Nov. 4	925	215	101	1086
Telephone-mouthpiece. Antiseptic	W. M. English and G. A. Burns	706,169	Aug. 5	326	69	100	1183
Telephone-mouthpiece antiseptic attachment	H. C. Smith and M. H. Woolsey	708,671	Sept. 9	1206	275	100	2237
Telephone-mouthpieces. Antiseptic protector for	R. I. Willmarth	716,329	Dec. 16	3248	710	101	2545
Telephone or telegraph circuits. Transfer-board for	A. B. Chance	693,784	Feb. 13	2961	653	98	1454
Telephone or telegraph pole	I. M. Warner	708,277	Sept. 2	521	119	100	2087
Telephone or telegraph system	E. Shelby	700,380	May 20	2495	572	99	1719
Telephone Pay	C. E. Egan	714,680	Dec. 2	54	11, 12	101	1848
Telephone-receiver	G. J. Nolen	692,897	Feb. 11	1237	274	98	1079
Telephone receiver	L. Mellet	707,441	Aug. 19	2743	621	100	1715
Telephone receiver	W. M. Miner	711,640	Oct. 21	2386	524	101	526
Telephone receiver	K. B. Miller	717,428	Dec. 30	5494	1192	101	3060
Telephone receiver	K. B. Miller	717,429	Dec. 30	5496	1192	101	3060
Telephone-receiver support	G. M. Beerbower	693,268	Mar. 11	1774	392	98	2102
Telephone-repeater or relay	S. D. Sprong	692,553	Feb. 4	593	139	98	919
Telephone-selecting device	W. D. Watkins	695,976	Mar. 25	3048	692	98	2397
Telephone. Self-restoring	L. J. Loeffler	710,065	Sept. 30	4006	94	100	2866
Telephone set. Field	L. Schmidt	703,004	June 24	3173	731	99	2816
Telephone-stations. Sound-strengthening appliance for	F. Oppendek	702,609	June 17	2527	578	99	2666
Telephone substation-registering system	J. D. Hobbs	693,105	Mar. 11	1468	327	98	2039
Telephone-switch	C. B. McPherson	709,351	Sept. 16	2580	582	100	2544
Telephone-switch	J. A. Warrick	714,540	Nov. 25	4024	890	101	1776
Telephone switch and lock-out mechanism for interconnecting lines. Individual	A. K. Andriano and H. Herbstritt	691,229	Jan. 14	1598	365	98	348
Telephone-switch. Intercommunicating	N. Bassett and W. S. Phoenix	701,982	June 3	7	2	99	2110
Telephone-switchboard	J. M. Overshiner	702,028	June 10	1338	305	99	2400
Telephone-switchboard-plug	H. P. Clausen	711,555	Oct. 21	2233	485	101	494
Telephone-switchboard signal-lamp	F. R. McBerty and F. H. Loveridge	709,996	Sept. 30	3888	877	100	2840
Telephone-switchboard supervisory signal	C. E. Scribner. (Reissue)	12,007	July 1	1121	243	100	222
Telephone-switchboards. Combination drop and jack for	H. M. Fisk	699,619	May 6	933	216	99	1368
Telephone-switchboards. Self-ejecting plug for	C. F. Butte	692,004	Jan. 28	3092	695	98	692
Telephone swiveling trumpet	A. Schoeler	715,878	Dec. 16	2374	526	101	2362
Telephone system	F. E. Mayberry	691,281	Jan. 14	1698	387	98	269
Telephone system	G. Ritter	691,664	Jan. 21	2441	549	98	543
Telephone system	G. Ritter	691,665	Jan. 21	2446	549	98	544
Telephone system	F. B. Stafsing and C. Egnér	693,356	Feb. 11	2150	472	98	1268
Telephone system	H. P. Clausen	701,152	May 27	3958	911	99	2043
Telephone system	C. G. Burke	701,794	June 3	914	204	99	2239
Telephone system	F. W. Dunbar. (Reissue)	12,031	Sept. 16	2811	632	100	2593
Telephone system	C. G. Burke	713,744	Nov. 18	2478	552	101	1440
Telephone system	A. F. Swan	714,759	Dec. 2	214	42	101	1880
Telephone system	W. M. Davis	715,999	Dec. 16	2625	575	101	2411
Telephone system	W. C. Wright	718,832	Dec. 23	4186	917	101	2756
Telephone system. Automatic	J. J. Brownrigg and J. K. Norstrom	696,161	Mar. 25	3447	773	98	2480
Telephone system. Electric	E. W. Pemberton	697,009	Apr. 8	1200	269	99	274
Telephone system. Secret-service	A. K. Andriano	698,386	Apr. 22	3723	823	99	837
Telephone-system signal-bell	C. E. Egan	714,681	Dec. 2	57	12	101	1849
Telephone systems. Message transmitting and recording mechanism for	W. F. Smith	711,453	Oct. 14	2096	439	101	437
Telephone systems. Toll-collecting and call-recording device for	J. B. Gill. (Reissue)	12,015	July 22	4328	935	100	922
Telephone, telegraph, electric-light, and power system. Combined	A. M. Stark	716,302	Dec. 16	3198	700	101	2535
Telephone toll-line apparatus	T. R. Laing	698,972	Apr. 29	4907	1084	99	1108
Telephone toll-line coin-collector	J. J. O'Connell	704,263	July 8	1681	385	100	352
Telephone-transmitter	M. Weissert	710,300	Sept. 30	4472	1008	100	2965
Telephone-transmitter	M. R. Hutchison	710,979	Oct. 14	1090	241	101	238
Telephone-transmitter	T. C. Knowles	717,218	Dec. 30	5125	1111	101	2984
Telephone-transmitter-arm joint	C. T. Mason	714,813	Dec. 2	322	70	101	1902
Telephone-transmitter-arms. Base-plate for	C. E. Wilson	695,613	Apr. 29	4167	917	99	943
Telephone-transmitter circuit	A. B. Stetson	716,779	Dec. 23	4142	908	101	2749
Telephone-transmitter sanitary attachment	H. Baethig	715,455	Dec. 16	2625	575	101	2166
Telephone-transmitter sanitary shield	F. L. Tauber	694,041	Feb. 25	3507	732	98	1581
Telephone-transmitters or speaking-tubes. Mouth-piece for	J. W. Brown	711,615	Oct. 21	2247	513	101	517
Telephone-wires. Device for preventing humming of	M. Grover	705,073	July 22	3265	707	100	711
Telephones, &c. Adjustable support for	W. E. Blodgett	696,160	Mar. 25	3448	772	98	2480
Telephones, telegraphs, &c. Traveling contact for railway	A. D. Jones	714,189	Nov. 25	3380	744	101	1648
Telephonic receiver for wireless signal apparatus	T. Tommasina	700,161	May 13	2015	461	99	1600
Telephonic wall set	C. E. Wilson	698,612	Apr. 29	4165	916	99	943
Telephony	I. Kitsee	691,060	Jan. 14	1310	296	98	288
Telephony	J. Lyons	705,685	July 29	4532	995	100	867
Telephony	J. Lyons	705,686	July 29	4535	995	100	867
Telescope	G. Fecker	695,712	Mar. 18	2366	581	98	2223
Telescope	F. L. Smith and H. D. Gibbs	701,520	June 3	423	96	99	2195
Telescope	A. A. Common	702,048	June 10	1379	313	99	2408
Telescope. Binocular	E. Bausch and G. Hommel	712,113	Oct. 28	3325	729	101	737
Telescope. Binocular prism	C. P. Goetz	709,898	Sept. 30	3698	833	100	2800
Telescope-mount	B. A. Fiske	699,300	May 6	321	73, 74	99	1340
Telescope. Prism	W. H. Harvey	715,793	Dec. 16	2165	480	101	2321
Telescope. Prismatic binocular	F. H. Hill	699,108	May 6	72	19	99	1190
Telescope. Prismatic sighting	A. König	708,720	Sept. 9	1306	298	100	2258
Telescopic case	C. L. Gilbert	698,488	Apr. 29	3916	865	99	892



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Telescopic compound engine	W. Schneider	707,647	Aug. 26	3156	710	100	1817
Telescopic compound engine	W. Schneider	716,115	Dec. 16	2845	628	101	2463
Telesig. Multiplex	W. S. Burnett and W. H. Goodall	705,511	July 22	4194	912	100	896
Tellurian	J. A. B. Lovett	704,350	July 8	1848	400	100	391
Tellurian	C. S. Henderson	710,454	Oct. 7	101	22, 23	101	22
Temperature-exchanging apparatus.	J. Desmaroux	704,818	July 15	2714	587	100	581
Temperature. Means for automatically indicating changes in	R. Keyte	704,966	July 15	3055	656	100	652
Temperature of heating systems. Means for regulating	W. P. Powers	710,301	Sept. 30	4458	1005	100	2962
Temperature-regulator.	A. Roesch	705,613	July 29	4458	966	100	963
Temperatures of heated substances. Apparatus for gaging	E. F. Morse	696,916	Apr. 1	1006	224	99	212
Temperatures of heated substances. Gaging	E. F. Morse	696,878	Apr. 1	909	210	99	192
Tempering-bath	J. E. Lawrence	706,966	Aug. 12	1854	415	106	1511
Tempering-vat, churn, and butter-worker. Combined	P. M. Sharples	706,118	Aug. 5	213	44	100	1160
Temple-attaching device	F. G. Hirst	707,109	Aug. 19	2127	474	100	1596
Tennis bat	W. E. Bussey	713,953	Nov. 18	3883	473	101	1530
Tennis net. Table	J. Salmon	699,980	May 13	1661	381	99	1530
Tennis net. Table	J. H. and W. C. Quiggin	702,154	June 10	1576	357	99	2451
Tennis racket. House	E. Boulanger	702,697	June 17	2580	591	99	2677
Tennis racket. Parlor	H. W. Longfellow, Jr	717,504	Dec. 30	5625	1221	101	3086
Tennis-set holder. Table	O. Haskell	713,762	Nov. 18	2517	560	101	1448
Tenon-cutting machine	D. Lynn	690,447	Jan. 7	117	25	98	27
Tenoning-machine	J. A. Barnes	696,537	Apr. 1	2350	59	99	538
Tenoning-machine. Hand	R. A. Mills	707,859	Aug. 26	3630	818	100	1910
Tension device	H. A. Webster	704,411	July 8	1945	421	100	409
Tent	F. Bahrmann	701,126	May 27	3918	900	99	2034
Tent	J. P. Nelson	707,347	Aug. 19	2571	581	100	1679
Tent half and poncho. Shelter	W. S. Faulkner	703,245	June 24	3629	834	99	2006
Terpene peroxid. Chemical compound	A. S. Ramage	710,803	Oct. 7	935	204	101	190
Tent-cup	W. W. Emmons	702,862	Dec. 10	1933	440	99	2522
Test-indicator	F. B. Jacobs and H. D. Waterhouse	715,582	Dec. 9	1775	394	101	2215
Testing and vending machine. Coin-controlled	A. Stewart	711,017	Oct. 14	1173	239	101	258
Testing translucent substances by colors. Instrument for	J. F. Graae	696,371	Mar. 25	3887	863	98	2567
Tether	H. J. Davis	695,427	Mar. 11	2040	458	98	2157
Tethering-pin	R. C. Bridge	716,010	Dec. 16	2882	579	101	2418
Textile-covered molds. Machine for making	G. W. Swift, Jr.	711,595	Oct. 21	2367	504	101	1590
Textile goods. Making colored designs on	A. and H. Barraclough	713,887	Nov. 18	2951	—	101	1475
Textile-roller clearer	R. S. Matteson	697,212	Apr. 8	1551	348	99	349
Thawing frozen ground. Apparatus for	G. R. Clarke	702,924	June 24	3001	691	99	3782
Theater appliance	A. M. Zinn	715,730	Dec. 9	2042	457	101	2272
Theater-chair	M. Reed	694,990	Mar. 11	1257	275	98	1996
Theater-chair mirror attachment	H. A. Northridge	700,975	May 27	3628	833	99	1972
Theater. Miniature	A. L. McCormick	696,885	Apr. 1	830	191	99	175
Theater. Portable revolving	C. F. Bramhall	706,891	Aug. 12	1729	386	100	1487
Theatrical appliance	J. W. Sherman	700,381	May 20	2497	572	99	1720
Theatrical lighting	G. E. Stephenson	711,361	Oct. 14	1859	406	101	402
Theatrical scenery	L. J. Carter	703,763	July 1	714	158	100	143
Theatrical scenic arch	E. L. Snader	716,490	Dec. 23	3589	784	101	2632
Theophyllin. Making	M. Engelmann	716,994	Dec. 30	4681	—	101	2887
Therapeutic application of smoke. Device for	P. J. Schreiber	691,732	Jan. 21	2567	575	98	570
Therapeutic bath	A. Pfister-Schmidhauser	712,436	Oct. 28	3919	858	101	860
Therapeutic electrical apparatus	I. E. Shaffer	717,085	Dec. 30	4752	1090	101	2903
Thermo-electric alarm	H. Black	694,239	Feb. 25	3847	853	98	1649
Thermo-electric element	C. B. Thwing	704,595	July 15	2302	—	100	496
Thermo-electric generator	C. B. Thwing	704,596	July 15	2303	—	100	496
Thermo-electric generator	I. Kitsee	713,652	Nov. 18	2310	515	101	1402
Thermo-electric pile	A. Heil	715,265	Dec. 9	1174	250	101	2095
Thermo-electric switch	J. G. Nolen	697,530	Apr. 15	2140	476	99	487
Thermocauter	L. Wirsching	706,482	Aug. 5	962	210	100	1310
Thermometer. Clinical	J. F. Windolph and R. C. Stofer	702,387	June 10	1980	451	99	2532
Thermometer. Maximum	G. H. Zeal	695,262	Mar. 11	1767	391	98	2101
Thermometer. Multiplex electric	A. Zeleny	705,187	July 22	3511	762	100	762
Thermometer. Oven	G. J. Day	693,118	Feb. 11	1679	365	98	1170
Thermometer. Oven	C. E. Evans	695,293	Mar. 11	1832	408	98	2114
Thermophore	F. Heiliger	708,549	Sept. 9	986	223	100	2192
Thermostat	G. R. Sherman	695,055	Mar. 18	2479	502	98	2366
Thermostat	A. Roesch	704,115	July 8	1403	302	99	235
Thermostat	A. T. Le Vesconte	714,810	Dec. 2	318	70	101	1901
Thermostats. Means for testing	T. M. Heaphy	706,177	Aug. 5	341	73, 74	100	1186
Thill-coupling	W. L. Bodman	691,891	Jan. 28	2893	651	98	654
Thill-coupling	C. C. Bradley	694,050	Feb. 25	3522	775	98	1584
Thill-coupling	M. Oloro	684,411	Mar. 4	148	33	98	1744
Thill-coupling	G. H. Fernald	695,097	Mar. 11	1454	323	98	2036
Thill-coupling	G. H. Fernald	695,090	Mar. 25	2323	302	98	2378
Thill-coupling	A. Paul	696,839	Apr. 1	896	192	99	176
Thill-coupling	M. F. Bishop and M. A. Toline	696,897	Apr. 1	971	217	99	205
Thill-coupling	C. C. Bradley	697,130	Apr. 8	1406	314	99	319
Thill-coupling	C. C. Bradley	697,603	Apr. 15	2272	507	99	514
Thill-coupling	W. F. Schaeffer	697,667	Apr. 15	2398	593	99	538
Thill-coupling	G. F. Sprague	698,576	Apr. 29	4059	898	99	932
Thill-coupling	B. G. Foster	699,512	May 6	732	308	98	1325
Thill-coupling	M. L. Hegglund and W. W. Revell	700,195	May 20	2105	482	99	1642
Thill-coupling	B. R. Rapp	701,087	May 27	3837	881	99	2017

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Invention.	Name.	No.	Date.	Monthly volume.		Vol.	Official Gazette.
				Spec.	Diagrams.		
Thill-coupling	J. D. Ellwanger	701,184	May 27	4014	922	99	2055
Thill-coupling	H. Miles and C. H. Blanchard	701,367	June 3	152	32	99	2140
Thill-coupling	T. J. Hubbell	702,951	June 24	3076	707	99	2795
Thill-coupling	L. G. Sprague	703,675	July 1	554	125	100	110
Thill-coupling	C. A. Smith	705,151	July 22	3436	747	100	745
Thill-coupling	G. H. Spitzal and G. E. Lord	705,725	July 23	4784	1088	100	1028
Thill-coupling	T. F. Ware	707,741	Aug. 26	3369	758	100	1860
Thill-coupling	A. H. Worrest	708,689	Sept. 9	1243	285	100	2244
Thill-coupling	C. C. Bradley. (Reissue)	12,004	Sept. 23	3581	807	100	2765
Thill-coupling	C. C. Bradley. (Reissue)	12,035	Sept. 23	3582	807	100	2765
Thill-coupling	J. M. Bryant	710,316	Sept. 30	4483	1010	100	2967
Thill-coupling	A. Mendenhall	710,305	Sept. 30	4570	1080	100	2985
Thill-coupling	J. G. Leshner	713,180	Nov. 11	1361	306	101	1192
Thill-coupling	L. J. Dillon	713,290	Nov. 11	1621	366	101	1244
Thill-coupling	L. Pridcaux	713,919	Nov. 18	2817	625	101	1510
Thill-coupling	R. Eccles	714,163	Nov. 25	3826	733	101	1637
Thill-coupling	W. A. Buchanan	714,634	Nov. 25	4202	929	101	1811
Thill-coupling	L. F. Torrey	717,056	Dec. 30	4796	1039	101	2913
Thill-coupling antirattler	E. W. Whitney	704,190	July 5	1394	320	100	814
Thill-coupling antirattler and bolt-lock	J. G. Leshner	711,636	Oct. 21	285	522	101	2113
Thill or pole coupling	C. E. Cain	695,030	Mar. 11	1339	295	98	2012
Thill-support	J. H. Kessler	690,587	Jan. 7	421	90	98	92
Thill-support	R. T. Gillespie	693,261	Feb. 11	1975	420	98	1230
Thill-support	W. D. Smith	697,286	Apr. 8	1689	377	99	380
Thill-support	H. W. Thoma	715,438	Dec. 9	1492	323	101	2160
Thill. Vehicle	D. G. Brough	701,994	June 10	1279	238	99	3388
Thill. Vehicle	W. H. Schultz	713,303	Dec. 9	1255	266	101	2113
Thioxanthin and making same	F. Ach	708,513	Sept. 9	920		100	2151
Thread-cutter	C. P. McKim	691,289	Jan. 14	1724	392	98	375
Thread-cutter	A. D. Marble	696,988	Apr. 8	1163	259	99	267
Thread-cutting appliance	R. A. Hamilton	703,193	June 24	3541	814	99	2887
Thread-cutting attachment for spools	J. F. Cordes	690,400	Jan. 7	27	6	98	9
Thread-cutting attachment for spools	F. E. Norton	711,784	Oct. 21	2674	584	101	587
Thread-cutting machine	H. W. Oster	694,412	Mar. 4	149	33, 34	98	1744
Thread-cutting machine	C. W. James	701,732	June 3	820	180	99	2379
Thread-cutting tool. Adjustable	H. B. Yates	705,809	July 29	4809	1044	100	1033
Thread-dressing machine	G. A. Fredenburgh	702,786	June 17	2747	633	99	2712
Thread-holder	J. Metcalfe and T. Bell	695,322	Mar. 11	1875	417	98	2122
Thread-holder for spools	D. Gamble	693,854	Feb. 25	3112	680	98	1503
Threading-tool	J. E. Baines	696,299	Mar. 25	3702	827	98	2531
Thresher	W. A. Hesse	715,066	Dec. 2	800	170	101	1998
Thresher and separator. Pea	S. H. Williams	697,188	Apr. 8	1511	337	99	341
Thresher. Flax	J. T. Smith	716,587	Dec. 23	3796	826	101	2675
Thresher. Pea	J. A. Paris, E. B. Steelman, and J. L. Haverfield	710,366	Sept. 30	4570	1031	100	2995
Thresher-screen	J. H. Jensen	707,067	Aug. 12	2040	455	100	1551
Thresher self-feeder	M. I. Howe	697,088	Apr. 8	1349	299	99	306
Thresher-tank	E. E. Stutz	691,920	Jan. 28	2934	661	98	662
Thresher tooth-fastener	W. W. Jones	714,708	Dec. 2	111	22	101	1860
Threshers and separators. Clover-hulling attachment for grain	C. Saylor	696,498	Apr. 1	183	44, 45	99	43
Threshing-machine	J. A. Beam	690,690	Jan. 7	619	135	98	131
Threshing-machine	G. F. Conner	691,116	Jan. 14	1394	317	98	305
Threshing-machine	E. W. Flagg. (Reissue)	11,965	Feb. 4	1056	237	98	1012
Threshing-machine	S. Southworth	693,180	Feb. 11	1819	306	98	1197
Threshing-machine	J. E. and F. L. Elder	693,505	Feb. 18	2442	534	98	1318
Threshing-machine	W. H. Conover and J. W. Miles	693,757	Feb. 18	2964	654	98	1455
Threshing-machine	F. P. Sutton	697,563	Apr. 15	2198	489	99	499
Threshing-machine	E. J. Vraalstad	699,044	Apr. 29	5026	1111	99	1133
Threshing-machine	R. Davies	702,345	June 10	1905	435	99	2415
Threshing-machine	G. W. Haines	708,061	June 24	3283	756	99	2837
Threshing-machine	L. H. Livingston	713,229	Nov. 11	1451	329	101	1211
Threshing-machine attachment	R. Schroeder	694,430	Mar. 4	183	40	98	1732
Threshing-machine attachment	J. G. Walker	707,287	Aug. 19	2465	553	100	1657
Threshing-machine band-cutter	G. F. Conner	701,846	June 10	1006	224	99	2335
Threshing-machine band-cutter and feeder	I. J. Ross	699,243	May 6	198	47	99	1214
Threshing-machine band-cutter and feeder	A. Johnson	708,132	June 24	3422	785	99	2665
Threshing-machine band-cutter and feeder	G. W. Parsons	715,418	Dec. 9	1452	313	101	2152
Threshing-machine band-cutter and feeder	A. Vanhouweling	715,443	Dec. 9	1499	325	101	2161
Threshing-machine band-cutting and feeding device	W. D. Lindsay	693,976	Feb. 25	3366	739	98	1553
Threshing-machine cylinder	J. G. Snyder	717,043	Dec. 30	4762	1032	101	2905
Threshing-machine feed apparatus	W. Schäfer	711,647	Oct. 21	2397	527	101	528
Threshing-machine feed device	J. F. Welch	691,215	Jan. 14	1572	357	98	343
Threshing-machine feeder	T. E. Mahoney	697,095	Apr. 8	1358	301	99	308
Threshing-machine governor mechanism	T. E. Mahoney	697,096	Apr. 8	1359	302	99	308
Threshing-machine. Grain	W. Maloney	696,460	Apr. 1	118	28, 29	99	31
Threshing-machine. Grain	P. Hofmann	700,047	May 13	1779	411	99	1554
Threshing-machine. Grain	F. W. Billings	713,734	Nov. 18	2461	549	101	1437
Threshing-machine or grain-separator band-cutter and feeder	W. Brandon	699,908	May 18	1522	350	99	1508
Threshing-machine self-feeder	A. Herl	713,493	Nov. 11	1865	422	101	1297
Threshing-machine tooth	G. F. Conner	691,841	Jan. 28	2806	630	98	636
Threshing-machines and grain-separators. Self-propelling truck and motor for	F. A. Ferguson	704,528	July 15	2188	474	100	474



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Threshing or separating machine	G. E. Wilson	705,987	July 29	5123	1117	100	1097
Threshing peas, beans, &c. Machine for	J. W. Carnochan	717,345	Dec. 30	5335	1161	101	3029
Threshold. Automatic	C. B. Soden	704,395	July 8	1921	414	100	404
Threshold-gage	E. O. Keef	697,090	Apr. 8	1351	299	99	306
Thymol. Making	M. Dinesman	697,994	Apr. 22	3008		99	688
Ticket-case	J. G. Warner	711,601	Oct. 21	2321	507	101	512
Ticket. Combination premium	G. F. Schrafft and F. E. Hall	715,879	Dec. 16	2375	526	101	2362
Ticket-dater	S. F. Haskins	692,235	Feb. 4	123	29	98	824
Ticket-delivering device. Coin-controlled	M. Borden	701,672	June 3	711	157	99	2257
Ticket fastener. String	S. Dancyger	708,756	Sept. 9	1375	314	100	2274
Ticket-holder	A. S. Adams	702,045	June 10	1372	312	99	2407
Ticket holder. Theater or transportation	E. O. Loomis	702,107	June 10	1492	336	99	2433
Ticket issuing, printing, and recording machine	W. I. Ohmer and J. Leitschuh	695,115	Mar. 11	1487	331	98	2043
Ticket issuing, printing, and recording machine	W. I. Ohmer and J. Leitschuh	695,116	Mar. 11	1493	332	98	2044
Ticket issuing, recording, and printing machine	W. I. Ohmer and J. N. Kelly	714,228	Nov. 25	3451	759	101	1661
Ticket. Pin	J. P. Kuhns	696,573	Apr. 1	324	76	99	72
Ticket. Pin	J. P. Kuhns	700,492	Sept. 23	2911	649	100	2626
Ticket. Railway	A. I. Blanchard	699,499	May 6			99	281
Ticket. Railway	J. Goodell	700,761	May 27	3238	742	99	1802
Ticket. Railway	T. C. Davison	702,636	June 17	2472	567	99	2654
Ticket. Transfer	M. Washburn	693,765	Feb. 18	2929	644	98	1448
Tickets, cards, &c. Holder for	A. A. Low	712,560	Nov. 4	196	46	101	938
Tickets or checks. Means for delivering and registering	A. Marsh	693,414	Feb. 18	2266	496	98	1312
Tickets to goods. Hand-machine for attaching	H. G. Davis	715,032	Dec. 2	748	159	101	1987
Tidal motor	R. W. Derbyshire	700,408	May 20	2544	582	99	1729
Tidal motor	E. B. Cade	708,461	Sept. 2	834	190	100	2150
Tide-motor	F. H. Lauten	696,982	Apr. 8	1153	256	99	265
Tide or other motor	J. T. Copthorn	712,180	Oct. 28	3449	757	101	760
Tie:							
See Animal-tie.	Rail-tie.						
Bale-tie.	Rail-joint tie.						
Cattle-tie.	Railway-tie.						
Cross-tie.	Steel tie.						
Metallic tie.	Walk-tie.						
Necktie.	Wire-tie.						
Package-tie.							
Tie	J. E. Glahn	716,704	Dec. 23	4009	877	101	2720
Tie-bar	B. Haffner	712,670	Nov. 4	387	90	101	978
Tie-faced surface and constructing same	W. P. Meeker	691,791	Jan. 28	2715	610	98	618
Tie-faces. Device for ornamenting	L. Warstler	692,744	Feb. 4	923	210	98	987
Tie-fastener	E. F. Fridat	712,408	Oct. 28	3383	844	101	824
Tie-plate	H. H. Hart	696,964	Apr. 8	1124	250	99	259
Tie-plate	B. Woihaupter	700,998	May 27	3671	843	99	1990
Tie-plate	C. S. Shallenberger	707,362	Aug. 19	2596	586	100	1684
Tie-plate	W. Goldie	712,129	Oct. 28	3366	738	101	745
Tie-plate machine	F. W. Wood	712,167	Oct. 28	3428	751	101	756
Tie-plate machine	G. L. Bender	703,755	July 1	701	156	100	140
Tie plug or dowel	W. M. Fridericia	703,780	July 1	742	165	100	149
Tie structure	T. J. Middlebrooks	713,335	Nov. 11	1460	331	101	1213
Tie	B. P. Leslie	698,031	Apr. 22	3058	672	99	698
Tie	C. Worth	704,727	July 15	2525	545	100	543
Tie	W. C. State	704,766	July 15	2900	563	100	558
Tie	F. E. Lawrence	707,125	Aug. 19	2446	441	100	1590
Tie	A. L. Flood	708,470	Sept. 2	846	193	100	2153
Tie	A. L. Flood	708,471	Sept. 2	847	193	100	2153
Tie	A. L. Flood	708,472	Sept. 2	848	193	100	2153
Tie	W. P. Meeker	715,831	Dec. 16	2261	503	101	2337
Tie. Baffing	H. L. Van Zile	712,158	Oct. 28	3412	747	101	754
Tie. Building	E. S. Lafferty	702,103	June 10	1485	335	99	2131
Tie floor	R. L. Moyle	695,621	Mar. 18	2477	547	98	2254
Tie floor construction	C. B. Buente	713,743	Nov. 18	2477	532	101	1440
Tie floor, Inlaid	E. M. Henderson	711,661	Oct. 21	2431	534	101	536
Tie for floors. Combination	R. L. Moyle	695,647	Mar. 18	2468	559	98	2264
Tie for roofs. Crest	S. D. Noel	701,376	June 3	169	36	99	2142
Tie. Glazing	H. C. Mueller and K. Langenbeck	693,420	Feb. 18	2280	499	98	1314
Tie. Illuminating	L. J. W. Birn	713,591	Nov. 18	2195	489	101	1378
Tie-laying machine	A. Schopf	713,692	Nov. 18	2386	532	101	1418
Tie-machine and pug-mill. Combined	W. R. Cundfingham	707,831	Aug. 26	3581	809	100	1901
Tie. Ornamental	R. Wagner	714,838	Dec. 2	382	82	101	1912
Tie-press	X. P. Gildardini	706,926	Aug. 12	1785	399	100	1499
Tie-press	W. P. Meeker	708,241	Sept. 2	453	103	100	2074
Tie. Roofing	J. W. Carnes	691,239	Jan. 14	1619	370	98	353
Tie. Roofing	N. Monshausen	691,650	Jan. 21	2419	544	98	538
Tie. Roofing	A. Gustorf	702,392	June 10	1660	372	99	2467
Tie setting or removing apparatus	H. Schmidt, Jr.	707,264	Aug. 19	2406	539	100	1644
Tiles. Laying	E. S. Hutchinson	703,928	July 1	1018	221	100	203
Tiles. Making decorative	E. E. Tabouret	708,680	Sept. 9	1220	280	100	2240
Tiles. Setting	J. H. Munro	706,474	Aug. 5	950	207	100	1308
Tiling	G. H. Bennett	708,194	Sept. 2	308	87	100	2056
Tiling	C. Worth	712,168	Oct. 28	3429	751	101	757
Tiling for floors, walls, ceilings, fireplaces, &c.	F. Alcan	715,932	Dec. 16	2481	547	101	3886

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Tiling for walls or ceilings. Metallic.	W. H. Landkrohn	716,061	Dec. 16	2730	602	101	2438
Till	C. S. Clark and J. T. Jones	709,870	Sept. 30	3616	817	100	2785
Tilling apparatus	S. Pasco	699,230	May 6	178	42	99	1211
Tilting chair	J. Ellenbecker	696,667	Apr. 1	509	117	99	1110
Tilting gate	B. A. Fisher	701,868	June 10	1041	234	99	2341
Timber with metal. Machine for covering strips of.	W. P. Appleyard	700,468	May 20	2659	608	99	1753
Time-alarm. Electric	C. Hubert	700,496	May 20	2718	622	99	1766
Time-ball apparatus	A. L. Woodworth	715,230	Dec. 2	1108	237	101	2064
Time-checker. Workman's	J. Corbett	710,430	Oct. 7	58	13, 14	101	14
Time-detector. Watchman's	J. Schlenker	698,862	Apr. 29	4720	1040	99	1070
Time-indicator	E. Fitch	715,776	Dec. 16	2147	481	101	2313
Time-lock	J. Gonorovsky	713,092	Nov. 11	1192	272	101	1159
Time-recorder	S. Bower	690,394	Jan. 7	17	4	98	7
Time-recorder.	W. P. Gurr	694,012	Feb. 25	3438	758	98	1568
Time-recorder	C. J. C. and C. A. Krumm	696,572	Apr. 1	321	75, 76	99	72
Time-recorder	J. W. Deübner	698,823	Apr. 29	4627	1020	99	1049
Time-recorder.	T. D. Greene	707,583	Aug. 26	3030	682	100	1790
Time-recorder and signal. Watchman's	J. B. Yeakle	696,619	Apr. 1	410	95	99	90
Time-recorder for workmen or servants or like apparatus.	F. Brook	704,854	July 15	2770	599	100	593
Time-recorder. Workman's	H. Dyson	691,232	Jan. 14	1643	375	98	358
Time-recorder. Workman's	W. H. Bundy	695,193	Mar. 11	1632	362	98	2074
Time-recorder. Workman's	A. L. Jaynes	704,194	July 8	1556	385	100	326
Time-recorder. Workman's	G. M. Jaynes and J. W. Deübner	704,544	July 15	2219	480	100	480
Time-recorder. Workman's	J. J. Stockall, Jr	714,964	Dec. 2	640	134	101	1964
Time-sheet	O. Johnson	711,188	Nov. 25	3379	744	101	1647
Time-switch mechanism	G. Zaepfel	705,991	July 29	5129	1118	101	1008
Time-table holder	W. F. Barry	698,893	Apr. 29	4751	1051	99	1981
Timepiece-escapement	F. H. Voigt	710,823	Oct. 7	823	177	101	168
Timepiece. Geographical	C. E. Davis	701,853	June 10	1020	237	99	2337
Tin and lead oxids. Making	C. S. Lomax	695,939	Mar. 25	2987	675	98	2384
Tin by electrolysis. Obtaining	E. Quintaine	699,012	Apr. 29	4975	1000	99	1122
Tin-folding machine	P. A. Kunold	711,404	Oct. 14	1929	420	101	417
Tin from metals. Separating	T. Twynnam	703,165	June 24	3459	99	99	2377
Tin-plate-cleaning machine.	J. C. Taliaferro and C. M. Reynard	709,184	Sept. 16	2266	516	100	2476
Tin-plate lift mechanism	J. F. Fawcett	697,400	Apr. 8	1898	424	99	423
Tin. Recovering metallic	D. H. Browne and J. M. Neil	704,675	July 15	2431	525	100	524
Tin. Regaining	P. Bergsøe	691,101	Jan. 14	1370	98	98	300
Tipping-machine	F. G. Dickerson	701,260	May 27	4149	954	99	2080
Tipping-table	P. Droschout and J. M. Clark	696,164	Mar. 25	3453	774	98	2481
Tire	M. E. Brooke	691,589	Jan. 21	2303	519	98	514
Tire	A. von Beust and F. M. Potter	694,821	Mar. 4	981	207	98	1909
Tire	L. D. Saxton	698,860	Apr. 29	4718	1039	99	1069
Tire	W. M. Lottridge	711,729	Oct. 21	2566	564	101	565
Tire-adjusting device	W. Gussenhoven	692,276	Feb. 4	111	26	98	821
Tire air-tube. Pneumatic	A. T. Collier	702,869	June 28	2969	647	100	2623
Tire and fastener for vehicle-wheels	J. C. Haines	709,483	Sept. 23	3896	647	100	2623
Tire and fastening. Vehicle-wheel	A. L. Stevens	711,081	Oct. 14	1314	284	101	286
Tire and manufacturing same.	J. W. Blodgett	706,954	Sept. 9	1772	409	100	2356
Tire and manufacturing same. Elastic	F. E. Hall	708,225	Sept. 2	426	97	100	2068
Tire and manufacturing same. Pneumatic	J. W. Blodgett	708,952	Sept. 9	1767	408	100	2355
Tire and manufacturing same. Pneumatic	J. W. Blodgett	708,953	Sept. 9	1770	409	100	2356
Tire and rim. Vehicle	F. G. Saylor	714,383	Nov. 25	3650	804	101	1701
Tire armor. Vehicle	C. H. Paschke	707,939	Aug. 26	3779	848	100	1941
Tire. Bicycle	R. L. Lewis	696,875	Apr. 1	903	208	99	191
Tire. Bicycle	H. D. Lefferts	709,021	Sept. 16	1932	444	100	2406
Tire-clamping device	W. Gussenhoven	692,275	Feb. 4	109	26	98	1690
Tire-clamping device. Vehicle-wheel	J. D. Prescott	694,326	Feb. 25	4079	908	98	1690
Tire cleaner. Bicycle	J. B. Caloon	712,341	Dec. 30	5329	1159	101	3028
Tire construction	W. F. Williams	696,391	Mar. 25	3387	872	98	2578
Tire-curing mold	C. H. Wheeler and F. W. Kremer	696,124	Mar. 25	3357	757	98	2462
Tire. Cushion	C. Hird	695,394	Mar. 11	1992	446	98	2148
Tire. Cushion	W. H. St. John	697,691	Apr. 15	2447	543	99	547
Tire. Cushion	C. Miller	710,505	Oct. 7	384	80, 81	101	76
Tire. Detachable pneumatic	F. A. Seiberling	715,450	Dec. 2	1451	390	101	2138
Tire. Elastic	J. Baier and E. Clark	691,574	Jan. 21	3271	510	98	508
Tire. Elastic	W. F. Williams	694,223	Feb. 25	3829	848	98	1645
Tire. Elastic	W. F. Williams	702,721	June 10	1773	405	99	2490
Tire ends together. Apparatus for bringing rubber.	F. W. Kinney and R. B. Price	692,527	Feb. 4	552	129	98	91
Tire equipment for vehicle-wheels. Rubber	F. G. Webb	691,028	Jan. 14	1254	284	98	276
Tire-fastener	R. M. Connable	712,179	Oct. 28	3448	756	101	2406
Tire-fastening	R. M. Connable	715,987	Dec. 16	2582	570	101	2406
Tire filler compound	A. de Clairmont	698,454	Apr. 29	3864	99	98	882
Tire for vehicle-wheels. Resilient	W. E. Carmont	708,864	Sept. 9	1608	367	100	2324
Tire for vehicle-wheels. Rubber	J. M. Sweet	696,771	Apr. 1	719	163	99	154
Tire for vehicle-wheels. Spring	H. C. Shearman	707,169	Aug. 19	2230	501	100	1606
Tire for vehicle-wheels. Spring	J. W. Mooring	713,664	Nov. 18	2230	520	101	1670
Tire for vehicles. Elastic	H. H. Durr	715,361	Dec. 9	1357	243	101	2136
Tire for wheels. Resilient	J. P. Legrand	716,907	Dec. 30	4501	977	101	2850



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Tire-heater.....	H. J. Hengeveld and A. E. Adams	701,200	May 27	4044	929	99	2061
Tire-heater.....	S. Smitzen	701,170	June 3	3774	171	99	2837
Tire-heater.....	J. Gogel	705,340	July 22	3884	840	100	835
Tire-heating device.....	C. Solberg	692,376	Feb. 4	278	67	98	856
Tire-holding device.....	C. M. Starner	717,463	Dec. 30	5550	1206	101	3071
Tire-inflator.....	J. H. Champ	691,745	Jan. 28	2621	587	98	598
Tire-inflator.....	J. H. Champ	691,747	Jan. 28	2628	589	98	600
Tire-inflator.....	H. K. Austin	697,597	Apr. 15	2259	503	99	513
Tire-inflator. Coin-controlled.....	B. S. Molyneux	700,796	May 27	3301	757	99	1907
Tire-inflating device. Pneumatic.....	F. W. Claessens and J. G. Magin	706,021	Aug. 5	32	7	100	1123
Tire-inflating device. Vehicle.....	M. M. Sinnott	693,747	Feb. 18	2903	638	98	1442
Tire inserter and remover.....	F. Boelk	717,323	Dec. 30	5301	171	100	911
Tire. Link-belt.....	T. M. Bryson	699,098	Apr. 29	5109	1130	99	1150
Tire. Metallic.....	W. Thompson	716,960	Dec. 30	4609	999	101	2872
Tire. Motor-vehicle.....	M. Polack	716,099	Dec. 16	2813	619	101	2456
Tire. Pneumatic.....	A. Ducasble	690,935	Jan. 14	1070	241	98	240
Tire. Pneumatic.....	F. J. Seddon	692,368	Feb. 4	267	65	98	854
Tire. Pneumatic.....	W. F. Stearns and W. L. Haines	693,818	Feb. 18	3028	669	98	1468
Tire. Pneumatic.....	C. E. Thomas	697,564	Apr. 15	3200	489	99	490
Tire. Pneumatic.....	E. Groene	700,848	May 27	3388	99	99	1023
Tire. Pneumatic.....	M. Weiss	707,661	Aug. 26	3200	718	100	1827
Tire. Pneumatic.....	T. B. Jeffery	708,482	Sept. 2	867	197	100	2157
Tire. Pneumatic.....	I. Tennant	709,280	Sept. 16	2149	554	100	2516
Tire. Pneumatic.....	F. Mitchell	710,793	Oct. 7	765	163	101	157
Tire. Pneumatic.....	R. Fleischer and M. Reithmaier	710,962	Oct. 14	1063	285	101	232
Tire. Pneumatic.....	H. H. Shepard	713,351	Nov. 11	1731	307	101	1209
Tire. Pneumatic.....	G. H. Clark	713,855	Nov. 18	2688	599	101	1482
Tire. Pneumatic.....	W. Edmund	714,164	Nov. 25	3327	733	101	1697
Tire. Pneumatic.....	E. H. Seddon	715,305	Dec. 9	1257	267	101	2113
Tire. Pneumatic.....	H. N. B. Good	716,031	Dec. 16	2969	589	101	2425
Tire. Pneumatic.....	H. R. Palmer	717,264	Dec. 30	5301	1120	101	3000
Tire. Pneumatic vehicle.....	E. Groene	697,621	Apr. 15	3314	517	99	522
Tire. Pneumatic vehicle-wheel.....	P. de Caters	710,562	Oct. 7	322	70	101	65
Tire protector. Pneumatic.....	C. G. Dinsmore	690,706	Jan. 7	656	144	98	138
Tire protector. Rubber.....	H. R. Palmer	717,263	Dec. 30	5300	1129	101	3000
Tire-repairing compound and preparing same.....	M. McWhorter	716,983	Dec. 16	2777	—	101	2449
Tire-repairing tool. Pneumatic.....	W. M. Kimberlin	713,006	Nov. 4	1011	237	101	1108
Tire. Resilient.....	J. P. Le Grand and N. Cheneau	716,066	Dec. 16	2753	607	101	2443
Tire rim and felly. Rubber vehicle.....	J. Baker	707,538	Aug. 26	2931	664	100	1771
Tire. Rubber.....	A. S. Krotz	692,056	Jan. 28	3198	721	98	713
Tire. Rubber.....	A. S. Krotz	692,311	Feb. 4	164	38	98	832
Tire. Rubber.....	C. A. Maynard	692,325	Feb. 4	192	44	98	880
Tire. Rubber.....	C. H. Bryan	692,980	Feb. 11	1414	307	98	1116
Tire. Rubber.....	W. R. Harris	703,408	July 1	80	16	100	19
Tire. Rubber.....	A. W. Grant	705,072	July 23	3264	707	100	711
Tire. Rubber.....	C. W. Harris	710,972	Oct. 14	1075	237	101	235
Tire. Rubber vehicle.....	R. B. Price	690,604	Jan. 7	455	98	98	98
Tire. Rubber vehicle.....	F. H. Hyde	697,626	Apr. 15	2322	519	99	524
Tire-setter.....	F. W. Mitchell	706,583	Aug. 12	1132	250	100	1360
Tire-setter.....	I. M. Green	713,002	Nov. 4	1004	235	101	1101
Tire-setter.....	J. E. Denham	717,084	Dec. 30	4843	1049	101	2922
Tire-setter. Rubber.....	H. R. Auld	704,953	July 15	3025	169	100	648
Tire-setting machine.....	J. M. Decker	692,635	Feb. 4	734	170	98	950
Tire-setting machine.....	H. T. Henderson	695,208	Mar. 11	1672	372	98	2082
Tire-setting machine. Rubber.....	J. K. Williams	697,056	Apr. 8	1280	284	99	291
Tire-setting machine. Rubber.....	J. A. Burrows	698,446	Apr. 29	3845	848	99	578
Tire-setting machine. Rubber.....	J. K. Williams	700,671	May 27	3443	791	99	1934
Tire-setting machine. Rubber.....	J. C. Blake	710,326	May 27	3367	100	100	2898
Tire-setting machines. Device for bringing together the ends of solid-rubber tires in.....	J. A. Burrows	693,831	Feb. 25	3062	676	98	1494
Tire-setting machines. Joint-closer for rubber.....	J. A. Burrows	700,895	May 27	3483	799	99	1942
Tire-setting machines. Joint-closer for rubber.....	W. C. State	716,590	Dec. 23	3808	827	101	2679
Tire-shrinking machine. Cold.....	S. N. House	690,523	Jan. 7	306	61	98	67
Tire. Solid-rubber.....	C. H. Wheeler and F. W. Kremer	705,178	July 22	3487	758	100	725
Tire. Solid-rubber vehicle.....	F. A. Seifering	700,385	May 27	3365	99	99	1322
Tire-tightener.....	J. E. Souer	698,868	Apr. 29	4727	1042	99	1071
Tire-tightener.....	F. Heinz	700,490	May 20	2708	619	99	1704
Tire-tightener.....	H. P. Dickinson	708,535	Sept. 9	966	219	100	2189
Tire-tightener.....	H. P. Hill	711,894	Oct. 21	2886	638	101	633
Tire-tightener.....	G. W. Cook	715,757	Dec. 16	2107	472	101	2305
Tire-tubes. Tip for the ends of pneumatic.....	J. G. Mooney	709,994	Sept. 30	3385	876	100	2840
Tire-valve cap.....	C. H. Schrader	691,266	Jan. 14	1732	365	98	377
Tire valve. Pneumatic.....	C. R. Barrett and E. C. Phillips	693,991	Feb. 25	3103	748	98	1561
Tire valve. Pneumatic.....	W. D. Hart	694,638	Mar. 4	578	127	98	1835
Tire valve. Pneumatic.....	H. W. Hodgetts	706,944	Aug. 12	1813	406	100	1504
Tire. Vehicle.....	W. M. Peck	690,872	Jan. 7	948	212	98	199
Tire. Vehicle.....	J. B. Tourgon	693,093	Feb. 11	1305	348	98	1154
Tire. Vehicle.....	J. E. Lober	693,661	Feb. 18	2742	635	98	1409
Tire. Vehicle.....	W. H. Ostrander	696,585	Apr. 1	342	81	99	75
Tire. Vehicle.....	F. Tillmany	696,700	Apr. 1	544	131	99	127
Tire. Vehicle.....	C. A. Pettie	696,746	Apr. 1	667	151	99	142
Tire. Vehicle.....	C. Stein	697,033	Apr. 8	1249	278	99	284
Tire. Vehicle.....	W. McCausland	698,726	Apr. 29	4328	977	99	1003
Tire. Vehicle.....	G. A. Weidly	701,434	June 3	272	61	99	2164
Tire. Vehicle.....	W. S. Huffman	702,432	June 17	2081	475	99	2572

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Tire. Vehicle.	F. K. Christensen	702,539	June 17	2280	519	99	2615
Tire. Vehicle.	J. Christy, Jr.	705,038	July 22	3195	630	101	697
Tire. Vehicle.	C. H. Wheeler and F. W. Kremer	705,175	July 22	3482	737	101	734
Tire. Vehicle.	F. E. Osgood and F. F. Bradley	706,590	Aug. 12	1149	254	100	1364
Tire. Vehicle.	W. I. Gregory	707,582	Aug. 26	3029	682	100	1790
Tire. Vehicle.	F. P. Brining	709,959	Sept. 30	3819	859	100	2826
Tire. Vehicle resilient	F. Clouth	692,628	Feb. 4	724	167	98	947
Tire. Vehicle steel-spring.	J. A. Shearer	712,733	Nov. 4	488	116	101	999
Tire. Vehicle-wheel	J. Ludwig	690,908	Jan. 7	1020	230	98	2113
Tire. Vehicle-wheel	C. J. Shilling	701,553	June 3	505	111	99	2213
Tire. Vehicle-wheel	E. Belledin-Gras and F. S. de Mondran.	707,378	Aug. 19	2626	592	100	1690
Tire. Vehicle-wheel	M. C. Carter	708,997	Sept. 16	1875	431	100	2395
Tire. Wheel.	H. Lieberthal	705,768	July 29	4738	1025	100	1018
Tire. Wheel.	E. Barton	710,274	Sept. 30	4414	935	100	2953
Tires. Automatic pump for pneumatic	C. S. Langton	712,032	Oct. 28	3174	693	101	708
Tires before fitting them into their rims. Means for longitudinally compressing wired-on cushion-	G. Robson	715,094	Dec. 2	864	185	101	2014
Tires. Composition for repairing bicycle	G. Robson	704,214	July 8	1590	344	100	833
Tires. Device for automatically inflating pneumatic	O. J. Campbell and J. B. Beam	690,903	Jan. 7	1010		98	212
Tires. Device for constructing and curing continuous rubber	G. O. Morris	690,601	Jan. 7	451	97	98	97
Tires. Device for inflating vehicle	M. A. Boylan	713,844	Nov. 18	2664	594	101	1478
Tires for bicycle-wheels, &c. Mold for the manufacture of cellular cushion-	I. B. Catlin	717,165	Dec. 30	5000	1086	101	2956
Tires. Inner tube for pneumatic	C. Hird	698,115	Apr. 22	3247	711	99	737
Tires. Inner tube for pneumatic	F. A. Wilcox	697,055	Apr. 8	1279	284	99	291
Tires. Machine for equipping vehicle-wheels with rubber	F. A. Wilcox and J. R. Gammeter	697,227	Apr. 8	1580	353	99	355
Tires. Machine for smoothing rubber vehicle-	A. S. Krotz	711,980	Oct. 28	3680	676	101	689
Tires. Making rubber	S. S. Miller and L. E. Clough	708,967	Sept. 9	1803	414	100	2362
Tires. Means for tightening wires in elastic	A. T. Holt	701,342	June 3	118	24	99	2133
Tires of rubber, &c. Apparatus for equipping vehicle-wheels with	J. E. Sprague	714,528	Nov. 25	4004	886	101	1772
Tires. Pneumatic inner tube for	W. S. Brooks	697,441	Apr. 15	1987	440	99	458
Tires to vehicle-wheels. Apparatus for applying rubber	C. E. A. Esse	716,693	Dec. 23	3990	873	101	2716
Tires to wheels. Apparatus for securing rubber	J. Neary	697,000	Apr. 8	1180	265	99	270
Tires to wheels. Means for securing elastic	G. Meyer	693,879	Feb. 25	3160	699	98	1512
Tires upon wheel-rims. Machine for securing rubber	W. F. Williams	695,776	Mar. 18	2681	609	98	2307
Toaster	J. R. Place and N. A. Keyes	711,438	Oct. 14	1990	431	101	429
Toaster. Bread.	B. K. Schmetz	691,410	Jan. 21	1991	446	98	449
Toasting bread, &c. Gas-range utensil for	R. H. Silver and P. Friedlander	712,340	Oct. 28	3723	814	101	818
Tobacco-baler	W. C. Vroom	694,042	Feb. 25	3509	772	98	1581
Tobacco-box and cutter. Combined	I. M. Scherer	702,489	June 17	2198	500	99	2598
Tobacco-case	H. W. Helgeson	715,065	Dec. 2	798	169	101	1997
Tobacco-curing apparatus.	F. Laporte and L. Baptiste	704,052	July 8	1258	272	100	284
Tobacco-cutter	W. H. Wagner and G. H. Santers	693,469	Feb. 18	2376	520	98	1334
Tobacco-cutting machine	G. F. Hillman	696,677	Apr. 1	531	122	99	115
Tobacco-cutting machine	W. W. Watson	701,974	June 10	1235	282	99	2382
Tobacco-cutting machine	F. L. Lorden	695,571	Mar. 18	2332	527	98	2237
Tobacco. Device for forming continuous rolls of	M. Himoff	707,778	Aug. 26	3465	781	100	1879
Tobacco drying and cooling system	E. Merkitz	711,639	Oct. 21	2385	524	101	526
Tobacco drying, cooling, and ordering machine	W. E. Martin	691,723	Jan. 21	2551	572	98	566
Tobacco-drying machine. Leaf.	J. D. Goodwin	693,387	Feb. 18	2215	486	98	1301
Tobacco-drying system	D. C. Mayo	697,512	Apr. 15	2108	468	99	482
Tobacco extract and nicotine. Obtaining	W. E. Martin	691,722	Jan. 21	2546	570	98	565
Tobacco-filler-drying machine	C. F. Glovstein	711,924	Oct. 21	2959	651	101	647
Tobacco-fork.	A. J. Feild	702,294	June 10	1806	412	99	2497
Tobacco from laths. Device for stripping	H. Reber	716,646	Dec. 23	3911	854	101	2701
Tobacco-hanger	W. L. Moore	705,775	July 29	4751	1029	100	1020
Tobacco-hanger	F. E. Gullickson	701,334	June 3	102	21	99	2130
Tobacco-hoist	W. M. Ketchin	704,196	July 8	1564	337	100	328
Tobacco-leaf-cutting knife	C. R. Hosford	713,101	Nov. 11	1210	277	101	1162
Tobacco-leaf-sorting machine	W. P. Henry	706,052	Aug. 5	98	21	100	1137
Tobacco-leaf-stringing machine	C. Millhiser	714,729	Dec. 2	151	30	101	1808
Tobacco, &c. Machine for packeting	E. A. Rollman	705,800	July 22	3762	816	100	811
Tobacco. Manufactured	S. D. Wheeler	710,027	Sept. 30	3942	889	100	2852
Tobacco-ordering chamber	E. Belot	715,340	Dec. 9	1323	284	101	2126
Tobacco-pipe.	J. A. Fretwell	702,130	June 10	1530	345	99	2441
Tobacco-pipe.	W. M. Taliaferro	709,938	Sept. 30	3769	852	100	2815
Tobacco-pipe.	T. Duggan	693,790	Feb. 18	2970	656	98	1456
Tobacco-pipe.	P. M. Olson	693,888	Feb. 25	3188	702	98	1517
Tobacco-pipe.	T. E. White	695,185	Mar. 11	1621	360	98	2072
Tobacco-pipe.	A. K. Bowman	699,480	May 6	672	156	99	1915
Tobacco-pipe.	H. L. Austwick	705,193	July 22	3519	738	100	763
Tobacco-pipe.	H. M. Willis	705,988	July 29	5126	1117	100	1098
Tobacco-pipe.	M. B. Hern	708,142	Sept. 2	269	64	100	2037
Tobacco-pipe.	N. Allison	708,852	Sept. 9	1584	361	100	2318
Tobacco-pipe.	A. Berninger	710,740	Oct. 7	654	136	101	133
Tobacco-pipe.	E. W. Zimmerman	712,750	Nov. 4	522	122	101	1005
Tobacco-pipe.	E. T. Towgood	712,867	Nov. 4	755	175	101	1083
Tobacco-pipe.	J. W. Rickert	713,242	Nov. 11	1479	324	101	1215
Tobacco-pipe.	W. Herick	713,304	Nov. 11	1651	371	101	1250
Tobacco-pipe cleaner	J. F. Forth	690,717	Jan. 7	694	152	98	147
Tobacco-pipe cleaner	A. S. Speirs	692,800	Feb. 4	1041	294	98	1009
Tobacco-pouch.	G. Frank	706,645	Aug. 12	1252	277	100	1387



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Tobacco-press	J. M. Vaughan	692,494	Feb. 4	479	112	98	896
Tobacco-sizing device	L. P. Bissell and J. Sullivan	703,226	June 24	3605	825	99	2901
Tobacco-smoking device	A. Leblanc	696,346	Mar. 25	3818	851	98	2556
Tobacco-spinning machine. Chewing-	W. Schertiger	708,172	Sept. 2	325	77, 78	100	2047
Tobacco-steamer.	C. M. Armstrong	702,123	June 10	1518	342	99	2439
Tobacco-stem-treating machine	D. C. Mayo	697,511	Apr. 15	2105	467	99	481
Tobacco-stemmer	J. O. Morris	711,394	Oct. 14	1809	392	101	391
Tobacco-stemmer	J. O. Morris	717,494	Dec. 30	5503	1194	101	3062
Tobacco-stemming and booking machine	P. J. Hart	711,963	Oct. 28	8051	670	101	684
Tobacco-stemming machine.	C. R. Spencer and L. P. Whitaker	691,196	Jan. 14	1540	348	98	336
Tobacco-stemming machine	A. J. Bush	694,130	Feb. 25	3646	806	98	1610
Tobacco-stemming machine	A. J. Bush	713,057	Nov. 11	1116	257	101	1142
Tobacco-stemming rolls	J. G. Havens	694,962	Mar. 11	1207	264	98	1984
Tobacco-stemming rolls	J. G. Havens	696,966	Apr. 8	1126	250	99	259
Tobacco-stemming rolls	J. G. Havens	696,967	Apr. 8	1128	251	99	259
Tobacco-stringing machine	C. G. Wells	702,267	June 10	1763	402	99	1488
Tobacco-stringing machine	C. F. Wells	708,434	Sept. 2	775	174	100	2138
Tobacco-stripping, booking, and selecting machine	F. G. Baechlin	717,317	Dec. 30	5288	1150	101	3019
Tobacco-stripping machine	J. A. Hutcheson	718,886	Nov. 18	2755	612	101	1498
Tobacco-stripping machine	F. G. Frankenberg	715,651	Dec. 9	1882	418	101	2237
Tobacco-stripping machine	F. G. Frankenberg	715,652	Dec. 9	1885	421	101	2238
Tobacco-stripping or stemming machine	M. Deiller	716,027	Dec. 23	3874	846	101	2692
Tobacco-tags. Machine for forming and applying	H. D. Seekamp and A. H. Hampe	711,882	Oct. 21	2859	632	101	627
Tobacco-truck	C. F. Moore	695,412	Mar. 11	2017	455	98	2153
Tobacco-truck	W. G. Little	709,785	Sept. 23	3454	737	100	2737
Tobacco-tying machine	J. W. Clark and A. L. Fisher	713,399	Nov. 11	1819	409	101	1287
Tobacco, yarn, &c. Machine for treating	W. M. Schwartz	716,766	Dec. 23	4111	903	101	2743
Toboggan-slide.	E. C. Merrill	702,982	June 24	3142	722	99	2810
Toe Box	H. H. Beckwith	710,239	Sept. 30	4357	979	100	2941
Toe-calk machine	J. Wood	713,268	Nov. 11	1548	350	101	1329
Toe-clip	F. J. and W. H. McMonies	712,953	Nov. 4	931	216	101	1087
Toe-weight	C. Staley	694,586	Mar. 4	476	103	98	1814
Toilet article	H. E. Harlan	713,761	Nov. 18	2516	569	101	1448
Toilet-article handle	R. R. Debacher	714,460	Nov. 25	3881	856	101	1747
Toilet-case	A. Semonite	694,497	Mar. 4	290	67	98	1774
Toilet cream	J. C. Fleming	690,848	Jan. 7	914	193	98	193
Toilet fixture	L. M. Hooper	711,970	Oct. 28	3062	672	101	686
Toilet outfit.	T. O. Holland	692,853	Feb. 11	1128	252	98	1055
Toilet-rooms. Device for cleaning and disinfecting the seats in	J. and E. von Stryk	694,119	Feb. 25	3632	802	98	1608
Tone-regulating tool	F. Hoover	700,200	May 20	2118	481	99	1644
Tongs	W. Hopkie	690,860	Jan. 7	935	209	98	197
Tongs	M. Quinn	694,495	Mar. 4	288	66	98	1773
Tongs for handling ingots, &c	J. M. Lafferty	706,324	Aug. 5	646	141	100	1246
Tongs. Grappling-	C. C. Carter	710,424	Oct. 7	46	11	101	12
Tongs. Pipe-	C. F. Bauer	708,494	Mar. 13	1720	392	99	1538
Tongs. Pipe-	W. Maxwell	714,387	Nov. 25	3746	827	101	1721
Tongs. Shelf-	E. W. Toler	703,163	June 24	3486	802	99	2876
Tongue attachment	R. C. Thompson	714,261	Nov. 25	3518	774	101	1675
Tongue-finishing machine	G. W. Packer	702,671	June 17	2581	580	99	2667
Tongue for vehicles. Metal	W. H. Schofield	697,951	Apr. 15	2905	641	99	647
Tongue-scraper	I. Hagerty	697,336	Apr. 8	1766	396	99	396
Tongue-support	S. Ebersole	702,291	June 10	1800	411	99	2496
Tongue support. Wagon-	P. A. and J. H. Kessler	696,978	Apr. 8	1146	255	99	263
Tongue-switch	G. M. Ervin	705,056	July 22	3232	699	100	704
Tongue-switch	C. H. Krauss	717,100	Dec. 30	4868	1054	101	2927
Tonguing and grooving machine	H. A. Holt	698,705	Apr. 29	4395	969	99	996
Tonnage-resistance indicator	J. M. Daly	715,200	Dec. 2	1054	227	101	2052
Tonnage-resistance indicator. Graphic	J. M. Daly	715,197	Dec. 2	1045	225	101	2050
Tool	E. O. Jolley	693,868	Feb. 25	3136	694	98	1508
Tool	J. W. East	704,819	July 15	2716	588	100	581
Tool	J. H. Koch	706,184	Aug. 5	375	76	100	1188
Tool-box	D. E. Frederiksen	690,414	Jan. 7	46	12	98	12
Tool-box	J. Swan	695,660	Mar. 18	2485	564	98	2267
Tool. Combination-	J. Weathers	698,601	Apr. 29	4147	913	99	940
Tool. Combination-	S. A. Moe	699,207	May 6	140	35	99	1204
Tool. Combination-	F. A. Robbins	707,723	Aug. 26	3310	741	100	1849
Tool. Combination-	J. L. Wood and W. G. Lawrence	708,447	Sept. 2	799	182	100	2143
Tool. Combination-	J. O. Hess	713,096	Nov. 11	1201	274	101	1169
Tool. Combination-	C. L. Peirce, Jr.	716,274	Dec. 16	3149	685	101	2525
Tool. Compound	C. Sandler	696,758	Apr. 1	688	156	99	147
Tool. Compound	J. F. Koelmel	703,598	July 1	391	91	100	78
Tool. Compound	W. Offutt	706,196	Aug. 5	377	81	100	1194
Tool. Compound	J. Y. Shallenberger	718,808	Nov. 14	2598	579	101	1464
Tool construction. Machine-	W. H. Baush	709,253	Sept. 16	2398	542	100	2505
Tool. Convertible	C. S. Amsden	699,941	May 13	1589	363	99	1516
Tool. Convertible machine-	T. F. Timby	701,424	June 3	251	57	99	2160
Tool-dismounting instrument	M. Steudner	711,912	Oct. 21	2935	645	101	642
Tool. Fluid-pressure-operated	J. V. W. Reynders and W. T. Sears	706,688	Aug. 12	1330	294	100	1404
Tool. Fluid-pressure-operated	H. H. Vaughan	707,735	Aug. 26	3337	747	100	1855

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Tool. Fluid-pressure-operated.	C. H. Johnson	711,425	Oct. 14	1963	427	101	423
Tool-handle.	J. Mueller	691,562	Jan. 21	3245	506	98	502
Tool-handle.	W. A. Holliday	699,323	May 6	365	86	99	1248
Tool-handle.	F. Ewing	702,190	June 10	1642	367	99	2161
Tool-handle. Adjustable garden.	W. V. Magee	705,689	July 29	4589	906	100	988
Tool-handle. Motor.	G. H. Hillyer	714,581	Nov. 25	4097	906	101	1790
Tool-heater.	F. Richardson	692,476	Feb. 4	448	104	98	880
Tool-holder.	A. H. and J. A. Bedworth	693,346	Feb. 11	2130	468	98	1264
Tool-holder.	C. H. Jenkins	693,399	Feb. 18	2244	491	98	1307
Tool-holder.	C. F. Preston	699,708	May 13	1114	261	99	1417
Tool-holder.	S. Welter and J. Armstrong	707,472	Aug. 19	2791	632	100	1725
Tool-holder.	C. T. Shafer	708,176	Sept. 2	331	79	100	2049
Tool-holder.	J. F. Bactmann	709,953	Sept. 30	3796	856	100	2821
Tool-holder.	A. H. and J. A. Bedworth	710,174	Sept. 30	4237	926	100	2913
Tool-holder.	J. Hunter	713,004	Nov. 4	1009	236	101	1102
Tool-holder.	J. M. Normand	714,942	Dec. 2	604	126	101	1956
Tool-holder for planers, &c. Duplex.	J. H. Wicksteed	708,947	Sept. 9	1757	405	100	2553
Tool-holding device.	L. S. Starrett.	692,215	Jan. 28	3483	787	98	778
Tool. Impact.	T. H. Phillips	700,061	May 13	1829	425	99	1564
Tool. Motive-fluid-operated.	H. H. Vaughan.	692,388	Feb. 4	296	73	98	860
Tool-motor.	C. B. Albee	695,664	Mar. 18	2490	565	98	2269
Tool. Motor-fluid-operated.	H. H. Vaughan.	691,420	Jan. 21	2004	449	98	452
Tool. Pneumatic.	W. H. Soley	692,799	Feb. 4	1089	234	98	1008
Tool-post.	J. R. Back	709,693	Sept. 23	3271	732	100	2700
Tool. Power-driven.	R. F. Sprague	698,418	Apr. 22	3779	834	99	849
Tool. Rotary.	F. D. Chambers	691,596	Jan. 21	2217	517	98	1517
Tool-shanks. Machine for making tubular.	F. B. Bates	706,513	Aug. 12	1016	224	100	1336
Tool-stock.	L. O. Cheney	707,901	Aug. 26	3714	833	100	1927
Tools. Apparatus for electrically operating	C. E. Moore and C. J. Reilly	700,437	May 20	2594	593	99	1740
Tooth and anchor. Artificial.	S. S. Bloom	717,158	Dec. 30	4984	1081	101	2952
Tooth. Artificial.	M. W. Hollingsworth	696,099	Mar. 25	3307	745	98	2452
Tooth. Artificial.	J. J. Reynolds	705,143	July 22	2426	744	100	743
Tooth. Artificial.	T. Steele	705,546	July 22	4320	935	100	922
Tooth. Artificial.	M. I. Rubin	715,422	Dec. 9	1466	310	101	2155
Tooth-crown.	C. P. Callaway	712,648	Nov. 4	352	81	101	971
Tooth-crown and adjustable facing. Box.	B. W. Haines	717,094	Dec. 30	4858	1053	101	2925
Tooth-crown and making same. Artificial.	E. Nagy	693,884	Feb. 25	3170	700	98	1514
Tooth-crown. Artificial.	J. C. Osborne	702,111	June 10	1469	337	99	2434
Tooth-crown burnisher.	J. D. Kinsley	713,453	Nov. 11	1901	430	101	1301
Tooth members. Means for attaching.	W. H. Dwight	710,444	Oct. 7	81	19	101	101
Tooth mold. Artificial.	T. Steele	705,972	July 29	5099	1111	100	1092
Tooth mount. Artificial.	H. D. Justi	705,532	July 22	4277	924	100	914
Tooth-powder or other material. Receptacle for.	J. C. Allen	706,710	Aug. 12	1362	304	100	1410
Tooth-powder receptacle.	T. O. Holland.	717,402	Dec. 30	5445	1182	101	3050
Toothpick.	D. McClain	710,498	Oct. 7	187	40	101	99
Toothpick.	J. E. Hills	714,901	Dec. 2	530	113	101	1942
Toothpick-driving machine.	C. F. Scamman	709,050	Sept. 16	1962	453	100	2419
Toothpick forming and drying machine.	C. F. Scamman	709,049	Sept. 16	1991	454	100	2418
Toothpick-holder.	C. A. Yarni	696,785	Apr. 1	742	169	99	159
Toothpick-package.	W. Reinhard	695,491	Mar. 18	2152	486	98	2199
Top. Flying.	A. W. Morgan	693,328	Feb. 11	2096	459	98	1256
Top-roll saddle.	J. Bilsborough	702,618	June 17	2437	556	99	2047
Top-roll saddle.	T. E. Norman	715,502	Dec. 9	1617	360	101	2144
Top. Spinning.	G. V. Sanborn	693,448	Feb. 18	2338	511	98	1326
Top. Spinning.	G. Ulett	693,928	Feb. 25	3257	717	98	1532
Top. Spinning.	J. J. Hennessy	695,930	Mar. 25	2970	672	98	2381
Top. Spinning.	H. C. Covert	696,719	Apr. 1	620	138	99	134
Top. Spinning.	E. Hazlehurst	708,766	Sept. 9	1393	319	100	2278
Top. Spinning.	E. B. Smith	713,514	Nov. 11	2052	459	101	1335
Top-spinning device.	F. W. Kranz	705,252	July 22	3065	792	100	732
Torch.	E. H. Wagner	706,134	Aug. 5	247	52	100	1168
Torch. Vapor-burning.	W. Mitchell	706,842	Aug. 12	1635	366	100	1469
Torpedo and means for propelling same.	A. Klinger	704,050	July 8	1255	271	100	264
Torpedo-boat.	T. J. Moriarty	691,160	Jan. 14	1470	333	98	921
Torpedo-boat.	F. W. Brady	713,198	Nov. 11	1390	313	101	1199
Torpedo-firing apparatus. Pneumatic	S. Lake	709,335	Sept. 16	2551	574	100	2538
Torpedo-launching apparatus.	J. Whitehead	697,906	Apr. 15	2817	623	99	631
Torpedo-launching apparatus.	S. J. J. Drzewiecki	708,031	Sept. 2	65	15	100	1995
Torpedo. Railway.	E. A. Schooley	691,326	Jan. 14	1804	409	98	391
Torpedo. Railway.	L. O. Sprout	698,069	Apr. 22	3131	690	99	714
Torpedo. Railway.	E. S. Lafferty	710,362	Sept. 30	4565	1030	100	2384
Torpedo-setting device.	P. Beattie	704,499	July 15	2124	459	100	459
Torpedo-shell protector.	J. M. Hatfield	710,323	Sept. 30	4500	1014	100	2971
Torpedo-steering apparatus.	J. Bórresen	716,517	Dec. 23	3649	796	101	2643
Torpedoes. Submerged broadside apparatus for discharging	G. Hoyos	713,985	Nov. 18	2951	737	101	1538
Tower.	F. H. Davis. (Reissue)	11,975	Mar. 11	2047	459	98	2159
Tower. Observation.	J. A. McAnulty	703,146	June 24	3450	790	99	2870
Towing mechanism. Canal.	S. W. Wood	707,529	Aug. 19	2901	656	100	1748
Toy.	C. Gordon	690,852	Jan. 7	919	205	98	194
Toy.	J. H. Bowes	691,105	Jan. 14	1799	314	98	302
Toy.	H. T. Gay	691,131	Jan. 14	1424	323	98	312
Toy.	E. Hill	691,266	Jan. 14	1667	380	98	363
Toy.	H. G. Sammons	691,325	Jan. 14	1803	409	98	391
Toy.	S. G. Leyson	695,689	Mar. 18	2531	573	98	2275



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				Spec.	Dr. m.	Vol.	Page.
Toy.....	C. W. Ritter.....	695,700	Mar. 18	2551	577	98	2279
Toy.....	O. H. James.....	696,051	Mar. 25	3200	723	98	2428
Toy.....	J. Flindall.....	697,958	Apr. 15	3292	645	99	651
Toy.....	O. C. Sanger.....	698,324	Apr. 22	3619	799	99	815
Toy.....	H. A. Vander Cook.....	698,340	Apr. 22	3639	805	99	819
Toy.....	N. P. Walters.....	700,861	May 27	3428	787	99	1931
Toy.....	W. P. Lyle.....	702,861	June 17	2889	698	99	2742
Toy.....	J. Jackson.....	703,422	July 1	102	22	100	23
Toy.....	H. Jensen.....	703,931	July 1	1022	221	100	23
Toy.....	F. D. Rettich.....	706,110	Aug. 5	199	41	100	1137
Toy.....	H. T. Kingsbury.....	706,421	Aug. 5	845	185	100	1284
Toy.....	F. A. Richter.....	706,689	Aug. 12	1333	295	100	1404
Toy.....	J. J. Fitzpatrick.....	706,918	Aug. 12	1770	395	100	1496
Toy.....	C. H. Fox and W. H. Randolph, Jr.	707,577	Aug. 26	3923	680	100	1798
Toy.....	J. B. Sloane.....	709,117	Sept. 16	2125	487	100	2448
Toy.....	J. M. K. Waldbjorn.....	709,728	Sept. 23	3325	748	100	2712
Toy.....	D. J. Wilson.....	710,090	Sept. 30	4066	917	100	2878
Toy.....	S. Sparrow and G. Fremd.....	711,014	Oct. 14	1164	257	101	256
Toy.....	A. Gibson.....	715,782	Dec. 16	2160	483	101	2316
Toy.....	M. E. Behn.....	716,175	Dec. 16	2952	648	101	2483
Toy.....	H. V. Lough.....	717,230	Dec. 30	5147	1116	101	2988
Toy.....	W. T. Souleé.....	717,295	Dec. 30	5253	1141	101	3011
Toy. Aerial.....	G. W. Melville.....	693,297	Feb. 11	2940	445	98	1243
Toy. Aerial.....	F. M. Osgood.....	704,090	July 8	1337	291	100	279
Toy air-gun.....	P. D. Horton.....	710,359	Sept. 30	4560	1028	100	2983
Toy and puzzle.....	L. E. De Marais.....	713,072	Nov. 11	1141	262	101	1147
Toy animal.....	G. Sheler.....	695,653	Mar. 18	2476	562	98	2266
Toy. Ball and bat.....	F. M. Lawrence.....	713,316	Nov. 11	1067	375	101	1234
Toy bank.....	J. G. Mayes, H. F. King, and F. S. Mayes.....	693,528	Feb. 18	2486	545	98	1357
Toy bank.....	W. R. Young.....	697,309	Apr. 8	1726	385	99	387
Toy bank.....	C. A. Braun.....	698,389	Apr. 22	3731	824	99	889
Toy bank.....	O. G. Crannell.....	704,239	July 8	1629	352	100	340
Toy bank.....	H. T. Kingsbury.....	706,422	Aug. 5	846	185	100	1284
Toy banks. Slot-guard for.....	J. W. Eshleman.....	706,913	Aug. 12	1764	394	100	1495
Toy battleship. Knockdown.....	C. T. Bonn.....	710,560	Oct. 7	317	69	101	64
Toy biograph.....	W. Maxwell.....	709,342	Sept. 16	2567	577	100	2542
Toy block.....	E. A. Cannon.....	699,834	May 13	1362	317	99	1468
Toy blocks.....	E. A. Cannon.....	709,467	Sept. 23	2842	638	100	2610
Toy boat.....	D. L. Ferguson.....	697,709	Apr. 15	2478	553	99	556
Toy boat.....	E. E. Mitchell.....	707,148	Aug. 19	2198	492	100	1600
Toy boomerang.....	S. Bristow.....	692,608	Feb. 4	691	161	98	940
Toy bow.....	H. J. Bayard.....	695,596	Mar. 18	2373	537	98	2245
Toy bowling-alley.....	M. Ulmer.....	693,191	Feb. 11	1851	401	98	1204
Toy bowling-alley.....	F. W. Gibson.....	706,925	Aug. 12	1784	399	100	1498
Toy bubble-blower.....	L. H. Rockwell.....	705,966	July 29	5088	1109	100	1090
Toy building-blocks, &c. Composition suitable for use in making.....	J. Stephan.....	708,422	Sept. 2	758	100	1214	
Toy cannon.....	A. G. Fifer.....	706,399	Aug. 5	802	175	100	1276
Toy cart.....	F. H. Harris.....	706,934	Aug. 12	1797	402	100	1501
Toy-cartridge exploder.....	R. L. Short.....	708,084	Sept. 2	155	37	100	2013
Toy. Coin-controlled.....	W. C. Haigh.....	696,478	Apr. 15	2053	453	99	471
Toy. Coin-controlled mechanical.....	G. D. Palmer and H. Hartley.....	703,080	June 24	3325	764	99	2845
Toy. Coin-operated mechanical.....	F. Partsch.....	690,661	Jan. 7	505	123	98	121
Toy. Dancing.....	W. B. Reppell.....	692,907	Feb. 11	1254	278	98	1083
Toy. Dancing.....	J. Travis.....	711,548	Oct. 21	2232	463	101	491
Toy. Detonating.....	W. L. Morgan.....	692,694	Feb. 4	847	192	98	973
Toy. Detonating.....	H. Greinert.....	694,633	Mar. 4	563	123	98	1832
Toy. Detonating.....	W. J. Somerville.....	710,531	Oct. 7	288	59	101	54
Toy engine.....	J. E. Cooper.....	696,915	Mar. 25	3770	840	99	2546
Toy. Explosible paper.....	M. T. Lynch and A. R. Hibson.....	702,065	June 10	1429	321	99	2420
Toy fence. Portable.....	C. J., Jr., J. E., and L. A. Youse.....	706,288	Aug. 5	575	124	100	1232
Toy. Figure.....	R. Tilton.....	693,339	Feb. 11	2115	463	98	1261
Toy. Figure.....	A. E. Hawley.....	697,248	Apr. 8	1608	362	99	360
Toy figure.....	F. K. T. Meinecke.....	715,106	Dec. 2	882	188	101	2017
Toy flying.....	L. B. Matteson and M. P. McArthur.....	693,327	Feb. 11	2095	459	98	1255
Toy flying.....	L. B. Matteson and M. P. McArthur.....	712,946	Nov. 4	920	213	101	1085
Toy fountain.....	F. P. Attwater.....	715,357	Dec. 9	1316	282	101	2125
Toy game.....	R. Astarita.....	705,632	July 29	4487	974	100	968
Toy gun.....	E. J. Howard.....	716,547	Dec. 23	3717	809	101	2658
Toy gun. Magazine.....	I. T. Smith.....	708,417	Sept. 2	750	169	100	2133
Toy gun. Magazine.....	I. T. Smith.....	710,720	Oct. 7	620	130	101	127
Toy horn.....	F. J. Gustine.....	705,398	July 23	3981	862	100	855
Toy jack-o'-lantern.....	J. J. Du Ket.....	699,669	May 13	1840	243	99	1409
Toy. Locomotive.....	D. P. Clark.....	693,374	Feb. 18	2193	481	98	1297
Toy. Locomotive.....	D. P. Clark.....	693,375	Feb. 18	2195	481	98	1297
Toy. Magnetic.....	L. J. Sullivan.....	710,627	Oct. 7	448	93	101	90
Toy. Mechanical.....	A. J. Keck.....	695,058	Mar. 11	1387	305	98	2022
Toy. Mechanical.....	G. E. Paton.....	690,344	May 6	406	94	99	1257
Toy. Mechanical.....	O. C. Wiesner.....	702,515	June 17	2241	510	99	2908
Toy. Mechanical.....	A. Honrath.....	708,358	Sept. 2	635	147	100	2114
Toy. Mechanical.....	G. S. Gallagher.....	716,631	Dec. 23	3884	848	101	2695
Toy. Mechanical.....	F. Hübsch.....	717,202	Dec. 30	5100	1105	101	2978
Toy milk-wagon.....	H. T. Kingsbury.....	704,846	July 8	1833	397	100	326
Toy. Musical.....	G. D. Smith.....	700,986	May 27	3644	837	99	1975
Toy. Musical.....	H. P. Brown.....	704,233	July 8	1619	350	100	333

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				Spec.	Dr'g.	Vol.	Page.
Toy. Musical pipe.....	H. E. F. Westenfeld.....	714,765	Dec. 2	227	45	101	1888
Toy. Optical.....	W. Jenkins.....	694,967	Mar. 11	1222	267	98	1988
Toy or advertising device.....	J. A. Mangold.....	705,855	July 29	4890	1063	100	1050
Toy or game apparatus.....	C. H. Buxton.....	699,490	May 6	687	159	99	1318
Toy paddle.....	W. L. Morgan.....	692,093	Feb. 4	846	192	98	973
Toy picture-book.....	S. Brentano.....	716,858	Dec. 30	4405	955	101	2831
Toy pistol.....	M. Lehr.....	692,460	Feb. 4	418	99	98	884
Toy pistol.....	C. F. Paulus.....	707,352	Aug. 19	2387	535	100	1641
Toy pistol.....	C. A. Bailey.....	715,632	Dec. 9	1851	411	101	2321
Toy railway.....	A. Schütze.....	709,685	Sept. 23	3254	729	100	2696
Toy railway-track joint.....	H. C. Ives.....	708,888	Sept. 9	1655	380	100	2332
Toy. Resonating or sounding.....	P. L. Gannell.....	716,025	Dec. 16	2559	586	101	2423
Toy savings-bank.....	B. T. Welf.....	690,544	Jan. 7	337	69	98	73
Toy. Sounding.....	L. Long.....	705,939	July 29	5039	1098	100	1079
Toy. Spirometer.....	H. G. Cady.....	714,141	Nov. 25	3254	718	101	1622
Toy stop-motion. Mechanical.....	A. D. Converse.....	701,155	May 27	3965	912	99	2045
Toy target and gun apparatus.....	W. A. Zelch.....	714,770	Dec. 2	236	46, 47	101	1885
Toy top.....	J. A. Irving.....	698,286	Apr. 22	3592	785	99	808
Toy. Top-spinning.....	G. F. Mann.....	706,676	Aug. 12	1312	290	100	1400
Toy-vehicle motor.....	H. T. Kingsbury.....	711,323	Oct. 14	1787	386	101	367
Toy. Walking.....	E. A. Jeffreys.....	709,987	Sept. 30	3875	873	100	2837
Toy. Wheeled.....	M. Flick.....	692,999	Feb. 11	1444	313	98	1122
Toy whistle.....	J. Zilkie.....	711,090	Oct. 14	1332	289	101	259
Toy wind-wheel.....	F. A. Worden.....	717,489	Dec. 30	5690	1216	101	2681
Trace.....	P. M. Gutleber.....	699,918	May 13	1542	392	99	1508
Trace-carrier.....	T. D. Thurmond.....	694,336	Feb. 25	4105	914	98	1665
Trace-carrier.....	C. Harrell.....	696,332	Mar. 25	3799	847	98	2552
Trace-carrier.....	W. E. Dippert.....	701,858	June 10	1026	229	99	2338
Trace catch and holder.....	C. H. Blanchard.....	695,785	Mar. 18	2701	614	98	2311
Trace-chain slip-link.....	W. J. Cass.....	705,035	July 22	3190	689	100	696
Trace-fastener.....	L. C. Balingier.....	691,575	Jan. 21	2273	511	98	596
Trace-fastener.....	G. R. Reynolds.....	696,259	Mar. 11	1312	410	98	2115
Trace-fastener.....	T. A. Bakken.....	702,527	June 17	2257	514	99	2811
Trace-fastener.....	C. W. and C. H. Threlkeld.....	703,321	June 24	3741	862	99	2929
Trace-fastener.....	S. E. Foreman.....	704,741	July 15	2557	551	100	549
Trace-fastener.....	W. H. Thompson.....	705,719	July 29	4653	1009	100	1001
Trace-fastener.....	C. Nagel.....	710,992	Oct. 14	1122	247	101	247
Trace-fastener.....	B. M. and W. E. Thornton.....	716,146	Dec. 16	2302	538	101	2474
Trace holder and cast-off.....	C. J. Reynolds.....	697,365	Apr. 8	1809	405	99	405
Trace-holder and detaching means. Combined.....	W. D. Bunn.....	699,099	Apr. 29	5111	1130	99	1150
Trace holder and protector. Combined.....	J. M. Whyte.....	691,924	Jan. 28	2944	663	98	664
Trace-hook.....	W. V. Jaques.....	695,056	Mar. 11	1384	304	98	2022
Trace-hook.....	C. H. and A. D. Grant.....	711,701	Oct. 21	2508	551	101	553
Trace-support.....	H. Brooks.....	691,590	Jan. 21	2305	519	98	514
Tracing and cutting implement.....	G. R. Vander Wee.....	690,489	Jan. 7	222	44	98	48
Tracing pictures, &c. Means for.....	E. L. Williams.....	697,764	Apr. 15	2566	571	99	574
Track.....	J. B. Quinn.....	700,084	May 13	1839	427	99	1566
Track-brake.....	T. S. Butler.....	709,743	Sept. 23	3372	756	100	2719
Track-brake.....	H. L. Bains and J. E. Waaser.....	716,616	Dec. 23	3857	841	101	2689
Track-cleaning device.....	F. Hedley.....	693,859	Feb. 25	3122	692	98	1505
Track-indicator.....	S. A. Staegle.....	705,467	July 22	4106	892	100	881
Track-jack.....	G. E. Felt and L. E. Johnson.....	696,896	Apr. 1	880	203	99	186
Track. Portable bicycle.....	G. E. Mitchell and W. Link.....	697,643	Apr. 15	2350	524	99	520
Track-sander.....	N. B. Dodge.....	692,253	Feb. 4	68	15	98	813
Track-sander.....	W. C. Gardner.....	708,473	Sept. 2	849	194	100	2153
Track-sander. Pneumatic.....	E. M. Hedley.....	705,757	July 29	4719	1021	100	1014
Track-sanding apparatus.....	J. J. Dolan, Jr.....	704,734	July 15	2629	568	100	564
Track-sanding apparatus for electric or similar cars.....	O. Felt and L. E. Johnson.....	715,486	Dec. 1	1105	341	101	2178
Track-sanding appliance.....	J. S. Lang.....	695,300	Mar. 11	1843	410	98	2115
Track-sanding device.....	J. H. Watters.....	691,993	Jan. 28	3071	690	98	689
Track-sanding device. Car.....	A. L. Sprague.....	692,938	Feb. 11	1380	289	98	1100
Track-suspension apparatus.....	G. A. Owen.....	698,548	Apr. 29	4020	888	99	914
Track-switch.....	S. F. Weaver.....	701,781	June 3	393	199	99	2295
Track-switch.....	J. W. Morehouse.....	696,579	Apr. 1	333	73	99	74
Traction device.....	F. L. Gould.....	698,699	Apr. 29	4367	963	99	989
Traction-engine.....	B. Holt.....	694,476	Mar. 4	256	58	98	1768
Traction-engine.....	T. G. Paulson.....	695,337	Mar. 11	1896	422	98	2126
Traction-engine.....	J. O. Wells.....	703,872	July 1	913	200	100	183
Traction-engine.....	G. D. Miller.....	704,652	July 15	2392	517	100	516
Traction-engine.....	S. S., W. S., and R. L. Morton, W. and W. H. Evans.....	706,191	Aug. 5	368	79	100	1192
Traction-engine.....	J. S. Pfrommer.....	706,685	Aug. 12	1325	293	100	1402
Traction-engine.....	D. Best.....	709,592	Sept. 23	3095	689	100	2664
Traction-engine.....	H. C. Jones.....	715,583	Dec. 9	1777	394	101	2216
Traction-increasing device. Electromagnetic.....	A. A. Honey.....	714,695	Dec. 2	87	17	101	1855
Traction. Magnetic.....	S. A. Gibbs.....	695,333	Mar. 11	1971	441	98	2143
Traction road. Electric.....	L. Dion.....	694,317	Feb. 25	4060	902	98	1686
Traction road. Electric.....	L. Dion.....	694,843	Mar. 4	962	214	98	1916
Traction system.....	F. J. Sprague.....	696,880	Apr. 1	914	211	99	192
Traction-wheel.....	D. Beskow.....	694,303	Feb. 25	3972	885	98	1676
Traction-wheel.....	J. A. Kenney.....	700,661	May 20	2996	686	99	1825
Traction-wheel.....	J. E. Wood.....	716,606	Dec. 23	3833	832	101	2684
Traction-wheel.....	R. L. Dutcher.....	716,688	Dec. 23	3977	871	101	2713
Traction-wheel cleat.....	E. Einfeldt.....	701,180	May 27	4007	921	99	2054
Traction-wheel. Magnetic.....	B. B. Hill.....	701,691	Oct. 5	117	117	101	115
Train-connector. Electric.....	C. E. Felt and D. A. Kimbark.....	706,226	Aug. 5	453	92	100	1205
Train-control system.....	C. E. Barry.....	705,016	July 22	3161	682	100	690
Train-control system.....	F. E. Case.....	706,020	Aug. 5	30	6	100	1122



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Train-control system	S. L. G. Knox	717,219	Dec. 30	5127	1111	101	2984
Train-controlling apparatus	J. D. Price and A. C. Miller	705,291	July 22	3747	814	100	848
Train-indicating apparatus	B. C. Rowell	695,649	Mar. 18	2470	560	98	2264
Train-lines. Cut-off device for	G. C. Moore	706,433	Aug. 5	885	191	100	1294
Train manipulation. System of	L. A. and C. I. Freedman	704,020	July 8	1199	261	100	254
Train message-delivering device	P. P. Shives	709,518	Sept. 23	2974	683	100	2639
Train-order box	I. G. Hoag	692,666	Feb. 4	799	181	98	962
Train-order box	I. G. Hoag	700,628	May 27	3551	816	99	1956
Train-order box in connection with semaphores	I. G. Hoag	699,755	May 13	1208	282	99	1436
Train-order-delivering device	B. E. Address	694,453	Mar. 4	225	49	98	1760
Train-order holder	L. C. Gibbs	710,265	Sept. 30	4401	991	100	2950
Train-order-receiving box	I. G. Hoag	703,343	June 24	3803	874	99	2949
Train-order signal	H. L. Piper	698,317	Apr. 22	3607	736	99	812
Train-robber-intercepting apparatus. Automatic	J. S. Johnson	693,651	Feb. 18	2737	602	98	1406
Train-signal	A. Novák	697,654	Apr. 15	2371	528	99	533
Train-starting mechanism	J. B. Blood	706,295	Aug. 5	590	128	100	1234
Train-stopping apparatus	J. P. de Braam	716,621	Dec. 23	3863	843	101	2691
Trains. Moving	C. W. Hornung	701,045	May 27	3769	864	99	2003
Training apparatus	J. McMaster	704,265	July 8	1677	365	100	351
Tram and railway. Electric	R. Hacking	716,411	Dec. 23	3431	749	101	2597
Tram protecting-rollers. Safety-ball for	E. Raus	707,255	Aug. 19	2392	536	100	1642
Tramway life-saving mechanism	W. T. W. H., and P. C. Philipson	695,340	Mar. 11	1900	423	98	2128
Tramway-lines. Mechanism for shifting points of	G. D. Ross	714,398	Nov. 25	3770	892	101	1725
Tramway or railway lines. Arrangement for shifting the points of	G. D. Ross	701,398	June 3	203	44	99	2149
Tramway or similar points from vehicles. Means for operating	W. A. Day	697,609	Apr. 15	2282	510	99	516
Tramway. Overhead	A. M. Acklin	709,692	Sept. 23	3268	732	100	2700
Tramway-plate	R. Stone	714,057	Nov. 18	3068	684	101	1570
Tramway. Portable	J. H. Gardner	694,851	Mar. 4	988	219	98	1922
Tramway-switch	C. D. 759	692,759	Feb. 4	955	216	98	993
Tramway-switch	J. H. V. Young and R. W. Barr	698,239	Apr. 22	3480	765	99	787
Tramway-switch	A. B. Robinson	707,540	Aug. 26	3141	707	100	1814
Tramway-switch	J. W. Keefer	716,244	Dec. 16	3111	680	101	2517
Tramway-switch. Automatic	J. Hilmar	714,301	Nov. 25	3602	792	101	1692
Tramway. Wire-rope	W. C. Davis	711,451	Oct. 14	2018	437	101	435
Tramway. Wire-rope	A. Painter	715,414	Dec. 9	1443	311	101	2150
Tramways or railways. Subterranean current transmission for electric	A. Hrebicek	691,381	Jan. 21	1938	436	98	438
Transfer-presses. Detachable gear for	F. L. Eberhardt	716,525	Dec. 23	3662	799	101	2645
Transfer system	E. W. McKenna	705,119	July 22	3364	729	100	731
Transformer	F. Schwedtmann and G. E. Wells	694,673	Mar. 4	645	141	98	1849
Transformer	A. R. Everest	696,953	Apr. 8	1106	246	99	255
Transformer	W. S. Moody	713,327	Nov. 11	1687	380	101	1259
Transformer	A. Churchward	713,605	Nov. 18	2232	495	101	1386
Transformer	W. S. Moody	713,901	Nov. 18	2784	619	101	1504
Transformer	S. E. Johannesen	717,006	Dec. 30	4701	1019	101	2891
Transformer and means for winding same	E. R. Gill	714,891	Dec. 2	505	105	101	1937
Transformer, inductor, &c	F. Fichter	714,232	Nov. 27	3981	761	99	1664
Transformer, rotary	R. E. Ball	698,098	Feb. 11	1624	353	98	1120
Transformer, rotary	A. Churchward	708,025	Sept. 2	42	10	100	1959
Transforming apparatus. Rotary	E. W. Rice, Jr.	706,598	Aug. 12	1163	258	100	1367
Transforming apparatus. Rotary	A. G. Davis	717,359	Dec. 30	5363	1165	101	3064
Transit	A. Lietz	715,823	Dec. 16	2243	500	101	2333
Transit apparatus. Sending apparatus for tubular	B. H. Blood	711,751	Oct. 14	1553	334	101	338
Transit apparatus. Tubular	B. H. Blood	690,920	Jan. 14	1043	235	98	234
Transit instruments. Solar attachment for	O. F. Shattuck	705,970	July 29	5695	1110	100	1091
Transit. Miners' pocket	J. H. Terise	712,869	Nov. 4	758	176	101	1053
Transits. Meridian attachment for solar	J. H. Young	709,289	Sept. 16	2470	557	100	2320
Transmission mechanism	H. C. Baase	713,375	Nov. 11	1780	400	101	1278
Transmitter	A. Van Wageningen	702,751	June 17	2681	617	99	2697
Transmitting intelligence	A. C. Crehore and G. O. Squier	698,290	Apr. 22	3520	774	99	735
Transmitting intelligence	H. Shoemaker	711,131	Oct. 14	1395	303	101	314
Transmitting intelligence	H. Shoemaker	711,181	Oct. 14	1517	327	101	331
Transmitting intelligence	H. Shoemaker	711,445	Oct. 14	2004	434	101	432
Transmitting mechanism	C. W. Hunt	709,265	Sept. 16	2420	548	100	2510
Transmitting the positions of movable pointers. Apparatus for	O. Widmann	714,081	Nov. 18	3135	694	101	1578
Transparencies, &c. Making primings (coatings) for	F. Scherhag	712,728	Nov. 4	482		101	998
Transporting and distributing apparatus	C. H. Butler	715,972	Dec. 16	2555	563	101	2401
Trap					564		
See Amalgam-trap.	Releasing-trap.						
Animal-trap.	Sanitary trap.						
Ant-trap.	Sewer-trap.						
Burglar-trap.	Steam-trap.						
Fly-trap.	Steel trap.						
Gopher-trap.	Target-trap.						
Hand-trap.	Turtle-trap.						
Insect-trap.	Waste-trap.						
Mouse-trap.	Waste-pipe trap.						
Rat-trap.	Water-trap.						
Trap	R. G. McAuley	690,658	Jan. 7	558	121	98	120

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Trap.....	W. J. Holland.....	693,391	Feb. 18	2225	488	98	1308
Trap.....	E. W. Shepherd.....	694,680	Mar. 4	661	144	98	1852
Trap.....	J. W. Zehrerger.....	703,631	July 1	461	105	100	91
Trap.....	J. A. Clukies.....	703,871	Sept. 30	3622	818	100	286
Trap or separator.....	E. M. Nichols.....	714,323	Nov. 25	3835	801	101	1688
Traveler.....	G. I. Roberts.....	703,610	July 1	414	97	100	82
Traveler.....	A. Loneragan.....	690,594	Jan. 7	481	93	98	94
Traveler's lock.....	H. Spear.....	692,083	Jan. 28	3252	134	98	724
Traveling-bag.....	C. L. Gilbert.....	695,149	Mar. 11	1564	346	98	2060
Traveling-bag protector.....	G. B. Rubens.....	711,881	Oct. 21	2958	632	101	627
Traveling-bag. Telescopic.....	E. U. Phillips.....	693,737	Feb. 19	2886	635	98	1440
Traveling-bag. Telescopic.....	E. U. Phillips and F. J. McHenry.....	705,438	July 22	4057	880	100	872
Traveling-case.....	M. Bukoutz.....	712,762	Nov. 4	541	125	101	1009
Tray for beer-glasses.....	H. W. Rosenbaum.....	698,558	Apr. 23	4034	892	99	917
Tray. Serving.....	A. Markmann.....	715,828	Dec. 16	2258	503	101	2346
Tread. Metallic stair.....	S. Peete.....	715,137	Dec. 2	940	202	101	2028
Tread or covering. Non-slipping wearing.....	F. M. Mahony.....	693,143	Feb. 11	1724	378	98	1179
Tread or tire. Pneumatic.....	E. H. Wilkinson.....	692,397	Feb. 4	312	75	98	864
Tread-power.....	F. L. Beamond.....	706,233	Aug. 5	587	127	100	1234
Tread. Safety.....	C. R. Gale.....	698,381	Apr. 23	3715	821	99	836
Treadle-motor.....	F. Wear.....	695,018	Mar. 11	1309	289	98	2006
Tree extracting, transporting, and replanting apparatus.....	G. Holtz.....	699,171	May 6	78	20	99	1192
Tree-felling apparatus.....	M. Ryder.....	713,501	Nov. 11	2027	455	101	1330
Tree-limb support.....	W. P. Kidder.....	711,573	Oct. 21	2262	491	101	500
Tree-moving apparatus.....	S. T. Hall.....	704,051	July 8	1226	264	100	259
Tree-protector.....	A. F. Street.....	717,134	Dec. 30	4985	1070	101	2942
Tree-protector. Expandible.....	A. Ralston.....	700,830	May 27	3351	769	99	1916
Tree stand or support.....	J. H. Smith.....	694,208	Feb. 25	3805	841	98	1641
Tree-support.....	C. Kachold.....	694,865	Mar. 4	1015	223	98	1927
Tree-transplanter.....	T. P. Brown.....	694,247	Feb. 25	3863	856	98	1653
Tree-transplanting apparatus.....	G. G. Guenther.....	694,740	Mar. 4	778	173	98	1876
Tree-trunks. Removing cores from.....	D. Ralston.....	700,821	May 27	3351	769	99	1917
Trees. Apparatus for transplanting and transporting.....	H. B. Ayres.....	715,631	Dec. 9	1850	411	101	2230
Trees. Protecting.....	J. M. Ralston.....	690,607	Jan. 7	457	98, 99	98	98
Treenail-billets, &c. Machine for turning.....	T. J. Hubbell.....	691,546	Jan. 21	2221	499	98	498
Trestle.....	C. Collet.....	714,282	Nov. 25	3561	734	101	1684
Trestle. Foldable.....	A. F. Kibbe.....	704,687	July 15	2449	529	100	528
Trestle. Knockdown.....	H. E. Howard.....	702,431	June 17	2080	474	99	2572
Triangle.....	H. E. Hersh.....	695,310	Mar. 11	1860	414	98	2119
Trigger mechanism. Single.....	C. W. Fuller.....	706,230	Aug. 5	442	93	100	1206
Trimethyl hexahydrooxybenzylanilin and making same.....	M. A. Tighe.....	713,535	Nov. 11	2089	467	101	1342
Trimmer.....	G. Merling.....	691,157	Jan. 14	1463	468	98	820
See Cheese-box trimmer. Lawn-edge trimmer.							
Grass-edge trimmer. Mantle-trimmer.							
Hat-brim trimmer. Seed-cake trimmer.							
Hedge-trimmer. Shade-cloth trimmer.							
Hoop-trimmer. Shoe-lining trimmer.							
Lawn-trimmer.							
Trimming-table.....	T. W. Taliaferro.....	692,732	Feb. 4	904	207	98	984
Triplet-box.....	A. P. Pichereau.....	695,763	Mar. 18	2653	603	98	2301
Tripod.....	W. K. Holmes.....	701,042	May 27	3766	863	99	2002
Tripod.....	H. G. Ostermann.....	713,794	Nov. 18	2571	573	101	1459
Tripod. Camera.....	B. Forester.....	696,167	Mar. 25	3460	775	98	2483
Tripod or stand.....	C. C. Howard.....	697,146	Apr. 3	1437	321	99	326
Tripod or stand.....	C. W. Howard.....	697,147	Apr. 8	1439	322	99	326
Tripod. Portable.....	C. Whetham.....	703,873	July 1	917	201	100	184
Tripod-support.....	F. B. Seitz.....	714,043	Nov. 18	3068	679	101	1564
Trolley.....	J. S. Van Leer.....	694,218	Feb. 25	3820	845	98	1643
Trolley.....	M. Stoll and J. W. Ruck.....	695,506	Mar. 18	2179	492	98	2204
Trolley.....	P. McCullough.....	699,327	May 13	1558	359	99	1510
Trolley.....	M. F. Graham.....	700,134	May 13	1849	449	99	1585
Trolley.....	L. B. Baker.....	701,247	May 27	4126	949	99	2076
Trolley.....	P. F. King.....	703,134	June 24	3426	786	99	2866
Trolley.....	W. L. von Hardenberg.....	705,798	July 29	4788	1039	100	1029
Trolley.....	T. W. Sutton.....	705,882	July 29	4940	1074	100	1059
Trolley.....	P. E. Loree.....	707,338	Aug. 19	2559	577	100	1676
Trolley.....	J. W. Brooks.....	708,198	Sept. 2	383	89	100	2060
Trolley.....	F. A. Merrick.....	703,168	Sept. 16	2230	507	100	2469
Trolley.....	J. F. Kerr.....	710,469	Oct. 7	125	29	101	271
Trolley.....	E. W. Clark.....	711,286	Oct. 14	1715	371	101	371
Trolley.....	N. Hublinger.....	712,539	Nov. 4	152	37	101	929
Trolley.....	J. Morgan.....	714,506	Nov. 25	3957	877	101	1760
Trolley.....	W. L. Baker.....	716,362	Dec. 23	3382	727	101	2577
Trolley and track wires for suspended-cable roads.	H. M. Harding.....	692,137	Jan. 28	3536	756	98	742
Support for.....							
Trolley-arm head.....	F. J. Ludolph.....	698,979	Apr. 29	4918	1087	99	1110
Trolley-arms. Sleet-cleaning device for.....	M. M. Nash.....	690,757	Jan. 7	759	169	98	160
Trolley-catcher.....	A. W. Ham.....	700,763	May 27	3241	743	99	1893
Trolley-catcher.....	E. M. Zwing.....	715,190	Dec. 2	1094	223	101	2048
Trolley-catcher.....	A. Thode.....	716,145	Dec. 16	2900	638	101	2473
Trolley-catcher and retriever.....	C. F. Wilson.....	696,781	Apr. 1	735	169	99	157
Trolley-catcher. Automatic.....	T. B. Shanahan.....	697,674	Apr. 15	2408	536	99	541
Trolley connection and guard for electric cars.....	J. G. Sharwell.....	717,291	Dec. 30	5248	1189	101	3010
Trolley-control and sleet and ice cutting device. Auxiliary.....	W. H. Oliphant.....	703,297	June 24	3707	854	99	2922
Trolley-controller.....	P. D. Milloy.....	698,532	Apr. 29	3989	882	99	907
Trolley-cord take-up device.....	S. J. Beckland.....	692,421	Feb. 4	346	85, 86	98	871
Trolley-crossover.....	T. North.....	701,925	June 10	1143	262	99	2363
Trolley. Electric.....	C. E. Smith.....	695,953	Mar. 25	3009	681	98	2388



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Prtg.	Vol.	Page.
Trolley. Electric-car.	E. W. Taylor	698,988	Feb. 25	3391	746	98	1558
Trolley. Electric-car.	C. J. Johnson and C. W. Benedict	703,589	July 1	376	86	100	74
Trolley. Electric-crane	M. A. Beck	690,553	Jan. 7	357	73	98	77
Trolley. Electric-railway	F. W. Garrett	702,988	June 24	3046	702	99	2790
Trolley. Electric-railway	C. E. Thomas and J. M. Olinger	711,022	Oct. 14	1188	261	101	261
Trolley. Electric-railway-car	L. E. Walkins	715,714	Dec. 9	2007	450	101	2264
Trolley for use in electric traction	J. G. Lister	707,606	Aug. 26	3074	691	100	1800
Trolley-fork	E. L. Gentis	703,782	July 1	746	165	100	150
Trolley-guard	E. Gagné	709,089	Sept. 16	2080	477	100	2438
Trolley-guard	C. O. Prince	714,608	Nov. 25	4153	918	101	1802
Trolley-guard	F. M. Miller	698,305	Dec. 23	3582	778	101	2325
Trolley-guiding device	J. A. Miller	698,305	Apr. 22	3589	739	98	80
Trolley-harp	F. P. Crockett and O. P. Johnson	690,639	Jan. 7	524	114	98	112
Trolley-harp	A. Johnson	692,519	Feb. 4	538	126	98	907
Trolley-harp	T. N. Turner and G. R. Mitchell	697,572	Apr. 15	2210	492	99	502
Trolley-harp	H. S. Doyle	715,086	Dec. 2	753	160	101	1888
Trolley harp and wheel	W. A. Heller	692,851	Feb. 11	1126	251	98	1055
Trolley-harp contact	J. H. Walker	714,395	Nov. 25	3533	777	101	1679
Trolley harp or fork	C. P. Johnson and F. P. Crockett	708,044	Sept. 2	98	33	100	2001
Trolley-head	D. A. Petre	693,309	Feb. 11	2059	450	98	1248
Trolley head and wheel.	W. A. E. Davis	705,825	July 29	4834	1050	100	1038
Trolley head or wheel.	G. Aye	699,640	May 13	990	230	99	1393
Trolley-hoisting block	J. H. Cook	694,836	Mar. 4	932	212	98	1914
Trolley-lubricator	P. E. Loree	707,339	Aug. 19	2561	573	100	1676
Trolley. Overhead	G. H. Russell	708,476	July 1	181	43	100	38
Trolley-pole	E. L. Fowler	697,829	Apr. 15	2698	596	98	701
Trolley-pole	W. Pullman and C. C. Field	697,884	Apr. 15	2790	617	98	625
Trolley-pole	J. D. Hickman	703,921	July 1	1004	218	100	200
Trolley-pole	C. D. Jenney	708,559	Sept. 9	1002	227	100	2196
Trolley-pole	W. Pullman and C. C. Field	709,113	Sept. 16	2119	486	100	2447
Trolley-pole	T. C. Buder	713,599	Nov. 18	2215	492	101	1383
Trolley-pole	T. C. Buder	716,376	Dec. 23	3359	734	101	2582
Trolley-pole attachment	G. A. Palmer	704,749	July 15	2535	104	98	125
Trolley-pole base	J. D. Buckley and E. H. Phinney	691,236	Jan. 14	1617	369	98	352
Trolley-pole catch	J. A. Norton	706,092	Aug. 5	172	35	100	1152
Trolley-pole-controlling attachment	R. J. Barry	699,643	May 13	994	231	99	1394
Trolley-pole-controlling device for cars or vehicles	W. H. Kilbourn	691,275	Jan. 14	1688	384	98	367
Trolley-pole harp	J. H. Walker	714,267	Nov. 25	3529	276	101	1678
Trolley-pole support	F. H. Lippincott	694,829	Dec. 23	3543	769	101	1571
Trolley poles and ropes. Water shed or deflector for	S. J. Buckland	692,422	Feb. 4	351	86	98	872
Trolley-protector. Electric	W. W. Hoffman and F. W. Powers	715,071	Dec. 2	813	172	101	2001
Trolley-rail	W. N. Haring	701,565	June 3	515	113	99	2215
Trolley-retriever	A. W. Knutson	711,428	Oct. 14	1971	428	101	425
Trolley. Self-coiling	J. R. Stanley	714,115	Nov. 18	3322	707	101	1592
Trolley-stand	F. E. Lidke	692,730	Feb. 4	1016	230	98	1003
Trolley-stand	H. Holland	694,152	Feb. 25	3694	816	98	1620
Trolley-stand	C. G. Bleasdale	699,364	May 6	444	102	99	1265
Trolley-stand	H. Holland	717,401	Dec. 30	5444	1182	101	3050
Trolley-stand	W. H. Kilbourn	717,414	Dec. 30	5468	1186	101	3055
Trolley-stand	O. F. Lidke	717,423	Dec. 30	5486	1190	101	3058
Trolley-support	R. Lynn	695,406	Mar. 11	2608	450	98	2151
Trolley-supporter. Adjustable	T. E. Stucky	708,076	July 22	3141	691	99	71
Trolley-supporter. Adjustable	T. E. Stucky and E. Hill	698,197	Apr. 22	3407	750	99	771
Trolley system. Underground	F. A. Howarth	707,591	Aug. 26	3047	685	100	1794
Trolley systems. Electric signal mechanism for overhead	W. R. Stearns	692,085	Jan. 28	3255	735	98	725
Trolley-tender	A. W. Ham	691,263	Jan. 14	1663	378	98	363
Trolley-tender	A. W. Ham	691,264	Jan. 14	1664	379	98	363
Trolley-track lock. Overhead	S. J. Sharp	701,517	June 3	419	95	99	2104
Trolley track. Overhead	W. J. Sumner	712,344	Oct. 28	3782	816	101	820
Trolley-track sound-deadening device. Metallic	A. A. Coburn	692,629	Feb. 4	725	168	98	948
Trolley-track switch	P. F. Werner	709,590	Sept. 23	3091	688	100	2664
Trolley-track switch. Overhead tubular	P. F. Werner	706,139	Aug. 5	258	69	100	1171
Trolley-wheel	W. Sellers	697,892	Apr. 15	2802	619	99	627
Trolley-wheel	G. Loffi	698,978	Apr. 29	4917	1087	99	1110
Trolley-wheel	G. E. Chapman, G. L. Ensign, and J. M. Weir	699,744	May 13	1182	275	99	1430
Trolley-wheel	J. H. Clark	700,899	May 27	3496	802	99	1945
Trolley-wheel	J. Preston	701,085	May 27	3855	880	99	2016
Trolley-wheel	W. F. Hall	703,709	July 1	605	134	100	130
Trolley-wheel	W. F. Hall	703,701	July 1	607	134	100	120
Trolley-wheel	R. H. Apelt	706,211	Aug. 5	400	85	100	1198
Trolley-wheel	W. W. Annable	708,451	Sept. 2	810	185	100	2146
Trolley-wheel	J. B. Lockerby	714,589	Nov. 25	4113	910	101	1795
Trolley-wheel	L. Chroninger and J. E. Adams	715,983	Dec. 16	2573	569	101	2405
Trolley-wheel retainer	A. D. Barton	695,997	Mar. 25	3087	700	98	2404
Trolley-wheel-turning machine.	B. Gallagher	699,382	May 6	476	113	99	1272
Trolley-wheels from leaving the feed-wire. Apparatus for preventing	G. W. Hammond	703,786	July 1	761	167	100	152
Trolley-wire bracket	S. Leonard	692,681	Feb. 4	828	187	98	969
Trolley-wire hanger	L. C. Nolan	706,338	Aug. 5	670	146	100	1250
Trolley-wire hanger	I. L. Edwards	697,987	Apr. 15	2865	636	99	644
Trolley-wire hanger. Electric	A. Palmer	715,415	Dec. 9	1446	312	101	2151
Trolley-wire ice-cleaner	F. N. Root	710,516	Oct. 7	235	51	101	48
Trolley-wire ice-cutter	A. Ambuhl	690,818	Jan. 7	871	192	98	184

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Trolley-wire. Overhead electric	J. P. Cribb	716,988	Dec. 30	4666	1012	101	2884
Trolley-wire-recessing mechanism	W. A. McCallum	697,648	Apr. 15	2359	526	99	531
Trolley-wire support	E. Hill, Jr.	717,398	Dec. 30	5440	1181	101	3949
Trolley-wires. Automatic line-catch for	G. R. Floyd	707,222	Aug. 19	2341	523	100	1632
Trolley-wires. Support for high-tension.	A. F. Batchelder	717,324	Dec. 30	5297	1152	101	3021
Trolley-wires. Treating	A. Springer	706,699	Aug. 12	1346	299	100	1407
Trolleys. Automatic releasing device for safety-	A. C. Wolfe	713,828	Nov. 18	2630	587	101	1470
Trombone. Slide	J. Hankey	699,681	May 13	1070	250	99	1408
Trommel	G. F. Waddell	691,025	Jan. 14	1249	283	98	275
Trough:							
See Eaves-trough	Hog-trough.						
Extensible trough.	Watering-trough.						
Feed-trough.							
Trousers	I. E. Mayer	692,728	Feb. 18	2872	632	98	1486
Trousers	G. M. Dane	707,556	Aug. 26	2369	671	100	1779
Trousers	S. A. Myers	716,081	Dec. 16	2702	512	101	2448
Trousers appliance. Man's	E. D. Rodgers	695,172	Mar. 11	1605	356	98	2068
Trousers-bottoms. Machine for finishing	W. Heller	699,316	May 6	349	81, 82	99	1245
Trousers clamp and hanger	G. W. Shelton	704,940	July 15	2396	641	100	642
Trousers-creasing device	W. W. Fulton	691,460	Jan. 21	2082	466	98	468
Trousers-former	L. F. Anderson	704,811	July 15	2703	584	100	578
Trousers-guard	H. H. Hardy	703,579	July 1	364	84	100	72
Trousers-hanger	M. H. Cazier	696,940	Apr. 8	1075	238	99	248
Trousers-hanger	J. H. Howe	706,060	Aug. 5	119	24	100	1141
Trousers-leg-protecting attachment	B. F. Salmon	694,200	Feb. 25	3790	838	98	1638
Trousers-supporter	G. E. Hill	698,198	Apr. 22	3410	751	99	771
Trousers-supporter	L. O. Miller	706,403	Aug. 5	978	215	100	1314
Trousers-supporter	J. D. Aiken	707,192	Aug. 19	2285	551	100	1627
Trowel	W. G. Cohan	690,839	Jan. 7	902	200	98	181
Trowel	E. A. Benninghofen	706,514	Aug. 12	1018	225	100	1337
Trowel-grinding machine	H. Beltz	701,831	June 10	976	217	99	2329
Trowel. Plasterer's	F. T. McFall	714,223	Nov. 25	3443	757	101	1659
Trowel. Plastering	P. S. Miller	696,066	Mar. 25	3231	731	98	2433
Truck	J. A. Martin	690,449	Jan. 7	119	26	99	87
Truck	C. M. Vickers, Jr.	692,389	Feb. 4	208	72	98	51
Truck	E. S. Perkins	695,833	Mar. 18	2793	636	98	2230
Truck	W. H. Layng	701,582	June 3	547	120	99	2232
Truck	G. H. Steer	707,950	Aug. 26	3792	852	100	1944
Truck	G. H. Grondin, S. Brillard, and J. L. Labranche.	708,346	Sept. 2	639	144	100	2111
Truck. Adjustable	M. E. Bailey	696,535	Apr. 1	252	57	99	58
Truck and bag-holder. Combined	J. C. Steele	717,044	Dec. 30	4766	1033	101	2906
Truck. Baggage	C. T. Godard	691,542	Jan. 21	2217	498	98	497
Truck. Baggage	G. W. Burton	703,990	July 8	1154	250	100	244
Truck-bearing. Adjustable	W. S. Adams	708,980	Sept. 16	1841	424	100	2389
Truck-bolster	A. B. Bellows	693,220	Feb. 11	1912	415	98	1216
Truck-bolster	R. V. Sage	697,664	Apr. 15	2390	532	99	537
Truck-bolster	R. V. Sage	700,564	May 20	2331	650	99	1790
Truck-bolster	H. R. Keithley	705,358	July 22	3918	849	100	542
Truck-bolster	C. Vanderbilt	707,656	Aug. 26	3195	717	100	1825
Truck-bolster	J. H. Geer and D. Wisor	717,387	Dec. 30	5408	1176	101	3044
Truck bolster. Car	D. C. Courtney	703,117	June 24	3388	778	99	2857
Truck bolster. Car	R. H. Hornbrook	710,978	Oct. 14	1088	241	101	238
Truck bolster. Car	J. C. Wands	713,368	Nov. 11	1765	397	101	1275
Truck bolster. Car	J. C. Wands	713,543	Nov. 11	2104	471	101	1345
Truck-bolster. Railway-car	O. M. Stimson	696,511	Apr. 1	205	49	99	48
Truck. Boltless cast-steel car	W. E. Symons	700,992	May 27	3654	830	99	1976
Truck. Car	S. A. Crone	690,403	Jan. 7	31	7	98	9
Truck. Car	W. S. G. Baker	692,499	Feb. 4	488	115	98	898
Truck. Car	P. M. Kling	693,610	Feb. 18	2654	583	98	1390
Truck. Car	S. W. McMunn	693,384	Feb. 25	3384	744	98	1557
Truck. Car	W. T. Shryock	694,114	Feb. 25	3619	801	98	1604
Truck. Car	J. F. Hobbs	694,473	Mar. 4	252	57	98	1766
Truck. Car	C. M. Carnahan	694,942	Mar. 11	1164	254	98	1977
Truck. Car	E. S. Woods	696,617	Apr. 1	407	95	99	89
Truck. Car	E. A. Curtis	696,627	Apr. 1	422	98	99	92
Truck. Car	W. M. Johns	696,641	Apr. 1	447	104	99	96
Truck. Car	O. Colborne	697,070	Apr. 8	1816	291	99	298
Truck. Car	S. A. Crone	697,452	Apr. 15	2012	444	99	462
Truck. Car	E. Cliff	700,172	May 20	2065	472	99	1633
Truck. Car	B. W. Tucker	700,265	May 20	2250	514	99	1672
Truck. Car	H. R. Keithley	700,425	May 20	2576	590	99	1736
Truck. Car	E. Peckham	700,810	May 27	3394	765	99	1912
Truck. Car	H. R. Keithley	702,564	June 17	2330	538	99	2625
Truck. Car	W. S. G. Baker	708,108	June 24	3372	774	99	2854
Truck. Car	B. Haskell	704,188	July 8	1549	333	100	325
Truck. Car	H. A. Dorner	705,049	July 22	3217	695	100	701
Truck. Car	G. C. Murray	706,584	Aug. 12	1133	250	100	1360
Truck. Car	G. C. Murray	706,585	Aug. 12	1135	251	100	1361
Truck. Car	J. C. Barber	708,855	Sept. 9	1588	363	100	2319
Truck. Car	J. A. Brill	708,994	Sept. 16	1867	429	100	2393
Truck. Car	W. S. Adams	709,071	Sept. 16	2031	463	100	2427
Truck. Car	C. Vanderbilt	710,637	Oct. 7	462	96, 97	101	93



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Truck. Car.	E. Cliff	714,673	Dec. 2	36	8, 9	101	1845
Truck. Car.	E. Cliff	714,674	Dec. 2	38	9	101	1845
Truck. Car.	R. E. Powers	715,601	Dec. 9	1803	400	101	2321
Truck. Car.	B. W. Tucker	715,711	Dec. 9	2001	448	101	2322
Truck. Car.	H. S. Goughnour	717,092	Dec. 30	4854	1051	101	2924
Truck. Car.	J. C. Wands	717,304	Dec. 30	5268	1143	101	3014
Truck. Car ball-bearing	R. V. Sage	717,124	Dec. 30	4910	1064	101	2936
Truck. Caskette	W. S. Adams	717,080	Dec. 30	4801	1041	101	2914
Truck. Casket	D. B. Hiser	693,860	Feb. 25	3124	692	98	1506
Truck construction. Car.	W. S. Adams	709,072	Sept. 16	2033	464	100	2428
Truck. Elevating.	A. A. Scott	703,744	July 1	685	151	100	136
Truck. Elevating.	A. A. Scott	709,245	Sept. 16	2383	539	100	2502
Truck. Elevating.	A. A. Scott	711,007	Oct. 14	1148	254	101	252
Truck. Elevating.	A. A. Scott	711,008	Oct. 14	1150	254	101	252
Truck. Elevating.	E. L. and W. H. Cadwell	713,746	Nov. 18	2482	538	101	1411
Truck. Flexible car.	C. S. Shallenberger	716,294	Dec. 16	3184	697	101	2531
Truck folding frame.	P. J. Kremer	702,801	June 17	2778	630	99	2718
Truck-frame	A. B. Bellows	693,219	Feb. 11	1911	415	98	1216
Truck-frame for railway-cars	J. M. Hansen	706,233	Aug. 5	445	94	100	1207
Truck-frame for railway-cars	J. M. Hansen	706,234	Aug. 5	447	94	100	1207
Truck-frame. Motor-car	A. Schmid	710,809	Oct. 7	801	172	101	164
Truck. Friction-driven.	J. F. McElroy	713,125	June 10	1334	304	99	2396
Truck. Hand.	E. J. Murphy	693,422	Feb. 18	2283	500	98	1315
Truck. Hand.	E. M. Cummins	710,845	Oct. 7	860	186	101	175
Truck. Hand.	W. G. Tower	713,719	Nov. 18	2433	544	101	1429
Truck. Hand.	E. J. Bryan	714,140	Nov. 25	3250	717	101	1621
Truck. House-moving	E. W. Gragert	712,520	Nov. 4	109	27	101	920
Truck. Lifting.	B. Colseth	702,778	June 17	2735	628	99	2709
Truck loading attachment. Hand.	T. J. Lynch	700,960	May 27	3599	828	99	1966
Truck loading attachment. Hand.	T. J. Lynch	701,592	June 3	564	123	99	2225
Truck. Locomotive.	E. Shay	706,604	Aug. 12	1175	260	100	1369
Truck lubricator. Car.	J. A. Bradford	708,306	Sept. 2	575	130	100	2098
Truck. Passenger-car.	E. Cliff	714,672	Dec. 2	33	7, 8	101	1844
Truck. Radial car.	W. Robinson	694,787	Mar. 4	878	194	98	1897
Truck. Railway.	W. C. Happe	715,791	Dec. 16	2181	488	101	2320
Truck. Railway-car	F. F. Shaffer	693,672	Feb. 18	2765	609	98	1414
Truck. Railway-car	H. R. Keithley	702,565	July 17	2333	533	99	2625
Truck. Railway-car.	H. R. Keithley	705,763	July 29	4730	1024	100	1016
Truck side and center bearing. Car.	E. Cliff	707,208	Aug. 19	2312	517	100	1626
Truck side frame	C. S. Shallenberger	713,510	Nov. 11	2047	458	101	1334
Truck side frame	T. Westlake	714,076	Nov. 18	3131	693	101	1576
Truck. Steam.	C. T. Westlake	713,125	Oct. 14	1365	307	101	2096
Truck. Stove.	W. T. Buck	694,248	Feb. 25	3865	857	98	1654
Truck. Stove.	J. H. Smith	710,394	Sept. 30	4624	1043	100	2996
Truck. Street-car	R. H. Hornbrook and W. H. Woodcock	709,406	Sept. 16	2710	607	100	2571
Truck. Street-car	R. H. Hornbrook and W. H. Woodcock	711,861	Oct. 21	2824	625	101	620
Truck tie-bar. Car.	S. Otis	694,492	Mar. 4	285	65	98	1772
Truck. Traction.	A. Kilby	699,877	May 13	1467	337	99	1492
Truck. Vehicle swivel.	F. Burger	708,523	Sept. 9	950	215	100	2185
Truck. Warehouse.	A. P. Sullivan and E. S. Bacon	699,034	Apr. 29	5007	1108	99	1128
Truck. Warehouse.	W. A. Knight	702,369	June 24	3115	717	99	2805
Trucks and cars. Beam for car-coupling	S. A. Crone	712,768	Nov. 4	554	127	101	1011
Trucks. Means for automatically coupling or uncoupling	O. Mietaschek	698,040	Apr. 22	3074	677	99	702
Trumpet. Ear.	E. De Meulemeester	705,218	July 22	3586	775	100	716
Trunk.	W. H. A. Stout	695,246	Mar. 11	1735	384	98	2095
Trunk.	A. King	695,611	Mar. 18	2403	544	98	2251
Trunk.	J. P. Levergood	696,685	Apr. 1	545	125	99	118
Trunk.	S. E. V. Seward	696,846	Apr. 1	845	194	99	178
Trunk.	B. Walsh	700,588	May 20	2870	659	99	1798
Trunk.	W. Hossfeld	711,214	Oct. 14	1888	341	101	345
Trunk and display-case	C. Heumader	699,523	May 6	738	172	99	1328
Trunk caster-support	C. H. Kurz	693,034	Feb. 11	1498	327	98	1334
Trunk. Cleansing.	F. H. L. James	690,652	Jan. 7	550	119	98	117
Trunk-elevating device	C. W. Clifton	710,866	Dec. 30	4420	950	101	2384
Trunk for cotton or other pickers.	F. H. L. James	690,653	Jan. 7	551	119	98	118
Trunk for cotton or other pickers.	F. H. L. James	690,654	Jan. 7	552	120	98	118
Trunk. Hat.	A. J. Curry	698,263	Apr. 22	3329	776	99	709
Trunk. Hat-sample	W. C. Richards	713,495	Nov. 11	1983	448	101	1321
Trunk or bale rope attachment.	L. S. Ford	690,645	Jan. 7	537	116	98	115
Trunk or box safety attachment	J. T. Collins	699,790	May 13	1278	295	99	1450
Trunk or package binder	C. C. P. McCord	702,322	June 10	1859	423	99	2506
Trunk-strap.	O. A. Stoneman	693,079	Feb. 11	1589	346	98	1152
Trunk-strap.	O. A. Stoneman	700,153	May 13	463	107	99	1593
Trunk. Transformable	F. H. Knight	693,473	Feb. 25	3348	736	98	1333
Trunk-tray fixture	D. Goldsmith	693,543	Feb. 18	2514	554	98	1363
Trunk-tray holder	O. Rangnow	713,152	Nov. 11	1297	293	101	1181
Trunk. Wardrobe.	J. J. Cannan	705,560	July 29	4358	944	100	943
Truss.	T. C. Spelling	697,032	Apr. 8	1248	278	99	284
Truss.	E. J. O'Connor	712,711	Nov. 4	452	107	101	992
Truss.	J. J. Adams	713,631	Dec. 9	1306	279	101	2139
Truss.	M. B. Smyth	715,701	Dec. 9	1983	444	101	2259
Truss. Adjustable pliable	W. Payne	713,143	Nov. 11	1281	290	101	1177
Truss. Hernial.	L. A. Smith	690,624	Jan. 7	492	107	98	105
Truss. Hernial.	R. Hummel	691,143	Jan. 14	1443	328	98	815
Truss. Hernial.	A. Hunter	693,606	Feb. 18	2650	584	98	1390
Truss. Hernial.	R. Arnold	694,599	Mar. 4	508	110	98	1821
Truss. Hernial.	D. E. Huffman	694,751	Mar. 4	705	177	98	1823
Truss. Hernial.	J. A. Corbett	695,377	Mar. 11	1964	439	98	2142

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Truss. Hernial	G. W. Derr	698,264	Apr. 22	3530	776	99	797
Truss. Hernial	W. H. Garson	698,270	Apr. 22	3538	779	99	798
Truss. Hernial	J. C. Le Hardy	699,065	Apr. 29	5105	1129	99	1149
Truss. Hernial	P. Fredin	699,797	May 13	1292	298	99	1453
Truss. Hernial	M. B. Smyth	701,954	June 10	1199	273	99	2375
Truss. Hernial	G. H. Stewart and A. L. Wiseman	703,095	June 24	3353	771	99	2851
Truss. He. nial	L. A. Stewart	703,847	July 1	868	191	100	174
Truss. Hernial	J. H. Sherman	705,453	July 22	4084	888	100	877
Truss. Hernial	J. H. and D. L. Chesterman	705,521	July 29	4828	1048	100	1087
Truss. Hernial	J. H. McKague	707,619	Aug. 26	3938	698	100	1805
Truss. Hernial	C. E. Kenyon	713,450	Nov. 11	1895	429	101	1303
Truss. Hernial	G. R. House	714,305	Nov. 25	3606	793	101	1693
Truss. Hernial	F. J. Hage, Sr.	716,221	Dec. 16	3062	668	101	2508
Truss. Metal	E. W. Samen	702,332	June 10	1877	423	99	2509
Truss. Pile	C. W. Langridge	691,392	Jan. 21	1962	440	98	443
Truss-rod beam	A. W. Henry	706,654	Aug. 12	1267	290	100	1389
Trussing-machine	L. D. Vogel	699,121	Apr. 29	5152	1141	99	1158
Tub:							
See Bath-tub.      Butter-tub.							
Bathing-tub.      Wash-tub.							
Tubs, buckets, &c. Machine for sand-finishing	L. D. Vogel	701,821	June 3	958	212 213	99	2309
Tube:							
See Air-conducting tube.      Pneumatic-despatch tube.							
Despatch-tube.      Tire air-tube.							
Mailing-tube.      Water-tube.							
Metallic tube.      Wick-tube.							
Packing-tube.							
Tube-bends. Machinery for manufacturing	J. Bradley	697,604	Apr. 15	2273	507 508	99	514
Tube-blank-forming machine	W. S. Seymour	711,442	Oct. 14	1997	433 434	101	431
Tube-boring-out apparatus	J. Roan	690,878	Jan. 7	960	216 217	98	202
Tube-clamp	W. De Freitas	697,330	Apr. 8	1758	394	99	394
Tube clamping, cutting, and expanding machine	H. Del Mar	704,520	July 15	2173	470 471	100	471
Tube-cleaner	F. Nowotny	710,798	Oct. 7	779	166	101	160
Tube-cleaning device	J. S. Bushnell	708,200	Sept. 2	386	89	100	2060
Tube-coating machine	W. Thomas	694,698	Mar. 4	696	152	98	1858
Tube-compressor	G. J. Seabury	715,429	Dec. 9	1480	320	101	2157
Tube-covering die	P. H. Friel	696,865	Apr. 1	578	203	99	186
Tube-covering die	P. H. Friel	715,570	Dec. 9	1755	388	101	2311
Tube-cutter	W. Hervey	700,197	May 20	2169	493	99	1642
Tube-drawing grip	H. Oberjohann	701,926	June 10	1144	263	99	2363
Tube-drawing machine	J. Gieshoidt	704,316	July 8	1767	386	100	371
Tube-expander	E. L. Knight	700,510	May 20	2746	628	99	1772
Tube-expander	H. M. Barr	707,292	Aug. 19	2472	554	100	1659
Tube-machine	J. J. Garrity	702,197	June 10	1651	370	99	2465
Tube-machine	F. Deming	710,046	Sept. 30	3974	890 897	100	2858
Tube-making machine	F. C. Osborn	710,507	Oct. 7	219	48	101	45
Tube-making machine	F. C. Osborn	712,954	Nov. 4	932	216	101	1088
Tube-mill guiding device	W. Dicks	693,381	Feb. 18	2204	484	98	1299
Tube-plate-handling apparatus	J. J. Boax	715,746	Dec. 16	2083	467 468	101	2300
Tube-treating machine	J. H. Russell	704,581	July 15	2279	494 495	100	492
Tubes. Apparatus for manufacturing conical	E. Bock	698,171	Apr. 22	3350	733	99	758
Tubes. Coiling-chamber for coiling metal strips into	T. A. Judge	713,767	Nov. 18	2529	562	101	1451
Tubes. Drawing	S. E. Diescher	693,119	Feb. 11	1681	365	98	1170
Tubes. Flanging metallic	N. McKechnie	698,214	Apr. 22	3440	755 756	99	779
Tubes, &c. Machine for making seamless	B. F. McTear	700,361	May 20	2446	560 561 562	99	1711
Tubes. Machinery for producing seamless metallic	F. J. McIntosh and W. Thornburgh	693,053	Feb. 11	1539	335 336	98	1143
Tubes, &c. Making collapsible	L. Feval	706,541	Aug. 12	1064	294	100	1345
Tubes. Manufacture of	W. S. Seymour	711,180	Oct. 14	1514	573	101	331
Tubes, &c. Manufacture of seamless and weldless	B. F. McTear	691,727	Jan. 21	2560	573	98	596
Tubes or flues. Machine for cutting, expanding, and beading	J. Carmichael	717,344	Dec. 30	5333	1160	101	3028
Tubes, pipe-coils, &c. Manufacture of curved	J. Earle	717,178	Dec. 30	5057	1096	101	2969
Tubes with annular corrugations for rendering them flexible. Machine for upsetting	F. W. Koffler	700,662	May 20	2996	687	99	1826
Tubes with wooden cores. Filling metal	O. Steiner	708,501	Sept. 2	902	204	100	2164
Tubing, &c. Apparatus for rotating	S. W. Titus	702,509	June 17	2232	509	99	2605
Tubing. Apparatus for the manufacture of butt-weld	P. Patterson	715,854	Dec. 16	2326	516	101	2353
Tubing. Flexible metallic	F. G. Frankenberg	693,000	Feb. 11	1445	314 316	98	1122
Tubing. Machine for making spiral	G. E. Grimm	706,818	Aug. 12	1587	357	100	1458
Tubing. Manufacture of bent	J. P. Buckley	702,125	June 10	1521	343	99	2440
Tubular articles. Apparatus for flanging holes in	J. P. Sneddon	693,177	Feb. 11	1809	395	98	1195
Tubular articles of irregular shape. Shaping wrought-metal	J. P. Sneddon	693,179	Feb. 11	1816	396	98	1196
Tubular boiler	W. B. McCord	690,752	Jan. 7	752	167	98	158
Tubular boiler	J. A. Steinmetz	697,560	Apr. 15	2194	487 488	99	498
Tubular fabric. Woven	W. Beck	697,390	Apr. 8	1877	419	99	419
Tubular fabric. Woven	W. Beck and J. F. Preston	697,391	Apr. 8	1879	419	99	419



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Tuck-comb	J. A. Stiles	711,885	Oct. 21	2869	635	101	629
Tucker	C. F. and M. T. Goforth	694,373	Mar. 4	67	16	98	1725
Tufted fabrics. Manufacture of	C. S. E. Spoerl	698,870	Apr. 29	4731	1042	99	1072
Tufting apparatus	S. Karpen	691,271	Jan. 14	1680	382	98	366
Tufting-machine	W. E. Buser	711,382	Oct. 14	1894	1412	101	410
Tufting-machine	J. C. Borgwardt and W. Consoer	714,441	Nov. 25	3843	850	101	1739
Tug and trace coupling	A. M. Craig	709,471	Sept. 23	2833	641	100	2612
Tug attachment. Shaft	A. S. Bailey	691,231	Jan. 14	1603	366	98	349
Tug-fastener	J. Lockwood	700,345	May 20	2423	553	99	1706
Tug-fastener	H. J. Ormsby	704,570	July 15	2263	490	100	488
Tug. Shaft	H. A. Bierley	699,441	May 6	600	137	99	1299
Tug. Shaft	T. W. Davies	712,364	Oct. 28	3762	823	101	826
Tug-stop	C. F. Langen	699,961	May 13	1627	373	99	1524
Tug. Thill	H. G. Taylor	693,081	Feb. 11	1593	347	98	1153
Tug. Thill	S. H. Frost	716,024	Dec. 16	2659	586	101	2423
Tumbler-press	J. Haley	702,425	June 17	2066	470	99	2570
Tumbler-washer	I. Johnson	710,463	Oct. 7	119	27	101	26
Tumbling-barrel. Sand-blast	B. C. Tilghman, Jr	702,040	June 10	1359	399	99	2104
Tumbling-box	W. F. Patton	691,802	Jan. 28	2737	618	98	621
Tumbling-machine	M. Griswold, Jr.	695,102	Mar. 11	1462	324	98	2037
Tumbling-machine	H. E. Barton	713,379	Nov. 11	1786	401	101	1279
Tuning device for stringed instruments.	E. C. Lane	694,392	Mar. 4	109	25	98	1796
Tunnel	C. M. Jacobs	690,960	Jan. 14	1119	254	98	250
Tunnel	C. SooySmith	713,521	Nov. 11	2064	492	101	1337
Tunnel	H. Moeser	715,497	Dec. 9	1608	348	101	2182
Tunnel construction	G. Lindenthal	714,204	Nov. 25	3408	751	101	1653
Tunnel construction. Subaqueous	J. F. O'Rourke	708,249	Sept. 2	466	106	100	2076
Tunnel-roof	J. C. Meem	715,406	Dec. 9	1430	308	101	2147
Tunnel-roof. Sectional ventilating	E. H. Call	713,955	Nov. 18	2897	1643	101	1527
Tunnel. Ventilating	W. Moran	714,935	Dec. 2	593	124	101	1953
Tunnel-ventilating system	J. Kress	704,808	July 15	2696	583	100	576
Tunnels. Constructing	J. Breuchaud	706,380	Aug. 5	752	165	100	1267
Tunnels. Constructing	C. SooySmith	713,520	Nov. 11	2062	461	101	1337
Tunnels. Constructing and laying subaqueous	H. F. Dunham	715,768	Dec. 16	2127	476	101	2310
Tunnels. Laying	G. Lindenthal	714,205	Nov. 25	3410	751	101	1653
Tunnels, shafts, &c. Building	C. SooySmith	713,519	Nov. 11	2060	461	101	1336
Tunneling-shield. Pneumatic	T. Cooper	715,244	Dec. 9	1138	244	101	2086
Turbine	E. C. Thrupp	699,636	May 6	965	222	99	1374
Turbine	J. P. Lennon and C. E. Banks	713,461	Nov. 11	1917	433	101	1307
Turbine	J. Procter	713,920	Nov. 18	2819	627	101	1511
Turbine. Axial-flow	N. S. Bök and T. R. Robsahm	696,795	Apr. 1	759	172	99	162
Turbine. Combined axial and radial	R. Schulz	702,826	June 17	2823	649	99	2728
Turbine. Compound steam	H. F. Fullagar	696,867	Apr. 1	881	204	99	186
Turbine. Continuous-combustion	M. Beck	698,895	Apr. 29	4783	1052	99	1082
Turbine. Elastic-fluid	H. McCornack	694,980	Mar. 11	1245	272	98	1993
Turbine. Elastic-fluid	C. G. Curtis	700,744	May 27	3201	731	99	1885
Turbine. Elastic-fluid	T. G. E. Lindmark	716,908	Dec. 30	4502	977	101	2850
Turbine engine	H. H. Boyce	693,946	Feb. 25	3292	724	98	1538
Turbine engine	J. H. K. McCollum	715,410	Dec. 9	1436	310	101	2149
Turbine engine	E. F. Cameron	715,753	Dec. 16	2096	470	101	2303
Turbine engine	C. R. Ingham	716,047	Dec. 16	2693	596	101	2430
Turbine engine	S. J. Webb	717,059	Dec. 30	4799	1040	101	2913
Turbine flue-cleaner	J. P. Prentice and R. G. Gregory	708,254	Sept. 2	480	110	100	2978
Turbine. Fluid-pressure	H. F. Fullagar	713,369	Oct. 28	3771	825	101	828
Turbine-gate-balancing device	W. W. Tyler	710,381	Sept. 30	4569	1038	100	2960
Turbine-governor. Automatic	A. C. E. Rateau	712,593	Nov. 4	251	61	101	159
Turbine-governor. Elastic-fluid	D. D. Book	714,094	Nov. 18	3162	701	101	1583
Turbine governor. Elastic-fluid	C. G. Curtis	715,246	Dec. 9	1142	245	101	2987
Turbine. Reversible steam	H. F. Tyzack	712,424	Oct. 28	3898	853	101	856
Turbine. Reversing	G. C. Henning	713,637	Nov. 18	2285	599	101	1307
Turbine. Steam	J. H. Fedeler	700,314	May 20	2366	540	99	1693
Turbine. Steam	J. Burgum. (Reissue)	11,999	June 10	1984	453	90	2533
Turbine. Steam	R. Schulz	707,727	Aug. 26	3324	743	100	1852
Turbine. Steam	R. B. Hewson	708,227	Sept. 2	428	98	100	2069
Turbine. Steam	C. A. Parsons	708,780	Sept. 9	1415	325	100	2282
Turbine. Steam	A. Krank	708,815	Sept. 9	1509	345	100	2302
Turbine. Steam	J. A. Hellweg	713,095	Nov. 11	1199	274	101	1169
Turbine. Steam	M. M. Whitaker	713,261	Nov. 11	1531	346	101	1225
Turbine. Steam	C. Weichelt	714,074	Nov. 18	3127	691	101	1575
Turbine. Steam	R. Wilson	714,627	Nov. 25	4190	926	101	1809
Turbine. Steam	C. E. Sargent	716,765	Dec. 23	4108	902	101	2742
Turbine. Steam	J. Richards	716,936	Dec. 30	4554	988	101	2860
Turbine. Steam or gas	H. Zoelly	705,890	July 29	4951	1077	100	1062
Turbine. Steam or vapor	H. T. Lees	713,997	Nov. 18	2973	662	101	1543

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Turbine. Water-meter.....	J. Schmitz.....	693,807	Feb. 18	3905	664	98	1463
Turbine-wheel.....	J. Nadrowski.....	702,461	June 17	2138	486	99	2385
Turbine wheel support. Steam.....	J. A. Bomgren.....	697,128	Apr. 8	1402	312	99	318
Turbine-wheel support. Steam.....	J. A. Bomgren.....	705,025	July 22	3176	686	100	693
Turbines. Apparatus for controlling the speed of steam.....	G. O. M. Olsson.....	701,500	June 8	395	89	99	2189
Turbines. Apparatus for controlling the speed of steam.....	G. O. M. Olsson.....	705,124	July 22	3378	731 732	100	733
Turbo compressor and pump.....	C. A. Parsons.....	710,884	Oct. 7	920	200 201	101	187
Turn-table.....	C. M. Hampson.....	695,307	Mar. 11	1858	413	98	2118
Turnbuckle.....	J. P. and T. J. Hains.....	716,633	Dec. 23	3888	849	101	2696
Turning and boring apparatus. Elliptical.....	C. J. Montreuil.....	701,217	May 27	4068	936	99	2066
Turning caster-wheels. Machine for.....	A. Smith.....	698,752	Apr. 29	4467	987 988	99	1011
Turning device.....	G. H. Hildreth.....	696,817	Apr. 1	796	182	99	168
Turning irregular forms. Machine for.....	A. Lehmann.....	695,743	Mar. 18	2618	594	98	2293
Turning machine. Wood.....	W. T. Jones.....	696,824	Apr. 1	805	184 185	99	171
Turning machine. Wood.....	W. J. Cochran.....	697,607	Apr. 15	2278	509	99	516
Turnip-heads. Device for cutting off.....	F. von Veltheim-Ostrau.....	716,965	Dec. 30	4616	1000	101	2873
Turpentine-box.....	E. L. Vickers.....	715,529	Dec. 9	1672	365	101	2195
Turret. Revolving.....	P. Hichborn and A. O. Bostrom.....	711,967	Oct. 28	3060	671	101	686
Turret. Superposed.....	T. C. Fenton.....	699,751	May 13	1201	279	99	1434
Turtle-trap.....	E. J. Rusk.....	708,475	July 1	181	48	100	38
Tweezers. Watchmaker's.....	C. A. Bassett.....	696,302	Mar. 25	3708	829	98	2532
Tweezers with shank all in one piece.....	G. Havell.....	699,385	May 6	484	113	99	1274
Twine-cutter.....	I. Shafer.....	703,484	July 1	192	46	100	40
Twine-holder.....	C. J. Lippold.....	698,141	Feb. 11	1720	377	98	1178
Twine-holder.....	G. E. Ernst.....	693,849	Feb. 25	3104	686	98	1502
Twine-holder.....	A. L. and O. Sovellius.....	712,443	Oct. 28	3930	800	101	862
Twine-holder.....	H. B. Lehman.....	712,558	Nov. 4	192	45	100	92
Twine-holder.....	D. E. A. Lundquist.....	713,134	Nov. 11	1255	284	101	1171
Twine-making machine.....	L. J. Monahan and C. Kieren.....	697,411	Apr. 8	1925	425 429	98	472
Twine-reel.....	J. H. Holbrook.....	691,943	Jan. 28	2984	671	99	628
Twisting and spinning fibrous materials. Machine for.....	J. Marshall.....	699,203	May 6	133	34	99	1203
Twisting and winding machine.....	A. S. Horlacher.....	710,459	Oct. 7	111	25	101	24
Twisting machine. Warp.....	W. E. Krey and A. Duppler.....	695,566	Mar. 18	2819	524 525	98	2234
Twyer.....	G. Doan.....	694,004	Feb. 25	3422	754	98	1565
Twyer.....	S. K. Behrend.....	698,431	Apr. 29	3807	840	99	870
Twyer. Converter.....	W. A. Field.....	712,053	Oct. 28	3205	702	101	713
Twyer. Cupola-furnace.....	S. and F. H. Watt.....	697,301	Apr. 8	1714	382	99	355
Twyer. Furnace.....	W. B. Foster.....	698,453	Apr. 29	3212	864	99	892
Twyer. Furnace.....	E. H. Messiter.....	706,332	Aug. 5	659	143	100	1248
Tying device. Parcel.....	J. S. Dean and W. H. Thomas.....	706,034	Aug. 5	60	13	100	1130
Tympan. Running or shifting.....	H. F. Bechman.....	694,907	Mar. 4	1094	242	98	1943
Tympan-surface bed.....	A. S. Allen.....	705,012	July 22	3156	681	100	689
Type-bar. Composite.....	L. A. Brott.....	694,308	Feb. 25	4047	899	98	1683
Type-bar for matrix-plates. Master.....	J. R. Reynolds.....	707,523	Aug. 19	2890	654	100	1746
Type-bars. Production of.....	L. A. Brott.....	694,909	Feb. 25	4048	317	98	1683
Type-carrier action and means for mounting same.....	F. X. Wagner.....	704,152	July 8	1482	318	100	311
Type-casting.....	H. Barth.....	708,010	Sept. 2	18	4	100	1985
Type casting and composing apparatus.....	H. J. S. Gilbert-Stringer.....	690,720	Jan. 7	697	152 153 154 155	98	147
Type casting and composing machines. Omitting means for automatic.....	W. Ackerman.....	715,233	Dec. 9	1121	241	101	2083
Type casting and setting machine.....	G. A. Goodson.....	705,341	July 22	3885	840 841	100	835
Type casting and setting machine.....	J. C. and J. C. Fowler, Jr.....	705,525	July 22	4249	921 922	100	908
Type-casting machine.....	F. Lucke.....	697,859	Apr. 15	2742	609 610	99	615
Type-casting-machine matrix-carrier.....	G. H. Ziegler.....	691,226	Jan. 14	1594	363 364	98	347
Type-casting-machine squirt-preventer.....	G. A. Goodson.....	702,941	June 24	3052	702 703	99	2791
Type-casting. Metal-pump for.....	F. Wicks. (Reissue).....	12,017	July 22	4337	928	100	924
Type-casting or other machines. Record-strip-feeding mechanism of automatic.....	J. S. Bancroft.....	700,291	May 20	2310	526	99	1683
Type-channel holder.....	A. A. Low and J. Breakey.....	694,488	Mar. 4	279	63	98	1771
Type-chase for making matrix-plates.....	J. R. Reynolds.....	707,522	Aug. 19	2887	654	100	1745
Type-cleaning device.....	J. T. Cawthorn.....	694,136	Feb. 25	3655	808	98	1612
Type-composing machine.....	T. Lanston.....	700,341	May 20	2415	551 552	99	1704
Type-composing machine for tabular matter.....	W. Kemp, Jr.....	700,336	May 20	2406	549	99	1702
Type-composing machines. Automatic leader for.....	J. S. Bancroft and M. C. Indahl.....	700,288	May 20	2298	524 525	99	1681
Type-containing channel.....	L. K. Johnson and A. A. Low.....	694,481	Mar. 4	266	60	98	1769
Type-containing channel.....	L. K. Johnson and A. A. Low.....	699,390	May 6	505	117	99	1279
Type-containing channel.....	L. K. Johnson and A. A. Low.....	708,645	Sept. 9	1164	264 265	100	2228
Type-distributing apparatus.....	A. A. Low and J. Breakey.....	692,853	Feb. 11	1211	268	98	1073
Type-distributing apparatus.....	A. A. Low and J. Breakey.....	699,402	May 6	526	121	99	1283
Type-distributing apparatus.....	J. Breakey.....	702,621	June 17	2440	557	99	2647
Type-distributing apparatus.....	A. A. Low.....	710,066	Sept. 30	4007	904 905	100	2866



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Type-distributing machine .....	P. E. Hodgkin and G. E. Kenney .....	701,881	June 10	1069	241 242 243	99	2347
Type-distributing machine .....	J. Hinklein .....	702,555	June 17	2302	524 525	99	2619
Type. Font of .....	G. A. Goodson .....	696,734	Apr. 1	643	145	99	138
Type. Font of .....	J. F. Ames .....	715,936	Dec. 16	2489	548	101	2387
Type for printing calendars. Set of .....	J. L. Carroll .....	701,677	June 3	720	158	99	2359
Type for type-writing or printing .....	B. P. Tchekassov and R. E. Hill .....	694,229	Nov. 25	4179	325	101	1847
Type-founding matrix .....	G. A. Goodson .....	696,733	Apr. 1	642	145	99	138
Type-justifying machine .....	F. McClintock .....	693,145	Feb. 11	1726	378 379 380 381	98	1179
Type-justifying machine .....	J. Watson .....	695,917	Mar. 11	1308	289	98	2406
Type-justifying machine .....	F. McClintock .....	700,699	May 20	3085	701	99	1847
Type-justifying machine .....	F. McClintock .....	700,700	May 20	3087	702	99	1847
Type-justifying machine .....	F. McClintock .....	700,701	May 20	3098	702	99	1848
Type-justifying machine .....	J. Watson .....	700,712	May 20	3121	709	99	1853
Type-justifying machine .....	F. Holdsworth .....	701,811	June 3	940	209	99	2305
Type-justifying machine .....	F. McClintock and F. Holdsworth .....	702,459	June 17	2135	485	99	2385
Type-line composing and casting device .....	Z. Halacinski .....	694,229	Feb. 25	3916	386	98	1063
Type-line-detaching mechanism .....	L. K. Johnson and A. A. Low .....	710,057	Sept. 30	3995	901	100	2963
Type-machine composing mechanism .....	T. Lanston .....	702,568	June 17	2337	535 536 537	99	2626
Type-machine pump-actuating mechanism .....	J. S. Bancroft .....	700,290	May 20	2308	526	99	1683
Type-magazine .....	L. A. Brott .....	694,510	Feb. 25	4049	531	98	1683
Type-mold .....	H. J. S. Gilbert-Stringer .....	691,619	Jan. 21	2362	532	98	525
Type or matrices. Device for justifying lines of .....	W. Berri .....	697,968	Apr. 22	2043	648 649 674	99	675
Type setting and justifying machine .....	F. A. Johnson .....	716,236	Dec. 16	3085	675 676 677	101	2512
Type setting and justifying machine .....	F. B. Converse, Jr. ....	717,169	Dec. 30	5011	1087 1088 1089 1090 1091 1092	101	2598
Type-setting machine .....	A. V. Ruckmich .....	693,445	Feb. 18	2316	508 509 510	98	1323
Type-setting machine .....	F. McClintock .....	702,458	June 17	2131	484 485	99	2584
Type-setting machine .....	E. Terrell and F. A. Ray .....	703,017	June 24	3196	736	99	2821
Type-setting machine .....	F. B. Converse, Jr. ....	717,170	Dec. 30	5040	1092	101	2965
Type-setting machine .....	F. B. Converse, Jr. ....	717,171	Dec. 30	5044	1094	101	2966
Type-setting-machine key mechanism .....	F. McClintock .....	702,457	June 17	2130	484	99	2583
Type-setting or linotype machines. Composing mechanism of .....	A. Bean .....	691,583	Jan. 21	2280	514 515	98	511
Type-stick. Compositor's .....	L. K. Johnson .....	708,646	Sept. 9	1165	265	100	2229
Type-writer .....	C. E. Peterson .....	690,460	Jan. 7	140	30	98	32
Type-writer .....	T. Consentino and F. Palumbo .....	691,601	Jan. 21	2326	523 523	98	519
Type-writer .....	J. C. Lotterhand .....	692,793	Feb. 4	1021	231 232 408	98	1005
Type-writer .....	F. H. Armstrong .....	693,208	Feb. 11	1891	409 410	98	1211
Type-writer .....	F. Lambert .....	693,278	Feb. 11	2005	436	98	1236
Type-writer .....	E. R. Pastre .....	693,435	Feb. 18	2304	504	98	1320
Type-writer .....	J. S. Du Bois .....	694,464	Mar. 4	242	53, 54	98	1764
Type-writer .....	J. B. Vidal .....	695,251	Mar. 11	1747	386	98	2097
Type-writer .....	N. L. Anderson .....	695,779	Mar. 18	2686	610 611	98	2398
Type-writer .....	W. Erwin .....	696,166	Mar. 25	2458	775	98	2482
Type-writer .....	W. J. Thompson and P. Becker .....	696,304	Mar. 25	3711	829 830	98	2533
Type-writer .....	C. E. Maxwell .....	696,833	Apr. 1	821	189 190	99	174
Type-writer .....	J. W. Paul .....	697,394	Apr. 8	1857	416 417	99	415
Type-writer .....	A. R. Free .....	698,487	Apr. 29	3914	865	99	892
Type-writer .....	F. H. Fry .....	699,239	May 6	318	73	99	1239
Type-writer .....	T. B. Austin .....	699,473	May 6	656	153	99	1312
Type-writer .....	C. J. Paulson .....	703,062	June 24	3329	766	99	2846
Type-writer .....	W. H. Young .....	703,689	July 1	536	130 131	100	116
Type-writer .....	J. D. Griffen .....	704,535	July 15	2205	477 478	100	477
Type-writer .....	C. Sears .....	706,858	Aug. 12	1661	372	100	1474
Type-writer .....	W. H. Campbell .....	707,548	Aug. 26	2956	669	100	1776
Type-writer .....	W. Hunt .....	709,152	Sept. 16	2133	500	100	2461
Type-writer .....	J. E. Neahr .....	709,678	Sept. 23	3240	724	100	2694
Type-writer .....	J. A. Smith .....	711,358	Oct. 14	1854	404	101	401
Type-writer .....	H. Kochendorfer .....	711,727	Oct. 21	2561	562 563 564	101	564
Type-writer .....	J. C. Lotterhand .....	712,944	Nov. 4	906	211 212	101	1082

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Type-writer	J. C. Lotterhand	712,945	Nov. 4	910	212	101	1088
Type-writer	J. C. Lotterhand	713,009	Nov. 4	1015	238	101	1108
Type-writer	H. Marshall	713,468	Nov. 11	1933	437	101	1311
Type-writer	O. Schultz	713,695	Nov. 18	2391	533	101	1419
Type-writer	C. Spiro	714,252	Nov. 25	3486	799	101	1670
Type-writer	G. W. Disher	716,687	Dec. 23	3975	870	101	2712
Type-writer addressing attachment	C. L. Downey	698,469	Apr. 29	3885	858	99	886
Type-writer alinement mechanism	C. Sears	691,189	Jan. 14	1528	345	98	333
Type-writer attachment	J. S. Flanders	700,755	May 27	3231	740	99	1891
Type-writer attachment	C. F. Eckert	716,011	Dec. 16	2633	580	101	2415
Type-writer cabinet	W. Horrocks	696,565	Apr. 1	310	73	99	70
Type-writer cabinet	J. E. Anderson	705,509	July 22	4190	911	100	895
Type-writer card-holder	L. S. Burridge and S. T. Smith	706,524	Aug. 13	1087	228	100	1340
Type-writer carriage mechanism	C. Sears	710,393	Sept. 30	4621	1042	100	2995
Type-writer copy-holder	F. E. Grove	700,117	May 13	1894	440	99	1577
Type-writer copy-holder	E. A. Holritz	708,554	Sept. 9	995	225	100	2194
Type-writer copy-holding device	E. W. Forney	698,124	Feb. 11	1689	368	98	1172
Type-writer cover	H. P. Childress	704,237	July 8	1625	351	100	339
Type-writer-cover hook	E. A. Smith	706,350	Aug. 5	694	151	100	1255
Type-writer. Direct-key-lever	A. C. Ferguson	717,374	Dec. 30	5386	1171	101	3039
Type-writer. Electrical	C. Gibbs	710,264	Sept. 30	4399	990	100	2949
Type-writer. Electrically-printing	B. A. Brooks	699,784	May 13	1265	293	99	1447
Type-writer escapement mechanism	W. G. Babcock	702,613	June 17	2429	554	99	2615
Type-writer hammer mechanism	S. J. Seifried	704,218	July 8	1595	346	100	334
Type-writer key. Adjustable	J. B. Hammond	701,563	June 3	511	112	99	2214
Type-writer keyboard	F. Lambert	693,277	Feb. 11	2004	436	98	1236
Type-writer line-spacing mechanism	E. S. Shimer	701,096	May 27	3849	884	99	2020
Type-writer line-spacing mechanism	F. X. Wagner	708,600	Sept. 9	1070	242	100	2309
Type-writer line-spacing mechanism	W. B. Howell, Jr	712,538	Nov. 4	150	36	101	1422
Type-writer or analogous key cap	W. B. Savell	695,772	July 29	4693	1007	100	997
Type-writer pad	R. E. Revalk	690,772	Jan. 7	783	173	98	165
Type-writer paper-guide	A. Swindlehurst	691,503	Jan. 21	2155	483	98	484
Type-writer ribbon-feed mechanism	W. J. Kauffman	691,778	Jan. 28	2680	603	98	613
Type-writer support for desks, &c	J. W. Frizzell	692,632	Feb. 4	762	175	98	935
Type-writer table. Book-	F. W. Hillard	695,725	Mar. 18	2589	585	98	2287
Type-writer tabulating attachment	J. A. Garland, Jr	691,130	Jan. 14	1421	322	98	311
Type-writer tabulating-scale	C. L. Dahlberg	691,896	Jan. 28	2899	653	98	655
Type-writer type-bar aliner	J. Alexander	714,091	Nov. 18	3158	699	101	1582
Type-writer type-bar and support	C. Spiro	708,270	Sept. 2	513	116	100	2085
Type-writer type-bar mechanism	G. H. Smith	713,703	Nov. 18	2404	536	101	1422
Type-writer type-holder	L. H. Mallin	709,341	Sept. 16	2695	577	100	2541
Type-writer word-counter	R. Allen	717,151	Dec. 30	4970	1078	101	2950
Type-writer's chair	F. Chichester	712,495	Nov. 4	56	15	101	909
Type-writer's copy-holder	A. Ryden	704,119	July 8	1415	303	100	298
Type-writers. Envelop-feeding attachment for	E. H. Reynolds	699,975	May 13	1649	378	99	1528
Type-writers. Paper-feeding machine for	H. C. Tobey	706,282	Aug. 5	566	122	100	1290
Type-writers. Ribbon-shifting attachment for book	J. E. Poage	711,070	Oct. 14	1297	240	101	282
Type-writing and adding machine	J. C. Wolfe	698,614	Apr. 29	4168	917	99	943
Type-writing clavier	C. Edwards	700,906	May 27	3505	804	99	1947
Type-writing machine	R. J. Fisher	690,714	Jan. 7	674	148	98	143
Type-writing machine	R. J. Fisher	690,715	Jan. 7	689	150	98	146
Type-writing machine	W. J. Kauffman	691,776	Jan. 28	2688	601	98	611
Type-writing machine	W. J. Kauffman	691,777	Jan. 28	2687	602	98	612
Type-writing machine	C. D. Shaeffer	692,370	Feb. 4	270	603	98	855
Type-writing machine	F. W. Hillard	692,664	Feb. 4	790	180	98	961
Type-writing machine	T. L. Knapp	693,033	Feb. 11	1492	326	98	1133
Type-writing machine	C. E. Peterson	694,073	Feb. 25	3552	783	98	1591
Type-writing machine	B. C. Stickney	694,117	Feb. 25	3624	802	98	1605
Type-writing machine	P. T. Dodge	694,537	Mar. 4	392	86	98	1796
Type-writing machine	W. J. Barron	694,602	Mar. 4	512	111	98	1822
Type-writing machine	R. Beger	695,999	Mar. 25	3092	701	98	2405
Type-writing machine	J. Felbel and C. Gabrielson	696,137	Mar. 25	3389	764	98	2469
Type-writing machine	G. J. Barrett	697,430	Apr. 15	1970	506	99	454
Type-writing machine	L. S. Burridge	697,605	Apr. 15	3275	508	99	515
Type-writing machine	C. H. Shepard	697,676	Apr. 15	2411	536	99	541
Type-writing machine	F. Sholes	697,678	Apr. 15	2416	537	99	542
Type-writing machine	B. C. Stickney	698,151	Apr. 22	3310	724	99	740
Type-writing machine	W. P. Quentell	698,318	Apr. 22	3609	736	99	812
Type-writing machine	L. Sholes	698,749	Apr. 29	4463	985	99	1010
Type-writing machine	H. S. Shafer	698,864	Apr. 29	4722	1040	99	1070
Type-writing machine	Z. G. Sholes	699,250	May 6	211	50	99	1217
Type-writing machine	R. Horstmann and W. Wendt	699,325	May 6	370	52	99	1249



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr.-g.	Vol.	Page.
Type-writing machine	F. X. Wagner	699,354	May 6	428	98	99	1261
Type-writing machine	H. Jarvis	699,389	May 6	502	116	99	1279
Type-writing machine	J. Felbel and C. Gabrielson	699,796	May 13	1286	297	99	1452
Type-writing machine	C. H. Shepard	700,445	May 20	2611	597	99	1744
Type-writing machine	J. E. Neahr	700,973	May 27	3623	832	99	1971
Type-writing machine	G. W. Coffman	702,706	June 17	2595	598	99	2690
Type-writing machine	C. H. Shepard	702,748	June 17	2675	615	99	2696
Type-writing machine	J. Felbel and C. Gabrielson	703,339	June 24	3783	871	99	2938
Type-writing machine	M. W. Weir	708,509	July 1	237	55, 56	100	49
Type-writing machine	G. B. Webb	708,866	July 1	940	198	100	180
Type-writing machine	R. M. Bullard	708,987	July 8	1145	249	100	243
Type-writing machine	T. D. Robinson	704,112	July 8	1398	301	100	294
Type-writing machine	N. C. Darrow	704,242	July 8	1632	353	100	341
Type-writing machine	J. E. Neahr	705,281	July 22	3726	809	100	802
Type-writing machine	W. W. Morrison	705,423	July 22	4028	873	100	865
Type-writing machine	C. F. Laganke	705,585	July 22	4280	925	100	914
Type-writing machine	T. Cahill	705,559	July 29	4355	943	100	942
Type-writing machine	C. W. Howell, Jr	705,587	July 29	4403	955	100	952
Type-writing machine	E. B. Cram	706,025	Aug. 5	37	8, 9	100	1124
Type-writing machine	M. W. Weir	706,136	Aug. 5	249	53	100	1169
Type-writing machine	E. B. Cram	706,640	Aug. 12	1234	274	100	1382
Type-writing machine	W. R. Fox and G. J. Barrett	706,749	Aug. 12	1454	320	100	1429
Type-writing machine	E. M. Bennett	707,817	Aug. 26	3541	799	100	1894
Type-writing machine	J. H. Vink	707,882	Aug. 26	3676	827	100	1920
Type-writing machine	R. J. Fisher	708,213	Sept. 2	403	99, 94	100	2064
Type-writing machine	W. J. Barron	708,792	Sept. 9	1450	332	100	2291
Type-writing machine	S. L. W. Merlin	708,821	Sept. 9	1521	348	100	2304
Type-writing machine	J. Felbel	709,088	Sept. 16	2067	474	100	2435
Type-writing machine	M. S. Eylar	709,893	Sept. 30	3689	831	100	2798
Type-writing machine	C. F. Hopkins	709,906	Sept. 30	3709	836	100	2802
Type-writing machine	G. H. Williams	710,089	Sept. 30	4062	915	100	2877
Type-writing machine	E. V. Baillard	710,401	Oct. 7	4	1, 2, 3	101	4
Type-writing machine	C. H. Shepard	710,812	Oct. 7	804	173	101	165
Type-writing machine	J. Moore	711,517	Oct. 21	2153	469	101	478
Type-writing machine	C. H. Shepard	712,607	Nov. 4	278	60	101	956
Type-writing machine	H. Jarvis and M. H. Blakeslee	712,933	Nov. 4	879	205	101	1077
Type-writing machine	F. W. Hillard	713,434	Nov. 11	1870	207	101	1298
Type-writing machine	W. P. Quentell	713,685	Nov. 18	2372	528	101	1415
Type-writing machine	H. Jarvis	714,186	Nov. 25	3375	743	101	1646
Type-writing machine	W. J. Barron	715,943	Dec. 16	2499	551	101	2390
Type-writing machine	C. Gabrielson	716,701	Dec. 23	4062	876	101	2718
Type-writing machine	C. H. Shepard	716,770	Dec. 23	4124	905	101	2745
Type-writing machine	R. W. Uhlig	717,144	Dec. 30	4951	1075	101	2945
Type-writing machine	G. B. Webb	717,149	Dec. 30	4964	1077	101	2948
Type-writing machine	A. W. Cash	717,347	Dec. 30	5340	1162	101	3030
Type-writing machine	W. P. Quentell	717,506	Dec. 30	5628	1222	101	3087
Type-writing-machine accounting attachment	O. L. Ingram	705,409	July 22	4004	867	100	860
Type-writing-machine adding attachment	A. Hoch	696,141	Mar. 25	3404	766	98	2472
Type-writing-machine attachment	W. C. Black	714,132	Nov. 25	3237	715	101	1618
Type-writing-machine attachment	C. R. Kelly	716,719	Dec. 23	4080	888	101	2724
Type-writing-machine attachment	C. R. Kelly	716,720	Dec. 23	4082	888	101	2725
Type-writing-machine card or sheet holding attachment.	R. J. Fisher and H. F. Eckert	700,138	May 13	1968	452	99	1590
Type-writing-machine card or sheet platen	R. J. Fisher	709,005	Sept. 16	1889	433	100	2398
Type-writing-machine carriage-feed mechanism	C. W. Howell, Jr	702,950	June 24	3069	706	99	2794
Type-writing-machine copy-holder and line-indicator.	F. C. Shobert	697,895	Apr. 15	2804	620	99	628
Type-writing-machine erasure-plate	E. T. Reed	717,275	Dec. 30	5218	1133	101	3003
Type-writing-machine feeding attachment	M. S. Eylar	707,220	Aug. 19	2333	521	100	1630
Type-writing-machine inking device	P. F. Nilson	702,740	June 17	2659	612	99	2693
Type-writing-machine intermediate line-spacing device.	J. A. Garland, Jr	716,215	Dec. 16	3053	666	101	2506
Type-writing-machine letter or space indicating scale.	C. R. Hoag	699,524	May 6	741	173	99	1328
Type-writing-machine line-spacing-lock mechanism	R. J. Fisher	708,954	July 1	1065	231	100	212
Type-writing-machine line-spacing mechanism	C. F. Laganke	708,961	July 1	1086	235	100	216
Type-writing-machine paper-guide	T. Oliver	693,057	Feb. 11	1547	337	98	1144
Type-writing-machine platen	R. J. Fisher	705,521	July 22	4220	917	100	902

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Type-writing-machine platens. Follower-plate for.	C. F. Laganke	704,479	July 8	2081	451	100	437
Type-writing-machine ribbon-fastener.	F. O. Garrison	707,098	Aug. 19	2101	469	100	1580
Type-writing-machine ribbon-guide.	E. J. Manning	702,447	June 17	2111	480	99	2579
Type-writing-machine ribbon mechanism.	L. S. Burridge	692,235	Feb. 4	233	7	98	1105
Type-writing-machine spacing attachment.	E. V. Beards	700,608	May 20	2305	668	99	1805
Type-writing-machine spacing mechanism.	L. Schlesinger and G. W. Young	714,323	Nov. 25	3985	883	101	1766
Type-writing-machine support.	C. W. Boyd	710,561	Oct. 7	319	70	101	65
Type-writing-machine. Traveling.	R. S. Shaw	702,493	June 17	2204	502	99	2589
Type-writing-machine type-cleaning device.	J. A. Whiting	692,954	Feb. 11	1302	236	98	1105
Type-writing-machine word-counting attachment.	H. B. Cary	701,840	June 10	991	221	99	2382
Type-writing-machine work-gage.	C. F. Laganke	705,537	July 22	4290	928	100	916
Type-writing-machine work gage and clamp.	C. F. Laganke	705,536	July 22	4284	926	100	915
Type-writing-machine work-gage attachment.	H. J. Halle	705,527	July 22	4265	922	100	911
Type-writing machines. Carbon-roll billing-platen for.	R. J. Fisher and R. D. Stackpole.	705,524	July 22	4240	920	100	906
Type-writing machines. Ribbon-feeding mechanism for.	R. J. Fisher	705,523	July 22	4234	919	100	905
Type-writing machines. Transfer or carbon paper for.	H. B. Wilson	701,443	June 3	284	63	99	2166
Type-writing or other like machine.	M. C. Cornell	694,354	Mar. 4	22	5, 6	98	1717
					886		
					887		
Types and type-bars. Machine for the production of.	L. A. Brott	694,306	Feb. 25	3976	888	98	1677
					889		
					890		
					891		
					891		
					892		
					893		
					894		
Types and type-bars. Machine for the production of.	L. A. Brott	694,307	Feb. 25	4007	895	98	1681
					896		
					897		
					898		
					899		
					997		
Types or matrices. Mechanism for justifying lines composed of	E. Müllendorff	705,693	July 29	4597	998	100	990
					999		
Umbrella.	H. Keller and F. J. Gallagher	695,733	Mar. 18	2605	591	98	2290
Umbrella.	E. M. Zeek	709,624	Sept. 23	5147	701	100	2674
Umbrella.	C. D. Dollison	711,949	Oct. 28	3026	665	101	679
Umbrella-cover fastening.	A. G. Stouder	699,424	May 6	575	130	99	1293
Umbrella drip-cup.	P. W. Pray	703,823	July 1	832	183	100	166
Umbrella. Folding.	J. A. Ekelund	698,396	Apr. 22	3744	827	99	841
Umbrella. Folding.	W. O. Whitney	699,731	May 13	1158	270	99	1421
Umbrella. Folding.	A. and F. Schaefer	707,451	Aug. 19	2757	625	100	1718
Umbrella. Folding.	U. G. Deakins	717,175	Dec. 30	5053	1095	101	2968
Umbrella-frame.	S. S. Fretz	703,910	July 1	988	215	100	197
Umbrella-geat.	S. S. Fretz	691,061	Jan. 14	1301	295	98	286
Umbrella-geat.	S. S. Fretz	694,957	Mar. 11	1198	262	98	1982
Umbrella-handle. Detachable.	F. C. Hull	693,712	Feb. 18	2843	626	98	1429
Umbrella-holder.	M. Taussig	716,596	Dec. 23	3818	828	101	2680
Umbrella-notch.	W. W. Climenson and W. D. Winger.	710,426	Oct. 7	50	12	101	12
Umbrella-rack. Folding.	A. W. Magersans	710,790	Oct. 7	761	162	101	156
Umbrella-rib and stretcher-joint.	S. J. Evans	698,367	Apr. 22	3332	778	99	738
Umbrella-rib and stretcher-joint.	C. MacMillan	710,328	Sept. 30	4506	1015	100	2972
Umbrella-rib and stretcher-joint.	W. W. Climenson and W. D. Winger.	710,427	Oct. 7	53	12	101	13
Umbrella-runner.	S. J. Evans	694,623	Mar. 4	547	119	98	1829
Umbrella-runner.	S. J. Evans	694,624	Mar. 4	548	120	98	1829
Umbrella-runner.	W. W. Kenney and J. W. Fogier.	707,237	Aug. 19	2360	527	100	1636
Umbrella-runner.	W. H. Gaskill	707,838	Aug. 26	3591	811	100	1903
Umbrella-rib and stretcher-joint.	W. S. Seymour	704,128	July 8	1484	307	100	302
Umbrella-runner retainer.	W. M. Maxwell	711,061	Oct. 14	1271	276	101	277
Umbrella-stick.	F. C. Hull	693,711	Feb. 18	2842	626	98	1429
Umbrella-stick.	T. H. Smith	706,352	Aug. 5	696	152	100	1257
Umbrella-support.	H. N. Thayer	693,758	Feb. 18	2920	642	98	1446
Umbrella-support.	A. J. Pfleger	694,888	Mar. 4	1062	234	98	1936
Umbrella-support.	J. H. Sprague	697,687	Apr. 15	2432	541	99	1445
Umbrella-tip.	W. S. Seymour	693,745	Feb. 18	2843	626	98	1429
Umbrella-tip retainer.	B. M. Shalton	702,492	June 17	2203	502	99	2599
Uncoupling device.	H. Bruns	705,735	July 29	4686	1014	100	1007
Undergarment.	F. J. Prue	699,896	May 13	1504	345	99	1500
Undergarment.	E. Niederauer	700,801	May 27	3312	760	99	1909
Undergarment.	F. J. Prue	711,071	Oct. 14	1299	281	101	283
Underreamer.	P. H. Mack	694,400	Mar. 4	125	26	98	1739
Underreamer.	J. C. Swan	717,469	Dec. 30	5562	1208	101	3074
Underskirt. Lady's.	C. L. Hermann	706,235	Aug. 5	449	95	100	1308
Undervest and corset-cover. Combined.	C. Dufour	707,558	Aug. 26	2977	672	100	1780
Unhitching device for animals, and fire escape and extinguisher. Automatic	G. P. Neal	700,225	May 20	2177	498	99	1656
Universal coupling.	A. G. Mather	709,992	Sept. 30	3883	875	100	2839
Universal joint.	A. Vivinus	693,577	Feb. 18	2590	573	98	1378
Universal joint.	A. Venderbeek	698,159	Apr. 22	3331	727	99	754
Universal joint.	J. Jetter	699,180	May 6	97	24	99	1195
Universal joint.	H. C. Warren	699,904	May 13	1517	349	99	1502
Universal joint.	A. A. Pixley	700,369	May 20	2474	567	99	1716
Universal joint.	R. W. Pittman	714,327	Nov. 25	3642	802	101	1700
Universal joint for shafting.	J. L. Pollett	706,403	Aug. 5	808	176	100	1277
Universal union or coupling.	G. S. Lee	714,311	Nov. 25	3616	795	101	1694



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &	Vol.	Page.
Unloading apparatus	M. Parker	691,969	Jan. 28	3033	681	98	682
Unloading apparatus	G. H. Hulett	694,383	Mar. 4	92	30, 21	98	1731
Unloading apparatus	F. H. Treat	710,224	Sept. 30	4334	874 875 583	100	2386
Unloading apparatus	F. H. Kindl	711,772	Oct. 21	2649	584 585 586	101	583
Unloading apparatus. Vessel-	C. H. Woodruff	700,280	May 20	2283	521	99	1678
Unloading mechanism. Vehicle-	V. R. Browning	711,714	Oct. 21	2532	556	101	558
Unloading scows, &c. Apparatus for.	T. P. Payne	702,029	June 10	1340	306	99	2400
Upholstering-clip	H. J. Jacobs	704,542	July 15	2217	480	100	479
Upholstering-machine	H. C. Jones	702,960	June 24	3085	710 711	99	2797
Upholstering-machine	H. C. Jones	702,961	June 24	3091	711 712	99	2799
Upholstering-machine	H. C. Jones	702,962	June 24	3098	713 714	99	2801
Upholstering-machine button-holder	P. Boller	704,501	July 15	2131	461	100	461
Upholstery	A. Freschl	693,644	Feb. 18	2717	599	98	1405
Upholstery apparatus	A. Freschl	691,337	Jan. 28	1971	668	98	669
Upholstery spring-support	C. Bush	715,015	Dec. 2	721	153	101	1982
Upholstery work. Spring-	C. S. Ellis	692,387	Feb. 11	1102	462 463 464 465	98	1050
Upper-folding machine	Q. W. and I. E. Booth	695,438	Mar. 18	2056	463 464 465	98	2180
Urnal	B. Taylor	698,419	Apr. 22	3781	834	99	849
Urnal	H. D. Jones	706,566	Aug. 12	1102	244	100	1354
Urine-receptacle	W. G. Jones	703,400	Feb. 18	3243	90	99	3865
Uterine-packer attachment	J. E. Fuller	700,139	May 13	1973	453	99	1501
Vaccinating-tool	E. M. Houghton	715,661	Dec. 9	1911	427	101	2244
Vaccination-shield	J. C. Peacock	695,761	Mar. 18	2650	602	98	2300
Vaccination-shield	H. K. Mulford	703,290	June 24	3700	852	99	2921
Vaccination-shield	N. Omsted and M. Iversen	713,488	Nov. 11	1964	444	101	1317
Vaccination-shields. Detachable fastening for	E. S. Oliver	702,741	Feb. 17	2662	613	99	2693
Vaccinations, &c. Shield for	E. E. Lee	697,437	Apr. 15	2342	39	99	3238
Vaccine-container	H. M. Alexander	710,234	Sept. 30	3350	977	100	2939
Vaccine-shield	G. M. Beringer	695,270	Mar. 11	1776	393	98	2103
Vacuum-gage	J. Patten	701,383	June 3	179	39	99	2145
Vacuum-pan	G. L. Ribaud	697,366	Apr. 8	1811	405 406	99	405
Vacuum-pan	M. Ekenberg	711,719	Oct. 21	2542	559	101	560
Vaginal injector	A. Anderson and M. B. S. B. Pack- ness.	705,371	July 22	3939	833	100	846
Vaginal irrigator	H. W. Westlake	693,358	Feb. 11	2153	473	98	1298
Valise, hand-bag, or suit-case	S. D. Chapman	702,403	June 17	2021	460 461	99	2550
Valise. Telescoping	T. A. Wilkinson	701,440	June 3	279	62	99	2165
Valise. Telescoping	C. A. Bodwell, Jr.	710,037	Sept. 30	3956	692	100	2855
Valve	A. H. Marscher	691,400	Jan. 21	1976	443	98	446
Valve	R. H. Dixon	692,252	Feb. 4	302	73	98	862
Valve	C. A. Jacoby	692,293	Feb. 4	315	32	98	826
Valve	A. Wagner	692,391	Feb. 4	302	73	98	862
Valve	F. Gray	693,321	Feb. 11	2079	454	98	1252
Valve	F. E. Howland	694,477	Mar. 4	259	58	98	1767
Valve	J. Tremblay	694,502	Mar. 4	297	68, 69	98	1775
Valve	H. M. Ware	695,016	Mar. 11	1306	289	98	3006
Valve	P. Richmond	695,234	Mar. 11	1719	381	98	3061
Valve	N. Obolenskii	695,333	Mar. 11	1892	421	98	2125
Valve	O. O. Storie	695,589	Mar. 18	2358	534	98	2242
Valve	S. Wilson	696,615	Apr. 1	405	94	99	89
Valve	W. P. Skiffington	697,284	Apr. 8	1684	376	99	379
Valve	W. F. Singer	697,680	Apr. 15	2419	538	99	543
Valve	C. W. Hunt	698,504	Apr. 29	3940	870	99	897
Valve	J. J. Rylands	699,818	May 13	1330	308	99	1461
Valve	J. J. Rylands	701,509	June 3	408	92	99	2192
Valve	E. Webb	702,266	June 10	1761	402	99	2488
Valve	J. W. Nethery	702,326	June 10	1865	424	99	2507
Valve	W. and L. W. Gates	702,417	June 17	2053	468	99	2567
Valve	C. P. Lynch	703,963	July 1	1097	236	100	218
Valve	N. Z. Norrington	704,087	July 8	1334	291	100	279
Valve	S. B. Moffitt and C. O. Weisenburger	704,513	July 15	2394	531	100	1461
Valve	J. H. Koch	707,337	Aug. 19	2557	577	100	1676
Valve	B. Ivor and J. S. Ward	708,145	Sept. 2	272	65	100	2037
Valve	J. H. Bickford	708,990	Sept. 16	1855	426 427	100	2391
Valve	E. G. Watrous	710,129	Sept. 30	4150	935	100	2895
Valve	P. E. Gonon	710,450	Oct. 7	95	21	101	21
Valve	J. A. Arnold	710,738	Oct. 7	941	134	101	131
Valve	H. E. Keyes	711,216	Oct. 14	1591	341	101	345
Valve	S. George	711,304	Oct. 14	1760	381	101	381
Valve	R. Meyer	711,780	Oct. 21	2666	588	101	586
Valve	W. A. Smith	711,792	Oct. 21	2687	592	101	590
Valve	J. T. Dehekker	712,268	Oct. 28	3601	786	101	792
Valve	J. T. Williamson	712,350	Oct. 28	3742	818 819	101	822
Valve	J. H. Bickford	712,485	Nov. 4	39	11	101	905
Valve	C. H. Stainton, P. M. Armstrong, and J. H. Prowse.	714,410	Nov. 25	3785	836	101	1728
Valve	C. O. Rowley	714,747	Dec. 2	187	38	101	1875
Valve	W. Meredith	715,108	Dec. 2	884	189	101	2017
Valve	W. Heston	715,266	Dec. 9	1175	251	101	2095
Valve	W. Heston	715,578	Dec. 9	1769	392	101	2214

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Valve.....	J. H. Bickford.....	715,745	Dec. 16	2078	466	101	2299
Valve.....	W. Cooper.....	715,758	Dec. 16	2108	472	101	2306
Valve.....	L. Ehrhard.....	717,365	Dec. 30	5373	1168	101	3037
Valve-actuating means for blowing-engines	C. O. Lindroth.....	683,614	Feb. 18	2659	587	98	1392
Valve. Air and vacuum.....	E. P. Allen.....	703,886	July 1	937	205	100	188
Valve. Air-brake.....	F. Strattner.....	708,092	Sept. 2	166	39	100	2015
Valve. Air-compressor.....	F. M. Metcalf.....	713,661	Nov. 18	2326	519	101	1406
Valve. Air-compressor.....	E. Reynolds.....	717,029	Dec. 30	4744	1028	101	2901
Valve. Air-compressor relief.....	A. Giesler.....	714,295	Nov. 25	3593	790	101	1690
Valve. Air-cushion.....	J. W. Cregar.....	696,009	Mar. 25	3022	705	98	2411
Valve. Air-escape.....	A. Grevet.....	698,012	Apr. 22	3032	665	99	693
Valve. Air-relief.....	M. P. Osbourn.....	693,431	Feb. 18	2298	508	98	1318
Valve. Alarm.....	P. Evans.....	714,884	Dec. 2	494	104	101	1935
Valve and alarm.....	F. Gray.....	693,320	Feb. 11	2076	454	98	1251
Valve and alarm.....	F. Gray. (Reissue).....	11,988	May 13	2035	464	99	1604
Valve and alarm. Fluid-operated stop.....	B. M. W. Hanson.....	711,398	Oct. 14	1920	415	101	415
Valve and device for operating same. Boiler-feed-regulating	H. Cook.....	699,150	May 6	43	12	99	1185
Valve and packing. Plunger.....	T. Grant.....	714,298	Nov. 25	3598	791	101	1691
Valve and switch apparatus. Combined.....	E. C. Garland.....	696,630	Apr. 1	429	100	99	93
Valve and valve mechanism for gas-engines.....	W. O. Worth.....	710,728	Oct. 7	632	131	101	129
Valve apparatus for locomotives. Vacuum and water relief	A. Spencer.....	696,847	Apr. 1	845	132	99	179
Valve attachment for traps. Air.....	C. A. Tilly.....	708,855	July 1	885	195	100	177
Valve attachment. Steam-feed cylinder.....	W. B. Burrows.....	713,850	Nov. 18	2671	595	101	1479
Valve. Automatic.....	F. H. Mason.....	698,530	Apr. 29	3984	882	99	907
Valve. Automatic.....	C. W. Hall, Jr., and B. J. Berwald.....	705,344	July 22	3893	823	100	836
Valve. Automatic.....	N. Curtis.....	707,395	Aug. 19	2661	600	100	1698
Valve. Automatic.....	H. E. Stager.....	708,179	Sept. 2	338	80	100	2050
Valve. Automatic boiler-feed-controlling.....	J. A. Baldwin.....	716,982	Dec. 30	4656	1009	101	2882
Valve. Automatic duplex check and stop.....	F. Henneböhle.....	698,133	Feb. 11	1708	373	98	1176
Valve. Automatic flushing.....	O. J. Fairchild.....	695,676	Mar. 18	2513	570	98	2272
Valve. Automatic relief and condenser.....	W. S. Montgomery.....	691,067	Jan. 14	1321	293	98	230
Valve. Automatic sprinkler.....	O. Hoffmann.....	716,039	Dec. 16	2680	593	101	2428
Valve. Automatic vent.....	L. J. Walsh.....	701,428	June 3	258	58	99	2161
Valve. Automatically-acting.....	J. W. Nethery.....	713,138	Nov. 11	1271	288	101	1175
Valve. Balanced.....	E. B. Sintzenich.....	700,985	May 27	3642	837	99	1974
Valve. Balanced.....	J. Mitchell and S. W. Vaughen.....	715,113	Dec. 2	891	190	101	2019
Valve. Balanced automatic safety.....	H. P. Tippet.....	715,706	Dec. 9	1992	440	101	2019
Valve. Balanced puppet.....	A. Metz.....	690,979	Jan. 14	1163	333	98	258
Valve. Balanced slide.....	F. C. Charles.....	696,718	Apr. 1	618	138	99	134
Valve. Balanced slide.....	J. T. Wilson.....	705,730	July 29	4671	1011	100	1004
Valve-balancing device.....	R. L. Ambrose.....	693,484	Feb. 18	2405	526	98	1341
Valve. Blow-off.....	W. L. Morris.....	694,773	Mar. 4	850	188	98	1891
Valve. Brake.....	G. Gregory.....	707,581	Aug. 26	3027	681	100	1789
Valve. Check.....	W. B. Cowles.....	695,378	Mar. 11	1965	440	98	2142
Valve. Check.....	W. R. Michens.....	704,557	July 15	2243	486	100	48
Valve. Check or clock.....	F. W. Leidcker.....	705,255	July 22	3670	793	100	792
Valve. Check or pump.....	R. Kreher.....	702,223	June 10	1695	382	99	2474
Valve. Combination safety, regulating, and drop.....	A. K. Reese.....	697,662	Apr. 15	2386	531	99	536
Valve. Combined vacuum relief.....	E. B. Whelan and W. J. Sweigard.....	714,345	Nov. 25	3673	809	101	1706
Valve. Compound-engine.....	S. Munson.....	691,161	Jan. 14	1478	334	98	332
Valve. Compression.....	J. Morrison.....	702,675	June 17	1315	674	99	2247
Valve. Compressor re-charge.....	F. W. Gordon.....	713,631	Nov. 18	2277	506	101	1395
Valve controller. Throttle.....	W. D. Wilcox.....	713,037	Nov. 4	1068	248	101	1114
Valve-controlling mechanism for automatic water-heaters.....	J. Tracy and W. A. Bollinger.....	700,387	May 20	2506	574	99	1721
Valve cushioning device.....	E. Rost.....	707,160	Aug. 19	2218	497	100	1603
Valve. Cut-off.....	J. L. Burt.....	690,743	Jan. 7	739	164	98	155
Valve. Cylinder drain.....	G. Faith and T. Hook.....	698,438	Apr. 29	3909	781	99	591
Valve. Cylinder relief.....	A. Spencer.....	700,845	May 27	3399	781	99	1996
Valve device.....	A. J. Murphy.....	691,477	Jan. 21	2104	473	98	473
Valve device or fitting.....	A. J. Serrell.....	694,033	Feb. 25	3486	768	98	1578
Valve. Dry-pipe.....	P. Evans.....	695,294	Mar. 11	1833	408	98	1314
Valve. Engine.....	J. G. McCormack.....	696,691	Apr. 1	555	127	99	211
Valve. Engine.....	E. U. Down.....	705,224	July 22	3670	793	100	792
Valve. Engineer's brake.....	A. Christensen.....	701,542	June 10	995	222	99	2333
Valve. Engineer's brake.....	P. Synnestvedt.....	703,677	July 1	559	126	100	111
Valve. Engineer's brake.....	H. R. Mason.....	709,027	Sept. 16	1949	447	100	2409
Valve. Equalizing.....	P. Whiting.....	707,476	Aug. 19	2799	633	100	1727
Valve. Expanding gate.....	L. A. Riegler.....	711,262	Oct. 14	1664	359	101	360
Valve. Float.....	C. C. O'Brien.....	691,444	Jan. 21	2049	450	98	462
Valve. Float.....	J. L. Mayfield.....	711,574	Oct. 21	2850	630	101	626
Valve. Fluid-pressure engine.....	P. T. Stillman.....	709,246	Sept. 16	2385	540	100	2503
Valve. Fluid-pressure-regulated gas.....	A. Beler.....	706,153	Aug. 5	298	63, 64	100	1177
Valve. Fluid-pressure signal.....	H. R. Mason.....	693,415	Feb. 18	2269	497	98	1312
Valve. Flush.....	J. J. Finney.....	700,485	May 20	2696	618	99	1761
Valve. Flush.....	J. J. Finney.....	700,486	May 20	2699	618	99	1762
Valve. Flush.....	J. J. Finney.....	700,487	May 20	2701	618	99	1762
Valve. Flush.....	E. A. Marsh.....	717,236	Dec. 30	5157	1118	101	2991
Valve. Flushing.....	F. W. Meyer.....	694,107	Feb. 25	3608	798	98	1602
Valve. Flushing.....	J. O. Rathbun.....	704,211	July 8	1584	342	100	332
Valve. Flushing.....	S. W. Lewis.....	715,675	Dec. 9	1934	433	101	2249
Valve for air-brakes. Pressure-retaining.....	J. A. Toal.....	697,694	Apr. 15	2447	545	99	549
Valve for air-compressors. Piston.....	E. L. and W. P. Brinton.....	691,042	Jan. 14	1323	293	98	233
Valve for automatic water-heaters.....	J. L. Graham.....	699,798	May 13	1233	293	99	1453



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr.g.	Vol.	Page.
Valve for drinking-troughs. Float	E. C. Prowant	717,450	Dec. 30	5528	1201	101	3067
Valve for engines and motors. Steam-actuated	W. A. Woodeson	694,709	Mar. 4	712	156	98	1862
Valve for gas-engines. Balanced	S. H. Dyer	699,372	May 6	460	108	99	1269
Valve for gas-engines. Fuel	J. B. Fenner	706,916	Aug. 12	1767	395	100	1495
Valve for gas or gasoline engines. Mixing	R. E. Hardy	706,050	Aug. 5	94	20	100	1136
Valve for internal-combustion engines. Exhaust	J. Saltar, Jr	701,944	Nov. 10	1181	269	99	2371
Valve for internal-combustion motors. Exhaust	W. J. Crossley and J. Atkinson	713,860	Nov. 18	2694	601	101	1484
Valve for pumps, &c.	T. A. MacDonald	709,273	Sept. 16	2441	552	100	2514
Valve for pumps, compressors, or motors. Rotary slide	L. Roedel	709,682	Sept. 23	3246	726	100	2695
Valve for pumps, compressors, or motors. Rotary slide	L. Roedel	709,683	Sept. 23	3252	728	100	2696
Valve for reservoirs containing fluid under pressure. Relief	H. E. Warren	708,687	July 1	581	129	100	115
Valve for reversible steam-engines	A. H. Koons	702,860	June 17	2887	668	99	2741
Valve for ships. Air	T. S. Bailey	713,834	Nov. 18	2644	589	101	1473
Valve for steam-carriages. Throttle	R. H. White	697,586	Apr. 15	2237	499	99	507
Valve for steam-chests. Vertical-lift lubricating	C. Wieseckel	708,108	Sept. 2	195	46	100	2022
Valve for steam-engines. Distributing	G. Tuckfield	706,131	Aug. 5	243	51	100	1167
Valve for steam fire-engines, &c. Automatic	A. Mayer	697,097	Apr. 8	1961	99	309	
Valve for steam-passages. Water and air relief	C. H. Atkins	702,353	June 10	1920	438	99	2519
Valve for water-gages. Automatic safety	A. Hartwig	712,376	Oct. 28	3782	828	101	831
Valve for water-heaters. Automatic	D. S. Cole	715,551	Dec. 9	1725	380	101	2204
Valve for water-mains. Automatic air	C. E. Loetzer	710,480	Oct. 7	147	34	101	32
Valve. Gas or gasoline engine	A. P. Brush	710,840	Oct. 7	848	185	101	173
Valve. Gas or gasoline engine mixing	A. P. Brush	710,841	Oct. 7	851	185	101	173
Valve. Gate	D. Lemley	693,036	Feb. 11	1502	327	98	1135
Valve. Gate	E. H. Lunken and H. Ritter	710,986	Oct. 14	1109	244	101	243
Valve. Gate	A. W. Cash	713,851	Nov. 18	2674	596	101	1479
Valve-gate. Electrically-operated	A. Orr	707,938	Aug. 26	3777	848	100	1941
Valve-gear	H. Damerell	695,445	Mar. 18	2075	468	98	2184
Valve-gear	O. Schmid and H. A. Drandt	698,863	Apr. 23	4721	1040	99	1070
Valve-gear	S. I. and W. S. Crain	701,300	June 3	98	7	99	2116
Valve-gear	K. Giese	703,559	July 1	348	7	100	69
Valve-gear	R. T. Love	705,414	July 22	4014	869	100	862
Valve-gear	H. White and W. G. Taylor	707,995	Aug. 26	3888	873	100	1962
Valve-gear	P. H. White	709,949	Sept. 30	3791	855	100	2820
Valve-gear. Engine	O. Jackson	691,384	Jan. 21	1943	437	98	439
Valve-gear. Engine	F. D. Holdsworth	692,289	Feb. 4	130	30	98	825
Valve-gear. Engine	L. O. Hood	694,547	Mar. 4	411	89	98	1799
Valve-gear. Engine	O. Hove	705,088	July 22	3300	717	100	717
Valve-gear. Engine	J. Vorraber	712,744	Nov. 4	512	120	101	1003
Valve-gear. Engine	F. H. Sleeper	717,038	Dec. 30	4756	1031	101	2904
Valve gear. Engine slide	S. S. Younghusband	692,099	Jan. 28	3275	740	98	729
Valve-gear. Explosive-engine	W. J. Robb	715,150	Dec. 2	958	741	101	2082
Valve-gear. Fluid-pressure-engine	J. T. Marshall	714,213	Nov. 25	3428	754	101	1657
Valve-gear for controlling motors	L. A. Lang	695,061	Mar. 11	1393	306	98	2023
Valve-gear. Governor-controlled	J. A. Gronson	704,536	July 15	2210	478	100	478
Valve-gear link	M. McClure	693,051	Feb. 11	1537	334	98	1142
Valve-gear. Locomotive	H. Maxwell	702,809	June 17	2798	648	99	2723
Valve-gear. Reversing	A. B. Leftwich	703,938	July 1	1033	224	100	206
Valve-gear. Slide	S. S. Younghusband	703,885	July 1	936	305	100	86
Valve-gear. Steam-engine	P. W. Freeman	695,454	Mar. 18	2090	472	98	2187
Valve-gear. Steam-engine	P. Harris	712,674	Nov. 4	392	92	101	979
Valve-gearing	W. N. Rumely	692,913	Feb. 11	1264	280	98	1084
Valve. Globe	J. Powell	713,145	Nov. 11	1283	291	101	1178
Valve-governing mechanism for engines. Inlet	J. F. Duryea	702,090	June 10	1465	330	99	2427
Valve. Governor	L. J. Watson	706,616	Aug. 12	1197	296	100	1574
Valve-grinding mechanism	A. Hennig	698,967	Feb. 25	3336	733	98	1547
Valve-handle wheel	G. H. Brecht	716,735	Dec. 23	4102	900	101	238
Valve. Hydraulic	P. H. Cowper	716,626	Dec. 23	3871	846	101	2692
Valve. Hydraulic balanced	D. W. Porter	711,121	Oct. 14	1379	300	101	300
Valve. Hydraulic or other fluid-controlling	H. S. B. Brindley	715,009	Dec. 2	715	151	101	1980
Valve. Internal-combustion-engine	C. O. Hedstrom	712,929	Nov. 4	874	204	101	1076
Valve-lever spool	P. Thomas	709,940	Sept. 30	3774	832	100	2816
Valve-lock	L. Toback	691,896	Jan. 28	3560	687	98	687
Valve. Lock	W. B. Borchers	712,235	Oct. 28	3547	722	101	782
Valve-locking apparatus	R. P. Wilson	716,508	Dec. 23	3631	793	101	2639
Valve-lubricator	P. F. Laban	706,963	Aug. 12	1848	413	100	1510
Valve mechanism	E. J. Armstrong	701,667	June 3	703	155	99	2255
Valve mechanism	R. Berg	706,885	Aug. 12	1714	383	100	1484
Valve mechanism	O. Swenson, Sr	710,905	Oct. 7	956	210	101	194
Valve mechanism	T. R. Green	716,336	Dec. 16	3271	714	101	2549
Valve mechanism. Air-brake	E. G. Shortt	690,468	Jan. 7	156	64	98	35
Valve mechanism. Cut-off	J. Haug	697,839	Apr. 15	2703	600	99	606
Valve mechanism. Cut-off	F. T. Shoemaker	701,406	June 3	216	49	99	2152
Valve mechanism. Duplex-engine	H. A. Jensenius	692,669	Feb. 4	808	182	98	965
Valve mechanism. Engine	T. H. Haberkorn	702,423	June 17	2061	470	99	2568
Valve mechanism. Explosive-engine	R. P. Hansen	706,932	Aug. 12	1794	401	100	1500
Valve mechanism. Explosive-engine	G. J. Altham	712,171	Oct. 28	3436	752	101	758
Valve mechanism for fluid-supply pipes	A. S. Kiefer	709,096	Sept. 16	3091	479	100	2441
Valve mechanism for steam-carriage burners	R. H. White	707,478	Aug. 19	2895	634	100	1728
Valve mechanism. Hydraulic	W. F. Cole	700,740	May 27	3188	728	99	1882

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Valve mechanism. Reversing.	C. S. Leonard	692,204	Jan. 28	3452	781	98	767
Valve mechanism. Water-heater	A. Buerkle	707,758	Aug. 26	3418	770	100	1869
Valve-motion	G. M. Schwend	707,452	Aug. 19	2759	635	100	1718
Valve-motion	R. C. Carroll and G. S. Roberts	715,755	Dec. 16	2099	471	101	2304
Valve-movement. Steam-engine	C. C. Worthington	695,021	Mar. 11	1313	232	98	2007
Valve. Needle.	H. M. McCall	717,437	Dec. 30	5508	1196	101	3063
Valve. One-way	E. H. Gold	709,262	Sept. 16	2413	547	100	2508
Valve-operating mechanism	J. C. Humphreys	711,863	Oct. 21	2827	626	101	621
Valve-operating mechanism. Washbasin	E. B. Parsons	699,704	May 13	1108	260	99	1416
Valve-operating means	C. G. Y. King	705,250	July 22	3659	792	100	791
Valve. Piston.	A. Spencer	696,208	Mar. 25	3532	790	98	2496
Valve. Piston.	W. Heston	696,675	Apr. 1	527	122	99	114
Valve. Pop safety.	B. Hellwig	708,039	Sept. 2	83	19	100	1998
Valve. Pressure-reducing	C. H. Buckelew	706,721	Aug. 12	1382	308	100	1415
Valve. Pressure-reducing	S. Carlson	714,143	Nov. 25	3258	718	101	1622
Valve. Quadruple	P. Whiting	707,477	Aug. 19	2862	634	100	1727
Valve. Railway-tank	C. Ernst	713,334	Nov. 11	1628	367	101	1845
Valve. Reducing.	C. W. Lord	700,434	May 20	2588	503	99	1739
Valve. Reducing.	L. Schutte	712,009	Oct. 28	3139	686	101	701
Valve regulator and governor.	J. F. McElroy	702,026	June 10	1835	305	99	2400
Valve. Relief.	W. J. Goynne	694,374	Mar. 4	69	16	98	1726
Valve. Relief.	F. Schreidt	702,157	June 10	1581	358	99	2452
Valve. Renewable-seat	G. W. Walters	690,490	Jan. 7	225	45	98	49
Valve-resetting device	J. C. Langlois	692,459	Feb. 4	417	99	98	884
Valve. Retaining.	W. G. Lamb	702,802	June 17	2781	639	99	2718
Valve. Retaining.	W. V. Turner and F. C. Farquharson.	706,867	Aug. 12	1680	377	100	1478
Valve. Retaining.	W. G. Lamb	711,774	Oct. 21	2656	586	101	584
Valve. Reversing.	C. R. Kline and J. Keller	692,185	Jan. 28	3418	774	98	759
Valve. Rotary	J. B. Stage	701,638	June 3	656	143	99	2245
Valve. Safety.	W. N. Wemmer	692,308	Feb. 4	1051	202	98	1011
Valve. Safety.	P. Whiting	694,811	Mar. 4	909	203	98	1904
Valve. Safety.	J. E. Osmer	696,074	Mar. 25	3244	734	98	2436
Valve. Safety.	W. E. Jerauld	699,532	May 6	756	177	99	1331
Valve. Safety.	W. S. Washburn	701,535	June 3	432	98	99	2197
Valve. Safety.	W. C. Field	705,372	July 29	4379	949	100	947
Valve. Safety.	W. Wishart and B. Seidel	707,485	Aug. 19	2814	636	99	1730
Valve. Safety.	H. P. Tippet	715,707	Dec. 9	1994	447	101	2261
Valve. Safety.	F. A. Casey and A. E. Cutler	716,864	Dec. 30	4418	958	101	2834
Valve. Self-cleaning needle.	W. J. Jackman	692,856	Feb. 11	1132	253	98	1056
Valve. Self-closing	F. H. Mason	706,432	Aug. 5	878	190	100	1292
Valve. Self-closing	E. Schlaepfer	711,349	Oct. 14	1840	400	101	338
Valve. Self-closing antiwater-hammer balance	F. and F. H. Engelhard	710,359	Oct. 14	1055	234	101	231
Valve. Self-closing antiwater-hammer balance	F. and F. H. Engelhard	710,960	Oct. 14	1058	234	101	232
Valve. Self-grinding	O. O. Storie	695,588	Mar. 18	2357	534	98	2242
Valve. Slow-closing	A. F. Blesch	716,856	Dec. 30	4401	954	101	2830
Valve. Steam.	H. W. Waite	706,613	Aug. 12	1190	264	100	1372
Valve. Steam-boiler safety.	C. Gulland	698,513	Feb. 18	2455	538	98	1351
Valve. Steam-engine	G. B. Smith	695,891	Mar. 18	2894	656	98	2352
Valve. Steam-engine	A. Tandler	701,420	June 3	243	54	99	2158
Valve. Steam-engine	E. L. Sauer	701,626	June 3	636	139	99	2242
Valve. Steam-engine	W. Wright	708,750	Sept. 9	1360	310	100	2271
Valve. Steam-engine	E. S. Chapell	712,906	Nov. 4	834	194	101	1067
Valve. Steam-engine cut-off	C. A. Marnder	712,197	Oct. 28	3474	762	101	765
Valve. Steam-engine governor	H. B. Wyman	710,729	Oct. 7	694	132	101	129
Valve. Stop.	J. Walsh, Jr.	694,706	Mar. 4	708	155	98	1861
Valve. Stop.	G. W. Tyson	702,383	June 10	1971	450	99	2530
Valve. Stop.	J. A. Ellison	703,564	July 1	339	77	100	68
Valve. Stop and automatic check	J. C. McClelland	713,331	Nov. 11	1691	381	101	1260
Valve. Straight fullway	S. J. Studer	695,963	Mar. 25	3028	686	98	2391
Valve. Straightway	E. M. Erdman	709,146	Sept. 16	2177	498	100	2460
Valve. Straightway	D. Kennedy	709,491	Sept. 23	2309	649	100	2426
Valve. Street-sprinkler	M. J. Bunell	700,960	Sept. 30	3820	860	100	2826
Valve. Suction.	O. H. Castle	691,443	Jan. 21	2047	458	98	941
Valve. Tank.	S. J. Asbell	704,230	July 8	1615	349	100	337
Valve. Tank.	D. M. Wright	715,726	Dec. 9	2036	455	101	2271
Valve. Throttle	G. W. King	701,574	June 3	528	116	99	2217
Valve. Throttle	J. S. Chambers	701,679	June 3	723	159	99	2307
Valve. Throttle	J. S. Chambers	706,300	Aug. 5	599	138	100	1236
Valve. Throttle	C. J. Shawver	717,292	Dec. 30	5249	1140	101	3010
Valve. Trap.	B. Ménard	714,006	Nov. 18	2987	665	101	1546
Valve. Variable-speed safety.	M. Corrington	717,081	Dec. 30	4839	1048	101	2921
Valve. Water-cooled	H. E. Ebbs	698,474	Apr. 29	3897	860	99	889
Valve. Water-cooled reversing	L. L. Knox	708,718	Sept. 9	1303	297	100	2257
Valve. Water-heater controlling and reversing	F. W. Robertshaw	692,430	Feb. 4	453	106	98	891
Valve. Water-heater controlling and reversing	F. W. Robertshaw. (Reissue)	712,046	Oct. 21	3259	705	101	610
Valve. Water-tank supply	G. E. Clark	692,983	Feb. 11	1420	300	98	1116
Valves. Construction and application of piston	J. H. B. Head	697,840	Apr. 15	2704	600	99	606
Valves for pumps, &c. Arrangement of	F. W. Rogler	690,879	Jan. 7	961	217	98	202
Valves, &c. Operating mechanism for gas-engine	J. B. Fenner	705,058	July 22	3236	700	100	705
Valved stopper for receptacles, &c.	S. Molnar	702,810	June 17	2890	643	99	2723
Vamp-bumper	J. G. Grall	705,069	July 22	3259	705	100	710
Vamp-throating die	G. F. Dunn	716,876	Dec. 30	4446	964	101	2839
Vanner	C. S. Pratt	706,687	Aug. 12	1928	293	100	1403
Vapor-burner	J. S. Sherman and G. H. Harms	695,889	Mar. 18	2891	655	98	2351
Vapor-burner	A. Lecomte	703,661	July 1	537	119	100	103
Vapor-burner	W. J. Smart	705,459	July 22	4095	800	100	878
Vapor-burner	C. S. and C. E. Shattuc	708,926	Sept. 9	1718	397	100	2346



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Vapor-burner	J. H. Bullard	712,849	Nov. 18	2670	585	101	1479
Vapor-burner	A. Ball	716,167	Dec. 16	2935	811	101	2480
Vapor-burner	J. W. Master	717,238	Dec. 30	5161	1118	101	2992
Vapor-burner. Incandescent	E. L. Fee	700,634	May 20	2954	679	99	1816
Vapor-burner. Incandescent	L. S. Pfouts	711,522	Oct. 21	2167	473	101	480
Vapor-burner. Incandescent	W. S. Quigley	713,150	Nov. 11	1293	292	101	1180
Vapor generation	A. Scharffe	705,306	July 22	3779	820	100	814
Vapor-generator	M. Castelnau and C. Thialon	695,707	Apr. 1	751	173	99	102
Vapor or gas to burners. Apparatus for regulating the supply of combustible	W. Hooker	716,420	Dec. 23	3448	732	101	2692
Vapors. Apparatus for disposing of foul	E. R. Edson	714,165	Nov. 25	3333	1734	101	1638
Vaporizer	F. Jacobson	691,772	Jan. 28	2677	600	98	610
Vaporizer	J. R. Sheldon	694,679	Mar. 4	659	144	98	1832
Vaporizer	O. A. Johnston	715,411	Dec. 30	5408	1185	101	3053
Vaporizer and burner	N. L. Rigby	712,721	Nov. 4	473	112	101	166
Vaporizer for cold vapors, &c.	E. Josse	708,647	Sept. 9	1166	285	100	2229
Vaporizer. Formaldehyde	J. W. England	711,720	Oct. 21	2544	559	101	560
Vaporizer. Hydrocarbon-burner	G. D. Scott	713,509	Nov. 11	2945	458	101	1333
Vaporizer or burner. Hydrocarbon	L. G. Gebhard and J. M. Rowley	697,618	Apr. 15	2302	515	99	521
Vaporizing and igniting device for gas or explosion motors.	H. R. Sheppard	694,681	Mar. 4	662	144	98	1852
Vaporizing apparatus. Liquid	W. G. Lyle and J. E. Stewart	694,396	Mar. 4	116	26	98	1737
Vaporizing, cooling, and aerating apparatus. Air-supply to liquid	W. H. Weightman	693,195	Feb. 11	1860	462	98	1205
Vaporizing system. Fluid	R. O. Hood	691,944	Jan. 28	2986	671	98	672
Varnish and ink. Manufacture of printers'	A. G. Wass	716,318	Dec. 16	3228	885	101	2540
Varnish. Manufacturing	A. L. Tedesco	711,596	Oct. 21	2308	505	101	549
Varnishes. Manufacturing of	E. H. Strange and E. Graham	708,935	Sept. 9	1729	400	100	2348
Varnishing	G. Tüschel	705,723	July 29	4661	100	1002	
Vat.							
See Bleaching-vat.	Dipping-vat.						
Brewer's vat.	Tempering-vat.						
Vault	J. W. Donnell	701,688	June 3	740	163	99	2263
Vault	J. S. Lester	716,068	Dec. 16	2755	648	101	2444
Vault and constructing same. Burial	L. Miller	704,899	July 15	2851	618	100	611
Vault. Burial	G. B. Okey	693,304	Feb. 11	2050	449	98	1245
Vault. Burial	C. A. Reed	696,192	Mar. 25	3502	785	98	2489
Vault. Burial	J. C. Hennis	699,086	Apr. 29	5089	1126	99	1146
Vault. Burial	A. B. Buren	700,734	May 27	3177	724	99	1880
Vault. Burial	J. T. McKim and L. Miller	704,850	July 15	2764	567	100	592
Vault. Burial	D. W. Peckham	712,356	Nov. 4	463	217	101	1688
Vault. Burial	G. E. Okey	715,927	Dec. 30	4539	985	101	2837
Vault-cover	F. S. Knapp and J. Steinberg	705,679	July 29	4575	994	100	986
Vault-cover	J. Armstrong	711,457	Oct. 21	2041	442	101	453
Vault-light	L. Braun	699,793	May 13	1265	293	99	1447
Vault-light	A. De Man	709,849	Sept. 23	3569	805	100	2702
Vault or grave	T. D. Hankins and F. J. Booher	699,620	May 6	985	216	99	1368
Vault. Portable burial	G. B. Okey	692,067	Jan. 28	3215	726	98	717
Vegetable albumen. Extracting	F. W. Gaertner	710,190	Sept. 30	4362	961	100	2019
Vegetable-cutter	G. W. Hatfield	699,412	Jan. 7	282	57	98	61
Vegetable-cutter	C. Watz	694,592	Mar. 4	492	107	98	1817
Vegetable-cutter	J. C. Ivey, Sr.	703,588	July 1	375	86	100	74
Vegetable-cutter	N. Lyke	714,925	Dec. 2	575	122	101	1950
Vegetable or meat cutter	F. Barr	706,881	Aug. 12	1705	381	100	1483
Vegetable-puller	W. Galarno	697,468	Apr. 15	2035	449	99	467
Vegetable-roots. Machine for cutting	H. Webb	706,368	Aug. 5	726	153	100	1263
Vegetable-stems. Machine for treating	J. A. Lacôte	701,057	May 27	3790	867	99	2007
Vegetable-washer	M. H. Butler and C. A. Larson	710,422	Oct. 7	44	11	101	11
Vehicle	J. M. Smith	694,209	Feb. 25	3409	842	98	1641
Vehicle	F. Bosch	697,395	Apr. 8	1887	421	99	420
Vehicle	A. Herschmann	698,443	Apr. 29	3921	867	99	884
Vehicle	J. Torrent	700,536	May 20	2859	656	99	1796
Vehicle	B. C. Hicks	700,929	May 27	3356	845	99	1815
Vehicle	J. F. Hathaway	702,059	June 10	1421	319	99	2418
Vehicle	F. Stratton	702,504	June 17	2225	506	99	2694
Vehicle	A. Clark	702,186	June 24	3223	810	99	2883
Vehicle	J. Krauss	703,601	July 1	398	93	100	79
Vehicle	L. B. Truslow	705,722	July 29	4653	1010	100	1502
Vehicle	A. A. Kellogg	705,958	Aug. 12	1841	412	100	1519
Vehicle	N. Mader	708,056	Sept. 2	109	26	100	274
Vehicle	C. W. Hunt	708,231	Sept. 2	437	09	100	2670
Vehicle	J. M. Smith	713,517	Nov. 11	2057	460	101	1336
Vehicle and stationary scale. Combination	L. H. Sohn	704,946	July 15	3404	644	100	644
Vehicle attachment	W. P. Lee	695,742	Mar. 18	2617	594	98	2243
Vehicle attachment	W. W. Mette	715,109	Dec. 2	886	189	101	2018
Vehicle-body	J. E. and C. B. Brown	699,528	May 6	2893	156	99	1317
Vehicle-body	C. F. Putnam	704,209	July 8	1581	341	100	331
Vehicle-body	L. C. McLouth, H. J. Hayes, and J. H. Wissman	717,250	Dec. 30	5184	1123	101	2996
Vehicle-body corner-iron	G. W. Vinson	697,298	Apr. 8	1706	381	99	383
Vehicle-body corner-joint	J. F. Watts	691,027	Jan. 14	1252	283	98	276
Vehicle-body. Metallic	H. F. Eastman	691,455	Jan. 21	2070	463	98	466
Vehicle body. Motor	F. Charron and L. Girardot	707,206	Aug. 19	2310	518	100	1625
Vehicle-body raiser	W. Marin	699,403	May 6	527	121	99	1283
Vehicle-body raiser	J. E. Cryderman	706,207	Sept. 2	396	91	100	2462
Vehicle-body spring suspension	F. Corssen	709,396	Sept. 16	2689	603	100	2567
Vehicle-body support	W. D. Butler	716,666	Dec. 23	3943	861	101	2707
Vehicle-box	L. Priest	691,691	Jan. 21	2423	548	98	540
Vehicle-brake	G. L. Blair	692,777	Feb. 4	984	223	98	938

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Vehicle-brake	H. Lemp	692,872	Feb. 11	1171	259 260	98	1065
Vehicle-brake	H. Lemp	692,878	Feb. 11	1187	263	98	1068
Vehicle-brake	G. H. de Berly and E. G. Rassiner	693,776	Feb. 18	2949	649 650	98	1451
Vehicle-brake	J. W. Packard and W. A. Hatcher	694,184	Feb. 25	3766	832	98	1693
Vehicle-brake	J. B. Picking	696,077	Mar. 25	3248	735	98	2487
Vehicle-brake	W. G. Price	696,653	Apr. 1	466	108 109	99	100
Vehicle-brake	W. G. Price	696,654	Apr. 1	472	109 110	99	102
Vehicle-brake	E. M. Letts	699,962	May 13	1627	374	99	1524
Vehicle-brake	J. D. Richards	700,089	May 13	1841	429	99	1568
Vehicle-brake	W. A. Critchlow	702,287	June 10	1795	410	99	2495
Vehicle-brake	C. B. Fairchild	704,452	July 8	2022	440	100	426
Vehicle-brake	J. Orteig	705,431	July 22	4040	876	100	868
Vehicle-brake	W. F. Hitchcock	706,824	Aug. 12	1596	359	100	1460
Vehicle-brake	G. W. Burton	706,898	Aug. 12	1746	390	100	1491
Vehicle-brake	J. A. Tautphaeus	708,272	Sept. 2	515	117	100	2086
Vehicle-brake	A. A. Ball, Jr	716,168	Dec. 16	2937	045	101	2480
Vehicle-brake	C. D. Quillen	716,275	Dec. 16	3150	690	101	2595
Vehicle-brake	J. W. Whalen	716,324	Dec. 16	3283	708	101	2543
Vehicle-brake and bell	S. H. Madsen	700,349	May 20	2429	554	99	1707
Vehicle-brake. Automatic	J. E. Austin	700,287	May 20	2297	524	99	1681
Vehicle-brake. Automatic	E. G. Stone	704,281	July 8	1710	373	100	360
Vehicle-brake mechanism	G. F. Moore	693,731	Feb. 18	2879	633	98	1438
Vehicle-brake mechanism	A. L. Larson	694,333	Mar. 4	110	25	98	1736
Vehicle-brake mechanism	G. E. Sbo	696,530	Apr. 1	244	55	99	56
Vehicle-brake mechanism	C. Metterhausen	710,377	Oct. 7	907	197	101	184
Vehicle-brake mechanism. Motor	W. B. Mason	691,724	Jan. 21	2555	572	98	567
Vehicle-brake mechanism. Motor	J. Unser	709,124	Sept. 16	2133	489	100	2450
Vehicle-brake mechanism. Motor	J. Unser	709,125	Sept. 16	2137	489	100	2451
Vehicle-brake. Safety	L. H. Best	696,159	Mar. 25	3445	772	98	2479
Vehicle-braking mechanism	G. and A. E. Jennings	694,863	Mar. 4	1009	223	98	1326
Vehicle construction	E. H. Phipps	711,675	Oct. 21	2464	541	101	543
Vehicle controller. Electric	H. H. Cutler	697,986	Apr. 22	2986	658	99	683
Vehicle controller. Electric	H. H. Cutler	697,987	Apr. 22	2989	659	99	684
Vehicle controller. Electric	A. L. Simpson and H. B. Palmer	699,029	Apr. 29	4999	1106 1107	99	1126
Vehicle-controlling device. Motor	W. A. Hatcher and J. W. Packard	712,928	Nov. 4	872	303 304	101	1075
Vehicle-controlling mechanism. Motor	J. F. McNutt	690,756	Jan. 7	737	163 169	98	160
Vehicle-controlling mechanism. Motor	J. W. Packard and W. A. Hatcher	712,558	Nov. 4	235	58	101	946
Vehicle coupling. Road	L. H. Campbell	717,163	Dec. 30	4995	1084 1085	101	2955
Vehicle-curtain attachment	F. W. Molden	699,967	May 13	1635	375	99	1526
Vehicle dirt or mud guard	D. Warr	712,824	Nov. 4	309	72	101	92
Vehicle draft attachment	H. Kugler	694,651	Mar. 4	599	132	98	1839
Vehicle-drag	M. Leatherman	691,554	Jan. 21	2232	502	98	500
Vehicle-drag	S. S. Stanley	704,976	July 15	3071	660	100	656
Vehicle-draw-bar and shaft-support. Combined	M. W. Seitzinger	712,732	Nov. 4	681	115	101	999
Vehicle-driving-gear and brake combined. Motor	H. H. Hennegun	708,356	Sept. 2	435	147	100	2113
Vehicle-driving-gear. Motor	A. Govan	695,808	Mar. 18	2744	626	99	2390
Vehicle-driving-gear. Motor	E. E. Wright	708,861	July 1	931	203	100	187
Vehicle-driving mechanism	P. Synnestvedt	693,574	Feb. 18	2585	572	98	1376
Vehicle-driving mechanism	L. G. Nilson	715,596	Dec. 9	1797	398	101	2220
Vehicle-driving mechanism. Motor	L. Creanche	695,541	Mar. 18	2256	510	98	2220
Vehicle-driving mechanism. Motor	C. C. Bramwell	701,533	June 3	447	101	99	2300
Vehicle-driving mechanism. Motor	J. Ledwinka	715,821	Dec. 16	2240	500	101	2322
Vehicle-driving mechanism. Road	W. S. Taylor, Jr	707,984	Aug. 26	3857	866 867	100	1956
Vehicle. Drop-body	A. P. Bowman	714,135	Nov. 25	3244	716	101	1619
Vehicle. Dumping	T. Hill	699,169	May 6	73	19, 20	99	1191
Vehicle. Dumping	A. Fouts	700,318	May 20	2372	541	99	1694
Vehicle. Dumping	H. F. Shephard	700,571	May 20	2842	652 653	99	1792
Vehicle. Dumping	G. R. Werner	710,909	Oct. 7	960	211	101	195
Vehicle. Dumping	C. H. Smith	717,293	Dec. 30	5251	1140	101	3011
Vehicle. Electric	C. C. Henry	708,962	Sept. 9	1792	413	100	2360
Vehicle engine. Motor	C. R. Phlagin	712,329	Oct. 28	3705	810	101	814
Vehicle-fender	E. Sherwood	713,162	Nov. 11	1320	298	101	1185
Vehicle-frame	J. Wilkinson	691,831	Jan. 28	2790	627	98	632
Vehicle-frame	P. H. White	696,258	Mar. 25	3679	823	99	2327
Vehicle-frame	J. Dawson	705,534	Aug. 12	1053	231	100	1343
Vehicle-frame	H. Lemp	714,808	Dec. 2	813	69	101	1901
Vehicle frame. Motor	R. O. Hood	691,945	Jan. 28	2988	671 672	98	673
Vehicle frame. Motor	J. L. Spencer	693,181	Feb. 11	1820	396 397	98	1197
Vehicle frame. Motor	W. A. Crowdus	698,376	Apr. 22	3709	819	99	834
Vehicle frame. Motor	W. A. Crowdus	700,902	May 27	3499	803	99	1946
Vehicle frame. Motor	A. L. Riker	711,441	Oct. 14	1995	432 433	101	430
Vehicle frame or running-gear	A. Bath	697,966	Apr. 22	2937	648	99	674
Vehicle-frame. Self-propelled	A. A. Ball, Jr	696,397	Apr. 1	9	3	99	4
Vehicle-gear	W. L. Marshall	699,377	Feb. 25	3369	739	98	1554
Vehicle-gear	F. E. Wilcox	709,068	Sept. 16	2027	462	100	2427
Vehicle-gear	F. E. Wilcox	709,069	Sept. 16	2028	462	100	2426
Vehicle-gear	F. E. Wilcox	709,070	Sept. 16	2029	463	100	2426
Vehicle ground-wheels. Mechanism for transmitting power from	C. L. V. Kinney	696,642	Apr. 1	449	105	99	97
Vehicle. Ice	F. H. Ober	711,587	Oct. 21	2290	499	101	506



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Vehicle-jack	A. Zwicker	709,730	Sept. 23	3327	749	100	2712
Vehicle lighting and heating device.	P. F. Schwemle and J. W. Case.	708,533	Sept. 9	1059	240	100	2296
Vehicle. Motor.	W. J. Burt	690,830	Jan. 7	890	197	98	188
Vehicle. Motor.	A. B. Fowler	690,849	Jan. 7	915	204	98	199
Vehicle. Motor.	G. F. Tadini	692,064	Jan. 14	1533	354	98	310
Vehicle. Motor.	J. E. McNutt	693,102	Jan. 28	3210	725	98	716
Vehicle. Motor.	W. Bowker, Sr.	693,102	Feb. 11	1633	357	98	1161
Vehicle. Motor.	L. J. Dirand	695,802	Mar. 18	2733	623	98	2317
Vehicle. Motor.	V. V. Torbensen	695,895	Mar. 18	2902	658	98	2353
Vehicle. Motor.	F. A. Waldron	696,121	Mar. 25	3355	757	98	2461
Vehicle. Motor.	R. M. Hunter	696,143	Mar. 25	3410	768	98	2474
Vehicle. Motor.	W. W. Robinson	696,596	Apr. 1	359	85	99	79
Vehicle. Motor.	E. J. Pennington	696,694	Apr. 1	359	128	99	121
Vehicle. Motor.	C. D. Mosher	697,646	Apr. 15	2356	525	99	530
Vehicle. Motor.	C. L. Mayhew	698,036	Apr. 22	3068	676	99	700
Vehicle. Motor.	R. E. Olds	698,131	Apr. 22	3277	718	99	742
Vehicle. Motor.	P. J. McMahon	698,729	Apr. 29	4432	1978	99	1004
Vehicle. Motor.	G. W. Smith	698,733	Apr. 29	4469	1988	99	1012
Vehicle. Motor.	W. L. Hight	698,886	Apr. 29	4678	1030	99	1061
Vehicle. Motor.	J. E. Caps	699,284	May 6	288	66, 67	99	1233
Vehicle. Motor.	J. E. Thornycroft	699,427	May 6	578	131	99	1294
Vehicle. Motor.	H. P. Maxim	699,543	May 6	773	182	99	1324
Vehicle. Motor.	W. Norris	699,808	May 13	1309	303	99	1457
Vehicle. Motor.	W. A. Crowds	700,743	May 27	3197	729	99	1884
Vehicle. Motor.	B. C. Hicks	700,772	May 27	3264	748	99	1900
Vehicle. Motor.	A. C. Krebs	700,950	May 27	3583	824	99	1963
Vehicle. Motor.	J. D. Maxwell	701,909	June 10	1118	255	99	2358
Vehicle. Motor.	H. P. Maxim and H. M. Pope	702,448	June 17	2113	480	99	2579
Vehicle. Motor.	P. Poulson	703,301	June 24	3713	855	99	2924
Vehicle. Motor.	W. Maybach	703,436	July 1	124	28	100	27
Vehicle. Motor.	G. E. De Long	703,769	July 1	725	160	100	145
Vehicle. Motor.	C. T. B. Sangster	705,304	July 22	3769	1818	100	812
Vehicle. Motor.	H. M. McCall	706,439	Aug. 5	892	193	100	1295
Vehicle. Motor.	H. J. Marks	706,978	Aug. 12	1868	418	100	1514
Vehicle. Motor.	J. H. Hoadley	707,695	Aug. 26	3263	730	100	1839
Vehicle. Motor.	H. F. Borbein	708,793	Sept. 9	1454	332	100	2291
Vehicle. Motor.	E. A. Wright	708,940	Sept. 9	1759	1405	100	2353
Vehicle. Motor.	W. C. Baker	709,859	Sept. 30	3586	1408	100	2779
Vehicle. Motor.	F. C. Goddard	709,897	Sept. 30	3695	833	100	3790
Vehicle. Motor.	C. F. Thoms	710,630	Oct. 7	452	94	101	91
Vehicle. Motor.	W. Norris	711,118	Oct. 14	1372	299	101	298
Vehicle. Motor.	A. E. Osborn	712,001	Oct. 28	3117	682	101	696
Vehicle. Motor.	W. J. and G. Lane	712,196	Oct. 28	3473	762	101	765
Vehicle. Motor.	O. W. Kelly	712,546	Nov. 4	167	39, 40	101	982
Vehicle. Motor.	J. E. Millard	712,829	Nov. 4	681	153	101	1087
Vehicle. Motor.	W. O. Worth	716,610	Dec. 23	3837	1833	101	2685
Vehicle. Motor.	H. P. Maxim	716,917	Dec. 30	4518	980	101	2853
Vehicle motor mechanism. Road.	E. Perks and F. Birch	708,827	Sept. 9	1533	350	100	2307
Vehicle motors. Support for self-propelled.	H. Lemp	692,880	Feb. 11	1192	264	98	1069
Vehicle mud-guard	T. Cochrane	691,145	Jan. 21	2050	450	98	462
Vehicle mud-guard	J. Pfeiffer	697,010	Apr. 8	1294	269	99	274
Vehicle mud or sand band	S. D. and J. M. Horger	701,343	June 3	121	25	99	2134
Vehicle propelling and brake mechanism	O. C. Howes	690,975	Apr. 8	1139	253	99	262
Vehicle propelling means.	A. Rieber	704,377	July 8	1893	410	100	400
Vehicle propulsion mechanism	F. Duenemlin	698,708	Feb. 25	3313	728	98	1542
Vehicle pump	R. L. Morgan	697,009	Apr. 8	1364	303	99	309
Vehicle reach	J. W. Travis and H. A. Denney	697,234	Apr. 8	1793	352	99	353
Vehicle resilient spring. Wheeled.	J. F. Pope	713,917	Nov. 18	2815	625	101	1510
Vehicle. Road	P. Christiansson	710,249	Sept. 30	4376	1983	100	2944
Vehicle robe-lock	A. M. Johnson	698,287	Apr. 22	3564	786	99	804
Vehicle running and steering gear. Motor.	W. Bowker, Sr.	693,903	Apr. 25	3407	749	98	1561
Vehicle running-gear	W. Bruer	690,923	Jan. 14	1050	236	98	236
Vehicle running-gear	C. F. Burns	697,800	Apr. 15	2642	585	99	592
Vehicle running-gear	H. W. Koehler	698,522	Apr. 29	3971	877	99	903
Vehicle running-gear	E. J. Pennington	699,031	May 6	953	220	99	1371
Vehicle running-gear	C. M. Spencer	700,450	May 20	2619	599	99	1746
Vehicle running-gear	G. H. Sherman	701,631	June 3	644	141	99	2243
Vehicle running-gear	H. A. Wise	705,482	Aug. 5	993	210	100	1310
Vehicle running-gear	W. N. Mecklen	708,188	Sept. 2	883	200	100	2160
Vehicle running-gear	F. Schmitz	711,592	Oct. 21	2300	501	101	508
Vehicle running-gear	J. G. Hess	712,378	Oct. 28	3787	828	101	832
Vehicle running-gear. Motor.	J. D. Griffen	695,207	Mar. 11	1671	371	98	2081
Vehicle running-gear. Motor.	P. K. Stern	695,959	Mar. 25	3019	1684	98	2390
Vehicle running-gear. Motor.	H. A. Knox and J. H. Jones	697,945	Apr. 15	2897	638	99	645
Vehicle running-gear. Motor.	F. J. Stallings	703,844	July 1	863	189	100	173
Vehicle safety attachment	J. P. Lowe	700,957	May 27	3593	826	99	1965
Vehicle safety device. Motor.	H. Charles	704,616	July 15	2332	507	100	592
Vehicle safety device. Motor.	A. L. Riker	709,681	Sept. 23	3245	725	101	2635

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Div.	Vol.	Page.
Vehicle-seat.	O. F. Persson.	691,806	Jan. 28	2741	619	98	622
Vehicle-seat.	J. B. Connor	691,842	Jan. 28	2509	631	98	636
Vehicle-seat.	L. B. Truslow	699,428	May 6	581	132	99	1295
Vehicle seat. Adjustable two-wheeled.	A. Johnston	710,582	Oct. 7	368	76	101	78
Vehicle-seat brace.	G. W. Vinson	709,378	Sept. 16	2656	596	100	2361
Vehicle-seat. Folding.	C. F. Kimball.	693,654	Feb. 18	2732	603	98	1407
Vehicle-seat-lock.	C. H. Lambert	696,648	Apr. 1	460	107	99	90
Vehicle-seat lock.	W. D. Holley	716,712	Dec. 23	4021	881	101	2722
Vehicle-seat-spring	G. E. Blaine	708,115	Sept. 2	212	50	100	2025
Vehicle. Self-propelled	C. E. Calloch	692,981	Feb. 11	1416	307	98	1116
Vehicle. Self-propelled	E. R. Gill	703,649	July 1	500	113	100	98
Vehicle. Shifting-seat.	C. H. Stratton	694,037	Feb. 25	3495	770	98	1580
Vehicle side dump.	T. Carroll	717,074	Dec. 30	4827	1046	101	2919
Vehicle single-perch gear.	F. E. Wilcox	709,449	Sept. 16	2790	628	100	2588
Vehicle. Speed.	C. Rossier	698,559	Apr. 29	4035	892	99	917
Vehicle. Speed.	F. S. Stoddard and F. E. Whitney	716,133	Dec. 16	2875	633	101	2469
Vehicle speed-registering attachment.	G. A. Kennedy	701,353	June 3	132	27, 28	99	2136
Vehicle speed-regulating mechanism. Motor.	S. Scognamiglio and C. H. Posner	714,614	Nov. 25	4160	920	101	1804
Vehicle splinter-bar.	A. Kusznimink	698,405	Feb. 18	2254	493	98	1309
Vehicle-spring	Z. T. Bush.	692,613	Feb. 4	705	163	98	944
Vehicle-spring	J. Bratsing	711,381	Oct. 14	1893	412	101	410
Vehicle-spring	E. F. Gehman	714,574	Nov. 25	4082	903	101	1788
Vehicle spring-coupling	H. K. Pell	711,437	Oct. 14	1989	431	101	428
Vehicle spring-gear	D. True	697,570	Apr. 15	2208	491	99	501
Vehicle spring-gear.	W. L. Manning	711,576	Oct. 21	2267	492	101	501
Vehicle-spring hanger	H. K. Pell	714,024	Nov. 18	3017	671	101	1552
Vehicle. Spring-motor.	C. A. Haas	695,430	Mar. 11	2044	459	98	2153
Vehicle-spring. Pneumatic	W. C. Wood	715,723	Dec. 9	2026	453	101	2268
Vehicle. Steam-propelled	H. K. Hess	704,253	July 8	1647	358	100	345
Vehicle. Steam-propelled	H. K. Hess	704,254	July 8	1650	359	100	345
Vehicle. Steam-propelled road-	S. S. Straker	698,232	Apr. 22	3466	762	99	784
Vehicle steering and controlling device. Road-	M. D. Porter	704,102	July 8	1379	297	100	290
Vehicle steering and driving gear. Motor.	R. W. H. Bailey and A. W. Brightmore.	698,891	Apr. 29	4779	1050	99	1081
Vehicle steering apparatus.	A. W. Kent	700,779	May 27	3277	752	99	1902
Vehicle steering apparatus. Self-propelled.	J. F. Hurtig	694,478	Mar. 4	261	59	98	1768
Vehicle steering device.	H. J. Leighton	717,421	Dec. 30	5482	1189	101	3058
Vehicle steering device. Motor-	O. F. Persson.	698,330	Apr. 11	2100	460	98	1257
Vehicle steering-gear	P. L. Malicot and E. E. Blin	698,407	Feb. 23	3761	830	99	845
Vehicle steering-lock	G. P. Aborn	697,699	Apr. 15	2460	548	99	551
Vehicle steering mechanism	H. Lemp.	692,869	Feb. 11	1159	258	98	1062
Vehicle steering mechanism	H. Lemp.	692,873	Feb. 11	1172	260	98	1065
Vehicle steering mechanism	H. F. Maxim	702,980	June 24	3136	721	99	2809
Vehicle steering mechanism	J. F. Duryea	714,878	Dec. 2	486	102	101	1938
Vehicle steering mechanism. Locking device for.	C. S. Van Wagoner	707,464	Aug. 19	2778	629	100	1722
Vehicle steering mechanism. Motor-	F. R. Hiester	691,054	Jan. 14	1302	295	98	287
Vehicle steering mechanism. Motor-	C. W. Hunt.	694,384	Mar. 4	95	91	98	1352
Vehicle steering mechanism. Motor-	L. P. Moores	695,222	Mar. 11	1700	377	98	2087
Vehicle steering mechanism. Motor-	C. Crompton	714,928	Dec. 23	3386	730	101	2587
Vehicle steering mechanism. Trail-	W. F. MacGregor	716,366	Dec. 2	576	122	101	1951
Vehicle-step.	J. M. Peyton and T. W. Luttrell	694,572	Mar. 4	460	99	98	1811
Vehicle-step.	A. F. Dietz	717,361	Dec. 30	5368	1166	101	3036
Vehicle storm-apron	W. G. Reese	701,614	June 3	598	132	99	2238
Vehicle storm-curtain	W. M. Norment	695,332	Mar. 11	1880	420	98	2125
Vehicle storm-shield attachment	R. Reeder	702,480	June 17	2171	495	99	2502
Vehicle-storm-shield attachment	J. J. Russell, Jr.	712,970	Nov. 4	955	222	101	1092
Vehicle-support. Elastic.	A. Pulbrook	699,709	May 13	1115	261	99	1418
Vehicle toe-rest	L. B. Truslow	696,661	Apr. 1	499	115	99	108
Vehicle-top.	G. W. Kernodle	703,278	June 24	3680	847	99	2916
Vehicle-top.	L. Gillaspay	706,816	Aug. 13	1582	355	100	1451
Vehicle-top front.	J. B. McMullen	714,016	Nov. 18	3004	680	101	1550
Vehicle-top spring-padding.	R. A. Keller	714,190	Nov. 25	3381	745	101	1648
Vehicle-tops. Means for raising or lowering	D. Elwell	696,022	Mar. 25	3147	710	98	2416
Vehicle truss-rod spring	T. G. Mandt	692,162	Jan. 28	3374	761	98	750
Vehicle water-cooling apparatus. Motor.	E. T. Burrows	701,464	June 3	326	72	99	2176
Vehicle-wheel	A. D. Smith.	690,531	Jan. 7	317	63	98	69
Vehicle-wheel	G. S. Turner	692,090	Jan. 28	3263	737	98	726
Vehicle-wheel	C. Dégrange	693,380	Feb. 18	2203	483	98	1299
Vehicle-wheel	C. B. Van Horn	698,929	Feb. 25	3259	717	98	1532
Vehicle-wheel	W. C. Rastetter	694,192	Feb. 25	3779	855	98	1636
Vehicle-wheel	H. Edenborough	695,805	Mar. 18	2739	624	98	2919
Vehicle-wheel	W. F. Masters	696,249	Mar. 25	3617	809	98	2312
Vehicle-wheel	E. Hudson	697,222	Apr. 8	1625	365	99	360
Vehicle-wheel	S. E. Oviatt	699,005	Apr. 29	4961	1098	99	1119
Vehicle-wheel	P. H. White.	699,994	May 13	1679	386	99	1533
Vehicle-wheel	D. H. Haywood	700,489	May 20	2705	619	99	1763
Vehicle-wheel	G. S. Lee	700,514	May 20	2752	630	99	1773
Vehicle-wheel	G. S. Lee	700,515	May 20	2753	630	99	1774
Vehicle-wheel	G. S. Lee	700,516	May 20	2755	631	99	1774
Vehicle-wheel	D. H. Haywood	700,686	May 20	3042	695	99	1836
Vehicle-wheel	H. H. O'Meara	701,379	June 3	172	37	99	2143
Vehicle-wheel	H. H. Schenk	703,003	June 24	3172	731	99	2816
Vehicle-wheel	C. T. McCue	703,075	June 24	3316	762	99	2843
Vehicle-wheel	N. A. Newton	705,121	July 22	3369	730	100	731
Vehicle-wheel	C. H. Wheeler and F. W. Kremer	705,176	July 22	3483	757	100	754



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Vehicle-wheel	C. H. Wheeler and F. W. Kremer	705,177	July 22	3485	757	100	755
Vehicle-wheel	G. S. Lee	709,546	Sept. 23	3021	672	100	2648
Vehicle-wheel	S. B. Whiteside	712,875	Nov. 4	770	178	101	1056
Vehicle-wheel	S. B. Whiteside	712,875	Nov. 4	772	178	101	1056
Vehicle-wheel	S. B. Whiteside	713,032	Nov. 4	1060	247	101	1113
Vehicle-wheel	G. S. Lee	713,226	Nov. 11	1447	323	101	1210
Vehicle-wheel	J. M. Alderfer	714,271	Nov. 25	3539	778	101	1681
Vehicle-wheel	C. W. Hunt	717,204	Dec. 30	5103	1106	101	2978
Vehicle-wheel	J. Hopper	717,404	Dec. 30	5449	1183	101	3051
Vehicle wheel and tire	C. Howells	691,467	Jan. 21	2090	468	98	470
Vehicle wheel and tire	G. W. Pitt and E. Martin	692,241	Feb. 4	216	52	98	844
Vehicle-wheel and tire therefor	L. F. and R. C. Altpeter	691,279	June 3	3	1	99	2109
Vehicle-wheel guide and track	J. N. Newsom and L. Malone	712,578	Nov. 4	227	55	101	944
Vehicle-wheel-lubricating device	W. F. Probst	717,269	Dec. 30	5210	1131	101	3001
Vehicle-wheel. Metallic	T. Midgley	713,786	Nov. 18	2556	569	101	1456
Vehicle wheel. Motor	G. O. Venner	704,151	July 8	1481	317	100	311
Vehicle-wheel spindle	E. E. Root	705,968	July 29	5091	1110	100	1091
Vehicle-wheels. Device for transmitting rotary motion to	O. Cluts	717,079	Dec. 30	4896	1048	101	2921
Vehicle-wrench	L. Davis	710,847	Oct. 7	863	187	101	176
Vehicle-wrench	W. Lee	714,922	Dec. 2	572	121	101	1950
Vehicles. Brake for pivotal running-gear of	W. Wiedinmyer	707,451	Aug. 19	2809	635	100	1729
Vehicles. Chain-adjusting device for motor	C. O. Hedstrom	707,923	Aug. 26	3754	841	100	1936
Vehicles. Combined muffler and mud-guard for motor	R. M. Keating	705,327	July 22	3917	848	100	841
Vehicles, cycles, &c. Variable-speed gear for motor	J. R. Madan	697,153	Apr. 8	1449	325	99	328
Vehicles. Device for lessening the noise of vibration in	H. G. Farr	712,281	Oct. 28	3622	791	101	796
Vehicles. Differential gear for self-propelling	A. Herschmann	705,671	July 29	4556	989	100	982
Vehicles. Expandable pulley for motor	P. I. Viel	703,360	July 1	893	197	100	179
Vehicles for mechanically operating electric switches. Connection of strikers to motor	W. Kingsland	698,965	Apr. 29	4693	1081	99	1106
Vehicles. Frictional retarding means for spring-venting road	J. M. M. Truffault	695,508	Mar. 18	2182	492	98	2205
Vehicles from slipping sidewise. Means for preventing road	E. T. L. Williams	709,838	Sept. 23	3551	800	100	2758
Vehicles. Machine for handling	G. E. and J. S. Myers	706,437	Aug. 5	889	192	100	1295
Vehicles. Mechanism for electric propulsion of road	D. S. Bergin	703,374	July 1	19	4	100	7
Vehicles. Means for automatic control of motor	H. H. Sherk	699,583	May 6	866	202	99	1353
Vehicles. Metallic chest for motor	F. Charron and L. Girardot	704,676	July 15	2432	525	100	534
Vehicles. System of control for electrically-propelled	W. B. Potter	715,291	Dec. 9	1216	261	101	2104
Vehicles. Tubular pole or shaft for	H. McCoughlin	705,427	July 22	4034	874	100	866
Vehicles. Two-speed and differential gear for motor	J. C. Robbins	705,790	July 29	4773	1085	100	1026
Vehicles. Variable-speed and gear-reversing mechanism for motor road	A. de Dion and G. Bouton	694,842	Dec. 4	959	213	98	1916
Vehicles. Variable-speed gear for	F. Markgraf	715,044	Mar. 9	1425	308	101	2147
Veil-fastener	W. Bernstein	701,133	May 27	3394	701	99	2397
Veil-fastener	A. Bippart	701,991	June 10	1276	292	99	2388
Veil-holder	M. M. McGrath	697,523	Apr. 15	2131	474	99	486
Velocipede	A. M. Allen	713,731	Nov. 18	2457	548	101	1436
Velocipede	J. S. Copeland	716,625	Dec. 23	3870	845	101	2692
Velocipede and wagon. Combined	E. L. Hoy	704,041	July 8	1242	267	100	261
Velocipede-bearing	C. Glover	695,682	Mar. 18	2521	571	98	2273
Velocipede crank shaft and hanger	E. G. Latta	711,057	Oct. 14	1263	275	101	276
Velocipede drive and brake mechanism	J. S. Copeland	710,544	Oct. 7	858	186	101	174
Velocipede driving-gear	F. A. Rich	707,012	Aug. 12	1929	432	100	1527
Velocipede. Folding railway	H. Barry	704,672	July 15	2426	524	100	523
Velocipede-frame	J. R. Moore	694,567	Mar. 4	453	97	98	1809
Velocipede or the like	W. H. Hayes	708,509	Sept. 9	1489	341	100	2298
Velocipede-pedal	J. H. Barry	697,780	Apr. 15	2500	576	99	582
Velocipede-pedal	E. W. Henstock	700,492	May 20	2714	621	99	1765
Velocipede. Railway	C. Gorneman	693,128	Feb. 11	1696	370	98	1173
Velocipede. Railway	M. F. McCormick	695,826	Mar. 18	2775	633	98	2326
Velocipede. Railway	O. J. Donovan	711,245	Oct. 14	1639	353	101	356
Velocipede. Winter	B. C. Trudelle	691,826	Jan. 28	2782	625	98	630
Velocipedes, &c. Stowaway mud-guard for	C. W. F. H., and E. A. Bluemel	703,228	June 24	3607	829	99	2901
Velocipedes. Utilizing power in	A. Gibbs	694,264	Feb. 25	3905	860	98	1661
Vending apparatus. Automatic liquid	S. Newman	711,069	Oct. 14	1294	280	101	281
Vending apparatus. Coin-controlled	S. Newman and M. Borsodi	691,564	Jan. 21	2247	506	98	503
Vending apparatus. Coin-controlled	D. Bourne	702,918	June 24	2994	689	99	2781
Vending apparatus. Coin-controlled	O. Ashton	708,193	Sept. 2	363	86, 87	100	2056
Vending apparatus. Coin-controlled	T. R. Laing and C. T. Frantz	716,058	Dec. 16	2722	601	101	2437
Vending apparatus. Collar-button	M. F. Price	712,962	Nov. 4	344	219	101	1930
Vending apparatus. Newspaper	L. C. Overpeck	704,466	July 8	2052	445	100	432
Vending-machine	G. L. W. Johnson	694,968	Mar. 11	1222	267	98	1988
Vending-machine	E. A. Wilcox	700,394	May 20	2520	577	99	1724
Vending-machine	J. C. de Janisch	702,218	June 10	1689	380	99	2473
Vending-machine	D. Knowlton	703,137	June 24	3432	787	99	2867
Vending-machine	D. Knowlton	703,138	June 24	3435	788	99	2868
Vending-machine	E. A. Wilcox	705,005	July 15	3127	675	100	667
Vending-machine	F. A. Knapp	711,634	Oct. 21	2975	521	101	524
Vending-machine	M. B. Mills	713,324	Nov. 11	1681	379	101	1257

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Vending-machine .....	E. Shaw .....	714,615	Nov. 25	4164	920 921 922 923	101	1804
Vending-machine .....	F. J. Beier .....	715,539	Dec. 9	1693	369 370 371	101	2199
Vending-machine .....	J. A. Williams .....	716,506	Dec. 23	3622	791 792 793	101	2638
Vending-machine .....	J. A. Williams .....	716,507	Dec. 23	3626	792 793 794	101	2638
Vending-machine. Automatic .....	B. M. Davis .....	696,011	Mar. 25	3123	705 706 707	98	2411
Vending-machine. Automatic .....	J. J. Reed .....	697,661	Apr. 15	2384	530 531 532	99	536
Vending-machine. Automatic .....	S. Mayer .....	704,732	July 15	2576	555 556 557	100	553
Vending-machine. Cigar .....	W. R. Dutemple .....	699,670	May 13	1042	243 244 245	99	1404
Vending-machine. Cigar .....	W. R. Dutemple .....	702,639	June 17	2481	569 570 571	99	2656
Vending-machine. Coin-actuated .....	F. M. Sears .....	707,524	Aug. 19	2802	654 655 656	100	1746
Vending-machine. Coin-controlled .....	A. C. Carey .....	690,926	Jan. 14	1054	237 238 239	98	237
Vending-machine. Coin-controlled .....	F. Lynes .....	698,984	Apr. 29	4926	1088 1089 1090	99	1112
Vending-machine. Coin-controlled .....	D. K. Stone and W. W. Healy .....	705,477	July 22	4120	896 897 898	100	884
Vending-machine. Coin-controlled liquid .....	O. E. Sorg .....	690,475	Jan. 7	187	98 99 100	98	41
Vending-machine coin-controlled mechanism .....	D. Knowlton .....	703,207	June 24	3567	820 821 822	99	2933
Vending-machine. Coin-controlled newspaper .....	A. D. Smith .....	699,252	May 6	227	53, 54 55 56	99	1221
Vending-machine. Coin-operated .....	C. L. Hurd .....	690,433	Jan. 7	91	20 21 22	98	22
Vending-machine. Coin-operated .....	C. L. Hurd .....	692,786	Feb. 4	1003	227 228 229	98	1002
Vending-machine. Coin-operated .....	G. J. Morgan and G. Tillotson .....	696,742	Apr. 1	660	149 150 151	99	141
Vending-machine. Coin-operated .....	P. G. MacLean .....	704,201	July 8	1571	339 340 341	100	320
Vending-machine. Liquid .....	T. F. Solon .....	713,019	Nov. 4	1035	241 242 243	101	1108
Vending-machine. Match .....	G. G. Schroeder .....	699,821	May 13	1338	310 311 312	99	1464
Vending-machines, &c. Receptacle or casing for .....	H. H. Pulver .....	693,532	Feb. 18	2493	547 548 549	98	1358
Vending-machines. Valve mechanism for coin-controlled .....	W. J. Strong .....	704,950	July 15	3011	647 648 649	100	646
Vending mechanism for coin-controlled apparatus .....	C. A. Yale .....	692,964	Feb. 11	1379	299 300 301	98	1109
Veneer-bending machine .....	E. Aber .....	710,231	Sept. 30	4344	976 977 978	100	2938
Veneer-box-making machine .....	W. H. Stout .....	706,274	Aug. 5	546	118 119 120	100	1226
Veneer-cutting machine .....	L. G. Merritt .....	699,545	May 6	779	184 185 186	99	1335
Veneer-cutting machine .....	L. G. Merritt .....	699,546	May 6	784	184 185 186	99	1337
Veneer-cutting machine .....	L. G. Merritt .....	706,331	Aug. 5	657	143 144 145	100	1248
Veneer-drier .....	A. S. Nichols .....	717,255	Dec. 30	5189	1125 1126 1127	101	2997
Veneer-drying machine .....	M. Rossow .....	705,708	July 29	4631	1004 1005 1006	100	996
Veneer for use in the manufacture of boxes, &c. .....	J. C. Roberts .....	692,909	Feb. 11	1257	278 279 280	98	1083
Veneer-package separator .....	W. J. Ott .....	716,272	Dec. 16	3145	688 689 690	101	2524
Veneer-slicer .....	J. N. Roberts .....	704,213	July 8	1586	343 344 345	100	332
Veneers. Apparatus for edge-uniting .....	W. M. Boenning .....	709,864	Sept. 30	3602	814 815 816	100	2782
Vent-hole closure .....	W. R. Arnold .....	713,935	Nov. 18	2855	633 634 635	101	1519
Ventilated box .....	L. D. Lewis .....	702,106	June 10	1491	336 337 338	99	2432
Ventilating apparatus .....	J. A. Hart .....	691,312	Jan. 14	1777	404 405 406	98	385
Ventilating apparatus .....	W. H. and J. F. Jordan .....	694,648	Mar. 4	593	131 132 133	98	1838
Ventilating apparatus .....	L. G. Swanson .....	696,914	Apr. 8	1003	223 224 225	99	212
Ventilating apparatus .....	J. and W. Titus .....	699,352	May 6	423	96 97 98	99	1260
Ventilating apparatus .....	H. Kroder .....	714,714	Dec. 2	123	25 26 27	101	1863
Ventilating buildings. Means for .....	T. Darlington .....	697,815	Apr. 15	2666	591 592 593	99	597
Ventilating-T .....	E. F. Wixted .....	708,606	Sept. 9	1691	245 246 247	100	2213
Ventilator:							
See Car-ventilator.	Sash-ventilator.						
Chimney-ventilator.	Ship's ventilator.						
Locomotive-engine ventilator.	Stovepipe-ventilator.						
Window-ventilator.							
Mine-ventilator.							
Ventilator .....	J. Horsfield .....	693,022	Feb. 11	1473	322 323 324	98	1129
Ventilator .....	H. W. Waldmire .....	693,193	Feb. 11	1827	401 402 403	98	1205
Ventilator .....	I. C. Ramirez .....	697,393	Apr. 8	1806	405 406 407	99	404
Ventilator .....	R. E. Rudolph .....	699,016	Apr. 29	4980	1102 1103 1104	99	1123
Ventilator .....	H. M. Smith .....	700,572	May 20	2844	653 654 655	99	1792
Ventilator .....	W. McDermott .....	702,581	June 17	2366	540 541 542	99	2632
Ventilator .....	T. M. Carpenter and F. L. Baker .....	703,762	July 1	712	158 159 160	100	142
Ventilator .....	J. W. Maus .....	709,230	Sept. 16	2344	531 532 533	100	2494
Ventilator .....	W. C. Cottler .....	709,659	Sept. 23	3279	724 725 726	100	2702
Ventilator .....	J. R. Wild .....	710,350	Sept. 30	4545	1025 1026 1027	100	2980
Ventilator .....	J. O. Stanley .....	715,169	Dec. 2	992	215 216 217	101	2039
Ventilator .....	G. G. Britton .....	715,968	Dec. 16	2543	562 563 564	101	2399
Ventilator .....	S. H. Jacobson .....	716,714	Dec. 23	4022	882 883 884	101	2723
Ventilator .....	R. E. M. Bain .....	717,319	Dec. 30	5292	1151 1152 1153	101	3020
Ventilator and mirror-protector .....	W. C. McBride .....	704,076	July 8	1318	287 288 289	100	276
Ventilator-flue .....	T. J. Goodwin .....	700,762	May 27	3229	742 743 744	99	1893



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Vermix-exterminator	M. J. Morford and G. E. Ambrose	698,723	Apr. 29	4424	776	96	1002
Vessel. Automatically propelled multiple-hull.	J. Graham	696,097	Mar. 25	3303	944	98	2451
Vessel. Bulk-cargo	J. R. Oldham	704,362	July 8	1870	405	100	395
Vessel-cap	P. Lindemeyer	692,462	Feb. 4	422	99	98	885
Vessel closure. Metallic	R. B. King	690,441	Jan. 7	105	95	98	25
Vessel. Diving	T. H. Hazard	700,769	May 27	3261	747	99	1899
Vessel. Domestic	W. C. Jackson	712,540	Nov. 4	153	37	101	929
Vessel-handle	A. R. Pritchard	691,970	Jan. 23	3033	681	98	682
Vessel-holding device	G. E. Titcomb	712,215	Oct. 28	3507	769	101	772
Vessel. Marine	F. A. Knapp	713,454	Nov. 11	1903	431	101	1304
Vessel. Metallic	J. E. Case and W. T. Conway	713,355	Nov. 18	2902	645	101	1528
Vessel. Non-refillable and non-remptiable	690,517	Apr. 1	1009	224	99	98	213
Vessel-stopper	B. C. Cockrell	699,657	May 13	1020	237	99	1309
Vessel. Storing or shipping	O. Anderson	712,234	Oct. 28	3543	776	101	781
Vessel-support	A. P. Hallock	714,479	Nov. 25	3907	863	101	1751
Vessel. Tilting	A. J. Betteridge	706,795	Aug. 12	1559	347	100	1450
Vessel. War	H. Maxim	695,108	Mar. 11	1472	328	98	2040
Vessels. Apparatus for indicating, recording, and integrating the speed of	C. E. Delaney	691,451	Jan. 21	2062	462	98	465
Vessels. Apparatus for raising sunken	J. Barker	692,001	Jan. 28	3088	694	98	622
Vessels. Apparatus for raising sunken	F. G. Nielsen	695,331	Mar. 11	1889	420	98	2125
Vessels at sea. Apparatus for repairing	N. J. McLaughlin	704,905	July 15	2800	620	101	613
Vessels. Closing containing	T. T. McNish	695,759	Mar. 18	2644	601	98	2399
Vessels. Construction of composite	E. Hayes	703,413	July 1	907	18	100	20
Vessels. Detachable deck for marine	P. J. Weder	703,869	July 1	907	199	100	182
Vessels. Device for retarding the speed of	A. Zerbe	704,729	July 15	2537	546	100	514
Vessels. Hoisting apparatus for wrecking	S. Lake	710,472	Oct. 7	130	30	101	28
Vessels. Means for preventing racing in screw-propelled	G. Sollitt	716,123	Dec. 16	2858	630	101	2465
Vessels. Storage of supplies for submarine	S. Lake	714,921	Dec. 2	569	121	101	1950
Vest	E. R. Wood	714,767	Dec. 2	229	46	101	1884
Veterinary appliance	N. Stalker	703,217	Sept. 2	514	117	100	2085
Veterinary mouth-speculum	P. J. Weder	692,565	Feb. 4	61	144	98	923
Veterinary obstetric instrument	C. Giltz	704,629	July 15	2335	512	100	507
Veterinary remedy	R. H. Fox	691,255	Jan. 14	1654	360	98	360
Veterinary speculum	R. J. Fleming	714,369	Nov. 25	3719	819	101	1716
Veterinary surgeon's float	P. J. Weder	703,867	July 1	903	198	100	181
Veterinary surgeon's float	P. J. Weder	703,868	July 1	905	198	100	181
Veterinary surgeon's float	P. J. Weder	703,869	July 1	907	199	100	182
Vial-carrying frame	J. C. Jones	697,725	Apr. 15	2500	558	99	560
Virtual-protector	W. M. and J. M. Sausser	700,048	Sept. 16	1990	454	100	2418
View outfit	R. R. Whiting	695,978	Mar. 25	3053	692	98	2397
Vine cutter. Fertilizing	J. M. Barnes	715,535	Dec. 9	1682	367	101	2196
Violin	M. Kriwulka and P. E. Holmquist	712,550	Nov. 4	181	43	101	935
Violin-bow	E. C. McElhany	710,499	Oct. 7	189	41	101	40
Violin-bowing-guide	H. S. Strauss and E. S. Schwerdtle	713,371	Nov. 11	1785	303	101	1189
Violin-case	E. Brey	713,357	Oct. 28	3302	820	101	824
Violin-keyboard	G. P. Buchanau	697,799	Apr. 15	2640	585	99	592
Violin-muting device	E. Barginde	714,658	Dec. 2	7	2	101	1838
Violin-strings. Making preservatives for	P. Lutz	699,541	May 6	770	99	98	1334
Violins, &c. Bridge for	A. Hurley	698,648	Feb. 18	2724	601	98	1406
Viscose and products derived therefrom. Treating.	C. F. Cross, E. J. Bevan, and C. Beadle	717,355	Dec. 30	5356	101	3093	
Viscose. Manufacture of	A. Fielding	708,760	Sept. 9	1384	289	100	2276
Viscose on textiles, &c. Fixing	A. Fielding	708,761	Sept. 9	1385	289	100	2276
Vise	W. P. Phenix	698,149	Feb. 11	1746	382	98	1192
Vise	W. E. Snediker	699,585	May 6	871	202	99	1335
Vise	J. Dennis	701,167	May 27	3984	916	99	2049
Vise	F. I. Webber	703,325	June 24	3749	863	99	2030
Vise	C. D. Bingham	703,376	July 1	24	5	100	8
Vise	W. E. Snediker	709,120	Sept. 16	2128	488	100	2449
Vise	J. F. Emmert	709,399	Sept. 16	2693	604	100	2567
Vise	E. S. and B. L. Williamson	711,607	Oct. 21	2330	509	101	514
Vise	J. Dodge	711,948	Oct. 28	3023	664	101	678
Vise	E. Zimmerman	713,098	Nov. 4	1069	249	101	1114
Vise	J. Lewin	717,422	Dec. 30	5484	1190	101	3053
Vise and bracket	C. R. Harper	708,038	Sept. 2	81	19	100	1998
Vise attachment	S. O. Root	698,858	Apr. 29	4714	1039	99	1068
Vise attachment	B. McMahon and P. Lindgren	711,068	Oct. 14	1293	280	101	281
Vise. Bench	C. J. Yonge	698,811	Feb. 18	3010	666	98	1465
Vise. Bench	J. R. Long	710,482	Oct. 7	151	35	101	83
Vise. Bench	J. B. Benedict	713,124	Nov. 11	1224	289	101	1170
Vise. Double-acting	J. Benedict	716,805	Dec. 23	4194	919	101	2758
Vise, drill, and bolt-holder. Combined	E. L. Kennedy	705,932	July 29	5027	1095	100	1077
Vise. Folding	J. W. Gaede	713,423	Nov. 11	1851	418	101	1294
Vise. Hand	W. H. Wilkening and W. A. Nehls	702,517	June 17	2244	511	99	2098
Vise-jaw attachment	I. C. Israelson	712,136	Oct. 28	3877	741	101	747
Vise. Pipe	J. B. Vogelsbach and T. Gray	713,144	Sept. 30	3783	851	101	2818
Vise. Pipe	T. J. Yates	713,189	Nov. 11	1977	310	101	1196
Vise. Pipe	J. and J. Bryant	713,948	Nov. 18	2982	641	101	1534
Vise. Pipe	J. R. Long	711,208	Nov. 25	3417	752	101	1655
Vise. Pipe	M. Glenn	716,217	Dec. 16	3057	667	101	2506
Vise. Rapid-acting	H. D. Chipman	703,765	July 1	718	159	100	144
Visor and eye-shield. Combined	H. L. Waldron	694,449	Mar. 4	215	48	98	1758
Voltage-regulator	T. M. Pusey	704,371	July 8	1879	407	100	397
Voltaic cell	W. M. Johnson	693,274	Feb. 11	1999	435	98	1295
Voltaic cell	H. B. Taylor	713,174	Nov. 11	1350	304	101	1190
Voltmeter-scale	W. C. Baker	710,938	Oct. 14	1018	225	101	224
Voltmeter-switch	J. L. Hinds	698,200	Apr. 22	3414	751	99	772

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. L.	Vol.	Page.
Vote-counting frame	T. C. Orndorff	699,406	May 6	531	122	90	1284
Voting-machine	A. J. Roth	690,880	Jan. 7	963	218	98	203
Voting-machine	C. M. Wright	692,581	Feb. 4	639	150	98	920
Voting-machine	F. M. Boring and L. P. Chitwood	692,976	Feb. 11	1404	304	98	1114
Voting-machine	L. W. Luellen	693,039	Feb. 11	1508	328	98	1186
Voting-machine	H. A. Adams	694,342	Mar. 4	1	12	98	1713
Voting-machine	H. B. Cary	694,525	Mar. 4	377	32	98	1793
Voting-machine	L. W. Luellen	694,765	Mar. 4	823	189	98	1887
Voting-machine	S. D. Carpenter, E. R. Stevens, and C. K. Tenney	694,830	Mar. 4	945	210	98	1912
Voting-machine	A. F. Bardwell	696,925	Apr. 8	1025	228	99	287
Voting-machine	A. J. Bolting	696,932	Apr. 8	1048	229	99	211
Voting-machine	G. L. Hoxie	700,931	May 27	3556	818	99	1937
Voting-machine	G. W. Laprade	701,200	May 27	4051	991	99	2003
Voting-machine	O. A. Gatrone	701,324	June 3	80	17	99	2125
Voting-machine	J. B. Mahana and W. P. Ely	702,446	June 17	2103	470	99	2377
Voting-machine	C. F. Harrington	703,787	July 1	762	168	100	152
Voting-machine	W. Langrill	706,326	Aug. 5	649	141	100	1246
Voting-machine	J. Blocher	711,919	Oct. 21	2246	648	101	614
Voting-machine	S. Loe	712,079	Oct. 28	3271	716	101	726
Voting-machine	A. J. Gillespie	713,090	Nov. 11	1185	271	101	1157
Voting-machine	G. L. Hoxie	715,805	Dec. 16	2207	493	101	2324
Voting-machine. Assembly	F. L. Dyer	701,314	June 3	57	12	99	2120
Voucher	H. Wise	705,807	July 29	4804	1043	100	1082
Vulcanizer	C. P. Fritz	695,715	Mar. 18	2569	181	98	2283
Vulcanizer	A. J. White	717,480	Dec. 30	5581	1211	101	2077
Vulcanizer door-closing apparatus	T. H. Hyde	703,345	June 24	3807	875	99	2044
Wafer. Duplex	G. A. Barth	699,065	Apr. 29	5063	1119	99	1140
Wage-statement and pay-envelop. Employee's	J. T. Dixon	714,462	Nov. 25	3883	837	101	1747
Wagon	S. D. Reynolds	701,033	June 10	1156	255	99	2366
Wagon	M. Tidd	714,535	Nov. 25	4015	680	101	1774
Wagon and baby-walker. Combined	J. B. Harstone	713,431	Nov. 11	1862	421	101	1297
Wagon and receptacle. Garbage	C. A. Williams	699,906	May 13	1519	349	99	1503
Wagon-body	J. W. Finch	700,635	May 20	2655	679	99	1817
Wagon-body. Farm-	B. F. Washburne	697,225	Apr. 8	1574	352	99	333
Wagon-body lifter	G. H. Wade	707,469	Aug. 18	2783	380	100	1723
Wagon-body lifter	H. Soetebier	709,584	Sept. 23	3482	686	100	2662
Wagon-body lifter	C. W. Nabb	711,337	Oct. 14	1819	395	101	394
Wagon-body. Metal	W. H. Schofield	697,949	Apr. 15	2902	649	99	644
Wagon-body top-box fastener	C. A. Roberts	704,926	July 15	2948	632	100	634
Wagon-bolster stake	A. B. Eisman	690,845	Jan. 7	960	203	98	192
Wagon-box	Z. Z. Campbell	694,941	Mar. 11	1162	251	98	1917
Wagon-box	B. W. Hanson	696,394	Mar. 25	3801	847	98	2353
Wagon-box. Dumping-	E. P. Burnham	713,054	Nov. 11	1112	256	101	1141
Wagon-box. Metallic	W. Grosvenor and W. Milner	700,705	Sept. 23	3288	737	100	2704
Wagon-box-raising device	J. C. Dwyer	712,782	Nov. 4	596	136	101	1821
Wagon-boxes, &c. Apparatus for elevating and supporting	G. E. Hall	717,303	Dec. 30	5417	1778	101	3047
Wagon-boxes, &c. Apparatus for lifting	J. L. Taylor	698,338	Apr. 22	3637	805	99	819
Wagon-boxes. Bump-board for	L. L. Haworth	706,822	Aug. 12	1594	358	100	1460
Wagon-brake	J. H. Jenner	691,547	Jan. 21	2222	500	98	498
Wagon-brake	T. Callister	692,114	Jan. 28	3204	745	98	733
Wagon-brake	C. H. Gunn	696,170	Mar. 25	3464	770	98	2483
Wagon-brake	C. A. Francis	705,061	July 22	3242	702	100	706
Wagon-brake	P. Lewis	708,564	Sept. 9	1908	228	100	2197
Wagon-brake	T. J. Swisher, V. A. A. and E. Burger	710,345	Sept. 30	4535	1024	100	2979
Wagon-brake	L. P. Atkins	710,651	Oct. 7	489	102	101	99
Wagon-brake	J. R. Johnson	711,505	Oct. 21	2128	463	101	472
Wagon-brake	J. Imel	716,425	Dec. 23	3455	754	101	2604
Wagon-brake. Automatic	T. N. Black	690,509	Jan. 7	276	55	98	60
Wagon-brake. Automatic	A. J. Snyder	713,250	Nov. 11	1502	340	101	1220
Wagon-brake. Hay-	J. A. Putt	712,091	Oct. 28	3262	721	101	730
Wagon-brake ratchet	J. J. Shipley	691,670	Jan. 21	2461	551	98	548
Wagon. Chute	E. L. Keyes	701,894	June 10	1092	248	99	2352
Wagon. Chute	A. Ray	710,725	Sept. 23	3316	745	100	2710
Wagon. Coasting-	H. E. Keyes	711,402	Oct. 14	1926	419	101	416
Wagon-coupling	W. S. Chapman	704,838	July 15	2727	601	100	595
Wagon. Delivery-	T. H. Price	692,543	Feb. 4	581	136	98	916
Wagon door. Mail-	W. H. Wansbrough	700,863	May 27	3430	788	99	1932
Wagon. Dump	B. H. Gleason	704,318	July 8	1099	380	99	372
Wagon. Dump	J. W. Haywood	714,481	Nov. 25	3940	864	101	1752
Wagon. Dump	J. W. Haywood	714,482	Nov. 25	3912	865	101	1753
Wagon. Dump	J. W. Haywood	714,483	Nov. 25	3914	865	101	1753



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Wagon. Dumping.	D. S. Watson	691,330	Jan. 14	1839	415 417	98	401
Wagon. Dumping.	J. N. Dixon	693,246	Feb. 11	1955	425	98	1236
Wagon. Dumping.	M. Van Wageningen	690,282	May 6	246	57	99	1224
Wagon. Dumping.	P. Reese	700,086	May 13	1841	428	99	1567
Wagon. Dumping.	M. Becker	702,617	June 17	2436	555 558	99	2646
Wagon. Dumping.	W. McIntosh	707,618	Aug. 26	3095	697 698	100	1805
Wagon. Dumping.	R. J. Glenn	708,134	Sept. 2	251	69	100	3094
Wagon. Dumping.	J. J. Eagan	709,210	Sept. 16	2312	525	100	2487
Wagon. Dumping.	W. Leonhardt	709,715	Sept. 23	3307	742	100	2707
Wagon. Dumping.	E. M. Sandy	710,214	Sept. 30	4313	970	100	2931
Wagon. Dumping.	J. W. Johnson	710,868	Oct. 7	895	195	101	181
Wagon. Dumping.	W. A. Shope	711,539	Oct. 21	2207	480	101	488
Wagon. Dumping.	E. P. Le Gore	711,665	Oct. 21	2442	537	101	538
Wagon. Dumping.	J. Guild	713,981	Nov. 18	2944	653	101	1536
Wagon. Dumping.	J. B. Rhodes	714,239	Nov. 25	3478	765	101	1667
Wagon. Dumping.	J. F. Day	714,286	Nov. 25	3578	786 787	101	1687
Wagon for delivering fermented liquids. Tank.	V. Spietschka	691,980	Jan. 28	3049	685	98	685
Wagon for street-cleaning purposes. Push.	T. Hill	711,895	Oct. 21	2985	638	101	633
Wagon-gear.	J. Austin	695,780	Mar. 18	2693	88	98	2309
Wagon-gear.	G. H. Perry	699,705	May 13	1109	290	99	1416
Wagon-gear. Metal.	J. H. Baker	699,642	May 13	992	230 231	99	1394
Wagon-jack	E. A. Petrie	700,367	May 20	2467	566	99	1714
Wagon-jack	J. D. Mack	705,853	July 29	4887	1062	100	1049
Wagon-jack	G. J. Carr	711,098	Oct. 14	1345	292	101	233
Wagon-jack	J. F. White	714,546	Nov. 25	3676	810	101	1706
Wagon-jack	C. D. Durr	690,408	Sept. 7	38	16	98	11
Wagon metal running-gear.	W. H. Schofield	697,352	Apr. 15	2906	641	99	648
Wagon or sled. Convertible	J. L. Potter and H. E. Cohen	702,677	June 17	2548	585	99	2670
Wagon or tank lining. Grain	C. I. Bostwick	711,197	Oct. 14	1559	335	101	339
Wagon-rack	H. Harris and S. M. Reese	705,755	July 29	4718	1021	100	1013
Wagon-rack for hay-loaders	A. Z. Thomas	704,594	July 15	2300	500	100	496
Wagon-rack	J. T. Crampton and D. Price	715,994	Dec. 16	2594	573	101	2409
Wagon running-gear.	F. A. Pickard	707,530	Apr. 29	4693	672	100	1745
Wagon running-gear.	J. E. Bennett	707,396	Aug. 26	3704	831	100	1925
Wagon running-gear.	A. M. Cushing	714,563	Nov. 25	4062	899	101	1784
Wagon. Sand.	S. W. Albertson	690,913	Jan. 14	1031	232	98	233
Wagon-seat	W. J. Holland	693,392	Feb. 18	2226	488	98	1304
Wagon-seat support	M. Stangel	703,494	July 1	209	49	100	44
Wagon. Self-leveling	N. W. Thompson	700,102	May 13	1809	489	99	1572
Wagon-skein	A. L. Moore	698,544	Apr. 29	4693	1034	99	1064
Wagon-spindle	C. Putnam	693,103	Feb. 25	3215	709	98	1524
Wagon-standard	G. Mock	708,968	Sept. 9	1805	415	100	2363
Wagon-standard	G. Mock	711,434	Oct. 14	1984	480	101	427
Wagon stock and hay rack combined	C. H. Williams	711,142	Oct. 14	1419	307	101	310
Wagon tail-board fastening	J. B. Graham	700,416	May 20	2559	586	99	1732
Wagon-truck	J. A. McGarry	698,213	Apr. 22	3438	755	99	778
Wagon-truck. Steam.	E. H. White	699,890	May 13	1482	36	99	1484
Wagons. Aer. Lifting device for coal.	G. E. Marx	708,819	Sept. 9	5118	348	100	2303
Wagons on tracks. Device for guiding.	S. N. Stewart	702,503	June 17	2223	506	99	2694
Wainscoting or the like	W. S. Satterfield	715,156	Dec. 2	970	210	101	2485
Waistband	A. Bernstein	694,820	Mar. 4	930	206	98	1909
Waistband	L. N. Gross	701,333	June 3	101	21	99	2130
Waistband-adjuster	W. S. Evans	693,249	Feb. 11	1958	425	98	1257
Waistband for pants. Supplemental	S. Schelinsky	691,006	Jan. 14	1210	274	98	268
Waist. Child's	F. A. Platz	705,636	Jan. 7	775	172	98	164
Waistcoat	E. G. D. Wade	703,684	July 1	576	128	100	114
Waist former. Long.	J. C. Kimsey	707,239	Aug. 19	2362	530	100	1636
Waist-holder and skirt-supporter. Combined	F. W. Tucker	698,875	Apr. 29	4740	1044	99	1074
Waist-lengthening device	E. De Laney	696,804	Apr. 1	775	176	99	164
Waist-shaping means	M. J. Hennessy	694,641	Mar. 4	582	128	98	1835
Waist, skirt, and belt holder	L. A. Emery	693,383	Feb. 18	2207	485	98	1300
Wall and bricks for same. Masonry	A. H. Moses	707,444	Aug. 19	2747	622	100	1716
Wall-bracket. Adjustable	G. Holtz	714,094	Dec. 2	83	17	101	1854
Wall-bracket. Adjustable	C. H. Richardson	717,121	Dec. 30	4904	1062	101	2385
Wall. Building.	A. De Man	705,048	July 22	3216	695	100	701
Wall. Building.	A. G. Zimmermann and J. P. Doerr	710,830	Oct. 7	833	181	101	170
Wall-covering. Embossed	R. Völker	703,863	July 1	897	100	100	180
Wall-finish and making same	G. W. Wodicka	709,188	Sept. 16	2272	100	100	2477
Wall-nail	A. Hofmann	703,704	July 1	699	135	100	129
Wall or fence	G. Liebau	701,588	June 3	554	121	99	2223
Wall-protecting device	F. L. Taylor and E. C. Tolman	695,965	Mar. 25	3030	687	98	2392
Wall. Retaining.	F. A. Bone	705,732	July 29	4675	1012	100	1095
Wall-tie	C. T. Inman	700,932	May 27	3561	819	99	1958
Wall tie or bond	P. Hanshili	702,944	June 24	3059	704	99	2791
Wall. Tile	J. L. Record	692,544	Feb. 4	582	136 137	98	916
Walls. Mold for building concrete or cement	W. H. Cadwell	710,749	Oct. 7	675	141	101	137
Walls. Mold for concrete	H. A. Taylor	713,173	Nov. 11	1348	304	101	1190
Wardrobe	A. P. Barney	697,778	Apr. 15	2597	576	99	581
Wardrobe	G. Bolz	703,173	June 24	3590	804	99	2879
Wardrobe	L. Robertson	710,009	Sept. 30	3908	883	100	2844
Wardrobe and dresser. Combined folding	M. J. Randall	700,237	May 20	2193	501 502	99	1659
Wardrobe and traveling-trunk. Combined	E. Wolfgang	691,518	Jan. 21	2182	488 489	98	490

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Wardrobe. Folding	H. M. Greenfield	710,680	Oct. 7	541	112	101	110
Wardrobe. Portable	P. D. Graaff	708,341	Sept. 2	631	113	100	2109
Warm-air register	T. E. Hunt	715,806	Dec. 16	2211	493	101	2325
Warmer	F. J. Meier	705,267	July 22	3703	494	100	796
Warning-bag	T. O'Donnell	703,351	June 24	3817	803	99	2946
Warp-baling machine	E. T. Garsed	713,424	Nov. 11	1852	877	101	1295
Warp-beam attachment	A. Tourtellier	714,836	Dec. 2	379	419	101	1911
Warp-stop-motion apparatus	J. A. Lamb	690,591	Jan. 7	425	91	98	90
Warp-stop-motion detector	D. D. Mahoney	698,123	Apr. 22	3263	714	99	742
Warp-stop-motion. Electrical	V. Macku	712,822	Nov. 4	668	155	101	1034
Warp-stop-motion mechanism	C. F. Roper	696,083	Mar. 25	3259	737	99	2440
Warp-stop-motion mechanism	W. I. Stimpson	699,117	Apr. 29	5144	1138	99	1156
Warp stop-motion vibrator	A. K. Pratt	697,169	Apr. 8	1476	331	99	333
Warp-threads. Device for correcting improper registry of party-colored	H. Hardwick	691,136	Jan. 14	1430	323	98	313
Warp-threads. Machine for drawing in	H. Pardon	700,075	May 13	1817	421	99	1562
Warp-threads. Mechanism for uniting the ends of.	G. Hiller	714,900	Dec. 2	527	422	101	1941
Warper stop-motion mechanism	A. E. Rhoades	703,471	July 1	175	111	100	37
Warping-machine	J. W. Dimick, Jr., and J. Jagger	699,615	May 6	925	40	99	1366
Warping-machine creel	T. C. Entwistle	699,159	May 6	59	215	99	1188
Washbench	L. A. Robbins	706,785	Aug. 12	1529	16	99	1188
Washboard	E. J. Collmann	690,330	Jan. 14	1064	339	100	1445
Washboard	M. E. Bingham	693,364	Feb. 18	2173	98	98	239
Washboard	J. T. Sargent	694,669	Mar. 4	638	477	98	1292
Washboard	J. A. Russell	694,790	Mar. 4	884	140	98	1847
Washboard	P. J. Joecken	694,864	Mar. 4	1014	196	98	1899
Washboard	W. H. Maney	695,410	Mar. 11	2015	223	98	1927
Washboard	W. B. Murphy	705,116	July 22	3360	453	98	2153
Washboard	G. W. Newsom	705,284	July 22	3730	728	100	730
Washboard	S. McCay	706,192	Aug. 5	370	811	100	1192
Washboard	W. R. McPherson and H. E. Eulich	707,861	Aug. 26	3632	79	100	1911
Washboard	P. C. Barton	711,275	Oct. 14	1696	819	101	366
Washboard	A. H. Stockert	711,795	Oct. 21	2693	366	101	366
Washboard	W. J. Pernar	712,957	Nov. 4	936	593	101	591
Washboard	W. Boecker	715,957	Dec. 16	2324	217	101	1088
Washboard-holder	C. H. Baker	703,224	June 24	3603	557	99	2395
Washboiler	G. Leeson	707,126	Aug. 19	2146	327	99	2900
Washboiler	J. L. Powers	709,555	Sept. 23	3034	481	100	1590
Washboiler attachment	M. C. Sonneborn	695,766	Mar. 18	2656	676	100	2651
Washboiler attachment	S. B. Woodford	707,667	Aug. 26	3208	603	98	2301
Washboiler-handle	Z. T. Hall	697,305	Apr. 8	1544	719	100	1828
Washboilers, &c. Attachment for.	A. C. Black	699,069	Apr. 26	3068	346	98	348
Washing and wringing machine	O. L. Johnson	711,672	Oct. 21	2460	1130	99	1142
Washing and wringing machine. Combined	J. W. Rogers	704,834	July 15	2982	540	101	542
Washing apparatus for railway or tramway carriages.	C. A. Wheeler	695,255	Mar. 11	1754	639	100	639
Washing device. Diaper-	J. W. Reed	708,920	Sept. 9	1710	387	98	2098
Washing-jack	C. Starzman	698,231	Apr. 22	3465	388	100	2344
Washing-machine	G. B. Dowswell	690,410	Jan. 7	42	99	98	784
Washing-machine	D. W. Bovee	691,233	Jan. 14	1606	10	98	12
Washing-machine	D. W. Hughes and W. T. S. Barnes	691,468	Jan. 21	2092	702	98	213
Washing-machine	C. A. Coffin	691,894	Jan. 28	2897	367	98	350
Washing-machine	C. P. Steinmetz	692,216	Jan. 28	3484	468	98	470
Washing-machine	J. M. Raubhoff	692,345	Feb. 4	225	652	98	655
Washing-machine	S. Fry	693,255	Feb. 11	1966	787	98	773
Washing-machine	H. P. Dennis, A. D. Potter, and J. H. Ellis	693,846	Feb. 25	3099	845	98	845
Washing-machine	J. H. Ellis	694,143	Feb. 25	3667	98	98	1229
Washing-machine	W. B. Simpson	695,500	Mar. 18	2169	811	98	1614
Washing-machine	J. E. Hausfeld and J. R. Carter	695,532	Mar. 18	2290	490	98	2203
Washing-machine	S. Herr	695,556	Mar. 18	2391	515	98	2225
Washing-machine	A. A. Casler	695,909	Mar. 25	2937	517	98	2227
Washing-machine	A. McKasler	695,910	Mar. 25	2938	665	98	2375
Washing-machine	J. R. Hartman	696,562	Apr. 1	305	665	98	2375
Washing-machine	P. Botz	696,853	Apr. 1	859	72	99	69
Washing-machine	W. W. Tatros	697,758	Apr. 15	2559	198	99	182
Washing-machine	A. Z. Thomas	698,154	Apr. 22	3323	569	99	573
Washing-machine	B. Poulson	698,222	Apr. 22	3450	725	99	733
Washing-machine	H. A. Robinson	699,766	May 13	1292	758	99	781
Washing-machine	E. D. Hamilton	700,194	May 20	2104	481	99	1441
Washing-machine	W. C. Fawkes	701,187	May 27	4020	482	99	1641
Washing-machine	D. Boorman and A. P. Sharp	702,355	June 10	1923	923	99	2056
Washing-machine	R. S. Higgins	702,429	June 17	2074	439	99	2519
Washing-machine	L. B. Brooks	702,535	June 17	2274	473	99	2511
Washing-machine	J. Woernli	703,360	June 24	3844	518	99	2614
Washing-machine	J. Knoche	703,428	July 1	111	884	99	2953
Washing-machine	J. P. Gordon	703,913	July 1	991	885	100	2953
Washing-machine	E. F. Miller	704,071	July 8	1313	25	100	198
Washing-machine	J. B. Rentzel	705,962	July 29	5080	286	100	275
Washing-machine	G. Thomas	705,976	July 29	5104	1107	100	1088
Washing-machine	W. Sparkman	706,353	Aug. 5	700	1113	100	1093
Washing-machine	A. C. Israel	706,418	Aug. 5	841	152	100	1258
Washing-machine	L. B. Parker	706,592	Aug. 12	1153	184	100	1283
Washing-machine	T. H. C. Beall	707,072	Aug. 19	2053	255	100	1364
					458	100	1570



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Washing-machine.	J. M. Lawrence.	707,242	Aug. 19	2365	530	100	1037
Washing-machine.	O. Gutar.	707,409	Aug. 19	2687	606	100	1704
Washing-machine.	J. G. Gibbs.	707,693	Aug. 26	3261	729	100	1888
Washing-machine.	C. F. Schmidt.	707,967	Aug. 26	3642	821	100	1913
Washing-machine.	P. H. Gendron.	708,338	Sept. 2	627	141	100	2103
Washing-machine.	F. G. Hyatt.	708,558	Sept. 9	1000	227	100	2195
Washing-machine.	M. E. Kelly.	709,016	Sept. 16	1921	441	100	2404
Washing-machine.	A. G. Brandt and D. L. Griffiths.	709,813	Sept. 23	3514	792	100	2750
Washing-machine.	E. L. Howe.	711,317	Oct. 14	1779	384	101	385
Washing-machine.	H. J. Lockhart.	711,407	Oct. 14	1933	421	101	418
Washing-machine.	C. Warren.	713,427	Oct. 28	3901	854	101	857
Washing-machine.	P. J. and M. C. Coon.	713,065	Nov. 11	1132	260	101	1145
Washing-machine.	C. H. Sword.	713,172	Nov. 11	1346	303	101	1150
Washing-machine.	B. W. Kyle and C. Graham.	713,654	Nov. 18	2316	516	101	1403
Washing-machine.	W. H. Haydon.	713,763	Nov. 18	2518	560	101	1419
Washing-machine.	J. N. Uri.	715,322	Dec. 9	1284	274	101	2119
Washing-machine.	H. M. Richardson.	716,580	Dec. 23	3784	823	101	2672
Washing-machine.	B. H. Klein.	716,843	Dec. 23	4373	948	101	2807
Washing-machine.	W. C. Fawkes.	717,372	Dec. 30	5383	1171	101	3039
Washing-machine bearing.	A. A. Casler.	695,911	Mar. 25	2099	666	98	2375
Washing-machine. Cloth.	J. M. Woelfel.	716,509	Dec. 23	3632	793	101	2639
Washing-machine. Clothes.	O. E. Michaud.	715,496	Dec. 9	1607	318	101	2182
Washing-machine. Clothes.	W. Thornton.	717,302	Dec. 30	5265	1143	101	3014
Washing-machine gearing.	H. L. Taley.	695,244	Mar. 11	1731	383	98	3064
Washing-machine gearing.	P. C. Kainer.	699,185	May 6	104	26	99	1196
Washing-machine gearing.	J. H. Stanfield.	707,949	Aug. 26	3791	852	100	1944
Washing-machine gearing.	H. Sawyer.	711,534	Oct. 21	2199	478	101	487
Washing-machine gearing.	L. Faul.	716,017	Dec. 16	2643	582	101	2420
Washing-machine reversing mechanism.	D. B. Willock.	708,444	Sept. 2	794	180	100	2142
Washline-fastener.	J. M. Wood.	716,607	Dec. 23	3834	832	101	2684
Washstand, basin, sink, &c.	H. H. Danver.	713,406	Nov. 11	1826	411	101	1289
Washstand-fastening.	H. P. Gross, Jr.	695,387	Mar. 11	1978	443	98	2145
Washstand-fixture.	J. Barrett.	690,550	Jan. 7	352	72	98	70
Washstands, bath-tubs, &c. Fixture for.	A. P. Windolph.	704,419	July 8	1956	425	100	412
Washstands. Means for attaching bowls to the slabs of.	J. A. Clukies.	709,872	Sept. 30	3623	818	100	2786
Wash-tub.	F. C. Kainer.	702,221	June 10	1693	381	99	2173
Wash-tub stand or holder.	W. W. Topliff.	698,425	Apr. 22	3791	837	99	832
Washer.							
See Axle-washer.	Ore-washer.						
Barrel-washer.	Photograph-print washer.						
Bottle-washer.	er.						
Cau-washer.	Tumbler-washer.						
Dish-washer.	Vegetable-washer.						
Hinge-washer.	Window-washer.						
Washer and gasket cutter.	J. A. Rose.	692,712	Feb. 4	878	200	98	979
Washer-fastener.	J. W. Shaw.	697,368	Apr. 8	1813	406	99	405
Waste-pipe trap.	V. E. Lombard and C. E. Cole.	705,769	July 29	4740	1026	100	1018
Waste-pipe trap.	J. K. White and H. W. Daub.	716,326	Dec. 16	3241	708	101	2544
Waste-trap.	J. W. McAuliffe.	705,777	July 29	4753	1030	100	1021
Waste-water receptacle and connection.	J. J. Hickey.	696,312	Mar. 11	1862	414	98	2119
Waste-water receptacle and discharge-trap for ice-boxes, &c.	J. J. Hickey.	695,311	Mar. 11	1861	414	98	2119
Watch.	W. H. Fitz Gerald.	712,185	Oct. 28	3457	758	101	762
Watch-barrel.	V. S. Corey.	711,476	Oct. 21	2075	449	101	460
Watch-barrel.	L. A. Erickson.	716,013	Dec. 16	2638	581	101	2419
Watch-box. Illuminated.	C. Arnold.	712,112	Oct. 28	3324	729	101	730
Watchcase.	E. Bilat.	700,473	May 20	2668	611	99	1755
Watchcase.	E. Kuhn.	707,430	Aug. 19	2727	617	100	1711
Watchcase.	W. H. Fitz Gerald.	712,285	Oct. 28	3628	793	101	798
Watchcase.	W. H. Fitz Gerald.	712,286	Oct. 28	3630	793	101	798
Watchcase.	W. H. Fitz Gerald.	712,287	Oct. 28	3632	793	101	798
Watchcase-pendant.	C. W. Butts.	693,558	Jan. 7	366	74	98	80
Watchcase-pendant.	M. Sporeyler.	694,312	Jan. 21	1993	451	98	330
Watchcase. Reversible.	W. H. Fitz Gerald.	712,288	Oct. 28	3635	794	101	798
Watch-demagnetizer.	P. Sorensen.	702,500	June 17	2218	505	99	2603
Watch-dial.	W. Brack.	701,993	June 10	1278	293	99	2388
Watch-dial fastening.	W. W. Dickerson.	711,833	Oct. 21	2766	613	101	696
Watch-dial illuminator.	F. M. Durkee.	704,446	July 8	2009	437	100	423
Watch-fob safety attachment.	C. P. Keeler.	714,379	Nov. 25	3732	822	101	1718
Watch-guard.	E. F. Adams.	714,655	July 2	1623	311	101	330
Watch movement and pendant. Interchangeable.	J. Zely.	695,852	Mar. 18	2821	642	98	2396
Watch-movement fastener.	L. G. Solenberger.	709,121	Sept. 16	2129	488	100	2449
Watch-movement holder.	P. Leach.	694,165	Feb. 25	3720	821	98	1625
Watch-movements. Device for cleaning.	J. J. Higgins.	692,663	Feb. 4	788	180	98	960
Watch-pendant. Swivel.	R. Wawrosch.	712,872	Nov. 4	766	177	101	1055
Watch-protector.	J. Cohen.	702,777	June 17	2734	623	99	2709
Watch-protector.	F. A. Chervenka.	714,655	July 2	1623	311	101	330
Watch-protector.	E. F. Giddens.	716,530	Dec. 23	3670	802	101	2617
Watch. Stem-winding.	W. E. Porter.	705,703	July 29	4627	1002	100	935
Watch. Stem-winding.	C. T. Higginbotham.	706,056	Aug. 12	1272	281	100	1300
Watch. Stem-winding.	M. Bassoff.	708,985	Sept. 16	1847	452	100	2300
Watch. Stop.	S. Goldfaden.	690,721	Jan. 7	703	155	98	118
Watch. Stop.	M. Bassoff.	708,986	Sept. 16	1849	425	100	2300
Watch-winding device.	W. H. Sawyer.	706,304	Aug. 5	3924	83	100	1197
Watches. Tool for truing balance-wheels of.	R. D. Nelson.	715,123	Dec. 2	910	195	101	2033
Watchmakers' lathes. Tail-stock for.	W. D. Clement.	690,929	Jan. 14	1062	233	98	238
Watchmaker's-material holder.	P. C. Hall.	716,223	Dec. 16	3964	669	101	2508
Watchmaker's staking-tool.	L. J. Williams.	707,887	Aug. 26	3683	829	100	1922
Watchmaker's tool.	J. A. Wiedemann.	691,516	Jan. 21	2180	488	98	499

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Wrenchmaker's tool	S. W. Christine	692,622	Feb. 4	718	166	98	946
Water, acid, and fire proof composition	J. A. Heany	708,199	June 24	3553		98	2890
Water-bag	H. H. Upham	699,778	May 13	1256	291	99	1445
Water-bag	T. L. Allegrretti	702,750	June 17	2704	621	99	2703
Water-bag	D. Hogan and C. W. Meinecke	710,854	Oct. 7	890	194	101	180
Water-balance, Automatic	A. Hoberrecht	697,086	Apr. 8	1347	208	99	305
Water-bottles, water-bags, &c. Package for	E. E. Minges	706,380	Aug. 5	656	143	100	1247
Water-closet	W. E. Hinsdale	691,768	Jan. 28	2067	578	98	618
Water-closet	J. Campbell	697,813	Apr. 15	2650	587	99	594
Water-closet	W. Bunting, Jr.	702,536	June 17	2275	518	99	2614
Water-closet	F. A. Wells	708,106	Sept. 2	191	45	100	2021
Water-closet	D. S. Schureman	710,312	Sept. 30	4530	1022	100	2978
Water-closet	I. W. Day	711,946	Oct. 28	3019	663	101	677
Water-closet	G. E. Underhill	712,022	Oct. 28	3159	691	101	705
Water-closet and flushing-reservoir. Combined	N. B. Wales	716,315	Dec. 16	3224	704	101	2540
Water-closet bowl	H. T. Bush	705,319	July 22	3810	826	100	820
Water-closet for conveyances	P. J. McGuire	706,900	Aug. 12	1800	423	100	1519
Water-closet bowls or washbasins. Mechanism for temporarily locking	E. Woodruff	706,869	Aug. 12	1684	377	100	1479
Water-closet coupling	E. C. Smith and C. L. Meade, Jr.	712,012	Oct. 28	3146	687	101	702
Water-closet coupling	E. C. Smith and C. L. Meade, Jr.	712,013	Oct. 28	3147	688	101	702
Water-closet coupling	E. C. Smith and C. L. Meade, Jr.	712,014	Oct. 28	3148	688	101	702
Water-closet flushing device	F. Adee	715,453	Dec. 9	1521	330	101	2165
Water-closet flushing tank or cistern	A. Knell, Jr.	708,136	June 24	3430	787	99	2867
Water-closet for conveyances	D. H. Murphy	710,989	Oct. 14	1114	246	101	244
Water-closet or urinal	J. Stewart	711,135	Oct. 14	1406	304	101	307
Water-closet receptacle for railway-cars	P. A. Allen and J. W. McKenzie	700,719	May 27	3141	714	99	1873
Water-closet seat	W. C. Anderson	706,791	Aug. 12	1339	345	100	1447
Water-closet seat. Detachable	H. M. Solveson	710,021	Sept. 30	3930	888	100	2849
Water-closet seat. Lock	W. C. Miles	697,264	Apr. 8	1613	368	99	370
Water-closet. Ship's	J. L. Mott, Jr.	712,146	Oct. 28	3393	744	101	730
Water-closet valve	A. G. Alexander	695,896	Mar. 25	2009	950	98	2299
Water-closet valve	C. J. Tatum	710,128	Sept. 30	1447	935	101	2894
Water-closet ventilating attachment	C. W. Schultz	712,207	Oct. 28	3193	766	101	769
Water-closet ventilator attachment	S. C. Brown	704,471	July 8	3064	447	100	434
Water-closet water-supply apparatus	V. J. Emery	696,424	Apr. 1	58	13, 14	99	16
Water-column	W. P. Phillips	710,801	Oct. 7	785	167	101	161
Water-cooler	T. F. McEvilly	691,655	Jan. 21	2428	546	98	540
Water-cooler	G. W. Born	705,376	July 22	3946	855	100	847
Water-cooler	C. J. Tatum	711,020	Oct. 14	1186	290	101	361
Water-cooler	A. N. Rose	715,609	Dec. 9	1816	403	101	2224
Water-cooler for initiating purposes	E. and U. S. De Moulins	698,466	Apr. 29	3880	857	99	885
Water-cooling and condensing tower	H. B. Schmidt	693,625	Feb. 18	2679	591	98	1396
Water-cooling apparatus	C. A. Falk	693,506	Feb. 18	2444	545	98	1349
Water-cooling apparatus	W. J. Dossy	709,887	Sept. 30	3680	830	100	2795
Water-cooling tower	W. Osterdorff	697,160	Apr. 8	1406	328	99	330
Water-cooling tower	C. H. Wheeler and L. L. Pratt	707,042	Aug. 12	1981	445	100	1538
Water-courses and conveying material therefrom.	J. W. Staneart	710,813	Oct. 7	966	173	101	165
Apparatus for exposing the beds of							
Water distribution	J. Coles	699,079	Apr. 29	5079	1123	99	1144
Water distribution	W. O'Neill and W. H. Gordon	707,448	Aug. 19	2753	623	100	1717
Water-elevator	D. C. Brian	697,317	Apr. 8	1738	388	99	390
Water-elevator	L. Wells	709,800	Sept. 23	3499	789	100	2746
Water-elevator. Compressed-air	J. L. Latta and J. A. Martin	691,278	Jan. 14	1693	385	98	368
Water-elevator. Compressed-air	G. D. Buchanan	695,632	Mar. 18	2439	551	99	2258
Water-elevator. Compressed-air	J. R. Ricketts	697,171	Apr. 8	1479	331	99	334
Water-elevator. Compressed-air	G. R. Tyler	697,296	Apr. 8	1702	380	99	383
Water-elevator. Compressed-air	W. McKee	712,401	Oct. 28	3837	859	101	844
Water fountain and cooler. Sanitary	S. S. Shears	690,896	Jan. 7	969	226	98	210
Water from rivers. Adjustable conduit for taking	A. C. Ryan	716,483	Dec. 23	3576	781	101	2628
Water-gage	J. Dorn	697,995	Apr. 22	3008	661	99	688
Water-gage	F. M. Ashley	705,192	July 22	3518	763	100	763
Water-gage	J. McCormick	716,742	Dec. 23	4070	891	101	2733
Water-gage attachment	F. J. Knox	706,959	Aug. 12	1843	412	100	1509
Water-gage connection	J. B. L. McKenzie	709,229	Sept. 10	2398	537	100	2746
Water-gage safety device	J. A. Mosher	705,113	July 22	3355	727	100	728
Water-gate	C. H. Baker	697,598	Apr. 15	2261	504	99	513
Water-gate	D. N. B. Coffin	707,825	Aug. 26	3558	804	100	1898
Water-gate	J. H. Martin and D. Ormand	709,102	Sept. 16	2102	481	100	2443
Water-gate	E. E. Adams	714,551	Nov. 25	4043	894	101	1779
Water-heater	E. F. Cox and G. Blass	692,244	Feb. 4	48	11	98	308
Water-heater	E. J. Muller	694,660	Mar. 4	620	134	98	184
Water-heater	H. W. O'Dowd	703,758	July 1	669	148	100	134
Water-heater	J. Foster	705,335	July 22	3572	837	100	832
Water-heater	T. L. Phillips	707,349	Aug. 19	2573	582	100	1679
Water-heater	R. J. Gibbons	709,091	Sept. 16	2035	478	100	2439
Water-heater	D. D. Shaw	710,528	Oct. 7	263	58	101	53
Water-heater	F. H. Engels	711,559	Oct. 21	2298	486	101	495
Water-heater	H. Anderson	714,354	Nov. 25	3693	813	101	1710
Water-heater	J. M. Fox	710,641	Nov. 25	4213	932	101	1513
Water-heater	C. W. O'Neill	716,271	Dec. 16	3143	688	101	2524
Water-heater	J. Hartman	716,414	Dec. 23	3436	750	101	2598
Water-heater	J. F. Yoho	717,492	Dec. 30	5605	1216	101	3083
Water-heater and steam-generator	C. Nalence	700,546	May 20	2805	641	99	1784
Water-heater and steam-generator. Instantaneous combined	D. E. Hurd	714,183	Nov. 25	3371	742	101	1646
Water-heater. Combined solar and artificial heat	F. Walker	705,167	July 22	3462	754	100	750
Water-heater. Electric	M. H. Shoenberg and H. Levy	696,599	Apr. 1	370	87	99	81
Water-heater. Solar	M. H. Shoenberg	695,136	Mar. 11	1546	342	98	2056
Water-heater. Steam	M. M. Brophy	691,528	Jan. 21	2194	493	98	492
Water-heater. Submerged	O. C. Pinney	703,215	June 24	3551	821	99	2896



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Water-heater. Wall.	J. H. Mackley	709,340	Sept. 16	2563	576	100	2541
Water-heating and distributing system	G. C. Savage	713,504	Nov. 11	2035	556	101	1331
Water-heating apparatus	J. Murray	694,775	Mar. 4	853	188	98	1892
Water-heating apparatus	E. W. Higbee	704,330	July 8	1791	391	100	376
Water-heating apparatus.	J. B. Hall	714,478	Nov. 25	3905	863	101	1751
Water in the earth. Electrical process of locating running	F. H. Brown	714,775	Dec. 2	242	48	101	1886
Water-joint	M. Garvey	691,539	Jan. 21	2212	497	98	496
Water-level indicator	C. Strutt and O. A. Hockey	695,007	Mar. 11	1292	1285	98	2002
Water-meter	D. V. Hallbergh	691,904	Jan. 28	2912	657	98	657
Water-meter	L. H. Nash and F. S. King	696,692	Apr. 1	557	127	99	121
Water-meter	H. F. Brown	701,675	June 3	716	158	99	2258
Water-meter	H. F. Brown	703,716	July 1	928	140	100	124
Water-meter	G. B. Bassett	708,296	Sept. 2	555	126	100	2094
Water meter and recorder	W. G. Kent	699,188	May 6	108	28	99	1197
Water-meter. Disk	W. H. Larrabee	702,225	June 10	1697	383	99	2474
Water-meter. Disk	W. H. Larrabee	702,226	June 10	1699	383	99	2475
Water-meter. Disk	F. L. Northrop	702,241	June 10	1724	389	99	2480
Water-meter. Disk	W. H. Larrabee	702,970	June 24	3117	717	99	2805
Water-meter. Electromagnetic	W. H. Kelly and A. Tschinkel	697,478	Apr. 15	2820	499	99	1753
Water-meter guard	A. G. De Valdo	716,204	Dec. 16	3031	661	101	2592
Water-motor	N. Schmidt	697,547	Apr. 15	2170	482	99	492
Water-motor	N. Schmidt	709,279	Sept. 16	2448	553	100	2516
Water-motor	M. L. G. Wheeler and D. D. Besse	716,650	Dec. 23	3919	856	101	2702
Water-motor. Chain	G. E. Thurston	699,351	May 6	422	96	99	1260
Water-pipe	W. Reschke	700,088	May 13	1843	429	99	1567
Water-pipe boiler	H. Janetschek	702,354	June 24	708	99	99	2796
Water-pipe stop and waste	E. Howland	708,263	June 24	3658	841	99	2912
Water-pressure regulator	A. E. Burnett, Jr.	711,282	Oct. 14	1707	368	101	369
Water-purifier	C. H. Snyder	691,890	Jan. 28	2868	646	98	649
Water-purifier	C. C. Clark	703,541	July 1	294	67	100	59
Water-purifier	G. M. Davidson	712,770	Nov. 4	557	128	101	1012
Water-purifier	G. M. Davidson	712,771	Nov. 4	560	129	101	1013
Water-purifier	G. M. Davidson	715,031	Dec. 2	746	158	101	1987
Water purifier and filter. Portable.	C. E. Holland	691,545	Jan. 21	2220	499	98	497
Water. Purifying	C. O. Brueckner	692,979	Feb. 11	1413	388	98	1115
Water-purifying apparatus	I. P. Kinsey	695,399	Mar. 11	1699	447	98	2149
Water-purifying apparatus	W. C. Clarke	699,655	May 13	1017	237	99	1398
Water-purifying apparatus	A. Harris	700,420	May 27	2566	397	99	1918
Water-purifying apparatus	J. Roan	700,826	May 27	3360	772	99	1918
Water-purifying apparatus.	C. L. Kennicott	703,596	July 1	387	90	100	77
Water-purifying apparatus.	J. Davis	704,244	July 8	1635	354	100	342
Water-purifying apparatus	C. L. Kennicott	708,717	Sept. 9	1302	297	100	2257
Water-purifying apparatus.	L. Gathmann	711,155	Oct. 14	1450	315	101	317
Water-purifying apparatus	L. Gathmann	714,793	Dec. 2	284	61	101	1895
Water-purifying apparatus	L. Gathmann	716,703	Dec. 23	4007	877	101	2719
Water-purifying device.	J. M. A. Lacomme	696,647	Apr. 1	458	107	99	99
Water-raising apparatus.	G. R. Young and C. Shaw	704,608	July 15	2321	504	100	500
Water-recording device. Electric.	W. H. Kelly and A. Tschinkel	702,734	June 17	2651	610	99	2691
Water-regulator. Automatic	A. H. Hutchinson	716,540	Dec. 23	3791	810	101	2858
Water. Removing oil from	E. A. Krause	705,253	July 22	3666	700	100	792
Water-supplies. System of purifying municipal.	P. J. A. Maignen	713,896	Nov. 18	2777	617	101	1502
Water supply and cooling apparatus	F. G. Kammerer	692,323	Feb. 4	546	128	98	900
Water supply and filtering system	L. E. Smith	699,032	Apr. 29	5005	1107	99	1128
Water-supplying device or the like	J. Bayard	695,367	Mar. 11	1949	434	98	2138
Water system. Circulating	I. J. French	716,529	Dec. 23	3669	801	101	2846
Water-tower	T. H. Hyde and A. D. Burns	698,234	Apr. 22	3557	784	99	802
Water-tower. Portable	H. H. Gorter	708,135	Sept. 2	252	60	100	2034
Water-trap	F. Camenzind, Jr.	708,529	Sept. 9	959	217	100	2187
Water trap. Exhaust	J. W. Newman	715,284	Dec. 9	1903	257	101	2101
Water-tube boiler	J. A. Anderson	692,223	Feb. 4	1	7	98	790
Water-tube boiler	W. Wingerter	693,337	Feb. 25	3279	721	98	1335
Water-tube boiler	F. G. Hampson	695,641	Mar. 18	2454	557	98	2260
Water-tube boiler	E. G. Rust	698,323	Apr. 22	3617	799	99	814
Water-tube boiler	S. E. Freeman	698,607	Apr. 29	4365	962	99	989
Water-tube boiler	E. G. Rust	700,091	May 13	1846	429	99	1568
Water-tube boiler	J. A. Scott	700,248	May 20	2220	430	99	1665
Water-tube boiler	O. D. Orvis	702,670	June 17	2528	579	99	2666
Water-tube boiler	N. Vicente	706,787	Aug. 12	1333	341	100	1446
Water-tube boiler	E. G. Rust	710,340	Sept. 30	4528	1021	100	2977
Water-tube boiler	J. E. Thornycroft	711,546	Oct. 21	2218	482	101	491
Water-tube boiler	M. H. Plunkett	711,645	Oct. 21	2393	526	101	528
Water-tube boiler	J. C. Cooke	714,782	Dec. 2	255	51	101	1889
Water-tube boiler	J. C. Cooke	714,867	Dec. 2	455	97	101	1927
Water-tube boiler	J. C. Cooke	714,868	Dec. 2	457	97	101	1927
Water-tube boiler	C. P. Altman	715,737	Dec. 16	2957	460	101	2394

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Water-tube boiler	R. Hanson, R. Henshall, and A. E. Boardman.	716,082	Dec. 16	2670	589	101	2425
Water-tube boiler	T. Dunlap	716,875	Dec. 30	4445	963	101	2839
Water-tube. Rotary	A. S. Hughes	696,566	Apr. 1	812	73	99	70
Water-wheel	J. M. King	701,355	June 3	136	28, 29	99	2137
Water-wheel	S. Shultz	702,251	June 10	1738	392	99	2483
Water-wheel	S. M. Thurman	704,405	July 8	1987	419	100	408
Water-wheel	J. W. Houtz	705,087	July 22	3239	717	100	717
Water-wheel	C. B. Blawie	706,150	Aug. 5	288	60	100	1176
Water-wheel	G. W. Johnston	708,715	Sept. 9	1297	295	100	2255
Water-wheel	R. E. Woolman	710,029	Sept. 30	3945	690	100	2853
Water-wheel	J. H. Felthousen	717,181	Dec. 30	5061	1097	101	2969
Water-wheel. Current	P. H. Russell	692,364	Feb. 4	260	63	98	853
Water-wheel governor. Electromechanical	L. Lyndon	695,220	Mar. 11	1994	376	98	2086
Water-wheel governor. Hydraulic	W. J. Bridger	699,142	May 6	29	8	99	1162
Water-wheel. Non-reverting	J. T. Moate	699,944	May 13	1395	322	99	1475
Water-wheel of the parallel-flow type. Turbine.	J. Savage	713,158	Nov. 11	1310	296	101	1183
Water-wheel-penstock construction	G. W. Rickey and M. G. Barnes	703,216	June 24	3583	823	99	2896
Water-wheel. Submerged	J. Marburg	707,857	Aug. 26	3628	818	100	1910
Water-wheel system. Horizontal	A. Giesler	705,993	July 29	5133	1119	100	1919
Water-wheel system. Turbine	A. Giesler	703,056	June 24	3273	69	99	2835
Water-wheel system. Turbine	W. S. Bryant	705,994	July 29	5134	1119	100	1099
Water-wheels, &c. Governor for	L. Lyndon	710,788	Oct. 7	757	161	101	155
Waterer. Stock	C. C. and C. J. Quinn	699,233	May 6	184	43	99	1212
Waterer. Stock	J. W. Kelley and C. W. Adkins	708,361	Sept. 2	659	148	100	2114
Watering-can attachment	F. H. Shaw	712,606	Nov. 4	277	66	101	956
Watering-cart sprinkler-head	E. D. Eastman	714,566	Nov. 25	4066	900	101	1785
Watering trough, bowl, or basin	N. W. Griswold	708,645	Sept. 2	637	141	100	2111
Waterproof coat	G. A. and A. Ström.	702,256	June 10	1744	394	99	2484
Waterproof garment	S. H. Emanuel	694,262	Feb. 25	3902	865	98	1660
Waterproof. Treating materials to render them	A. H. Hipple	694,859	Mar. 4	1004	-----	98	1925
Waterproofing fabrics	J. Menzies	690,868	Jan. 7	942	-----	98	198
Wattmeter	V. Arcioni	713,934	Nov. 18	2849	632	101	1517
Wave and tide motor	H. C. Essington	714,166	Nov. 25	3337	735	101	1639
Wave-detecting device	H. Shoemaker and G. W. Pickard	707,266	Aug. 19	2408	540	100	1645
Wave-detector	L. T. Rhoades	711,123	Oct. 14	1382	300	101	301
Wave-motor	J. R. Wilcox	692,396	Feb. 4	309	75	98	864
Wave-motor	W. S. Bryant	692,420	Feb. 4	345	85	98	871
Wave-motor	R. H. Hannah	693,370	Feb. 11	1992	493	98	1234
Wave-motor	W. S. Bryant	693,369	Feb. 18	2184	480	98	1294
Wave-motor	A. Miller	702,577	June 17	2360	539	99	2031
Wave-motor	E. Chaquette	703,998	July 8	1166	254	100	247
Wave-motor	H. Williams	706,620	Aug. 12	1203	267	100	1375
Wave-motor	A. Nelson	717,113	Dec. 30	4891	1058	101	2932
Wave or tide motor	W. Borchert	694,242	Feb. 25	3856	854	98	1651
Wave-power. Device for utilizing	J. C. Hergenhan and C. C. Von der Abe.	706,558	Aug. 12	1090	241	100	1351
Wave-power motor	D. K. Bryson	711,758	Oct. 21	2625	577	101	578
Wave-responsive device. Current-actuated	R. A. Fessenden	706,744	Aug. 12	1441	318	100	1426
Wax-ends. Tool for twisting	E. Kiss	715,086	Dec. 2	848	180	101	2010
Wax from bituminous brown coal. Manufacturing mineral	E. von Boyen	690,693	Jan. 7	623	136	98	132
Wax. Prepared sealing	T. Ardizzone	709,132	Sept. 16	2155	494	100	2454
Weaner. Calf	J. J. Hesel	696,563	Apr. 1	306	72	99	69
Weaner. Calf	G. C. Birmingham	696,929	Apr. 8	1042	231	99	240
Weaner. Calf	G. W. Moody	703,945	July 1	1048	228	100	209
Weaner. Calf	L. H. Saunders	707,020	Aug. 12	1945	435	100	1330
Weaner. Calf	D. Daggett	709,140	Sept. 16	2168	497	100	2458
Weaner. Colt or calf	G. M. Miller	716,733	Dec. 23	4052	888	101	2780
Weaner. Stock	A. M. Shannon and W. Bobbitt	693,165	Feb. 11	1781	390	98	1189
Wearing articles to each other. Device for connecting	M. H. Mergenthaler and A. Selkirk.	714,817	Nov. 25	3624	739	101	1696
Weather-board marker	A. C. Maeder	690,595	Jan. 7	432	93	98	94
Weather-strip	G. W. Golden	690,417	Jan. 7	52	12	98	14
Weather-strip	C. W. Gautschi	690,648	Jan. 7	541	117	98	115
Weather-strip	P. D. Jones	692,014	Jan. 28	3107	698	98	695
Weather-strip	J. Cook	692,181	Jan. 28	3410	772	98	757
Weather-strip	D. H. Burkey	693,230	Feb. 11	1926	419	98	1220
Weather-strip	F. M. Cannon	694,135	Feb. 25	3654	807	98	1612
Weather-strip	F. E. Allen	695,993	Mar. 25	3082	699	98	2403
Weather-strip	B. F. Higgins	696,335	Mar. 25	3803	848	98	2153
Weather-strip	H. B. Stanfield	698,712	Apr. 29	4429	972	99	909
Weather-strip	B. M. Whiting	702,270	June 10	1772	405	99	2490
Weather-strip	M. K. Little	710,478	Oct. 7	145	34	101	81
Weather-strip	W. Steger	710,926	Oct. 7	991	218	101	202
Weather-strip	B. F. Grandstaff	711,491	Oct. 21	2104	456	101	467
Weather-strip	S. P. Bricker	712,761	Nov. 4	539	125	101	1008
Weather-strip	J. A. Thain	713,175	Nov. 11	1353	304	101	1191
Weather-strip	H. B. Stanfield	715,519	Dec. 9	1829	407	101	2227
Weather-strip and guide for windows	G. E. Kenny	694,062	Feb. 25	3538	780	98	1588
Weather-strip attachment for doors or windows	G. A. Hills	717,399	Dec. 30	5442	1181	101	3050
Weather-strip. Door	F. Fishbeck	702,715	June 17	2613	602	99	2684
Weavers' designs. Making	H. Mackintosh	708,286	June 24	3694	851	99	2919
Weaving-diagrams. Producing	J. Szczepanik	701,418	June 3	240	53, 54	99	2157
Weaving-diagrams. Producing	J. Szczepanik	703,649	July 1	872	192	100	174
Weaving-diagrams. Producing	J. Szczepanik	703,850	July 1	875	193	100	175
Weaving-diagrams. Producing	J. Szczepanik	703,851	July 1	879	194	100	176



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette	
				Spec.	Dr. G.	Vol.	Page.
Weaving-machine.	Z. L. Chadbourne	695,791	Mar. 18	2711	616	98	2413
Weaving pile fabrics.	H. Rösger	695,582	Mar. 18	2418	532	98	2340
Weaving tubular fabrics.	W. Beck and J. F. Preston	697,392	Apr. 8	1881	420	99	419
Web-controlling mechanism	H. A. W. Wood	701,118	May 27	3898	895	99	2620
Web-folding machine	R. C. Seymour	706,862	Aug. 12	1698	374	100	1476
Web-treating machinery	A. H. Ray	701,221	May 27	4076	938	99	2967
Wedge	C. J. Grellner	715,786	Dec. 16	2171	485	101	2318
Wedge-cutter	W. Pangrac	695,336	Mar. 11	1895	422	98	2126
Wedge-joint	E. Pfeil, geboren Breust, and W. H. Schneider.	713,679	Nov. 18	2362	526	101	1413
Weed-cutting and ballast-dressing apparatus.	V. Berford	693,363	Feb. 18	2168	477	98	1291
Weed-destroying mechanism	V. Berford	711,283	June 3	9	2	98	2110
Weed-hook. Coil-spring.	G. T. Bappe	702,528	June 17	2259	514	99	2611
Weed-puller	J. A. Whelan	707,475	Aug. 19	2798	633	100	1726
Weeder	W. D. Lloyd	693,286	Feb. 11	2015	439	98	1238
Weeder	A. Johnson	693,717	Feb. 19	2810	628	98	1430
Weeder	V. H. Hallock	695,721	Mar. 18	2378	583	98	2287
Weeder	D. B. Yoder	701,451	June 3	206	66	99	2115
Weeder	B. F. Clark and W. Smith	704,514	July 15	2162	468	100	469
Weeder	G. E. Champlin	714,280	Nov. 25	3558	783	101	1684
Weeder and thinner	A. F. Fischer and H. Cordes	692,648	Feb. 4	756	174	98	954
Weeder and thinner	E. T. Fischer	692,649	Feb. 4	758	174	98	954
Weeder tooth-fastener	G. A. Niles	707,624	Aug. 26	3108	790	100	1867
Weeding and cultivating implement	C. N. Choate	716,808	Dec. 23	4199	923	101	2753
Weeding implement	W. H. Havill	700,685	May 20	3941	695	99	1836
Weeding implement	B. Sandie	704,120	July 8	1416	308	100	298
Weeding implement	R. R. Briggs	711,553	Oct. 21	2228	484	101	493
Weevil or other insect destroyer. Boll.	J. S. Doak and A. G. Farrington	696,419	Apr. 1	50	11	99	14
Weigher. Automatic grain.	W. D. Leed	706,442	Aug. 5	896	194	100	1297
Weigher. Grain	D. Wilde	693,190	Feb. 11	1867	404	98	1507
Weighing and measuring machine	A. P. Johnstone	699,328	May 6	374	88	99	1250
Weighing and price-indicating apparatus.	F. Williams	712,880	Nov. 4	782	182	101	158
Weighing and recording apparatus.	W. Greene and S. Chisholm	690,855	Jan. 7	922	206	98	194
Weighing apparatus.	L. E. Cowey	701,684	June 3	729	161	99	261
Weighing apparatus	J. Manes	704,065	July 8	1289	279	100	271
Weighing-machine	W. F. Brothers	691,438	Jan. 21	3041	457	98	460
Weighing-machine	C. O. Ericson	691,536	Jan. 21	2206	496	98	495
Weighing-machine	F. Wertenbruch	694,222	Feb. 25	3826	847	98	1648
Weighing-machine	E. Cameron	697,196	Apr. 8	1530	341	99	344
Weighing-machine	C. B. Comegys	699,453	May 6	621	142	99	1304
Weighing-machine	E. H. McHenry	700,072	May 13	1814	420	99	1561
Weighing-machine	E. H. Cook	700,620	May 20	2024	673	99	1809
Weighing-machine	C. J. and A. J. Hartley	701,722	June 3	800	177	99	2275
Weighing-machine	G. A. Moore	702,985	June 24	3145	723	99	2411
Weighing-machine	D. S. Cook	703,547	July 1	311	70	100	63
Weighing-machine	E. H. Cook	708,799	Sept. 1	1466	235	100	2284
Weighing-machine	V. E. Rice	712,466	Oct. 28	3134	685	101	700
Weighing-machine. Automatic	A. Arthur	690,206	Jan. 7	873	193	98	185
Weighing-machine. Automatic	W. Brough	692,609	Feb. 4	694	161	98	941
Weighing-machine. Automatic	G. W. Lottridge	694,487	Mar. 4	274	63	98	1770
Weighing-machine. Automatic	T. C. Baker	694,935	Mar. 11	1153	232	98	1975
Weighing-machine. Automatic	T. C. Baker	694,936	Mar. 11	1156	232	98	1975
Weighing-machine. Automatic	F. Barto	704,429	July 8	1970	420	100	415
Weighing-machine. Automatic	U. S. James	706,565	Aug. 12	1099	243	100	1353
Weighing-machine. Automatic	H. C. Bowles	712,757	Nov. 4	532	124	101	1007
Weighing-machine. Coin-controlled	G. F. W. Schultze	696,598	Apr. 1	366	86, 87	99	80
Weighing-machine feeding apparatus	W. E. Nickerson	706,588	Aug. 12	1144	234	100	1363
Weighing-machine. Liquid.	W. H. George	693,794	Feb. 18	2978	638	98	1458
Weighing-machine. Rotary	P. B. Clarke	703,544	July 1	309	69	100	61
Weighing or packaging machine feed apparatus.	W. H. Doble	705,222	July 2	3594	778	100	778
Weighing-tongs.	W. F. Shiley	697,894	Apr. 15	2803	620	99	628
Weight and pressure recording apparatus.	E. McGarvey	701,757	June 3	854	188	99	2287
Weight-motor and governor mechanism	W. D. Bell	707,377	Aug. 19	2623	591	100	1690
Weir. Self-adjusting	C. C. Carlisle	706,526	Aug. 12	1040	220	100	1340
Welded cast-metal process	W. Kent	715,584	Dec. 9	1779	395	101	2176
Welding aluminium	M. W. Emmé	710,958	Oct. 14	1055		101	231
Welding and tapering sockets	P. Boyd	706,519	Aug. 12	1027	226	100	1338
Welding and tapering sockets. Apparatus for.	P. Boyd	706,517	Aug. 12	1022	227	100	1337
Welding and tapering sockets. Apparatus for.	P. Boyd	706,518	Aug. 12	1025	226	100	1338
Welding and tapering sockets. Apparatus for.	P. Boyd	706,520	Aug. 12	1030	227	100	1338
Welding apparatus. Tube	T. J. Bray, Jr.	691,350	Jan. 21	1877	423	98	425
Welding die. Link	W. N. Gourley	713,427	Nov. 11	1857	420	101	1296
Welding. Electric	R. M. Hunter	690,958	Jan. 14	1109	250	98	218
Welding furnace. Tube	P. Patterson	715,855	Dec. 16	2330	510	101	2353
Welding machine. Link	W. Scrimgeour, Jr., and J. Bunte	692,966	Feb. 4	265	64	98	854
Welding-machine. Portable electric	H. E. Meyers	691,404	Jan. 21	1982	444	98	415

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Welding rolls. Coupling.	D. Heggie	698,113	Apr. 22	3241	709	99	736
Welding. Spring-pulling hook for use in butt.	E. E. Quimby	715,862	Dec. 16	2347	519	101	2356
Welding steel. Composition of matter for	C. Fansborn	700,379	May 27	3832		99	1072
Well and test boring machine. Portable tubular	C. D. Pierce	696,480	Apr. 1	158	38	99	39
Well-boring apparatus.	J. T. Davis	701,547	June 8	474	107	99	2205
Well-boring device.	R. L. Landry	716,062	Dec. 16	2731	603	101	2459
Well-boring drill.	A. C. Shuster	712,734	Nov. 4	491	116	101	999
Well-boring machine.	F. J. Woods	702,608	June 17	2422	552	99	2644
Well-casing and strainer	J. G. Huffman	702,006	June 10	1238	237	99	3392
Well-casing-head. Oil.	691,129	Jan. 14	1420	323	98		310
Well-casing packer.	J. T. Callanan	717,160	Dec. 30	4986	1082	101	2953
Well-casing-perforating device.	T. E. Clark	702,128	June 10	1527	345	99	2440
Well-casing perforators. Automatic stop and lock for oil.	T. E. Clark	707,552	Aug. 26	2962	670	100	1777
Well-casing swage	E. North	716,466	Dec. 23	3541	774	101	2621
Well-casings. Drive-head for gas, oil, or other	G. H. Guthrie	710,890	Oct. 7	886	193	101	180
Well-casings. Tool for withdrawing	S. Bennison	711,373	Oct. 15	1886	411	101	408
Well-drill.	P. H. Boothe and F. L. Woods	714,772	Dec. 2	238	47	101	1885
Well drill. Deep.	J. W. Livermore	695,745	Mar. 18	2622	595	98	2294
Well drill. Oil or other.	W. E. Johnston	711,506	Oct. 21	2130	464	101	472
Well drilling and pumping rigs. Lift for	M. B. McManus	696,252	Mar. 25	3623	809	98	2514
Well-drilling-apparatus bit	J. W. Sloan	698,415	Apr. 22	3773	833	99	847
Well-drilling machine.	M. Williams	704,770	July 15	2605	564	100	559
Well-drilling machine.	R. B. Moore	714,111	Nov. 18	3191	1705	101	1590
Well-drilling machine. Steam-power	G. D. Loomis	698,033	Apr. 22	3061	673	99	699
Well-drilling-tool coupling.	W. D. Snyder	695,659	Mar. 18	2483	564	98	2267
Well-drilling tools. Fluid-pressure apparatus for	G. B. Gallagher and C. J. Macomber	706,173	Aug. 5	384	71	100	1185
Well-head. Oil.	F. J. Moser	714,508	Nov. 25	3961	875	101	1761
Well-inlet	D. H. Maury	704,896	July 15	2847	616	100	610
Well-measuring device. Artesian.	S. McCoughtry	706,438	Aug. 12	194	100	100	1295
Well-point and strainer. Drive-	G. Leeson	717,420	Dec. 30	5481	1189	101	3037
Well-rig	E. A. Hardison	704,250	July 8	1642	1856	100	343
Well-screen	F. I. Webber	691,994	Jan. 28	3073	690	98	680
Well-sealing device. Tubular	C. F. Preslar	699,848	May 13	1401	324	99	1477
Well-sinking apparatus. Tubular	C. F. Preslar	699,849	May 13	1402	324	99	1477
Well tool. Oil or Artesian.	A. M. Hendershot	700,328	May 20	2388	546	99	1697
Well-tube lifter	J. Neumeier	713,485	Nov. 11	1959	448	101	1316
Well-tube sand-screen	C. Monjeau	707,611	Aug. 26	3082	694	100	1802
Well-tubing protector. Oil.	G. F. Tait	690,676	Jan. 7	587	127	98	125
Well-tubing strainer	J. M. Ware	713,544	Nov. 11	2106	471	101	1345
Wells. Automatic water-discharging apparatus for	L. F. Hoffman	717,193	Dec. 30	5094	1104	101	2976
Wells by direct air-pressure. Apparatus for raising liquids, such as oil, from oil.	R. Stirling	717,048	Dec. 30	4772	1034	101	2907
Wells by percussion. Apparatus for boring.	A. Fauck, Jr	692,645	Feb. 4	751	173	98	953
Wells. Expanding reamer for oil or Artesian	J. P. Smith	704,136	July 8	1457	312	100	306
Wells from fires. Appliance for protecting oil	J. M. Cochran	695,278	Mar. 11	1793	398	98	2107
Wells from gushing, &c. Device for preventing gas or oil	G. R. Cheesman	714,146	Nov. 25	3262	719	101	1623
Wells. Making	J. G. Huffman	698,020	Apr. 22	3043	669	99	695
Wells of oil or gas. Automatic controller for flowing	C. P. Estes	711,721	Oct. 21	2546	559	101	561
Wells. Rod and tube elevating and pumping apparatus for oil.	W. J. Wright	713,269	Nov. 11	1549	350	101	1229
Wells. Sand-reel for oil or Artesian	H. W. Eaton, Jr., and A. Benson	701,315	June 3	68	14	99	2123
Wells. Sand-reel for oil or Artesian	A. Benson	712,480	Nov. 4	31	9	101	904
Wells. Sand-trap for Artesian or driven.	B. F. Smith	695,952	Mar. 25	3008	680	98	2388
Wells. Shutting off water in drilled oil.	W. Plotts	715,141	Dec. 2	944	203	101	2029
Wells, &c. Sucker-rod grab for oil.	W. La Barte	709,580	Sept. 23	3079	685	100	2661
Wells, &c. Tool for oil.	W. J. Dunlap	708,325	Sept. 2	605	137	100	2105
Wheat-cleaning mechanism	J. Higginbottom	702,212	June 10	1679	378	99	2471
Wheat. Machine for removing garlic from	W. M. Rice	701,223	May 27	4062	939	99	2068
Wheat. Machine for separating cockle from	W. W. Chmenson and W. D. Winger	691,045	Jan. 14	1287	292	98	284
Wheat-scouring machine	G. Lützenburger	695,106	Mar. 11	1470	327	98	2039
Wheel:							
See Balance-wheel.	Magnetic wheel.						
Bicycle sprocket-wheel.	Metal wheel.						
Brake-wheel.	Metallic wheel.						
Buffing-wheel.	Paddle-wheel.						
Car-wheel.	Polishing-wheel.						
Chain-wheel.	Printing-wheel.						
Cog-wheel.	Propeller-wheel.						
Current-wheel.	Rubber-tired wheel.						
Engine driving-wheel.	Saw-wheel.						
Fifth-wheel.	Spring-wheel.						
Fly-wheel.	Sprocket-wheel.						
Gear-wheel.	Toy wind-wheel.						
Grinding-wheel.	Traction-wheel.						
Hand-wheel.	Trolley-wheel.						
Harvester fly-wheel.	Turbine wheel.						
Inflatable wheel.	Vehicle-wheel.						
Locomotive driving-wheel.	Wind-wheel.						
Wheel.							
Wheel.	S. Furmidge	691,717	Jan. 21	2538	568	98	563
Wheel.	O. Congelton	692,193	Jan. 28	3431	776	98	761
Wheel.	J. Edwards	692,256	Feb. 4	73	16	98	814
Wheel.	C. H. Bicalky	692,602	Feb. 4	682	159	98	998
Wheel.	F. J. Ranford	692,710	Feb. 4	873	199	98	978
Wheel.	F. M. Hawk	693,011	Feb. 11	1459	317	98	1125
Wheel.	J. T. Ashley	694,281	Feb. 25	3337	850	98	1647
Wheel.	G. E. Evans	695,448	Mar. 18	2079	469	98	2185



## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	De'c.	Vol.	Page.
Wheel	C. H. Bicalky	695,532	Mar. 18	2236	505	98	2217
Wheel	A. A. Vérel	695,848	Mar. 18	2816	526	98	2335
Wheel	C. L. Horack	695,934	Mar. 25	2979	674	98	2382
Wheel	A. L. Hockett	697,341	Apr. 8	1773	397	99	397
Wheel	C. L. Horack	699,736	May 13	1210	282	99	1436
Wheel	J. Du Roth	700,183	May 20	2086	477	99	1638
Wheel	J. Macphail	700,215	May 20	2141	491	99	1649
Wheel	M. S. Canda	701,292	June 3	24	5	99	2113
Wheel	G. H. Crosby	701,302	June 3	38	8	99	2116
Wheel	S. Furnidge	701,705	June 3	768	171	99	2269
Wheel	W. T. M. Brunnemer	704,234	July 8	1620	351	100	339
Wheel	E. J. Edwards	705,367	July 29	4370	947	100	946
Wheel	J. J. Rowe	706,477	Aug. 5	954	308	100	1308
Wheel	A. A. Vérel	706,484	Aug. 5	209	69	100	1310
Wheel	M. S. Shotwell	710,375	Sept. 30	4587	1035	100	2388
Wheel	H. D. Lefebvre	713,998	Nov. 18	2973	662	101	1543
Wheel	W. C. Morton	714,221	Nov. 25	3439	756	101	1659
Wheel	F. Lyon	715,593	Dec. 9	1792	397	101	2219
Wheel-attaching device	J. S. and J. C. Clawson	693,237	Feb. 11	1940	421	98	1223
Wheel attachment	T. Onell	699,125	Apr. 29	5164	1143	99	1160
Wheel-clamp	E. J. Napier	707,711	Apr. 26	3288	736	99	1844
Wheel-controlling mechanism	T. Quinn	691,663	Jan. 21	2438	549	98	543
Wheel-fastener	A. M. Beebe	691,099	Jan. 14	1367	310	98	300
Wheel fastening. Divided	C. W. Shartle	714,955	Dec. 2	627	132	101	1961
Wheel-gage	J. Demarty	714,367	Nov. 25	3717	818	101	1715
Wheel hoist and rest, thimble-scraps, nut-clutch, &c. Combined	C. M. Farber	699,671	May 13	1044	243	99	1404
Wheel-making machine	V. P. Keller	705,677	July 29	4573	993	100	985
Wheel or pulley	J. M. Dodge	696,320	Mar. 25	3777	842	98	2548
Wheel or rail tread	B. C. W. Evans	700,186	May 20	2092	478	99	1639
Wheel-rim	W. S. Harville	701,036	May 27	3759	862	99	2001
Wheel-rim	W. Friedrich	715,780	Dec. 16	2155	482	101	2314
Wheel sand-box	L. E. Waterman	692,806	Feb. 4	1050	236	98	1010
Wheel scraper or cleaner	W. C. Oastler	705,123	July 22	3376	731	100	733
Wheel-tread	W. L. Judson	700,333	May 20	2398	547	99	1700
Wheel-treating disk	J. P. S. Lawrance	708,817	Sept. 9	1513	346	100	2303
Wheels and disks. Machinery for the manufacture of rimmed	E. Williams	705,003	July 15	3124	673	100	696
Wheels and the product thereof. Molding spoke	G. H. Dickerson and J. M. Gordon	707,213	Aug. 19	2321	520	100	1628
Wheels on shafts. Means for securing	C. C. Smack	706,353	Aug. 5	511	110	100	1299
Wheelbarrow	E. C. Garver and D. V. Stout	698,930	Apr. 29	4838	1068	99	1094
Wheelbarrow	C. Hewitt	702,428	June 17	2973	472	99	2571
Wheelbarrow	W. A. House and W. F. Hosken	705,406	July 22	3994	865	100	858
Wheelbarrow	B. Tanner	717,471	Dec. 30	5566	1208	101	3074
Wheelwright-machine	F. W. Förster	697,464	Apr. 15	2029	448	99	466
Whiffletree	R. W. McKinley	707,795	Aug. 26	3597	791	100	1888
Whiffletree	C. W. Threlkeld	712,821	Nov. 4	209	72	101	962
Whiffletree	W. H. Stansell	710,975	Nov. 4	362	222	101	1084
Whiffletree	J. Watts	714,341	Nov. 25	3663	807	101	1703
Whiffletree attachment	N. Reisher	706,109	Aug. 5	198	41	100	1157
Whiffletree attachment	J. Hafer, Sr.	716,332	Dec. 23	3680	803	101	2648
Whiffletree-clip	J. Curry	694,254	Feb. 25	3887	869	98	1657
Whiffletree-clip	W. Ferguson	698,192	Apr. 22	3398	747	99	769
Whiffletree-clip	W. R. Ayer	706,579	Aug. 12	1701	381	100	1482
Whiffletree-clip	C. Fenton	713,061	Nov. 11	1166	268	101	1132
Whiffletree connection	A. H. Shuel	691,496	Jan. 21	2140	479	98	481
Whiffletree construction	C. E. Dupont and A. Sills	691,897	Jan. 28	2900	653	98	655
Whiffletree-coupling	F. Hendricks and W. F. Kohl	697,340	Apr. 8	1772	397	99	397
Whiffletree-coupling	J. C. Shandley	697,556	Apr. 15	2186	486	99	496
Whiffletree-hook	C. V. Hoover	707,773	Aug. 26	3466	781	100	1879
Whiffletree-hook	S. S. Grindell	710,573	Oct. 7	337	73	101	68
Whiffletree-hook	C. A. Clark and A. Wheeler	712,391	Nov. 25	3363	784	101	2280
Whiffletree-hook	R. A. Dilts	713,615	Nov. 18	2250	501	101	1390
Whiffletree-hook	L. A. Beeman	714,997	Dec. 2	697	146	101	1976
Whiffletree-mounting	E. W. M. Bailey	708,004	Sept. 2	8	2	100	1982
Whip	M. O. Felker	703,397	July 1	63	12	100	15
Whip	D. C. Hull	711,897	Oct. 21	2893	640	101	634
Whip. Drover's	P. S. Harrington	715,576	Dec. 9	1765	391	101	2213
Whip-socket	G. S. Croft and E. P. Coulter	695,719	Mar. 18	2573	383	98	2387
Whips. Butt-loading for	H. W. Larsson	707,124	Aug. 19	2143	380	100	1389
Whist. Index-card for duplicate	C. W. Neely	698,541	Apr. 29	4007	885	99	912
Whist tray. Duplicate	R. B. Starkweather	705,469	July 22	4109	893	100	882
Whistle. Plural	A. P. Hatch	696,814	Apr. 1	792	181	99	168
Whistle. Steam	I. Anderson	712,233	Oct. 28	3541	776	101	780
Wick for hydrocarbon-burners	W. Reed	697,351	Apr. 15	2165	481	99	492
Wick. Lamp	E. S. Macfie	690,747	Jan. 7	744	165	98	157
Wick. Lamp	H. Weston	699,432	May 6	545	133	99	1296
Wick-snuffing device. Lamp	M. Cameron	713,956	Nov. 18	2898	644	101	1527
Wick-tube	W. H. Wilder	693,476	Feb. 18	2392	523	98	1338
Wicker chair. Knockdown	C. Werthner	691,216	Jan. 14	1574	358	98	343
Winch	P. B. Clarke	711,825	Oct. 21	2752	669	101	603
Winch	H. A. L. Barry	715,742	Dec. 16	2973	495	101	2298
Wind-engine	C. McGregor	717,111	Dec. 30	4884	1057	101	2931
Wind instrument	J. P. Koch	691,783	Jan. 28	2699	607	98	615
Wind-motor	J. M. Cochran	703,766	July 1	720	159	100	144
Wind-motor	C. F. Bamford	705,195	July 22	3521	764	100	764
Wind-motor	A. Gran	705,922	July 29	3493	1090	100	1073

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Wind-motor	H. Grist	713,094	Nov. 11	1194	272 273 274	101	1150
Wind-motor	J. M. Cochran	715,985	Dec. 16	2575	569 570	101	2405
Wind-motor	C. McGregor	717,110	Dec. 30	4881	1057	101	2980
Wind-power. Apparatus for converting, storing, and utilizing	P. F. Thede	690,794	Jan. 7	827	182	98	174
Wind-turbine	J. Kaiser	710,277	Sept. 30	4418	996	100	2354
Wind-wheel	O. J. Ziegler	693,481	Feb. 18	2399	525	98	1340
Wind-wheel	B. Cannon	698,891	Apr. 22	3735	825	99	840
Wind-wheel	A. J. Bolton	705,639	July 29	4495	975	100	970
Wind-wheel	J. F. Hoag and C. R. Beckman	717,197	Dec. 30	5093	1104	101	2976
Windmill	A. H. Hau	690,950	Jan. 14	1093	247	98	244
Windmill	W. G. Bird	691,524	Jan. 21	2190	491	98	991
Windmill	J. C. Sala and G. Stabile	692,714	Feb. 4	880	201	98	979
Windmill	E. Plagmann	694,300	Feb. 25	3968	884	98	1676
Windmill	S. Bauer	695,443	Mar. 18	2070	467	98	2188
Windmill	W. Bauer	696,622	Apr. 1	415	96	99	91
Windmill	H. C. Huff	698,116	Apr. 22	3251	712	99	738
Windmill	G. S. Lowell	698,299	Apr. 22	3580	789 790	99	807
Windmill	J. Neuser	698,409	Apr. 22	3763	830	99	845
Windmill	G. B. Snow	702,161	June 10	1588	359 360	99	2453
Windmill	L. A. Haight	704,030	July 8	1225	254	100	258
Windmill	R. Bruneau	704,507	July 15	2141	463	100	463
Windmill	T. W. Lowe	708,375	Sept. 2	675	152 153	100	2118
Windmill	C. Wells	711,140	Oct. 14	1416	306 307	101	309
Windmill	I. Benjamins	711,195	Oct. 14	1551	333	101	337
Windmill	J. Aeschlimann	711,928	Oct. 28	2973	651	101	669
Windmill	W. Faubion	711,954	Oct. 28	3036	667	101	681
Windmill	J. R. Tinney	713,817	Nov. 18	2610	582	101	1466
Windmill	C. Wall	713,820	Nov. 18	2617	584	101	1468
Windmill	J. G. Benster	716,658	Dec. 23	3932	859	101	2705
Windmill	J. H. Opfer	717,115	Dec. 30	4893	1059	101	2933
Windmill and pump coupling mechanism	W. F. Pflueger	707,718	Aug. 26	3302	740 741	100	1847
Windmill-controller	W. J. Banish	706,714	Aug. 12	1870	305	100	1412
Windmill cut-off	R. W. Waldo and A. G. Bonham	692,392	Feb. 4	303	73	98	862
Windmill-gear	C. S. Beggs	696,000	Mar. 25	3093	701	98	2405
Windmill. Governor for	C. F. Ohler	705,782	July 29	4761	1032	100	1023
Windmill-head	F. E. Benedict	711,148	Oct. 14	1436	311	101	314
Windmill mechanism	M. W. Elliott, Jr.	698,479	Apr. 29	3904	862 863	99	890
Windmill-power	C. Oberlander	691,168	Jan. 14	1494	337	98	327
Windmill-regulator	G. S. Long	692,158	Jan. 28	3368	762	98	748
Windmill-regulator	J. A. Walker	695,897	Mar. 18	2906	659	98	2354
Windmill-regulator	W. E. Piper	711,676	Oct. 21	2466	549	101	544
Windmill-regulator. Automatic	E. A. Bromley	708,620	Sept. 9	1169	249	100	2217
Windmills. Automatic balance attachment for	B. Terry	716,786	Dec. 23	4155	911	101	2751
Winding composite cops. Machine for	S. W. Wardwell	690,492	Jan. 7	230	46 47 48 49	98	50
Winding-engine	H. N. Covell	711,618	Oct. 21	2351	514 515	101	518
Winding-engine drum-reversing device	H. N. Covell	710,954	Oct. 14	1048	233 234	101	230
Winding-machine	A. B. Morse	695,645	Mar. 18	2463	558 559	98	2263
Winding-machine	M. I. Pupin and S. W. Balch	697,660	Apr. 15	2381	530	99	535
Winding-machine	R. C. and F. L. Fay	707,694	Aug. 26	3233	725 726 727	100	1832
Winding-machine	J. O. McKean	716,923	Dec. 30	4528	983	101	2855
Winding-machine conical-tube holder.	C. E. Riley	702,076	June 10	1446	325	99	2423
Winding machine. Cop-	W. T. Hanson	714,897	Dec. 2	517	108 109	101	1939
Winding-machine cop-holder	R. Hill	712,536	Nov. 4	144	36	101	928
Winding machine. Cross	E. Voigt	709,653	Sept. 23	3194	749	100	2851
Winding machine. Thread-	P. J. Westphal	693,196	Feb. 11	1862	702	98	1206
Winding mechanism	T. P. Brown	696,090	Mar. 25	3273	740	98	2442
Winding spools closed-coiled. Machine for cross-	B. Rieter	703,001	June 24	3169	728 729	99	2515
Windlass	M. B. Weller	698,771	Apr. 29	4499	994	99	1019
Windlass	F. S. Manton	708,818	Sept. 9	1514	347 348	100	2303
Windlass and capstan and means for driving same.	J. R. Andrews	695,994	Mar. 25	3083	699	98	2403
Windlass and wagon-hoist. Farm-	T. H. Tabor	697,112	Apr. 8	1380	306	99	313
Windlass and warping-winch. Combined	J. R. Andrews	696,394	Apr. 1	4	1	99	3
Windlass. Ship's.	C. W. Blake	708,455	Sept. 2	818	186 187	100	2147
Windlass. Sweep-operated hoisting-	E. R. Storrs	705,880	July 29	4934	1073	100	1058
Window	E. A. Sanders	691,182	Jan. 14	1518	342	98	331
Window	J. Lyes	692,159	Jan. 28	3370	733	98	749
Window	W. D. Watson	692,560	Feb. 4	606	142 143	98	922
Window	J. Fryer	696,428	Apr. 1	65	15	99	18
Window	M. Häberle	699,919	May 13	1543	355 356	99	1508
Window	A. Lorenz	700,950	May 27	3591	826	99	1965



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. L.	Vol.	Page.
Window	W. D. Watson	702,754	June 17	2693	1618	99	2701
Window	H. I. Olsen	703,150	June 24	3456	732	99	2872
Window	E. Kraft	703,000	July 1	305	83	100	79
Window	P. Lalor	705,068	July 22	3325	721	100	782
Window	J. Horsfield	705,999	July 29	5141	1121	100	1191
Window	H. Vettel	707,808	Aug. 26	3527	797	100	1892
Window	J. L. Stieglitz	711,082	Oct. 14	1319	284	101	287
Window	E. A. Sanders	711,179	Oct. 14	1513	325	101	339
Window	C. E. Erickson and R. B. Miller	712,785	Nov. 4	600	137	101	1022
Window	O. A. Essig	713,414	Nov. 11	1885	414	101	1201
Window	B. Brown	714,776	Dec. 2	344	48, 49	101	1886
Window and blind fastener. Double	W. M. F. Kelly	715,681	Nov. 4	142	285	100	1362
Window and window-frame. Metal	W. B. Mudd	703,287	Sept. 16	2346	537	100	2498
Window appliance	C. E. Bradshaw	702,532	Sept. 23	2, 98	668	100	2645
Window attachment	R. Hamilton	703,252	June 24	3643	837	99	2290
Window attachment for protecting food	A. Boller	693,224	Feb. 11	1916	417	98	1217
Window-balance	F. W. G. Boettcher	696,308	Mar. 25	3741	836	98	2540
Window brace and fastener	C. J. Jenks	700,065	Aug. 5	135	26	100	1143
Window-bracket	C. E. Moulton	699,214	May 5	37	99	100	1366
Window bracket or step	R. Zove	698,762	Apr. 29	4485	985	99	1015
Window-chair	J. F. Steckenreiter	697,182	Apr. 8	1496	335	99	338
Window-cleaner	E. A. and G. M. Mealey	695,070	Mar. 11	1413	310	98	2628
Window-cleaner	G. W. Warner	695,183	Mar. 11	1619	359	98	2671
Window-cleaner	H. C. Warfel	697,760	Apr. 15	2561	569	99	573
Window-cleaner	E. B. Bewler	708,299	Sept. 2	560	127	100	2665
Window-cleaner	C. A. Wheeler	716,157	Dec. 16	2916	642	101	2477
Window-cleaning apparatus	S. C. Lawlor	706,834	Aug. 12	1619	364	100	1465
Window-cleaning apparatus	H. Baird	708,854	Sept. 9	1587	363	100	2319
Window-cleaning apparatus	S. C. Lawlor	716,442	Dec. 23	3489	762	101	2611
Window-cleaning chair	S. Rabinowitz	705,292	July 22	3749	814	100	809
Window. Combination storm and screen	C. W. Berger	710,661	Oct. 7	510	106	101	103
Window-fastener	G. E. Mellen	699,696	May 13	1037	257	99	1414
Window-fastener	W. B. Cotter	706,513	Aug. 12	1153	257	100	1365
Window-fastener	L. D. Parks	708,067	Sept. 2	1225	30	100	2007
Window-fastener. Automatic	A. H. H. Siefert	715,217	Dec. 2	1083	232	101	2059
Window-fastening device	D. Snell	699,726	Sept. 23	3323	747	100	2711
Window-frame	F. N. Boyce	692,003	Jan. 28	3090	694	98	692
Window-frame	K. Jørgensen	711,633	Oct. 21	2374	521	101	534
Window-frame	F. G. Oldenburg	712,402	Oct. 28	3842	840	101	845
Window-frame	D. Zatzke	712,629	Nov. 4	318	74	101	964
Window frame and sash	H. C. Smith	701,097	May 27	3850	885	99	2620
Window frame and sash	A. Rasner	702,586	June 17	2377	542	99	2634
Window frame and sash	A. Rasner	702,587	June 17	2378	542	99	2635
Window frame and sash	A. Rasner	702,588	June 17	2380	543	99	2635
Window frame and sash	C. L. Wall	708,430	Sept. 2	770	173	100	2137
Window frame and sash	E. Davey	709,666	Sept. 23	3219	718	100	2690
Window frame and sash	G. Schwing	713,508	Nov. 11	2044	457	101	1333
Window frame and sash	C. B. Schilling	716,266	Dec. 16	3170	694	101	2528
Window frame and sash. Metallic	H. A. Streeter	714,254	Nov. 25	3169	770	101	1671
Window frame and sash. Sheet-metal	C. B. Schilling	709,573	Sept. 23	2965	661	100	2037
Window-guard	R. Bruning	690,223	Mar. 25	3562	798	98	2592
Window-guard	H. P. Culver and M. Leichtentritt	703,029	Aug. 5	50	10	100	1128
Window guard and shade attachment	T. Euphrat	693,957	Feb. 25	3314	728	98	1543
Window-guard. Bowed nursery	G. C. and E. A. Williams	708,442	Sept. 2	791	179	100	2141
Window-guard. Nursery	G. C. and E. A. Williams	708,441	Sept. 2	790	179	100	2141
Window-lock	S. J. Gibbouey	702,108	June 10	1654	371	99	2466
Window-lock	T. Choppe	713,771	Dec. 9	2043	457	101	2272
Window-lock. Automatic ventilating	W. C. Martin	699,201	May 6	135	34	99	1203
Window-locking device	J. Wanless	707,039	Aug. 12	1978	444	100	1537
Window. Metal	A. W. Cooper	700,621	May 20	2928	674	99	1811
Window-opener	J. M. Thorp	698,760	Apr. 29	4183	991	99	1015
Window-opener	J. Horsfield	705,495	July 22	3393	865	100	857
Window. panel, or other sliding frame	J. Thorpe	692,039	Jan. 28	3158	713	98	705
Window-platform	H. K. Howard	699,574	Jan. 7	405	84	98	88
Window. Prismatic-glass	G. R. Cummings	710,424	Oct. 7	63	15	101	15
Window-screen	S. W. Benson	693,093	Feb. 25	3405	748	98	1561
Window-screen	E. L. Lloyd	694,319	Feb. 25	4062	903	98	1686
Window-screen	C. J. Obermeyer and J. F. Ambacher.	696,744	Apr. 1	665	150	99	142
Window-screen	H. T. Wright	696,783	Apr. 1	738	167	99	158
Window-screen	J. Schofield	697,116	Apr. 8	1372	304	99	312
Window-screen	R. B. Fowler	698,926	Apr. 29	4835	1067	99	1068
Window-screen	F. C. and A. G. Eastman	699,157	May 6	54	15	99	1187
Window-screen	J. H. Rankin	701,932	June 10	1155	265	99	2366
Window-screen	M. R. Skinner	702,077	June 10	1447	325	99	2423
Window-screen	C. B. Warner	704,992	July 15	3107	600	100	602
Window-screen	J. P. McKeever	705,278	July 22	3722	897	100	801
Window-screen	M. Kolf	706,762	Aug. 12	1484	320	100	1436
Window-screen	O. Ouellette	707,449	Aug. 19	2754	624	100	1717
Window-screen	E. G. Holden	708,337	Sept. 2	653	147	100	2113
Window-screen	H. D. Mills	709,346	Sept. 16	2573	580	100	2543

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Invention.	Name.	No.	Date.	Monthly volume		Official Gazette.	
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Window-screen.....	E. Hipolito.....	709,405	Sept. 16	2709	607	100	2570
Window-screen.....	H. L. Roberts.....	714,519	Nov. 25	3981	882	101	1765
Window-screen.....	F. B. Harrison.....	714,898	Dec. 2	521	109	101	1940
Window-screen.....	C. A. Phillips.....	716,751	Dec. 23	4084	896	101	2737
Window-screen. Adjustable.....	O. Niehaus.....	700,362	May 20	2452	562	99	1712
Window-screen. Adjustable.....	D. E. Fleming.....	702,094	June 10	1474	332	99	2429
Window-screen. Adjustable metallic.....	T. J. Perrin.....	690,662	Jan. 7	566	124	98	122
Window screen and slide.....	C. L. Taylor.....	715,437	Dec. 9	1491	324	101	2160
Window-screen attachment.....	F. C. Wright.....	692,403	Feb. 4	321	78	98	866
Window-screen. Extensible.....	W. J. Greenman.....	700,638	May 20	2959	680	99	1818
Window-screen hanger.....	A. L. Taber.....	704,697	July 15	2419	523	100	521
Window-screen. Sliding.....	J. A. Geather.....	694,095	Feb. 25	3530	734	98	1538
Window-seat.....	L. Wagener.....	710,127	Sept. 30	4144	935	100	2894
Window. Self-closing.....	E. Van Noorden and H. C. Smith.....	698,589	Apr. 29	4080	902	99	926
Window. Sheet-metal.....	C. D. Pruden.....	711,526	Oct. 21	2183	475	101	483
Window. Sliding.....	W. E. Hardeman.....	710,322	Sept. 30	4497	1014	100	2970
Window-stop-adjusting device.....	W. F. Gilbert.....	697,139	Apr. 8	1425	317	99	323
Window support. Casement.....	A. Gnezdza and F. Häcker.....	709,401	July 1	68	13	100	16
Window. Ventilating.....	E. A. Giesser.....	691,260	Jan. 14	1659	315	98	361
Window-ventilator.....	J. A. Russell.....	705,303	July 22	3767	817	100	812
Window-ventilator.....	D. O. Davis.....	706,905	Aug. 12	1753	392	100	1493
Window-washer.....	B. L. Cohn.....	694,615	Mar. 4	537	117	98	1827
Window-washer.....	J. Vain.....	699,042	Apr. 29	5022	1111	99	1132
Window-washing apparatus.....	S. C. Lawlor.....	698,030	Apr. 22	3057	672	99	638
Windows. Making prismatic.....	G. K. Cummings.....	695,284	Mar. 11	1815	403	98	2110
Windows. Means for reversing.....	M. Lenz.....	713,893	Nov. 15	2739	615	101	1501
Windows. Safety appliance for use in cleaning.....	H. Goldenfarb.....	699,306	May 6	335	78	99	1242
Windows, sashes, &c. Frame for sliding.....	C. A. Walchner.....	716,966	Dec. 30	4617	1001	101	2674
Wine-cooler.....	J. E. Meyer.....	705,270	July 22	3707	804	100	799
Wine-press.....	L. Perotti.....	705,437	July 22	4055	879	100	871
Wines. Preparing sparkling.....	P. Garrett.....	704,533	July 15	2200	476	100	476
Winker-stay fastener and holder.....	A. L. Archambeault.....	696,533	Apr. 1	250	56	99	57
Winnowers. Adjustable riddle for.....	C. E. Archel and W. B. Fall.....	697,324	Apr. 8	1746	389	99	391
Wire and making same. Composite.....	A. T. Wall.....	697,575	Apr. 15	2214	493	99	503
Wire bag. Woven.....	W. J. Wright.....	692,404	Feb. 4	322	78	98	866
Wire bag. Woven.....	W. J. Wright.....	692,405	Feb. 4	323	78	98	867
Wire bag. Woven.....	W. J. Wright.....	692,406	Feb. 4	324	79	98	867
Wire-barb machine.....	W. H. Farrell.....	704,872	July 15	2803	606	100	600
Wire bars by electrodeposition. Apparatus for the manufacture of compound.....	R. D. Sanders.....	696,169	Mar. 25	3932	751	98	2456
Wire-bending machine.....	G. F. Pross and A. P. Tucker.....	707,006	Aug. 12	1916	429	100	1524
Wire-chasing or marking machine.....	H. R. Fenner.....	715,774	Dec. 16	2143	479	101	2312
Wire-clamp.....	M. D. Kilmer.....	716,723	Dec. 23	4088	884	101	2727
Wire-cloth. Reed for looms for weaving.....	F. S. Gable.....	696,325	Mar. 25	3786	844	98	2550
Wire coils. Machine for covering.....	G. F. and G. M. Wright.....	700,713	May 20	3123	700	99	1853
Wire. Combination-tool for manipulating.....	E. C. Cullen.....	709,749	Sept. 23	3385	759	100	2722
Wire-connector.....	H. W. Wyckoff.....	693,206	Feb. 11	1887	408	98	1210
Wire-coupling.....	G. L. Mitchell.....	698,127	Apr. 22	3270	715	99	741
Wire-coupling.....	R. Thompson.....	698,155	Apr. 22	3325	725	99	753
Wire-covering machine.....	A. Kreidler.....	704,550	July 15	2231	483	100	482
Wire crossings. Hand-machine for casting balls upon.....	J. Harris.....	690,723	Jan. 7	707	156	98	149
Wire-cutter and pliers. Combined.....	P. Broadbooks.....	699,832	May 13	1358	315	99	1468
Wire cutting and straightening machine.....	J. Kelley, W. V. and P. A. Reid.....	716,051	Dec. 16	2701	597	101	2432
Wire-cutting die.....	R. A. Breul.....	691,892	Jan. 28	2895	652	98	654
Wire-drawing.....	W. J. Glover.....	698,273	Apr. 22	3544	780	99	800
Wire-drawing machine.....	M. Reid.....	695,490	Mar. 18	2148	485	98	2198
Wire ends. Machine for forming loops on.....	H. Wilson.....	714,426	Nov. 25	3821	846	101	1735
Wire fabric for belts or aprons.....	C. Swinscoe.....	712,212	Oct. 28	3504	768	101	771
Wire-fabric machine.....	T. Sutherland.....	708,679	Sept. 9	1213	277	100	2238
Wire-fastener.....	F. S. Smith.....	695,954	Mar. 25	3011	681	98	2388
Wire from one reel to another while same is being polished. Apparatus for winding.....	A. Guimond.....	694,011	Feb. 25	3436	757	98	1567
Wire-grip.....	W. C. Jones.....	690,438	Jan. 7	99	21, 32	98	24
Wire-grip.....	F. T. Page.....	696,260	Mar. 25	3634	812	99	2551
Wire-grip.....	J. D. Campbell and R. C. Kyle.....	708,314	Sept. 2	586	132	100	2101
Wire-gripper.....	J. W. Angle.....	711,372	Oct. 14	1877	410	101	406
Wire-guide. Hydraulic.....	J. J. Warren.....	711,139	Oct. 11	1414	306	101	309
Wire-machine.....	A. Landgreen.....	692,314	Feb. 4	169	39	98	833
Wire machine. Barb.....	H. Gauerman and D. Pryde.....	707,315	Aug. 19	2514	565	100	1666
Wire machine. Barb.....	J. E. Fredrick.....	711,303	Oct. 11	1751	373	101	380
Wire machine. Barbed.....	E. F. Shellabarger.....	704,710	July 15	2489	538	100	536
Wire machine. Barbed.....	W. Emery.....	705,394	July 22	3972	860	100	852
Wire. Machine for handling barbed.....	J. Moore.....	694,404	Mar. 4	132	29	98	1740
Wire-machine tension device. Barbed.....	F. W. Macke and M. Miller.....	705,688	July 29	4588	966	100	988
Wire-mill automatic stop mechanism.....	H. H. White.....	714,120	Nov. 18	3211	709	101	1595
Wire or fence stretching machine.....	J. W. Snedeker and J. W. Page.....	713,518	Nov. 11	2037	460	101	1336
Wire or rope stretcher and fastener.....	A. E. White.....	717,481	Dec. 30	5583	1212	101	3078
Wire oscillators. Tuning vertical.....	J. S. Stone.....	717,511	Dec. 30	5638	1223	101	3089
Wire reel. Barbed.....	Z. D. Smith.....	708,596	Sept. 9	1063	241	100	2207



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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Wire-reel truck	F. W. Schooley	709,932	Sept. 30	3760	849	100	2813
Wire reeling and stretching machine	H. C. Land	696,906	Apr. 1	988	850	99	209
Wire-reeling machine	W. O. Dunlap	696,727	Apr. 1	629	142	99	136
Wire-rod-straightening machine	G. de Laval and C. W. Chisholm	696,344	Mar. 25	3814	851	98	2555
Wire-rope block	A. B. Tarbox	711,796	Oct. 21	2694	593	101	591
Wire-rope machine	E. P. Frederick	693,509	Feb. 18	2448	536	98	1350
Wire-rope machine	E. P. Frederick	703,778	July 1	739	164	100	148
Wire-splicing machine	J. Barron	713,340	Nov. 18	2866	639	101	1520
Wire-straightener	J. G. Iverson	710,151	Sept. 30	4195	945	100	2904
Wire straightening and cutting machine	A. H. Nilson and M. Olson	701,375	June 3	166	36	99	2142
Wire-straining apparatus	T. Hewton	700,044	May 13	1773	410	99	1553
Wire-stretcher	L. J. Bandemer	691,521	Jan. 21	2186	490	98	491
Wire-stretcher	S. H. Dunlap	691,847	Jan. 28	2818	632	98	638
Wire-stretcher	S. H. Wright	692,753	Feb. 4	939	214	99	99
Wire-stretcher	W. Z. Brannon	693,227	Feb. 11	1221	417	98	1218
Wire-stretcher	J. A. Walls and R. L. Boyter	696,881	Apr. 1	931	212	99	197
Wire-stretcher	J. V. Anderson	700,285	May 20	2294	523	99	1680
Wire-stretcher	H. L. Ferris	702,295	June 10	1807	413	99	2497
Wire-stretcher	A. Cross of Albert	702,543	June 17	2284	520	99	2615
Wire-stretcher	E. M. Hand	702,648	June 17	2193	572	99	2659
Wire-stretcher	W. M. Halpain	704,875	July 15	2807	607	100	601
Wire-stretcher	C. Liemhardt	705,255	Sept. 9	3693	806	100	257
Wire-stretcher	J. Stevenson	705,547	July 22	4327	935	100	922
Wire-stretcher	R. F. Boatright	705,555	July 29	4349	941	100	941
Wire-stretcher	S. Bates	705,634	July 29	4490	974	100	969
Wire-stretcher	M. E. Shinn and F. J. Herbert	707,526	Aug. 19	2898	655	100	1747
Wire-stretcher	E. E. Swann	707,732	Aug. 26	3331	746	100	1853
Wire-stretcher	F. C. Garton	708,474	Sept. 2	850	194	100	2154
Wire-stretcher	W. S. Wright	708,705	Sept. 9	1228	292	100	292
Wire-stretcher	O. Andrew	711,651	Oct. 21	2406	530	101	530
Wire-stretcher	N. P. Nelson	715,846	Dec. 16	2294	509	101	2344
Wire-stretcher	B. Myers	716,080	Dec. 16	2773	612	101	2447
Wire stretcher and cutter	J. A. Armour	696,395	Apr. 1	4	1	99	3
Wire stretcher and reeling machine	G. S. and W. D. Austin	692,412	Feb. 4	333	81	98	869
Wire stretcher, cutter, splicer, and staple-puller.	J. Mossman	699,213	May 6	148	37	99	1205
Wire-stretching machine	H. Hyde	705,843	July 29	4864	1057	100	1044
Wire-tie	D. W. Aylworth	708,612	Sept. 9	1098	247	100	2214
Wire-tie Stay	J. Imbler	706,948	Aug. 12	1820	407	100	1505
Wire-tightener	T. Spriggs	706,606	Aug. 12	1178	261	100	1370
Wire-tightener	S. W. Bradbury	708,196	Sept. 2	381	88	100	2059
Wire-tightener	J. W. Headley	715,062	Dec. 2	736	169	101	1967
Wire twisting and reeling machine	J. Emer	705,331	July 22	3816	833	100	827
Wire Weaving	W. J. Wright	692,407	Feb. 9	326	79	98	367
Wire Weaving	C. W. James	704,330	July 8	1819	394	100	383
Wire-weaving apparatus	W. J. Wright	692,408	Feb. 4	327	79	98	367
Wire-weaving machine	W. W. McCallip	695,942	Mar. 25	2990	676	98	2384
Wire-weaving machine	W. J. Wright	711,809	Oct. 21	2735	602	101	598
Wire-weaving machine	W. J. Wright	711,810	Oct. 21	2727	603	101	598
Wire-weaving machine	W. J. Wright	713,360	Nov. 11	1766	397	101	1276
Wire-weaving machine	W. J. Wright	714,088	Nov. 18	3151	698	101	1581
Wire-weaving machine	C. W. James	717,207	Dec. 30	5106	1107	101	2970
Wire-winding device. Metal.	R. E. Fowler	703,126	June 24	3412	782	99	2863
Wires and stays together. Means for fastening.	C. Colman	692,781	Feb. 4	965	225	98	1060
Wires, conductors, &c. Coupling for.	J. Fischer and H. Schneider	704,869	July 15	2798	605	100	530
Wires. Metal fastening for cross.	B. S. Blake	700,695	Sept. 23	3273	733	100	2701
Wires or bars to pieces of metal. Plug or bush for connecting	E. A. Richardson	694,882	Mar. 4	471	101	98	1813
Wires. Pick-up tongs for live.	A. Ambuhl	700,002	May 13	1691	389	99	1536
Wires together. Clip for securing	E. M. Hulise and A. F. Schramm	693,866	Feb. 25	3134	693	98	1508
Wireworking-machine feeding device	T. S. Haley	714,175	Nov. 25	3356	739	101	1643
Wireworking-tool	B. M. Hargrove	692,283	Feb. 4	923	223	98	823
Wireworking-tool.	C. M. Bailey	708,613	Sept. 9	1099	247	100	2215
Wiring wood slats. Machine for	C. M. Bailey	708,111	Sept. 2	199	47	100	2023
Wood-bending	S. Clark	709,204	Sept. 16	2302	523	100	2485
Wood by fire. Ornamenting	M. Schirm	695,417	Mar. 11	2028	455	98	2156
Wood. Charring-tool for ornamenting	J. P. Müller	695,884	Mar. 18	2883	653	98	2350
Wood. Color-shading	S. Lyon	700,348	May 20	2427	554	99	1706
Wood-cutting machine	E. Wuhmann	691,428	Jan. 21	2018	451	98	455
Wood-cutting machine	J. A. Crismore	705,324	July 22	3823	828	100	823
Wood-fiber-cutting machine	G. E. Le Clair	698,719	Apr. 29	4417	974	99	1000
Wood fiber. Machine for producing.	H. M. Hoover	709,576	Sept. 23	3070	683	100	2659
Wood-fluting machine	E. Rawson	704,373	July 8	1885	408	100	308
Wood-grinding machine	H. Wegerer	699,600	May 6	893	207	99	1359
Wood. Impregnating	J. L. Ferrell	694,956	Mar. 11	1195	262	98	1982
Wood. Impregnating	M. Rüping	709,799	Sept. 23	3486	800	100	2743
Wood impregnating and seasoning apparatus	H. Higgins	695,152	Mar. 11	1570	348	98	2062
Wood-impregnating apparatus.	J. Borner	703,522	July 1	268	61	100	54
Wood-impregnating apparatus.	W. L. Smith	711,080	Oct. 14	1313	284	101	285
Wood-impregnating apparatus.	T. Giussani	713,630	Nov. 18	2274	501	101	1395
Wood-impregnating apparatus.	J. L. Ferrell	716,400	Dec. 23	3408	743	101	2592
Wood-impregnating apparatus.	J. L. Ferrell	716,401	Dec. 23	3410	744	101	2593
Wood. Inlaying of	H. C. Webb	691,214	Jan. 14	1571	357	98	342
Wood-jointers. Guard for power-driven.	A. J. White	692,748	Feb. 4	930	212	98	982
Wood or iron poles and timbers. Preserving	H. Etheridge	715,362	Dec. 9	1358	243	101	2133
Wood-pipe machine	A. Anderson	694,452	Mar. 4	221	49	98	1759

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Wood-plate-cutting machine	A. Smith	706,349	Aug. 5	692	151	100	1256
Wood. Preserving	I. B. Sprague	694,212	Feb. 25	3813	843	98	1642
Wood. Preserving	T. Giussani	707,224	Aug. 19	2343	524	100	1682
Wood-preserving compound	C. Kleinschmidt	697,632	Apr. 15	2332	520	99	525
Wood-preserving compound	C. Schallberger	714,521	Nov. 25	3983		101	1766
Wood. Producing artificial	E. Helbing	694,014	Feb. 25	3444		98	1569
Wood, sawdust, peat, &c., and for treating other substances. Apparatus for drying and distilling	E. Larsen	704,886	July 15	2830	612	100	606
Wood-scraper	N. Galipeau	713,979	Nov. 18	2942	652	101	1536
Wood-shapers. Antifriction-collar for.	T. S. Crapp	706,488	Aug. 5	972	213	100	1313
Wood-splitting machine	O. E. Ellison	705,659	July 29	4532	984	100	978
Woods. Staining	J. Pfister	708,069	Sept. 2	128	31	100	2008
Wooden butter-dishes, &c. Machine for making	G. R. Ibach	696,445	Apr. 1	92	21, 22	99	24
Woodwork. Decoration of	H. Smith	708,266	Sept. 2	497	114	100	2082
Woodworker's scraper	J. A. Olson	695,117	Mar. 11	1501	334	98	2045
Woodworking-clamp	C. C. Wandell	710,544	Oct. 7	294	64	101	59
Woodworking implement	F. Streich	715,173	Dec. 2	1000	216	101	2041
Woodworking-machine	T. Shurmer	692,487	Feb. 4	464	108	98	893
Woodworking-machine	F. E. Zimmermann	692,583	Feb. 4	649	152	98	931
Woodworking-machine	J. R. Oakley	695,238	Mar. 11	1711	379	98	2089
Woodworking-machine	F. Dudek and R. Dembowski	704,476	July 8	2074	449	100	436
Woodworking-machine	A. J. Norris	712,710	Nov. 4	450	107	101	991
Woodworking-machine	R. W. McDaniel	713,908	Nov. 18	2795	621	101	1506
Woodworking-machine	C. Sterba and W. J. Wright	715,432	Dec. 9	1484	320	101	2158
Woodworking-machine	J. N. Rosen	717,454	Dec. 30	5534	1202	101	3068
Woodworking-machine chip-breaker	J. R. Thomas	700,237	May 20	2236	511	99	1669
Woodworking-machine guard	A. Cook	694,894	Mar. 4	950	211	98	1914
Woodworking-machine guard	A. Cook	694,895	Mar. 4	951	212	98	1915
Woodworking-machine hold-down device	J. R. Thomas	702,039	June 10	1338	309	99	2404
Woodworking-machine pressure device	J. R. Thomas	704,147	July 8	1473	316	100	309
Woodworking-machine safety device	T. B. Rice, Jr.	691,074	Jan. 14	1333	301	98	238
Woodworking-tool	V. E. Wygant	712,448	Oct. 28	3935	861	101	864
Wool. Cleaning	E. Maertens	698,207	Apr. 22	3428		99	776
Wool. Cleaning	E. Maertens	698,208	Apr. 22	3430		99	777
Wool. Cleaning	E. Maertens	698,210	Apr. 22	3434		99	777
Wool-cleaning machine	F. G. Sargent	695,652	Mar. 18	2473	561	98	2265
Wool. Degreasing	E. Maertens	698,209	Apr. 22	3432		99	777
Wool, &c., into bags. Mechanism for pressing	A. H. Illingworth	698,506	Apr. 29	3943	871	99	898
Wool or hair shearing and clipping machine	W. H. Eyres	697,824	Apr. 15	2677	594	99	600
Wool-washing machine	J. Keefe	709,227	Sept. 16	2340	530	100	443
Wool with volatile solvents. Cleaning	E. Maertens	698,211	Apr. 22	3436		99	778
Work-bench. Portable	D. F. Barber	694,312	Feb. 25	4033	901	98	1684
Work-carrier locking device	J. Hornby	707,337	Aug. 19	2541	571	100	1672
Work conveying and presenting mechanism	R. B. Fuller	690,416	Jan. 7	49	12	98	13
Work conveying and presenting mechanism	R. B. Fuller	694,467	Mar. 4	247	55	98	1764
Work-holder	N. P. Denckla	691,364	Jan. 21	1912	430	98	432
Work-holder	E. G. Couch and N. D. Wells	706,531	Aug. 12	1048	230	100	1342
Work-support	J. T. Summers	693,673	Feb. 18	2771	610	98	1415
Wort and yeast and aerating them. Apparatus for mixing	B. M. W. Hanson	711,722	Oct. 21	2548	560	101	561
Wort-cooler	M. Wallerstein and H. H. Freund	695,974	Mar. 25	3045	690	98	2296
Wound-closing device	A. Zeiger	717,493	Dec. 30	5606	1217	101	3083
Woven fabric	G. J. Van Schott	715,612	Dec. 9	1820	404	101	2225
Woven fabric	W. T. Smith	705,464	July 22	4102	892	100	880
Woven fabric	W. T. Smith	707,871	Aug. 26	3548	822	100	1914
Woven fabric	T. Fanta	708,630	Sept. 9	1127	233	100	2221
Woven fabric	H. Hardwick	710,775	Oct. 7	732	155	101	150
Woven figured fabric	W. Scholes	698,743	Apr. 29	4454	983	99	1008
Wrapper or label assorting machine	C. E. Votaw	698,597	Apr. 29	4136	909	99	938
Wrapper. Package	L. S. Miller	710,332	Sept. 30	4513	910	100	2973
Wrapping-machine	A. Bayler	693,090	Feb. 11	1626	356	98	1160
Wrapping-machine	A. Stearns	696,112	Mar. 25	3338	752	98	2457
Wrapping-machine	G. L. Gay	697,617	Apr. 15	2296	514	99	520
Wrapping-machine	J. H. Felmlee	699,750	May 13	1192	277	99	1432
Wrapping-machine	O. N. Nord	711,586	Oct. 21	2282	496	101	504
Wrapping machine. Package	J. T. Pedersen	694,026	Feb. 25	3462	764	98	1573
Wrapping pamphlets, &c. Machine for	E. P. Sheldon	699,419	May 6	559	129	99	1289
Wreck-raising apparatus	T. Johnson and C. Jacobson	710,869	Oct. 7	896	195	101	182
Wrench:							
See Adjustable wrench.	Machine-wrench.						
Axle-wrench.	Monkey-wrench.						
Can-wrench.	Nut and pipe wrench.						
Chain wrench.	Pipe-wrench.						
Clamping-wrench.	Ratchet-wrench.						
Combination-wrench.	Saw-tooth wrench.						
Cover-wrench.	Screw-wrench.						
Grip-wrench.	Socket-wrench.						
Jar-top wrench.	Track-wrench.						
Wrench.	Vehicle-wrench.						
	F. P. Bates	690,391	Jan. 7	13	3	98	6



*Alphabetical list of inventions—Continued.*

Invention.	Name.	No.	Date	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Wrench	F. W. Dent	690,407	Jan. 7	37	9	98	11
Wrench	W. H. Lander	691,552	Jan. 21	2229	501	98	499
Wrench	R. B. Blackburn	692,002	Jan. 28	3089	694	98	692
Wrench	G. W. Price	692,709	Feb. 4	872	199	98	977
Wrench	P. W. Walsh	692,742	Feb. 4	921	210	98	987
Wrench	J. M. Clark and J. C. Crume	692,828	Feb. 11	1087	244	98	1046
Wrench	J. H. Hobson	693,861	Feb. 25	3126	692	98	1506
Wrench	F. Mossberg	695,072	Mar. 11	1416	310	98	2029
Wrench	R. A. Braus	696,805	Apr. 1	23	6	99	7
Wrench	G. B. Howard and J. Langhart, Jr	696,679	Apr. 1	534	123	99	116
Wrench	F. V. Eurich	697,241	Apr. 8	1598	359	99	358
Wrench	V. C. Brown	697,321	Apr. 8	1743	389	99	391
Wrench	J. H. Paullin	697,877	Apr. 15	2777	615	99	623
Wrench	S. A. Haines	697,940	Apr. 15	2890	637	99	614
Wrench	S. W. Wardwell and H. H. Ricker	698,086	Apr. 22	3158	694	99	719
Wrench	L. W. Johnson	698,288	Apr. 22	3565	789	99	865
Wrench	H. Decker	698,377	Apr. 22	3511	820	99	835
Wrench	H. D. Hilliard	698,498	Apr. 29	3929	868	99	895
Wrench	E. Huntley	698,706	Apr. 29	4397	970	99	966
Wrench	W. Rundquist	699,017	Apr. 29	4982	1102	99	1123
Wrench	W. J. Quinn	699,234	May 6	185	43	99	1212
Wrench	A. Bond	699,443	May 6	602	137	99	1290
Wrench	A. F. Gwits	699,675	May 13	1054	246	99	1405
Wrench	C. C. Longard	699,692	May 13	1092	256	99	1412
Wrench	J. D. McFarland, Jr	700,350	May 20	2443	557	99	1710
Wrench	H. Kintz and M. J. Lennard	700,429	May 20	2581	591	99	1737
Wrench	W. M. Treglowen, Sr	701,108	May 27	3877	891	99	2026
Wrench	C. F. Bettmann and S. Talkington	701,462	June 3	324	71	99	2176
Wrench	D. B. Lee	701,584	June 3	551	120	99	2204
Wrench	F. C. Peachbody	701,671	June 10	511	204	99	2362
Wrench	W. Shirk	701,951	June 10	1194	272	99	2374
Wrench	G. H. Boyd	703,230	June 24	3609	829	99	2902
Wrench	A. Bivins	703,377	July 1	25	6	100	8
Wrench	G. W. Boozer	703,636	July 1	469	107	100	52
Wrench	J. C. Davison	703,898	July 1	971	212	100	194
Wrench	E. L. Utley	704,405	July 8	1939	420	100	408
Wrench	G. Schaib	704,582	July 15	2381	493	100	492
Wrench	W. Neilson	704,550	July 15	2405	520	100	519
Wrench	J. O'Brien	705,860	July 29	4899	1065	100	1052
Wrench	C. C. Fields	706,042	Aug. 5	70	17	100	1133
Wrench	P. Taroli	706,127	Aug. 5	231	48	100	1164
Wrench	A. L. Slater	706,208	Aug. 5	396	85	100	1197
Wrench	R. J. Gosseboom	707,391	Aug. 19	2659	599	100	1695
Wrench	C. J. Barnes	707,895	Aug. 26	3501	831	100	1925
Wrench	M. Walsh and J. N. Angers	708,183	Sept. 2	345	83	100	2052
Wrench	A. Dahl	708,210	Sept. 2	400	92	100	2063
Wrench	R. Johns	709,711	Sept. 23	3299	741	100	2706
Wrench	C. Busby	709,742	Sept. 23	3371	756	100	2719
Wrench	T. H. Cahill	710,040	Sept. 30	3962	893	100	2856
Wrench	M. M. Murray	710,164	Sept. 30	4229	951	100	2910
Wrench	J. J. Burr	710,179	Sept. 30	4245	957	100	2916
Wrench	M. Scott	711,233	Oct. 14	1619	347	101	351
Wrench	C. E. Greenlief	711,422	Oct. 14	1958	426	101	422
Wrench	A. E. Chevreux	712,043	Oct. 23	3187	697	101	711
Wrench	J. F. Barrett	712,239	Oct. 28	3551	777	101	782
Wrench	C. M. Lambert	712,552	Nov. 4	1-5	44	101	936
Wrench	L. A. McLaurin	712,574	Nov. 4	321	54	101	943
Wrench	S. J. Petty	712,586	Nov. 4	240	59	101	945
Wrench	C. J. Coulter and N. F. Adamson	712,635	Nov. 4	363	84	101	953
Wrench	I. De Ford	713,407	Nov. 11	1827	412	101	1289
Wrench	J. Pack	713,489	Nov. 11	1965	414	101	1317
Wrench	J. J. Quinlan	714,741	Dec. 2	171	34	101	1871
Wrench	J. L. Young	714,768	Dec. 2	239	46	101	1884
Wrench	G. D. Cleveland	715,025	Dec. 2	735	156	101	1985
Wrench	E. Daurer	715,980	Dec. 16	2568	598	101	2044
Wrench	O. Case and T. Y. Vincent	716,197	Dec. 16	3019	659	101	2500
Wrench	I. De Ford	716,202	Dec. 16	3027	661	101	2501
Wrench	W. S. Bonner	716,515	Dec. 23	3642	795	101	2641
Wrench	C. C. Longard	716,564	Dec. 23	3756	817	101	2667
Wrench	M. Mahlen	716,914	Dec. 30	4515	979	101	2852
Wrench	F. Deforge	717,083	Dec. 30	4842	1049	101	2922
Wrench	D. C. Hindman	717,400	Dec. 30	5443	1181	101	3050
Wrench	H. A. Westmoreland	717,479	Dec. 30	5471	1211	101	3073
Wrench	J. Cooper	713,403	Nov. 11	1823	411	101	1288
Wrench and can-opener. Combined	M. Whiteside	704,725	July 15	2522	545	100	543
Wrench and tire-setter. Combined	F. L. Coes	691,046	Jan. 14	1290	292	98	284
Wrench-handle	F. L. Coes	691,243	Jan. 14	1624	371	98	354
Wrench-handle	E. H. Sears	705,451	July 22	4083	888	100	876
Wrench-handles. Construction of	F. L. Coes	693,108	Feb. 11	1656	361	98	1165
Wrenches. Construction of	E. Searle	693,719	May 13	1134	265	99	1421
Wrenches. Construction of	H. Searle	705,874	July 29	4924	1071	100	1956
Wrenches. Construction of	H. Searle	705,875	July 29	4925	1071	100	1957
Wrest-plank	L. Gassard	711,564	Oct. 21	2249	488	101	498
Wringer:							
See Clothes-wringer. Mop-wringer.							
Wringer	J. M. Cook	693,113	Feb. 11	1673	364	98	1169
Wringer attachment	J. Reid and L. M. Hooper	692,546	Feb. 4	598	137	98	917
Wringer-bench and ironing-board. Combined	G. W. Underwood	715,637	Dec. 9	1845	410	101	2330
Wringer-clamp	T. H. Bell	695,435	Mar. 18	2053	462	98	2179
Wrinkle-removing device	J. E. Kendall	692,303	Feb. 4	148	35	98	829
Writing attachment	J. C. Fink	701,867	June 10	1040	233	99	2341
Writing-machine	E. B. Hess and J. M. Stoughton	691,626	Jan. 21	2378	535	98	528
Writing-machine	E. B. Hess	694,015	Feb. 25	3444	769	98	1569

## Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr.	Vol.	Page.
Writing-machine.....	E. B. Hess.....	697,250	Apr. 8	1611	863	99	361
Writing-machine.....	E. B. Hess.....	700,687	May 20	3045	864	99	1886
Writing-machine carriage.....	J. T. Schaaff.....	702,379	June 10	1967	866	99	2529
Writing or copying pad.....	F. G. J. Post.....	707,942	Aug. 26	3784	849	100	1942
Wurtzite product.....	R. M. Thompson.....	716,781	Dec. 23	4156	850	101	2732
X-ray machine. Coin-controlled.....	J. M. Hunter.....	695,154	Mar. 11	1574	849	98	2062
X-rays. Means for preventing injury in using.....	L. T. Lowder.....	710,201	Sept. 30	4287	850	100	2926
Xylophone-player.....	F. R. Goolman.....	700,035	May 13	1758	405	99	1549
					406		
					749		
Yarn-drying apparatus.....	G. Stone.....	705,158	July 22	3448	750	100	747
					751		
Yarn for dyeing. Cop or package of.....	S. W. Wardwell.....	712,986	Nov. 4	977	229	101	1097
Yarn. Glossing.....	J. H. Ashwell.....	713,936	Nov. 18	2857	101	1519	
Yarn, &c. Machine for oxidizing.....	J. W. Fries.....	696,082	Mar. 25	3170	715	98	2422
Yarns, &c. Apparatus for drying and conditioning.....	J. Keith and W. W. Wardle.....	710,467	Oct. 7	123	28, 29	101	27
Yarns. Machine for the manufacture of lustrous.....	J. Stoerk, G. Dubois, and A. D. J. Asson.....	713,360	Nov. 11	1747	839	101	1272
Yeast. Preparation of.....	E. De Meulemeester.....	717,519	Dec. 30	5649	101	3092	
Yohimbine. Salts of.....	L. Spiegel.....	716,776	Dec. 23	4187	101	2748	
Yoke attachment. Neck.....	D. N. Luse.....	703,938	July 1	1036	225	100	206
Yoke. Breachy-cattle.....	J. E. Horn.....	713,438	Nov. 11	1876	425	101	1299
Yoke-center guard. Neck.....	J. F. Vuagniaux.....	698,598	Apr. 29	4141	910	99	938
Yoke center. Neck.....	E. C. Summers.....	701,415	June 3	285	53	99	2155
Yoke fastener. Neck.....	C. M. Schanz.....	694,302	Feb. 25	3792	838	98	1639
Yoke. Neck.....	J. J. M. Burnette.....	696,311	Mar. 25	3746	837	98	2541
					838		
Yoke. Neck.....	J. H. Storch.....	698,075	Apr. 22	3140	691	99	716
Yoke. Neck.....	E. D. Jury.....	705,411	July 22	4008	888	100	861
Yoke. Neck.....	F. A. Nason and B. Smith.....	705,428	July 22	4036	875	100	867
Yoke. Neck.....	A. Burk.....	708,019	Sept. 2	31	7	100	1987
Yoke. Neck.....	S. J. McDonald.....	714,013	Nov. 18	2998	667	101	1549
Zein. Extracting.....	T. B. Osborne and R. W. Cornelison.....	691,966	Jan. 28	3028	98	681	
Zinc and lead from sulfid ores. Extraction of.....	G. C. Stone.....	717,299	Dec. 30	5260	1142	101	3013
Zinc-bearing ores. Purifying.....	C. R. P. Steinau.....	697,898	Apr. 15	2808	99	629	
Zinc by electrolysis. Apparatus for obtaining.....	L. Mond.....	701,216	May 27	4067	935	99	2066
Zinc by electrolysis. Obtaining.....	L. Mond.....	701,215	May 27	4065	934	99	2066
					935		
Zinc-dust. Production of.....	G. G. Convers and A. B. de Saulles.....	695,376	Mar. 11	1962	438	98	2141
					439		
Zinc. Extracting.....	J. L. Babé and A. Tricart.....	702,764	June 17	2711	99	2704	
Zinc from sulfid ores. Recovering.....	H. F. Kirkpatrick-Picard.....	692,148	Jan. 28	3355	98	746	
Zinc from zinc-skimmings. Extracting.....	H. C. Meister.....	714,502	Nov. 25	3952	101	1760	
Zinc from zinc-skimmings. Extracting.....	H. C. Meister.....	714,503	Nov. 25	3953	101	1760	
Zinc-furnace.....	G. G. Convers and A. B. de Saulles.....	694,137	Feb. 25	3656	808	98	1613
Zinc-furnace.....	W. C. Wetherill.....	708,423	Sept. 2	782	177	100	2139
					178		
Zinc gelatose compound.....	A. Eichengrün and R. Berendes.....	698,694	Apr. 29	4361	99	988	
Zinc. Obtaining.....	E. H. Hopkins.....	708,044	Sept. 2	92	21	100	2000
Zinc or electrotype plates. Frame or base for.....	S. Waterman.....	702,606	June 17	2420	552	99	2643
Zinc or other metals from their ores. Extracting.....	C. Hoepfner.....	704,641	July 15	2376	100	512	
Zinc or other volatile metals from ores or mattes. Apparatus for obtaining.....	J. Armstrong.....	701,457	June 3	315	69	99	2174
Zinc or other volatile metals from ores or mattes. Obtaining.....	J. Armstrong.....	701,458	June 3	315	69	99	2174
Zinc ores and especially blende. Electrometallurgical treatment of.....	C. J. Tossizza.....	703,857	July 1	889	100	178	
Zinc ores. Treatment of.....	F. Ellershausen and R. W. Western.....	715,771	Dec. 16	2134	101	2311	
Zinc sulfid ores. Treating.....	J. C. Clancy and L. W. Marsland.....	715,023	Dec. 2	732	101	1384	
Zither.....	C. E. Fiedler.....	692,773	Feb. 4	980	222	98	997
Zither.....	E. Christian.....	694,529	Mar. 4	382	64	98	1794
Zither support and sounding device.....	J. A. Duerst.....	694,094	Feb. 25	3589	794	98	1598





# ALPHABETICAL LIST OF DESIGNS.

Design.	Name.	No.	Date.	Official Gazette.	
				Volume.	Page.
Advertising-card or similar article	W. A. Schiffer	35,677	Feb. 4	98	1018
Advertising puzzle-sheet	C. E. Jaques	35,568	Jan. 7	98	218
Album stand. Photograph-	R. Aizenman	36,028	Aug. 26	100	1966
Alphabet	M. T. Goldsmith	35,642	Jan. 28	98	782
Alphabet	M. T. Goldsmith	35,643	Jan. 28	98	783
Alphabet	M. T. Goldsmith	35,644	Jan. 28	98	783
Andiron	T. M. Dudgeon	36,046	Sept. 9	100	2371
Andiron	T. M. Dudgeon	36,047	Sept. 9	100	2371
Andiron	T. M. Dudgeon	36,048	Sept. 9	100	2372
Andiron	T. M. Dudgeon	36,049	Sept. 9	100	2372
Andiron	C. D. Shepard	36,149	Dec. 2	101	2066
Autocarette-body	W. E. Schneider	35,984	July 29	100	1103
Automobile-body	C. M. Taylor	36,008	Aug. 12	100	1555
Automobile-body	J. C. Reuter	36,036	Sept. 2	100	2170
Automobile-frame	G. L. Turner	35,713	Feb. 11	98	1271
Axle-center and fifth-wheel plate	H. F. Weeks	35,580	Jan. 14	98	410
Badge	R. S. Stockton	35,689	Feb. 4	98	1020
Badge	O. Cohen	35,825	Mar. 25	98	2579
Badge	J. O'Callahan	35,927	May 27	99	2091
Badge	J. B. Nolin	35,936	June 10	99	2336
Badge	A. E. Lyon	35,973	July 8	100	1320
Badge	M. J. Kane	35,986	Aug. 5	100	1320
Badge	J. T. Bailey	36,042	Sept. 9	100	2371
Badge. Metal	E. R. Sargent	35,980	July 22	100	925
Badge or similar article	J. L. Ewin	35,979	July 22	100	925
Bag-frame	S. A. Keller	36,038	Sept. 2	100	2170
Bandage	M. Wensch	35,708	Feb. 11	98	1270
Basin. Wash-	P. J. Madden	36,127	Oct. 28	101	877
Bed case. Folding-	C. L. Garner	36,019	Aug. 19	100	1754
Bed-end frame	E. J. Barcalo	35,727	Feb. 11	98	1273
Bedstead	M. V. Hammack	35,933	June 8	99	2311
Bedstead connecting-piece	J. H. Dyett	35,869	Apr. 15	99	653
Bedstead-end frame	H. Raubitschek	35,881	Apr. 22	99	854
Beehive-protector	J. G. Smithers	35,700	Feb. 4	98	1022
Belt	L. Sanders	35,570	Jan. 7	98	219
Belt	B. Wilenshik	35,571	Jan. 7	98	219
Belt	I. Lewenthal	35,765	Feb. 18	98	1475
Belt	H. C. Krause	35,767	Feb. 18	98	1476
Belt	L. A. Myers, Jr.	35,842	Apr. 1	99	217
Belt	M. H. Eiseman	36,163	Dec. 9	101	2276
Belt	M. H. Eiseman	36,164	Dec. 9	101	2276
Belt. Apparel-	F. A. Leuch	35,706	Feb. 11	98	1270
Belt. Apparel-	O. A. Lehman	35,792	Mar. 4	98	1958
Belt. Apparel-	O. A. Lehman	35,793	Mar. 4	98	1959
Belt. Apparel-	O. A. Lehman	35,794	Mar. 4	98	1959
Belt. Apparel-	O. A. Lehman	35,823	Mar. 18	98	2355
Belt. Apparel-	O. A. Lehman	35,824	Mar. 18	98	2355
Belt. Apparel-	O. A. Lehman	35,840	Apr. 1	99	217
Belt. Apparel-	O. A. Lehman	35,841	Apr. 1	99	217
Belt-body or similar article.	I. Lewenthal	35,766	Feb. 18	98	1476
Belt-holder	T. Campbell	35,751	Feb. 18	98	1473
Belt. Waist-	H. J. Gaisman	35,707	Feb. 11	98	1270
Bicycle-rack	M. G. Merritt	36,091	Sept. 30	100	3003
Bidet	F. A. Wells	35,853	Apr. 8	99	436
Bidet	F. A. Wells	35,854	Apr. 8	99	436
Blotting-pads, &c. Corner for	S. A. Keller	36,062	Aug. 26	100	1966
Blower and gear casing	A. E. Canedy	35,671	Feb. 4	98	1017
Bottle	K. Kiefer	35,558	Jan. 7	98	217
Bottle	K. Kiefer	35,667	Feb. 4	98	1016
Bottle	R. J. Taussig	35,668	Feb. 4	98	1016
Bottle	R. Hudnut	35,894	May 6	99	1376
Bottle	W. M. McCormick	35,976	July 8	100	1443
Bottle	F. Schilling	36,062	Aug. 26	100	1966
Bottle	C. C. Bonnett	36,144	Nov. 18	101	1597
Bottle. Prescription-	H. Forest	36,001	Aug. 12	100	1554
Bottle-stopper	R. Hudnut	36,186	Dec. 30	101	3004
Box blank. Paper-	F. A. Stecher	35,615	Jan. 28	98	778
Box. Cigarette-	G. P. Butler	35,865	Apr. 15	99	652
Box-opener	W. Hathaway	35,561	Jan. 7	98	217
Box or carton	F. Goetz	36,016	Aug. 19	100	1753
Box. Paper	R. L. Myers	35,944	June 10	99	2538
Box. Paper	P. E. Myers	35,977	July 8	100	443
Bracket. Wall-	F. C. Potter	36,117	Oct. 21	101	651
Braid	M. Mittendorf	36,079	Sept. 16	100	2597
Braid	V. Schuck	36,118	Oct. 21	101	651
Brake-rod end	J. H. Baker	35,622	Jan. 28	98	719
Brooch or similar article	C. H. Such	36,016	Oct. 7	101	206
Brooch or similar article	W. C. Bowen	36,182	Dec. 9	101	2273
Brooches, scarf-pins, or similar articles. Ornamental head for	L. D. Frenot	35,922	May 27	99	2090
Brush back and handle	H. J. Herbert	35,576	Jan. 14	98	408
Brush or mirror back	W. W. Bromham	35,608	Jan. 28	98	777



*Alphabetical list of designs—Continued.*

Design.	Name.	No.	Date.	Vol.	Page.	Official Gazette.
Brushes, &c. Back for.	L. B. Prahar	35,600	Jan. 28	98	777	
Brushes, &c. Back for.	S. A. Keller	36,023	Aug. 26	100	1865	
Brushes, &c. Back for.	S. A. Keller	36,026	Aug. 26	100	1866	
Brushes, &c. Back for.	H. A. Weihman	36,107	Oct. 14	101	439	
Brushes, &c. Back for.	W. F. Marshall	36,137	Nov. 11	101	1360	
Brushes, mirrors, &c. Back for.	A. Geiges	35,770	Feb. 25	98	1697	
Brushes, mirrors, or similar articles. Back for.	S. A. Keller	35,891	May 6	99	1376	
Buckle. Belt.	L. B. Prahar	35,957	June 17	99	2760	
Buckle member. Belt.	A. J. Houle	36,105	Dec. 9	101	2276	
Bunseu-burner mixing-tube	T. S. Sites	35,754	Feb. 18	98	1473	
Bureau or similar article	M. V. Hammack	35,948	June 10	99	2539	
Bureau or similar article of furniture	M. V. Hammack	35,947	June 10	99	2539	
Burial-caskets. Metallic rim for face-glasses of.	M. J. McComas	36,146	Nov. 18	101	1597	
Burners. Bowl for hydrocarbon-	W. R. Jeavons.	35,563	Jan. 7	98	217	
Bust-pad	L. R. Waile	35,666	Feb. 4	98	1015	
Butcher's tool	W. H. Moffitt	35,758	Feb. 18	98	1474	
Button	E. T. Harkrader.	35,800	May 6	99	1375	
Button-hooks, &c. Handle for.	F. Thielke	35,574	Jan. 14	98	407	
Button-hooks, &c. Handle for.	S. A. Keller	36,024	Aug. 26	100	1966	
Button-hooks, &c. Handle for.	S. A. Keller	36,043	Sept. 9	100	2371	
Button-hooks, paper-cutters, or similar articles. Handle for.	T. W. Foster	36,010	Aug. 19	100	1752	
Button-handle	M. A. Hill	36,074	Sept. 16	100	2597	
Cabinet. Barber's.	J. D. Warren	35,701	Feb. 4	98	1022	
Cabinet. Dressing.	G. M. Moore	35,814	Nov. 18	101	1598	
Cabinet for holding coats, umbrellas, &c.	J. C. Taylor	35,956	June 17	99	2760	
Cabinet. Kitchen.	A. A. Holmes	35,920	May 20	99	1858	
Cabinet. Wall.	J. A. Reid	35,584	Jan. 14	98	409	
Calendar	C. E. Larrabee	35,837	Apr. 1	99	216	
Can. Garbage.	H. Doyle	35,943	June 10	99	2538	
Candlestick	E. A. Burch and L. E. Lee	35,729	Feb. 11	98	1273	
Candlestick	J. C. Hiller	36,085	Sept. 2	100	2169	
Candlestick	L. C. Hiller	36,086	Sept. 2	100	2170	
Candlestick	L. C. Hiller	36,087	Sept. 2	100	2170	
Card box. Playing.	H. J. Altman	35,750	Feb. 18	98	1473	
Card plate or holder	C. S. Brewer	35,917	May 20	99	1857	
Carpet	J. S. Vredenburgh	35,635	Jan. 28	98	781	
Carpet	A. Mason	35,815	Mar. 11	98	2168	
Carpet	A. Mason	35,816	Mar. 11	98	2169	
Carpet	L. H. Brown	36,128	Oct. 28	101	877	
Carpet	F. A. Haas	36,129	Oct. 28	101	878	
Carpet	W. A. Perry	36,130	Oct. 28	101	878	
Carpet	L. H. Brown	36,179	Dec. 23	101	2842	
Carriage-running-gear brace	R. D. Woodford	35,762	Feb. 18	98	1475	
Card-body	J. C. Henderson	35,868	Apr. 15	99	653	
Casket-body	J. Maxwell	35,903	May 6	99	1378	
Casket-trimming	W. E. Stevens	35,876	Apr. 15	99	655	
Casket-trimming	E. R. Sargent	35,959	June 17	99	2760	
Chair	C. W. Clark	35,779	Feb. 25	98	1698	
Chair-back	A. Wanner, Jr.	35,901	May 6	99	1378	
Chair. Metal-framed rocking.	A. Wanner, Jr.	35,902	May 6	99	1378	
Chat-laine-bag side frame	G. Schumacher	35,081	Feb. 4	98	1018	
Chisel, nail-puller, and hammer	L. Wolf	36,075	Sept. 16	100	2597	
Cloak	M. Z. H. and P. David.	35,652	Feb. 4	98	1013	
Clock-case	H. Mayer	35,849	Apr. 1	99	218	
Clock-case	L. V. Aronson	35,796	Mar. 11	98	2160	
Clock-case	L. V. Aronson	35,797	Mar. 11	98	2160	
Clock-case	L. V. Aronson	35,798	Mar. 11	98	2160	
Clock-case	L. V. Aronson	35,81	Mar. 18	98	2354	
Clock-case	J. Jacoby	35,832	Apr. 1	99	215	
Clock-case	P. Tietgens	35,940	June 10	99	2537	
Clock-case	L. V. Aronson	36,084	Sept. 30	100	3002	
Clock-case	L. Hornberger.	36,181	Dec. 30	101	3062	
Coffee or tea pot	H. Nutrizio	36,014	Aug. 19	100	1753	
Coffee-pot, &c.	S. H. Leavenworth	35,800	Mar. 11	98	2161	
Coffee-pot or similar article	A. F. Jackson	36,155	Dec. 9	100	2271	
Coin-controlled mechanism. Case for.	M. Benoit	36,088	Sept. 30	100	3002	
Comb	J. Koenig	36,175	Dec. 23	101	2842	
Condiment-cup	E. A. Russell	35,822	Mar. 18	98	2355	
Corn-holder	L. F. Trinchard	35,690	Feb. 4	98	1022	
Corset	J. M. Van Orden	35,572	Jan. 7	98	219	
Cotton openers and lappers. Grid-bar for	A. T. Altherton	35,719	Feb. 11	98	1272	
Couch-leg	A. E. Olsson	35,726	Feb. 11	98	1273	
Cup	C. Graft	35,785	Mar. 4	98	1957	
Cup	S. Linz	35,942	June 10	99	2538	
Curb. Metallic	J. N. Harrison	35,760	Feb. 18	98	1474	
Curtain. Lace.	A. Burgess	35,921	May 20	99	1858	
Curtain. Lace.	A. Burgess	36,020	Aug. 19	100	1754	
Curtain. Lace	A. Burgess	36,021	Aug. 19	100	1754	
Cushion	C. W. Meinecke	35,654	Feb. 4	98	1014	
Cushion-cover. Portrait.	E. Solomon	35,938	June 17	99	2760	
Decanter	A. Pick	35,878	Apr. 22	99	854	
Dental-instrument cabinet	F. E. Case	35,776	Feb. 25	98	1698	
Dental-instrument holder	J. B. Vernon	35,610	Jan. 28	98	777	
Desk casting. School.	M. A. Donohue, Jr.	36,005	Aug. 12	100	1555	
Die or similar article	A. Friedman	35,641	Jan. 28	98	782	
Dish	H. D. Call	35,902	June 17	99	2760	
Dish. Cover.	P. J. Gordon	35,879	Apr. 22	99	854	
Dish, &c. Covered.	R. L. Johnson	36,114	Oct. 21	01	950	
Dish-drainer	C. E. Haviland	35,783	Mar. 4	98	1956	
Dish. Ornamental	J. P. Eustis	35,670	Feb. 4	98	1016	
Dish. Vegetable.	W. E. Carlson	35,771	Feb. 25	98	1697	
Display stand. Jewelry.	R. L. Johnson	35,863	Apr. 15	99	652	
Drawer. Cabinet.	W. J. Drain, Jr.	35,748	Feb. 18	98	1472	
Drawer. Cabinet.	T. Kundtz	35,624	Jan. 28	98	779	
Drawer. Cabinet.	T. Kundtz	35,731	Feb. 11	98	1274	

*Alphabetical list of designs—Continued.*

Design.	Name.	No.	Date.	Vol.	Page.	Official Gazette.
Dresser.	C. M. Kessler	35,912	May 13	99	1608	
Dresser.	C. J. Clarke	35,978	July 15	100	673	
Dressing-case	L. O. Church	35,074	Feb. 4	98	1017	
Drinking vessel	G. Forbach	35,557	Jan. 2	98	216	
Drinking vessel	L. Bessière	36,123	Oct. 28	101	876	
Drinking vessel	L. Bessière	36,124	Oct. 28	101	877	
Egg-case filler	L. D. Weeks	35,672	Feb. 4	98	1017	
Electric-machine casing. Dynamo	V. G. Apple.	35,619	Jan. 28	98	778	
Engine frame or casing.	R. E. Hardy	35,023	Jan. 28	98	789	
Eye for garment-fasteners	T. D. Richardson	35,638	Jan. 28	98	782	
Eye for garment-fasteners	G. H. Chff	35,639	Jan. 28	98	782	
Eye for garment-fasteners	F. E. De Long	35,640	Jan. 28	98	782	
Eye. Garment.	C. Leib	35,658	Feb. 4	98	1014	
Eyeglass or pince-nez spring	H. E. Kirstein	35,653	Feb. 4	98	1013	
Fabric	W. F. Seftl	36,041	Sept. 2	100	2170	
Fabric	A. Wædler.	36,080	Sept. 16	100	2597	
Fabric	C. E. Hunt	36,141	Nov. 11	101	1361	
Fabric. Woven	J. W. Landenberger	35,960	June 17	99	2760	
Fabric. Woven	J. W. Landenberger	35,961	June 17	99	2760	
Fan-casing	A. L. Streeter	35,563	Jan. 7	98	217	
Fan-casing	A. L. Streeter	35,564	Jan. 7	98	217	
Fence. Wire	J. F. Shelton	35,919	May 20	99	1533	
Ferrule	F. Smith	35,663	Feb. 4	98	1015	
Ferrule	R. A. Kohlhepp	35,818	Mar. 18	98	2354	
Ferrule	R. A. Kohlhepp	35,819	Mar. 18	98	2354	
Ferrule	R. A. Kohlhepp	35,820	Mar. 18	98	2354	
Filter-frame. Interior	H. L. Ebsen	35,722	Feb. 11	98	1272	
Finger-ring	M. L. Powers	36,083	Sept. 30	100	3022	
Firearm cylinder-cover	L. Johnson	35,646	Sept. 9	100	2373	
Fireplace-front	T. M. Dudgeon	36,058	Sept. 9	100	2373	
Fireplace-front	T. M. Dudgeon	36,059	Sept. 9	100	2373	
Fireplace-front	T. M. Dudgeon	36,060	Sept. 9	100	2374	
Fireplace-front	T. M. Dudgeon	36,061	Sept. 9	100	2374	
Fireplace-front	T. M. Dudgeon	36,062	Sept. 9	100	2374	
Fireplace-front	T. M. Dudgeon	36,063	Sept. 9	100	2374	
Fireplace-front	T. M. Dudgeon	36,064	Sept. 9	100	2374	
Fireplace-front	T. M. Dudgeon	36,065	Sept. 9	100	2374	
Fireplace-front	T. M. Dudgeon	36,066	Sept. 9	100	2375	
Fireplace-front	T. M. Dudgeon	36,067	Sept. 9	100	2375	
Fireplace-front	T. M. Dudgeon	36,068	Sept. 9	100	2375	
Fireplace-front	T. M. Dudgeon	36,069	Sept. 9	100	2375	
Fireplace-front	T. M. Dudgeon	36,070	Sept. 9	100	2375	
Fireplace-front	T. M. Dudgeon	36,071	Sept. 9	100	2375	
Fireplace-front	T. M. Dudgeon	36,072	Sept. 9	100	2376	
Fireplace-front	T. M. Dudgeon	36,073	Sept. 9	100	2376	
Fireplace-front	T. M. Dudgeon	36,074	Sept. 9	100	2376	
Fireplace-front	T. M. Dudgeon	36,075	Sept. 9	100	2376	
Fireplace-front	T. M. Dudgeon	36,076	Sept. 9	100	2376	
Fireplace-front	T. M. Dudgeon	36,077	Sept. 9	100	2376	
Fireplace-front	T. M. Dudgeon	36,078	Sept. 9	100	2376	
Fireplace-front	T. M. Dudgeon	36,079	Sept. 9	100	2376	
Fireplace-front	T. M. Dudgeon	36,080	Sept. 9	100	2376	
Fireplace-front	T. M. Dudgeon	36,081	Sept. 9	100	2376	
Fireplace-front	T. M. Dudgeon	36,082	Sept. 9	100	2376	
Fireplace-front	T. M. Dudgeon	36,083	Sept. 9	100	2376	
Fireplace-front	T. M. Dudgeon	36,084	Sept. 9	100	2376	
Fireplace-front	T. M. Dudgeon	36,085	Sept. 9	100	2376	
Fireplace-front	T. M. Dudgeon	36,086	Sept. 9	100	2376	
Fireplace-front	T. M. Dudgeon	36,087	Sept. 9	100	2376	
Fireplace-front	T. M. Dudgeon	36,088	Sept. 9	100	2376	
Fireplace-front	T. M. Dudgeon	36,089	Sept. 9	100	2376	
Fireplace-front	T. M. Dudgeon	36,090	Sept. 9	100	2376	



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Design.	Name.	No.	Date.	Official Gazette.	
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Hook, Garment.....	C. Leib.....	35,611	Jan. 28	98	777
Hook, Garment.....	C. Leib.....	35,657	Feb. 4	98	1014
Hook-keeper.....	J. Grigg.....	35,656	Feb. 4	98	1014
Horseshoe-pail.....	J. A. Buck and G. Hassler.....	35,631	Jan. 28	98	779
Hose-supporter.....	A. Hunter.....	35,549	Jan. 7	98	215
Hose-supporter.....	F. A. Freeman.....	35,752	Feb. 18	98	1473
Hot-water bag, &c.....	V. C. Van't Woud.....	36,172	Dec. 16	101	2539
Hot-water-bag closure.....	C. W. Menecke.....	35,580	Jan. 14	98	408
Hydrocarbon-burner bowl-support.....	W. R. Jeavons.....	35,692	Feb. 4	98	1021
Ice-cutters and ice-cream freezers. Supporting-frame for.....	C. A. and M. Calleson.....	35,645	Jan. 28	98	783
Jar clamp, Fruit.....	L. A. Climer.....	35,614	Jan. 28	98	777
Jar, Paste.....	A. N. Ritz.....	35,669	Feb. 4	98	1016
Jardinière-stand.....	F. W. Olsen.....	36,086	Sept. 30	100	3002
Jug or similar article.....	C. J. Noke.....	36,171	Dec. 16	101	2573
Kindling-block.....	C. Pollard.....	35,683	Feb. 24	98	1019
Kindling-block.....	C. Pollard.....	35,686	Feb. 4	98	1020
Knife, Butter.....	W. Hathaway.....	35,554	Jan. 7	98	216
Knife-handle.....	C. F. Smith.....	35,826	Mar. 25	98	2570
Knife-handle.....	C. F. Smith.....	35,827	Mar. 25	98	2580
Knife, Melon and pie.....	C. H. Hahn.....	35,636	Jan. 28	98	782
Lace-fastener.....	J. L. Poalk.....	35,690	Feb. 4	98	1020
Lacing, Shoe.....	E. Freunler.....	35,875	Apr. 15	99	655
Lamp.....	P. Pause.....	35,857	Apr. 8	99	437
Lamp-body.....	C. A. Haas.....	36,029	Aug. 26	100	1966
Lamp-body.....	A. L. Baron.....	36,085	Sept. 30	100	3002
Lamp-body.....	A. L. Baron.....	36,109	Oct. 14	101	440
Lamp-body.....	A. L. Baron.....	36,110	Oct. 14	101	440
Lamp-body.....	W. Gray.....	36,116	Oct. 21	101	651
Lamp-body.....	A. L. Baron.....	36,121	Oct. 28	101	877
Lamp body, Gas.....	C. Herzl.....	36,111	Oct. 14	101	440
Lamp bracket or standard.....	P. J. Handel.....	36,133	Nov. 4	101	1119
Lamp bracket or standard.....	G. Lockrow.....	36,134	Nov. 4	101	1119
Lamp-chimney.....	R. D. Jamison.....	35,723	Feb. 11	98	1272
Lamp-chimney.....	G. W. Blair.....	35,895	May 6	99	1377
Lamp-chimney canopy.....	A. P. Storrs.....	36,076	Sept. 16	100	2597
Lamp-fixture.....	W. Hawks.....	35,581	Jan. 14	98	408
Lamp-fixture.....	T. M. Jamison.....	35,834	Apr. 1	99	215
Lamp-fixture.....	T. M. Jamison.....	35,906	May 13	99	1608
Lamp, Gas.....	R. L. Doran.....	35,787	Mar. 4	98	1957
Lamp, Gas.....	R. L. Doran.....	35,788	Mar. 4	98	1958
Lamp or candle shade.....	B. Strasburger.....	36,002	Aug. 12	100	1554
Lamp-shade.....	R. D. Chandler.....	36,185	Dec. 30	101	3094
Lavatory.....	F. J. Torrance.....	35,730	Feb. 11	98	1274
Lens, Cylinder.....	G. W. Wells.....	35,750	Feb. 25	98	1097
Lid for puff-boxes, &c.....	S. A. Keller.....	36,025	Aug. 26	100	1966
Life-preserver body.....	H. A. Ayvad.....	35,550	Jan. 7	98	215
Limb-cutter or branch-trimmer and hatchet.....	M. Z., H., and P. David.....	35,720	Feb. 11	98	1272
Locomotive-body.....	J. B. Stetson and W. J. Thomas.....	35,806	Mar. 11	98	2162
Loom-fork.....	A. Dube.....	35,651	Feb. 4	98	1013
Manicure-blade.....	A. N. Clark.....	35,746	Feb. 18	98	1013
Mantel.....	W. H. and J. F. Walker.....	35,983	July 27	100	1103
Massage-roller.....	C. J. Bailey.....	35,655	Feb. 4	98	1014
Medal.....	M. C. Wilburn.....	35,703	Feb. 11	98	1269
Medallion.....	C. W. Park.....	35,883	Apr. 29	99	1161
Mirror-frame.....	H. J. Herbert.....	35,575	Jan. 14	98	407
Mirrors, &c. Back for hand.....	H. A. Weihman.....	36,106	Oct. 14	101	439
Mirrors, &c. Back for hand.....	H. A. Weihman.....	36,108	Oct. 14	101	439
Mirrors, brushes, &c. Back for hand.....	H. A. Weihman.....	36,122	Oct. 28	101	876
Mirrors, brushes, or similar articles. Back for.....	W. Turton.....	35,993	Aug. 12	100	1552
Mirrors, brushes, or similar articles. Back for hand.....	L. C. Porter.....	36,012	Aug. 19	100	1752
Mixer-blade.....	C. T. Drake.....	35,664	Feb. 4	98	1015
Moistener, Stamp or envelop.....	M. A. McCray.....	35,906	May 13	99	1607
Molding, Decorative.....	J. E. Chapman.....	36,176	Dec. 23	101	2812
Monument.....	J. E. Welch.....	35,658	Feb. 4	98	1020
Monument.....	E. M. Wolf.....	35,950	June 10	99	2539
Name-plate.....	W. D. Hamilton.....	35,939	June 10	99	2537
Nebulizer-support.....	W. and J. Boekel.....	36,000	Aug. 12	100	1554
Necktie.....	A. W. Cowen.....	35,662	Feb. 4	98	1015
Needle-case.....	J. T. Rosenheimer.....	35,704	Feb. 11	98	1269
Newspaper-holder.....	G. Orenshaw.....	35,585	Jan. 14	98	409
Ornamental border.....	J. H. Gault.....	35,889	Apr. 29	99	1162
Pail-corer.....	J. S. Roblin.....	35,551	Jan. 28	98	779
Paper.....	J. W. Baskirk.....	35,928	June 3	99	2310
Paper or draping weight.....	A. Levaux.....	36,039	Sept. 2	100	2170
Paper, Wall.....	N. A. McManus.....	35,735	Feb. 11	98	1275
Paper, Wall.....	N. A. McManus.....	35,736	Feb. 11	98	1275
Paper, Wall.....	N. A. McManus.....	35,737	Feb. 11	98	1275
Paper, Wrapping.....	J. W. Cooper.....	35,073	Feb. 4	98	1017
Parser frame, Fruit.....	F. W. Belko.....	35,132	Jan. 7	98	407
Pattern, Dress-skirt.....	H. Guidez.....	35,843	Apr. 1	99	215
Pattern, Dress-skirt.....	H. Guidez.....	35,844	Apr. 1	99	217
Pattern, Dress-skirt.....	H. Guidez.....	35,845	Apr. 1	99	218
Pattern, Dress-skirt.....	H. Guidez.....	35,846	Apr. 1	99	218
Pattern, Dress-skirt.....	H. Guidez.....	35,847	Apr. 1	99	218
Pattern, Dress-skirt.....	H. Guidez.....	35,848	Apr. 1	99	218
Penholder.....	N. Jacobson.....	35,577	Jan. 14	98	408
Piano-player case.....	E. Sharps.....	35,910	Apr. 15	99	653
Picture-frame.....	E. Goette.....	35,831	Apr. 1	99	215
Picture-frame.....	D. A. Kitch.....	35,925	May 27	99	2090
Picture-frame.....	I. M. Gould.....	35,926	May 27	99	2090
Picture-frame.....	M. V. Hammack.....	35,935	June 10	99	2536
Picture-frame.....	I. M. Gould.....	35,992	Aug. 12	100	1552
Pillow-facings.....	C. E. Bentley.....	35,606	Jan. 21	98	576
Pillow or cushion top.....	C. E. Bentley.....	36,178	Dec. 23	101	2812
Pillow, Sofa.....	E. Field.....	35,972	July 1	100	223
Pillow-top.....	C. E. Bentley.....	35,593	Jan. 21	98	574

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Design.	Name.	No.	Date.	Official Gazette.	
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Pillow-top.	C. E. Bentley	35,594	Jan. 21	98	574
Pillow-top.	C. E. Bentley	35,595	Jan. 21	98	574
Pillow-top.	C. E. Bentley	35,596	Jan. 21	98	574
Pillow-top.	C. E. Bentley	35,597	Jan. 21	98	574
Pillow-top.	C. E. Bentley	35,598	Jan. 21	98	574
Pillow-top.	C. E. Bentley	35,599	Jan. 21	98	575
Pillow-top.	C. E. Bentley	35,600	Jan. 21	98	575
Pillow-top.	C. E. Bentley	35,601	Jan. 21	98	575
Pillow-top.	C. E. Bentley	35,602	Jan. 21	98	575
Pillow-top.	C. E. Bentley	35,603	Jan. 21	98	575
Pillow-top.	C. E. Bentley	35,604	Jan. 21	98	575
Pillow-top.	C. E. Bentley	35,605	Jan. 21	98	576
Pin.	E. D. Morrison	36,162	Dec. 9	101	2375
Pin blank.	M. Wickham-von Kappen	36,174	Dec. 23	101	2811
Pincushion.	H. R. Steele	35,768	Feb. 25	98	1687
Pincushion. Pedestal.	G. Brown	35,578	Jan. 14	98	408
Pin holder. Hat.	L. A. Bartholomew	35,981	July 22	100	925
Pin. Pendant.	E. Buffum	35,905	May 13	99	1607
Pin. Souvenir hat.	G. C. Van Roden	35,991	Aug. 12	100	1552
Pipe-coupling clamping-ring.	J. T. Donnell	35,661	Feb. 4	98	1015
Pipe. Tobacco.	S. R. Dresser	35,618	Jan. 28	98	778
Pitcher or similar article.	J. W. Comstock	35,681	Jan. 28	98	782
Plate, &c.	J. W. Collins	36,170	Dec. 16	101	2559
Plate, &c.	C. J. Ahrenfeldt	35,781	Mar. 4	98	1956
Plate, &c.	C. E. Haviland	35,782	Mar. 4	98	1956
Plate, &c.	C. J. Ahrenfeldt	35,799	Mar. 11	98	2160
Plate.	G. R. West	36,030	Aug. 26	100	1967
Plate. Souvenir.	L. Wohlman	36,013	Aug. 19	101	1753
Plowshare-lay.	A. F. Jackson	36,151	Dec. 9	101	2274
Pocket-piece or similar article.	W. Gibson, Jr.	35,566	Jan. 7	98	218
Poker-chip.	G. A. Kruttschnitt	35,916	May 20	99	1857
Punching-bag support.	S. A. Cohen	36,151	Dec. 9	101	2273
Purse.	G. S. Maxwell	35,678	Feb. 4	98	1018
Purse-top, &c.	E. A. Sylvester	36,180	Dec. 30	101	3092
Purse-top or similar article.	H. J. Straker	36,105	Oct. 14	101	439
Puzzle-board.	S. Keller	35,747	Feb. 18	98	1472
Radiator-top.	T. C. Washington	35,764	Feb. 18	98	1475
Range.	G. Beck	35,628	Jan. 28	98	780
Range.	R. H. Westerfield	35,987	Aug. 5	100	1321
Range.	R. H. Westerfield	35,988	Aug. 5	100	1321
Range.	R. H. Westerfield	35,989	Aug. 5	100	1321
Range.	R. H. Westerfield	35,990	Aug. 5	100	1321
Range.	R. H. Westerfield	36,006	Aug. 12	100	1555
Receptacle.	J. P. Eustis	35,676	Feb. 4	98	1018
Receptacle.	E. Goetze	35,953	June 17	99	2759
Record-sheet.	F. W. Davenport	35,717	Feb. 11	98	1271
Reflector for artificial light.	E. L. Elliott	36,126	Oct. 28	101	877
Reflector for artificial lights.	O. A. Mygatt	35,616	Jan. 28	98	778
Reflector for artificial lights.	O. A. Mygatt	35,682	Feb. 4	98	1019
Reflector for artificial lights.	O. A. Mygatt	35,683	Feb. 4	98	1019
Reflector for artificial lights.	O. A. Mygatt	35,684	Feb. 4	98	1019
Reflector for artificial lights.	O. A. Mygatt	35,755	Feb. 18	98	1473
Reflector for artificial lights.	O. A. Mygatt	35,756	Feb. 18	98	1474
Reflector for artificial lights.	O. A. Mygatt	35,757	Feb. 18	98	1474
Register-face.	C. H. Richards and J. F. Kernan	35,931	June 3	99	2311
Register. Side-wall.	G. Auer	35,783	Mar. 4	98	1018
Register. Side-wall.	G. Auer	35,790	Mar. 4	98	1018
Registers, ventilators, &c. Top plate for.	H. S. Hart	35,583	Jan. 14	98	409
Rein-support.	T. N. Mathias	35,761	Feb. 18	98	1475
Ring.	M. Schimmel	35,795	Mar. 11	98	2159
Ring.	A. Becker	36,009	Aug. 19	100	1752
Ring-tray.	J. L. Herzog	35,852	Apr. 8	99	436
Rug.	A. Petzold	35,587	Jan. 14	98	410
Rug.	A. Petzold	35,588	Jan. 14	98	410
Rug.	E. H. Bennett	35,631	Jan. 28	98	781
Rug.	E. H. Bennett	35,632	Jan. 28	98	781
Rug.	A. Petzold	35,633	Jan. 28	98	781
Rug.	A. Petzold	35,634	Jan. 28	98	781
Rug.	A. Petzold	35,778	Feb. 25	98	1698
Rug.	E. H. Bennett	35,915	May 13	99	1699
Rug.	E. H. Bennett	35,934	June 3	99	2311
Rug.	A. Petzold	36,033	Aug. 26	100	1967
Sack-support member.	P. O. De Moss	35,680	Feb. 4	98	1018
Scale-base.	O. O. Ozias	35,941	June 10	99	2538
Scale-base and supporting-column.	W. H. Sargent	35,970	July 1	100	223
Scale-beam support.	W. H. Sargent	35,969	July 1	100	223
Screw.	G. Stickley	35,710	Feb. 17	98	1270
Sewing-machine cabinet.	T. Kundtz	35,625	Jan. 28	98	780
Sewing-machine cabinet.	T. Kundtz	35,626	Jan. 28	98	781
Sewing-machine cabinet.	T. Kundtz	35,732	Feb. 11	98	1274
Sewing-machine cabinet.	W. Person	35,870	Apr. 15	99	653
Sewing-machine cabinet.	T. Kundtz	35,900	May 6	99	1377
Sewing-machine cabinet.	F. G. Hogland	36,100	Oct. 7	101	207
Sewing-machine cabinet.	F. G. Hogland	36,032	Oct. 19	101	207
Sewing-machine cabinet.	W. C. Free	36,150	Dec. 2	101	2066
Sewing-machine-cabinet drawer.	T. Kundtz	35,804	Mar. 11	98	2162
Sewing-machine-cabinet drawer.	T. Kundtz	35,805	Mar. 11	98	2162
Sewing-machine-cabinet top.	T. Kundtz	35,733	Feb. 11	98	1274
Sewing-machine table.	H. J. Abramson	36,003	Aug. 12	100	1554
Sewing-machine table.	F. G. Hogland	36,004	Aug. 12	100	1555
Sewing-machine table.	F. G. Hogland	36,032	Aug. 26	100	1967
Shade-cloth.	J. H. Wright	36,093	Sept. 30	100	3003
Shade-cloth.	J. H. Wright	36,102	Oct. 7	101	208
Shelf and sewing-cabinet. Clock.	C. Scheer	35,734	Feb. 11	98	1274
Shield.	S. A. Keller	36,044	Sept. 9	100	2371
Shield.	S. A. Keller	36,045	Sept. 9	100	2371



*Alphabetical list of designs—Continued.*

Design.	Name.	No.	Date.	Official Gazette.	
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Shield. Ornamental.	S. A. Keller.	35,884	Apr. 29	99	1161
Shield. Ornamental.	S. A. Keller.	35,885	Apr. 29	99	1161
Shingle.	G. F. Murdock.	35,592	Jan. 21	98	573
Shirt-waist-button-engaging attachment.	R. T. Clarke.	35,705	Feb. 11	98	1269
Shoe-shank.	J. S. Busky.	35,709	Feb. 11	98	1270
Shoe-sole.	J. S. Busky.	35,569	Jan. 7	98	219
Shoe-sole seat.	H. W. Proulx.	35,725	Feb. 11	98	1273
Shoe-case.	J. A. Roller.	35,675	Feb. 4	98	1017
Sideboard or similar article.	M. V. Hammack.	35,946	June 10	99	2537
Sideboard ornament.	F. M. Bomenblit and D. Pink.	35,586	Jan. 14	98	410
Silver or plated ware. Metal ornament for.	S. W. Babbitt.	35,998	Aug. 12	100	1553
Silverware border or mount.	A. F. Jackson.	36,153	Dec. 9	101	2273
Sink. Siphon-jet stop.	S. D. Baker.	35,801	Mar. 11	98	2161
Sink. Siphon-jet stop.	S. D. Baker.	35,802	Mar. 11	98	2161
Sink. Siphon-jet stop.	S. D. Baker.	35,803	Mar. 11	98	2161
Skirt-holder plate.	L. Wertheimer.	35,999	Aug. 12	100	1554
Skirt. Lady's.	C. C. Ondrak.	35,579	Jan. 14	98	408
Soap.	C. A. Crary.	36,078	Sept. 16	100	2597
Soap tray or holder.	J. G. Walker.	35,724	Feb. 11	98	1272
Sole. Shoe.	J. S. Busky.	35,630	Jan. 28	98	781
Spectacles or eyeglasses. Nosepiece for.	I. Fox.	35,551	Jan. 7	98	216
Spectacles or eyeglasses. Nosepiece for.	I. Fox.	35,552	Jan. 7	98	216
Spectacles or eyeglasses. Nosepiece for.	I. Fox.	35,553	Jan. 7	98	216
Speculum-blade blank.	C. J. Pilling.	35,715	Feb. 11	98	1271
Speculum-blade blank.	C. J. Pilling.	35,716	Feb. 11	98	1271
Speculum-blade blank.	C. J. Pilling.	35,714	Feb. 11	98	1271
Spoon.	F. P. D'Arcy.	35,829	Apr. 1	99	214
Spoon.	S. J. Large.	35,929	June 3	99	2310
Spoon, fork, &c. Souvenir.	F. W. Keller.	35,949	Nov. 23	101	1821
Spoon or fork handle.	J. T. Donnell.	35,923	May 27	99	2090
Spoon. Souvenir.	F. H. Pretz.	35,904	May 13	99	1607
Spoon. Souvenir.	J. A. Oswald.	35,573	Jan. 14	98	407
Spoon. Souvenir.	E. L. Deacon.	36,115	Oct. 21	101	650
Spoons, forks, &c. Handle for.	H. L. Wallace.	35,647	Feb. 4	98	1012
Spoons, forks, &c. Handle for.	H. L. Wallace.	35,648	Feb. 4	98	1013
Spoons, forks, &c. Handle for.	N. Oshorne.	35,749	Feb. 4	98	1013
Spoons, forks, &c. Handle for.	W. C. Codman.	35,780	Mar. 4	98	1956
Spoons, forks, &c. Handle for.	W. C. Codman.	35,850	Apr. 15	99	651
Spoons, forks, &c. Handle for.	E. Meyers.	35,860	Apr. 15	99	651
Spoons, forks, &c. Handle for.	E. Meyers.	35,861	Apr. 15	99	651
Spoons, forks, &c. Handle for.	W. E. Carlson.	35,877	Apr. 22	99	853
Spoons, forks, &c. Handle for.	E. Crees and C. S. Court.	35,993	June 24	99	2556
Spoons, forks, &c. Handle for.	A. E. Hathaway.	35,964	June 24	99	2556
Spoons, forks, &c. Handle for.	S. A. Keller.	35,985	June 24	99	2557
Spoons, forks, &c. Handle for.	H. Hillbom.	35,974	July 8	100	443
Spoons, forks, &c. Handle for.	H. Hillbom.	35,975	July 8	100	443
Spoons, forks, &c. Handle for.	J. Clulee.	36,094	Sept. 2	100	2169
Spoons, forks, &c. Handle for.	T. Heath.	36,132	Nov. 4	101	1118
Spoons, forks, &c. Handle for.	C. A. Bennett.	36,169	Dec. 16	101	2558
Spoons, forks, or similar articles. Handle for.	C. A. Bennett.	35,555	Jan. 7	98	216
Spoons, forks, or similar articles. Handle for.	W. C. Codman.	35,536	Jan. 7	98	216
Spoons, forks, or similar articles. Handle for.	T. Bender.	35,982	July 29	100	1103
Spoons, &c. Handle for.	J. M. Bracken.	35,607	Jan. 28	98	776
Spoons, &c. Handle for.	F. G. Wilson.	35,821	Mar. 18	98	2355
Spoons, &c. Handle for.	H. H. Burdick.	35,850	Apr. 8	99	436
Spoons, &c. Handle for.	E. H. H. Smith.	35,862	Apr. 15	99	652
Spoons, &c. Handle for.	J. E. Straker, Jr.	36,121	Oct. 28	101	876
Spoons, &c. Handle for.	C. Osborne.	36,143	Nov. 18	101	1597
Spoons or similar articles. Handle for.	B. Ball.	35,882	Apr. 29	99	1161
Spoons or similar articles. Handle for.	E. Crees and C. S. Court.	35,994	Aug. 12	100	1552
Spoons or similar articles. Handle for.	E. Crees and C. S. Court.	35,995	Aug. 12	100	1553
Spoons or similar articles. Handle for.	E. Crees and C. S. Court.	35,996	Aug. 12	100	1553
Spoons or similar articles. Handle for.	W. F. Marshall.	35,997	Aug. 12	100	1553
Spoons or similar articles. Handle for.	N. H. Andrus.	36,095	Oct. 7	101	207
Spoons or similar articles. Handle for.	C. S. Court.	36,096	Oct. 7	101	207
Spur-body.	W. E. Underwood.	35,696	Feb. 4	98	1021
Spur-body.	W. E. Underwood.	35,697	Feb. 4	98	1021
Statuette.	L. V. Aronson.	36,135	Nov. 11	101	1360
Stone. Cut.	E. G. H. Schenck.	35,637	June 10	99	2537
Stone. Cut.	E. G. H. Schenck.	35,938	June 10	99	2537
Stone. Cut.	S. Wood.	36,103	Oct. 14	101	439
Stone. Cut.	S. Wood.	36,104	Oct. 14	101	439
Stone. Cut.	S. Wood.	36,131	Nov. 4	101	1118
Stone. Cut.	S. Wood.	36,142	Nov. 18	101	1597
Stone. Cut.	E. G. H. Schenck.	36,167	Dec. 16	101	2558
Stool-leg.	C. D. Orelutt.	36,113	Oct. 14	101	440
Stove.	W. V. Robinson.	35,954	June 17	99	2759
Stove.	H. D. Perky.	36,007	Aug. 12	100	1555
Stove.	M. Marz.	36,082	Sept. 23	100	2576
Stove.	C. Puddefoot.	36,090	Sept. 30	100	3003
Stove.	G. W. Cope and W. L. Bertram.	36,112	Oct. 14	101	440
Stove.	C. H. Fleming.	36,148	Nov. 25	101	1821
Stove.	E. C. Warren.	36,159	Dec. 9	101	2275
Stove.	E. C. Warren.	36,160	Dec. 9	101	2275
Stove.	E. C. Warren.	36,161	Dec. 9	101	2275
Stove. Cook.	W. L. Mersfelder.	36,199	Nov. 11	101	1361
Stove-door.	J. P. Onerbacker.	35,582	Jan. 14	98	400
Stove front. Gas.	E. B. Adler.	36,077	Sept. 16	100	2597
Stove. Gas.	W. J. Schwarz.	35,738	Feb. 11	98	1275
Stove. Gas.	J. C. Forster.	36,173	Dec. 16	101	2559
Stove. Gas heating.	T. A. Witman.	35,629	Jan. 28	98	780
Stove. Heating.	J. R. Kennedy and E. J. King.	36,099	Oct. 7	101	207
Stove. Heating.	C. S. Eriksen.	36,150	Nov. 11	101	1361
Stove. Heating.	T. R. Kennedy and E. J. King.	36,157	Dec. 9	101	2275
Stove. Heating.	W. L. Mersfelder.	36,158	Dec. 9	101	2275
Stove-leg.	G. H. Droegge.	36,177	Dec. 23	101	2812

*Alphabetical list of designs—Continued.*

Design.	Name.	No.	Date.	Official Gazette.	
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Stove, Oil.....	W. R. Jeavons.....	35,866	Apr. 15	99	652
Stove or range.....	T. R. Kennedy and E. J. King.....	35,932	June 3	99	2311
Stove or range. Cooking.....	J. J. Graves.....	35,867	Apr. 15	99	652
Stove or range. Cooking.....	F. J. Frey.....	35,955	June 17	99	2759
Stoves. Connecting member for hydrocarbon.....	W. R. Jeavons.....	35,679	Feb. 4	98	1018
Surgical rubber pad.....	W. P. Richards.....	35,749	Feb. 18	98	1473
Suspender-yoke.....	B. Stein.....	35,687	Feb. 4	98	1020
Switch contact member.....	G. W. Hart.....	35,620	Jan. 28	98	779
Table.....	J. W. Estes.....	35,728	Feb. 11	98	1273
Talking-machine case.....	L. P. Valiquet.....	35,874	Apr. 15	99	654
Talking-machine horn-supporting arm.....	L. P. Valiquet.....	35,873	Apr. 15	99	654
Teapot, &c.....	C. E. Haviland.....	35,784	Mar. 4	98	1957
Teapot or similar article.....	S. G. Wilkes.....	36,156	Dec. 9	101	2274
Teapots, &c. Ornamental frame for.....	E. Piepenbring.....	35,924	May 27	99	2090
Threshing-machine-cylinder tool.....	J. Pankratz.....	35,721	Feb. 11	98	1272
Tile.....	D. H. Watts, Jr.....	35,691	Feb. 4	98	1020
Tile.....	A. Plant.....	36,089	Sept. 30	100	3003
Tile. Ornamental.....	T. J. Woodward.....	35,772	Feb. 25	98	1697
Tile. Ornamental.....	T. J. Woodward.....	35,773	Feb. 25	98	1697
Tile. Ornamental.....	T. J. Woodward.....	35,774	Feb. 25	98	1698
Tile. Ornamental.....	T. J. Woodward.....	35,775	Feb. 25	98	1698
Toilet articles. Handle for.....	R. R. Debacher.....	36,022	Aug. 26	100	1965
Toilet boxes, mirrors, or similar articles. Back for.....	T. W. Foster.....	36,011	Aug. 19	100	1752
Tool-stand.....	H. G. Smith.....	35,888	Apr. 29	99	1162
Toy.....	O. A. Prior.....	35,880	Apr. 22	99	854
Toy bank.....	J. W. Eshleman.....	35,864	Apr. 15	99	652
Toy stove.....	C. A. Bailey.....	36,081	Sept. 23	100	2765
Trace-holder.....	E. Woodbury.....	35,665	Feb. 4	98	1015
Trimming.....	J. Müller.....	35,855	Apr. 8	99	436
Trimming.....	G. H. Taylor.....	35,952	June 10	99	2540
Trimming.....	G. H. Taylor.....	35,968	June 24	99	2957
Trimming. Dress.....	G. S. Hensel.....	35,913	May 13	99	1609
Trousers-clasp securing-bar.....	H. S. Brewington.....	35,547	Jan. 7	98	215
Type. Font of.....	B. Nadall.....	35,711	Feb. 11	98	1270
Type. Font of.....	J. W. Phinney.....	35,712	Feb. 11	98	1271
Type. Font of.....	J. W. Phinney.....	35,839	Apr. 1	99	217
Type. Font of border.....	H. Barth.....	35,966	June 24	99	2957
Type. Font of border.....	H. Barth.....	35,967	June 24	99	2957
Type. Font of border.....	J. W. Phinney.....	35,971	July 1	100	223
Type. Font of lower-case printing.....	B. Nadall and G. A. Barnes.....	36,017	Aug. 19	100	1754
Type. Font of printing.....	H. Hienburg.....	35,777	Feb. 25	98	1698
Type. Font of printing.....	H. Hienburg.....	35,838	Apr. 1	99	217
Type. Font of printing.....	E. Everard.....	35,945	June 10	99	2538
Type. Font of upper-case printing.....	B. Nadall.....	36,018	Aug. 19	100	1754
Type ornaments. Font of.....	B. Nadall.....	35,807	Mar. 11	98	2162
Type ornaments. Font of.....	B. Nadall.....	35,808	Mar. 11	98	2162
Type ornaments. Font of.....	B. Nadall.....	35,809	Mar. 11	98	2162
Type ornaments. Font of.....	B. Nadall.....	35,810	Mar. 11	98	2163
Type ornaments. Font of.....	B. Nadall.....	35,811	Mar. 11	98	2163
Type ornaments. Font of.....	B. Nadall.....	35,812	Mar. 11	98	2163
Type ornaments. Font of.....	B. Nadall.....	35,886	Apr. 29	99	1161
Type ornaments. Font of.....	B. Nadall.....	35,887	Apr. 29	99	1161
Umbrella-cover.....	E. L. Smith.....	36,092	Sept. 30	100	3003
Urnal.....	C. Desormoux.....	35,617	Jan. 28	98	778
Vehicle-body.....	B. C. Walter.....	35,698	Feb. 4	98	1022
Vehicle-body.....	C. F. Putnam.....	35,739	Feb. 11	98	1275
Vehicle-body.....	W. S. Rogers.....	35,763	Feb. 18	98	1475
Vehicle-body.....	J. H. MacAlman.....	35,909	May 13	99	1608
Vehicle-body.....	J. H. MacAlman.....	35,910	May 13	99	1608
Vehicle-body.....	J. H. MacAlman.....	35,911	May 13	99	1608
Vehicle-body.....	W. S. Rogers.....	35,951	June 10	99	2540
Vehicle-body.....	E. H. Phipps.....	36,138	Nov. 11	101	1361
Vehicle rub-iron or fender.....	J. F. Dredge and J. Burke.....	35,567	Jan. 7	98	218
Vending-machine case.....	F. E. Fitch.....	35,702	Feb. 4	98	1022
Vending-machine casing.....	W. C. Murdock.....	35,872	Apr. 15	99	654
Vending-machine casing.....	G. W. Gates.....	36,031	Aug. 26	100	1967
Vessel.....	B. P. Wagner.....	35,759	Feb. 18	98	1474
Vessel's hull.....	C. J. H. Flindt.....	35,580	Jan. 14	98	410
Vollin-case.....	N. E. Kennedy.....	35,853	Apr. 1	99	215
Wall-tile.....	R. Godfrey.....	35,565	Jan. 7	98	218
Watch-bag.....	C. C. Drueding.....	35,591	Jan. 21	98	573
Watchcase.....	C. L. Depollier.....	35,740	Feb. 18	98	1471
Watchcase.....	H. V. Degoumois.....	35,851	Apr. 8	99	436
Watch-fob.....	W. J. Adler.....	36,136	Nov. 11	101	1360
Watch-fob.....	F. I. Gorton.....	36,168	Dec. 16	101	2558
Weighing-machine case. Coin-operated.....	G. E. Van Guystling and J. G. W. Romans.....	36,182	Dec. 30	101	3093
Wrench-handle.....	J. A. Woolsey.....	35,858	Apr. 15	99	651
Zither-body.....	C. E. Brown.....	36,015	Aug. 19	100	1753





# ALPHABETICAL LIST OF TRADE-MARKS.

Title.	Name.	No.	Date.	Official Gazette.	
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Absorbent-wadding.	Vandenbroeck & Cie	37,963	Mar. 18	98	2357
Acid and preparations containing same. Carbolic	F. C. Calvert & Co	38,688	July 29	100	1106
Adhesive compounds. Certain named	V. C. & C. V. King Co.	39,608	Dec. 30	101	3101
Agricultural implements. Certain named	Wardner, Bushnell & Glessner Company.	39,011	Oct. 7	101	214
Agricultural implements. Certain named	Wardner, Bushnell & Glessner Company.	39,012	Oct. 7	101	214
Alcohol. Wood-	Berry Brothers	39,244	Nov. 11	101	1365
Ale	Frank Jones Brewing Co	37,816	Feb. 18	98	1478
Ale	A. Scheidt Brewing Company	38,185	Apr. 23	99	1167
Ale	McCormick Brewery Co.	38,393	June 3	99	2314
Ale. Ginger-	Standard Bottling & Extract Co.	38,810	Aug. 19	100	1758
Ales.	Bartels Brewing Company	38,678	July 29	100	1105
Almonds	Bevan & Co.	38,849	Aug. 26	100	1970
Almonds. Shelled	W. H. Wiley & Co.	38,997	Oct. 7	101	212
Alternative compound	A. H. Still	38,129	Apr. 15	99	660
Alumina, calcium, and sawdust. Granulated soluble compound of	A. W. Nelson	39,203	Nov. 4	101	1124
Aluminum and aluminum alloys.	Pittsburgh Reduction Co	38,523	June 24	99	2062
Ammunition and explosives. Certain named	Robin Hood Powder Company	37,964	Mar. 18	98	2357
Ammunition. Certain named	Peters Cartridge Co.	38,561	July 1	100	228
Ammunition. Certain named	Peters Cartridge Co.	38,562	July 1	100	228
Ammunition. Certain named	Peters Cartridge Co.	38,801	Aug. 19	100	1757
Amusement apparatus. Certain named	E. C. Boyce	39,499	Dec. 16	101	2563
An antimalarial.	H. S. Clark	38,512	June 24	99	2360
Anchors	Admiral Anchor Co.	38,176	Apr. 22	99	858
Anesthetic products. Certain named	A. Rousseau	39,397	Dec. 2	101	2070
Animal-traps.	W. A. Reddick	39,052	Oct. 14	101	444
Antiblenorrhagic	H. S. Clark	37,924	Mar. 11	98	2165
Antirheumatic. Local	Farbenfabriken of Elberfeld Co	39,017	Oct. 14	101	441
Antiseptic compound	Oleo-Naphthol Co	39,396	Dec. 2	101	2070
Antiseptic for toilet and medicinal purposes	R. Paxton Company	38,545	July 1	100	226
Antiseptic or antizymotic wash. Liquid	Voegeli Bros. Drug Co.	39,452	Dec. 9	101	2220
Antiseptic poultices. Certain named	Columbia Chemical Company	37,737	Feb. 4	98	1025
Antiseptic. Urinary	Farbenfabriken of Elberfeld Co	39,279	Nov. 18	101	1599
Antiseptic. Urinary	Farbenfabriken of Elberfeld Co	39,580	Dec. 30	101	3098
Antiseptic waterproof sheetings, diapers, and waterproof undergarments.	A. L. Sweetser	39,327	Nov. 11	101	1363
Antiseptics.	R. H. Page	37,867	Feb. 25	98	1701
Antiseptics.	R. H. Page	37,868	Feb. 25	98	1701
Antiseptics.	Société Anonyme des Produits Chimiques Spéciaux.	38,299	May 20	99	1890
Apparel. Certain named wearing-	R. E. Lowe	39,054	Oct. 21	101	652
Apples, apple-trees, scions, cuttings, grafts, roots, and stocks.	Stark Bro's Nurseries & Orchards Co.	38,556	July 1	100	227
Apples, apple-trees, scions, cuttings, grafts, roots, and stocks.	Stark Bro's Nurseries & Orchards Co.	38,635	July 15	100	678
Arsenic compounds.	Vereinigte Chemische Werke Aktiengesellschaft.	38,879	Sept. 9	100	2374
Artists' materials and stationery	G. Wagner	38,145	Apr. 22	99	855
Asphalt and certain named products	West Indies Company	38,940	Sept. 23	100	2770
Asphaltum	H. Brown	37,783	Feb. 11	98	1277
Asphaltum	Globe Asphalt Co	38,134	Apr. 15	99	786
Asthma cures.	Open Door Asthma Cure Company	39,480	Dec. 16	101	2561
Atomizers and orthopaedic apparatus.	I. Lundquist	37,889	Mar. 4	98	1961
Atomizing apparatus	R. L. Benson	39,260	Nov. 11	101	1366
Automobiles	I. D. Leugel	39,264	Nov. 11	101	1366
Automobiles	Olds Motor Works	39,405	Dec. 2	101	2071
Bags. Grain	Androsoggin Mills	39,561	Dec. 30	101	3095
Baking-powder	Morehouse Manufacturing Co	37,691	Apr. 28	98	786
Baking-powder	S. E. Bleyer	38,429	June 10	99	2542
Balm or lotion	A. E. Cox	38,434	June 10	99	2543
Balms for nasal and catarrhal affections.	Brown Manufacturing Co.	38,611	July 15	100	675
Bandages	J. A. B. Schmidt	39,114	Oct. 28	101	879
Bandages	J. A. B. Schmidt	39,115	Oct. 28	101	879
Bandages. Suspensory	Ware Mfg. Co.	37,685	Jan. 28	98	786
Barley grits	Schumacher Cereal Co.	38,963	Sept. 30	100	3006
Batteries and electrical appliances. Certain named	Manhattan Electrical Supply Company.	37,629	Jan. 7	98	222
Batteries. Dry	Nungesser Electric Battery Co	38,699	July 29	100	1107
Bed-bottoms and bedsteads. Certain named	National Spring Bed Company	38,315	May 20	99	1862
Beef extracts	Liebig Extract Company	37,660	Jan. 21	98	578
Beef extracts, bouillon, and beef-tea	Udahl Packing Co.	38,339	May 27	99	2394
Beer	United States Brewing Company of Chicago.	37,619	Jan. 7	98	221
Beer	Wm J. Lemp Brewing Co	37,901	Mar. 4	98	1962
Beer	Ashland Brewing Co	38,651	July 22	100	927
Beer	Independent Brewing Association	38,309	Aug. 19	100	1758
Beer	Imperial Brewing Co.	39,032	Oct. 14	101	443
Beer	Adam Scheidt Brewing Company	39,283	Nov. 16	101	1599
Beer	Joplin Brewing Co	39,544	Nov. 25	101	1324



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Beer.....	"Saazer Genossenschaftsbrauerei, Reg. Genossenschaft mit Beschränkter Haftung, Saaz."	39,486	Dec. 9	100	2270
Beer, ale, porter, and malt extract. Lager-.....	Duluth Brewing & Malting Co.....	37,978	Mar. 25	98	2581
Beer and malt extract.....	Birk Bros. Brewing Co.....	38,968	Sept. 30	100	3007
Beer. Lager.....	Consumers Park Brewing Company.....	38,652	July 22	100	927
Beer. Lager.....	Jos. Schlitz Brewing Company.....	38,773	Aug. 12	100	1550
Beer. Lager.....	Independent Brewing Association.....	38,808	Aug. 19	100	1757
Beer. Lager.....	Dick and Brothers Quincy Brewery Co.....	38,846	Aug. 26	100	1970
Bells and push-buttons. Electric vibrating.....	Electric Gas Lighting Company.....	39,541	Dec. 23	101	2816
Bells. Team.....	Bevin Bros. Mfg. Co.....	39,211	Nov. 4	101	1125
Belt-dressing preparation. Stick, plastic, and fluid.....	M. L. Lyon.....	38,171	Apr. 22	99	858
Belts.....	Samstaz & Hilder Bros.....	38,527	July 1	100	224
Belts. Chain.....	Link Belt Machinery Co.....	37,877	Feb. 25	98	1702
Belts or bands. Driving.....	Loewitz & Rohlfis.....	39,546	Dec. 23	101	2817
Belting. Cotton.....	Whitehurst Belting Co.....	38,914	Sept. 23	100	2768
Beverages. Breakfast-food.....	Maltechocola Company.....	39,371	Dec. 2	101	2967
Beverages. Certain named.....	J. A. Crowley.....	37,454	Mar. 18	98	1357
Beverages. Certain named.....	Standard Pure Water Co.....	39,282	Nov. 18	101	1599
Beverages. Certain named carbonated.....	Static Carbonating Company.....	38,969	Sept. 30	100	3907
Beverages. Non-intoxicating.....	Philipp Schilling Brewing Company.....	38,002	Apr. 8	99	440
Beverages. Sweet non-alcoholic.....	C. G. Armstrong.....	37,900	Mar. 4	98	1962
Beverages. Syrups, flavorings, tonics, or extracts for non-intoxicating aerated.....	E. H. Cross.....	38,534	July 1	100	125
Bicycle goods. Certain named.....	Guterman, Rosenfeld & Co.....	39,407	Dec. 2	101	2971
Bicycles.....	W. A. Hendee.....	38,000	Apr. 8	99	213
Bicycles and self-propelled road-vehicles.....	G. M. Hendee.....	38,008	Oct. 7	101	213
Billiard-cloth.....	B. A. Stevens.....	38,943	Sept. 30	100	3004
Bindings. Corduroy dress.....	B. J. Schmidt & Co.....	38,107	Apr. 15	99	658
Binoculars.....	E. Colmont.....	38,463	June 17	99	2766
Biscuit. Shredded-wheat.....	Natural Food Company.....	37,726	Feb. 4	98	1025
Bits, stirrups, spurs, and buckles.....	Smith, Worthington & Co.....	38,446	June 10	99	2544
Bitters.....	L. G. Gatti Company.....	38,294	Apr. 29	99	816
Bitters.....	J. Grathni & Co.....	39,526	Dec. 23	101	2814
Bitters. Alcoholic.....	C. H. Struabe.....	39,349	Nov. 25	101	1824
Bitters or tonics. Stomach.....	F. S. Amidon.....	39,003	Oct. 7	101	213
Bitters. Stomach.....	Munyon's Homoeopathic Home Remedy Co.....	37,930	Mar. 11	98	2166
Bitters. Stomach.....	Baton Rouge Liquor & Cigar Co.....	38,026	Apr. 1	99	232
Bituminous composition or cement.....	Warren Brothers Company.....	37,965	Mar. 18	98	2358
Bituminous composition or cement.....	Warren Brothers Company.....	37,966	Mar. 18	98	2358
Bituminous composition or cement.....	Warren Brothers Company.....	37,967	Mar. 18	98	2358
Bituminous composition or cement.....	Warren Brothers Company.....	37,968	Mar. 18	98	2358
Bituminous composition or cement.....	Warren Brothers Company.....	37,969	Mar. 18	98	2358
Bituminous composition or cement.....	Warren Brothers Company.....	37,970	Mar. 18	98	2358
Bituminous composition or cement.....	Warren Brothers Company.....	37,971	Mar. 18	98	2358
Bituminous composition or cement.....	Warren Brothers Company.....	38,296	May 13	99	1616
Bituminous composition or cement.....	Warren Brothers Company.....	38,297	May 13	99	1616
Bituminous composition or cement.....	Warren Brothers Company.....	38,298	May 13	99	1616
Bituminous composition or cement.....	Warren Brothers Company.....	38,299	May 13	99	1616
Bituminous composition or cement.....	Warren Brothers Company.....	38,270	May 13	99	1616
Bituminous composition or cement.....	Warren Brothers Company.....	38,271	May 13	99	1616
Bituminous composition or cement.....	Warren Brothers Company.....	38,272	May 13	99	1617
Bituminous composition or cement.....	Warren Brothers Company.....	38,273	May 13	99	1617
Bituminous composition or cement.....	Warren Brothers Company.....	38,274	May 13	99	1617
Bituminous composition or cement.....	Warren Brothers Company.....	38,275	May 13	99	1617
Bituminous composition or cement.....	Warren Brothers Company.....	38,276	May 13	99	1617
Bituminous composition or cement.....	Warren Brothers Company.....	38,277	May 13	99	1617
Bituminous composition or cement.....	Warren Brothers Company.....	38,278	May 13	99	1617
Bituminous composition or cement.....	Warren Brothers Company.....	38,279	May 13	99	1617
Bituminous composition or cement.....	Warren Brothers Company.....	38,362	May 27	99	2067
Bituminous composition or cement.....	Warren Brothers Company.....	38,363	May 27	99	2067
Bituminous composition or cement.....	Warren Brothers Company.....	38,111	June 3	99	2316
Bituminous composition or cement.....	Warren Brothers Company.....	38,693	July 29	100	1107
Blacksmiths' tools. Certain named.....	Columbus Forge & Iron Co.....	37,876	Feb. 25	98	1702
Blood-purifier.....	Geier Silkweed Co.....	39,134	Oct. 28	101	881
Blood specific.....	A. J. Baxley.....	37,864	Feb. 25	98	1701
Boiler fluids for prevention of scale.....	Valvoline Oil Co.....	38,660	July 22	100	928
Boiler incrustation. Preparations for prevention of.....	Land and Marine Supply Company.....	38,440	June 10	99	816
Boilers. Anti-incrustating compound for steam.....	A. W. Morris.....	38,281	May 13	99	1618
Boiler-rolls. Closed.....	Hinde & Dauch Paper Co.....	38,413	June 3	99	2316
Boiler-rolls. Open.....	Hinde & Dauch Paper Co.....	38,414	June 3	99	2316
Bolts, screws, and expansion-shields. Expansion.....	H. B. Newhall.....	37,630	Jan. 7	98	222
Bonbons. Fruit.....	T. Kerfoot & Co.....	39,285	Nov. 18	101	1599
Bookbindings.....	T. R. Towler.....	38,454	June 17	99	2761
Books.....	Ripgate's History Publishing Co.....	37,144	Apr. 22	99	457
Books.....	W. Doney.....	39,468	Dec. 16	101	2560
Books. Certain named.....	C. L. Dressler & Co.....	37,893	Feb. 18	98	1477
Books. Scrap.....	Perfect Scrap Book Co.....	38,667	July 29	100	1104
Books. Writing.....	B. Pahlman.....	39,302	Nov. 18	101	1601
Boot and shoe linings and trimmings. Fabrics for.....	Farnsworth, Hoyt & Co.....	38,598	July 15	100	674
Boots and shoes.....	Desnoyers Shoe Company.....	37,610	Jan. 7	98	220
Boots and shoes.....	J. J. Gagin.....	37,144	Apr. 1	99	411
Boots and shoes.....	B. Rosenberg & Sons.....	37,681	Jan. 28	98	785
Boots and shoes.....	M. Samuels.....	37,779	Feb. 11	98	1277
Boots and shoes.....	Greene Shoe Co.....	37,846	Feb. 25	98	1699
Boots and shoes.....	Friedman Bros. Shoe Co.....	37,915	Mar. 11	98	2164
Boots and shoes.....	Syndicate Trading Co.....	37,930	Mar. 18	98	2356
Boots and shoes.....	Frank & Duston.....	38,007	Apr. 1	99	220
Boots and shoes.....	Peters Shoe Company.....	38,008	Apr. 1	99	220
Boots and shoes.....	Crawford Shoe Makers.....	38,059	Apr. 8	99	438
Boots and shoes.....	Geo. D. Witt Shoe Co.....	38,060	Apr. 8	99	439
Boots and shoes.....	Geo. D. Witt Shoe Co.....	36,061	Apr. 8	99	433

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Title.	Name.	No.	Date.	Official Gazette.	
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Boots and shoes.	L. A. Crossett	38,156	Apr. 22	99	856
Boots and shoes.	Marks, Rothenberg & Co.	38,294	May 20	99	1860
Boots and shoes.	Walker & Whitman	38,295	May 20	99	1860
Boots and shoes.	C. H. Moulton & Co.	38,381	June 3	99	2313
Boots and shoes.	Isaac Prouty & Co.	38,422	June 10	99	2341
Boots and shoes.	Chick Brothers	38,448	June 17	99	2761
Boots and shoes.	Roberts, Johnson & Rand Shoe Co.	38,449	June 17	99	2761
Boots and shoes.	Roberts, Johnson & Rand Shoe Co.	38,450	June 17	99	2761
Boots and shoes.	Roberts, Johnson & Rand Shoe Co.	38,451	June 17	99	2761
Boots and shoes.	Perkins, Hardy & Co.	38,566	July 8	100	444
Boots and shoes.	United Workmen's Boot and Shoe Company.	38,567	July 8	100	444
Boots and shoes.	F. M. Fargo	38,793	Aug. 19	100	1756
Boots and shoes.	J. W. Carroll	38,907	Sept. 23	100	2767
Boots and shoes.	J. W. Carroll	38,908	Sept. 23	100	2767
Boots and shoes.	Sanger Bros	38,909	Sept. 23	100	2767
Boots and shoes. Appurtenances for the care of.	L. C. Bliss & Co.	38,406	June 3	99	2315
Boots and shoes. Certain named	Dorothy Dodd Shoe Co.	38,838	Aug. 26	100	1960
Boots and shoes. Certain named	Dorothy Dodd Shoe Co.	39,011	Sept. 23	101	2938
Boots and shoes. Ladies'	A. H. Berry	37,710	Feb. 4	98	1023
Boots and shoes. Ladies'	F. Looser & Co.	37,711	Feb. 4	98	1023
Boots and shoes. Ladies', misses', and children's	C. P. Ford & Co.	38,100	Apr. 15	99	658
Boots and shoes. Leather	E. S. Woodbury & Co.	38,233	May 13	99	1612
Boots and shoes. Leather	Guthmann Carpenter & Telling	38,876	Sept. 9	100	2877
Boots and shoes. Leather	L. A. Crossett	39,060	Oct. 21	101	652
Boots and shoes. Leather	Ashe, Noyes & Small Co.	39,269	Nov. 18	101	1598
Boots and shoes. Leather	H. V. Coker	39,270	Nov. 18	101	1598
Boots and shoes. Leather	Meigs & Co.	39,274	Nov. 18	101	1598
Boots and shoes. Leather	Civilian Shoe Co.	39,424	Dec. 9	101	2277
Boots and shoes. Leather	G. P. Snyder & Co.	39,516	Dec. 23	101	2813
Boots and shoes. Men's	Lamkin & Foster	38,837	Aug. 26	100	1969
Boots and shoes. Misses' and children's	Dorothy Dodd Shoe Co.	39,910	Sept. 23	100	2767
Boots and shoes. Waterproof polish for	J. F. Smith	39,042	Oct. 14	101	2813
Boots, shoes, and leather. Certain named	Rice & Hutchins	39,225	Nov. 11	101	1302
Boots, shoes, and slippers	Hub Gore Makers	37,670	Jan. 28	98	785
Boots, shoes, and slippers	M. Woodbury	38,155	Apr. 22	99	856
Boots, shoes, and slippers and leather for same	Clark-Hutchinson Co.	39,170	Nov. 4	101	1120
Boots, shoes, and slippers. Leather	Parker, Holmes & Co.	39,271	Nov. 18	101	1598
Boots, shoes, and slippers. Leather	Parker, Holmes & Company	39,272	Nov. 18	101	1598
Boots, shoes, and slippers. Leather	J. W. Gibbs	39,515	Dec. 23	101	2813
Boots, shoes, and slippers. Leather	H. Mack	39,523	Dec. 23	101	2815
Bottle-cleaning shot.	Brown-Winstanley Co.	39,312	Nov. 18	101	1602
Bottle-filling machines.	W. M. Fowler	37,973	Mar. 18	98	2358
Bottles. Prescription.	Obeur Nester Glass Company	38,739	Aug. 5	100	1326
Bowling games. Device for parlor.	H. C. Downey	39,582	Dec. 30	101	3098
Boxes. Machines and tools for making paper.	American Type Founders Company	38,416	June 3	99	2315
Braai, middlings, brown and white, mixed feed, and red dog.	Listman Mill Company	38,723	Aug. 5	100	1326
Brazing compound. Metallic	Morel Bros. Cobbett & Son	37,724	Feb. 4	98	1021
Bread	O. C. F. Wilcke	39,242	Nov. 11	101	1364
Bread	Heusner Baking Company	38,540	July 1	100	225
Bread	C. F. Schupp & Son	38,816	Aug. 19	100	1759
Bread	Listman Mill Company	38,994	Oct. 7	101	211
Bread	Natural Food Co.	39,241	Nov. 11	101	1364
Bread, biscuits, crackers, cakes, and pies	W. J. Meikleham	38,564	Dec. 30	101	3096
Bread, cakes, pies, and crackers	McKinney Bros. Co.	38,690	Jan. 28	98	786
Bread, crackers, and cakes	Julier Baking Company	39,144	Oct. 28	101	882
Bread, pies, cakes, and biscuits	G. R. Skillman	39,077	Oct. 21	101	654
Breads, cakes, and confections	F. I. Ughetta	38,076	Apr. 8	99	440
Brewers' grains. Dried	Farmers Feed Company of New Jersey	37,975	Mar. 25	98	2581
Bronze and gold paints and powders	Gerstendorfer Bros	39,288	Nov. 18	101	1599
Brushes	Elder & Jenks	37,921	Mar. 11	98	2165
Brushes	Florence Manufacturing Co.	37,980	Mar. 25	98	2582
Brushes	Akerley Mfg. Co.	38,407	June 3	99	2315
Brushes	Palmetto Fiber Co.	38,977	Oct. 7	101	209
Brushes. Certain named	Leopold Ascher Company	38,462	June 17	99	2762
Brushes. Hair, nail, tooth, and flesh	Florence Manufacturing Company	38,570	July 8	100	444
Brushes. Hair, nail, tooth, and flesh	Florence Manufacturing Company	38,571	July 8	100	444
Bullet shells. Rifle	Eiterich & Company	38,619	May 20	99	1862
Butter	W. H. Holmes	37,730	Feb. 4	98	1025
Butter	Chapin-Sacks Mfg. Co.	37,935	Mar. 11	98	2166
Butter	Lestrade Bros	38,335	May 27	99	2094
Butter	E. O. Whitford & Co.	38,865	Sept. 2	100	2171
Butter, butterin, and oleomargarin	Oakdale Mfg. Co.	39,148	Oct. 28	101	882
Butter, cheese, and condensed milk	K. Hoefelmayer	39,149	Oct. 28	101	883
Butter, cheese, and eggs	G. T. Lawrence	37,899	Mar. 4	98	1962
Butter, cheese, and eggs	E. F. Dudley	38,254	May 13	99	1615
Buttons. Collar	W. J. Smith	38,703	Aug. 5	100	1322
Cabinets. Tooth brush and powder	Nedo Company	37,991	Mar. 25	98	2582
Caddy-bags	M. Hartley Company	38,671	July 29	100	1105
Cakes and confectionery. Icing-powder for	H. H. Ottens	38,075	Apr. 8	99	440
Calcium carbide	Eleco Lamp Co.	38,629	July 15	100	677
Cancer and tumor cures	I. L. Browning	39,133	Oct. 28	101	881
Candies	Dempsey Candy Works Co.	39,369	Dec. 2	101	2067
Candies	Dempsey Candy Works Co.	39,370	Dec. 2	101	2067
Candies, chocolate, and preparations of chocolate and co-coas.	Russ, Suchard and Company	38,770	Aug. 12	100	1559
Candy	Ward & Stickles	39,236	Nov. 25	101	1823
Candy	C. J. Fletcher Candy Co.	39,530	Dec. 23	101	2815
Candy. Chewing	P. S. Marosis	37,688	Jan. 28	98	786
Candy. Chocolate	F. H. Roberts	38,620	July 15	100	676
Candy. Chocolate	F. H. Dow & Company	38,719	Aug. 5	100	1323
Candy. Cocomanut	V. Contos	39,569	Dec. 30	101	3097
Candy. Stick	Temple Confection Company	39,235	Nov. 11	101	1363
Canned fancy sugar-corn	Warfield Pratt Howell Co.	38,625	July 15	100	677
Canned fish	Alaska Packers Association	39,179	Nov. 4	101	1122



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Canned fish	Alaska Packers Association	39,180	Nov. 4	101	1122
Canned fish	Alaska Packers Association	39,181	Nov. 4	101	1122
Canned food products. Certain named.	Berdan & Co	39,378	Dec. 2	101	2068
Canned fruit and vegetables	Arbuckles & Co	39,533	Dec. 23	101	2415
Canned fruit, berries, and vegetables	C. Shenberg Co	39,376	Dec. 2	101	2067
Canned fruit, berries, and vegetables	C. Shenberg Co	39,377	Dec. 2	101	2067
Canned fruit, berries, and vegetables	C. Shenberg Co	39,435	Dec. 9	101	2270
Canned fruits and vegetables	W. A. Leggett & Co	39,601	Dec. 30	101	3101
Canned fruits and vegetables	Adam Roth Grocery Company	39,602	Dec. 30	101	3101
Canned fruits, vegetables, and soups	Warfield-Pratt-Howell Co.	39,236	Nov. 11	101	1364
Canned salmon	Alaska Packers Association	37,738	Feb. 4	98	1025
Canned salmon	Alaska Packers Association	38,934	Sept. 23	100	2770
Canned salmon	Wales Island Packing Co.	39,072	Oct. 21	101	653
Canned sea-foods	Berdan & Co	38,583	Dec. 30	101	3096
Canned vegetables and fruits	H. C. Baxter & Bro.	38,898	Sept. 16	100	2598
Cap-visors	E. Mattes & Son	38,945	Sept. 30	100	3844
Car-replacers	Heitzmann Tool & Supply Co.	39,053	Oct. 14	101	444
Carbon-black	Castle Brook Carbon Black Co.	38,732	Aug. 5	100	1325
Carbons. Certain named	Gebrüder Siemens & Co	39,050	Oct. 14	101	444
Carbonating apparatus and appliances	Static Carbonating Company	38,970	Sept. 30	100	3007
Carpenters' tools and appliances	Stanley Rule & Level Co.	38,415	June 3	99	661
Carpet-cleaning implements and appliances	Simmons Hardware Company	38,139	Apr. 15	99	661
Carpet-sweepers	Bissell Carpet Sweeper Co	37,823	Feb. 18	98	1479
Carpet-sweepers	Bissell Carpet Sweeper Co	37,824	Feb. 18	98	1479
Carpet-sweepers	Bissell Carpet Sweeper Co	38,367	May 27	99	2067
Carpet-sweepers	Bissell Carpet Sweeper Co	39,262	Nov. 11	101	1366
Carpets and rugs	H. R. Albee	39,062	Oct. 21	101	653
Carriage-robes	L. Viedt	39,350	Dec. 18	101	3061
Castings. Sanitary.	Essex Foundry	37,835	Feb. 15	98	1480
Catsup, sauces, and salad-dressings	Berdan & Co	39,432	Dec. 9	101	2278
Cement	Lupton Portland Cement Co.	38,135	Apr. 15	99	661
Cement	V. C. & C. V. King Co.	39,576	Dec. 30	101	3098
Cement. Certain named	Clark Cast Steel Cement Co	38,694	July 29	100	1107
Cement for floorings, ceilings, and sidings	Asbestolith Company	38,412	June 3	99	2316
Cement. Hydraulic	Southern Cement Company	39,045	Oct. 14	101	444
Cement. Hydraulic	Southern Cement Company	39,046	Oct. 14	101	444
Cement. Portland	Texas Portland Cement & Lime Co.	38,634	July 15	100	656
Cement. Portland	Dexter Portland Cement Co.	38,692	July 22	100	928
Cements for furnaces. Fireproof.	H. W. Johns-Manville Company	38,208	Apr. 29	99	1166
Cements for retorts. Fireproof.	H. W. Johns-Manville Company	38,207	Apr. 29	99	1166
Cereals. Certain named prepared	Atlas Oats Company	39,079	Oct. 21	101	654
Chain-blocks	Yale & Towne Manufacturing Company	37,699	Jan. 28	98	787
Chain-blocks	Yale & Towne Mfg. Co	38,142	Apr. 15	99	662
Chains	Standard Chain Company	39,160	Oct. 28	101	884
Chains and parts thereof and attachments therefor. Ornamental	O. M. Draper	37,918	Mar. 11	98	2164
Checks, drafts, and notes	Brown Brothers & Co	38,215	May 6	99	1379
Cheese	Brinker & Schwener	38,991	Oct. 7	101	211
Cheese	J. du Roy	39,335	Nov. 23	101	1823
Cheese. Cream	Shuttleworth & Harris	39,567	Dec. 30	101	3096
Chemical compound. Certain named	Rosenzweig & Baumann	38,552	July 1	100	227
Chemical compounds. Certain named	Stern & Heller	37,735	Feb. 4	98	1025
Chemical products. Certain named	Farbenfabriken of Elberfeld Co.	39,427	Dec. 9	101	2278
Chemical substances and preparations. Certain named	Actien-Gesellschaft für Anilin-Fabrikation.	37,733	Feb. 4	98	1025
Chemical substances and preparations. Certain named	Actien-Gesellschaft für Anilin-Fabrikation.	37,734	Feb. 4	98	1025
China and earthenware	A. O. Meyer	38,312	May 20	99	1862
Chocolate and confectionery. Coatings for	H. H. Ottens	37,807	Feb. 18	98	1477
Chocolate, broma, and cocoa preparations.	Walter Baker & Co.	37,932	Mar. 11	98	2166
Chocolate chips	Honey Comb Chocolate Chip Co.	38,345	May 27	99	2095
Chocolate-covered molasses chips	W. S. Trowbridge	38,579	July 8	100	445
Chutney	M. Poonjiajee & Sons	38,114	Apr. 15	99	658
Cider	Jones Brothers and Company	38,116	Apr. 15	99	659
Cigarette-paper and cigarette-tubes	C. Schütz	38,509	June 24	99	2960
Cigarette-papers	Maison P. B. Job	37,640	Jan. 14	98	411
Cigarettes	S. Anargyros	37,621	Jan. 7	98	221
Cigarettes	S. Anargyros	37,622	Jan. 7	98	221
Cigarettes	S. Anargyros	37,623	Jan. 7	98	222
Cigarettes	S. Anargyros	37,624	Jan. 7	98	222
Cigarettes	S. Anargyros	37,625	Jan. 7	98	222
Cigarettes	S. Anargyros	37,626	Jan. 7	98	222
Cigarettes	Wells-Whitehead Tobacco Co.	37,955	Mar. 18	98	2357
Cigarettes	D. J. Vlasto	38,119	Apr. 15	99	659
Cigarettes	J. Mason	38,198	Apr. 29	99	1164
Cigarettes	A. Q. Walsh	38,347	May 27	99	2095
Cigarettes, cigars, and smoking and chewing tobacco	Universal Tobacco Company	37,719	Feb. 4	98	1024
Cigarettes, cigars, and smoking and chewing tobacco	Universal Tobacco Company	37,720	Feb. 4	98	1024
Cigarettes, cigars, and smoking and chewing tobacco	Universal Tobacco Company	37,721	Feb. 4	98	1024
Cigarettes, cigars, and smoking and chewing tobacco	Universal Tobacco Company	39,306	Nov. 18	101	1601
Cigars	S. L. Johns	37,643	Jan. 14	98	411
Cigars	Mason & Haralson	38,427	June 10	99	2542
Cigars	San Miguel Bros.	38,656	July 22	100	928
Cigars	M. J. Long	38,717	Aug. 12	100	1523
Cigars	J. S. Edwards	38,925	Sept. 23	100	2769
Cigars	J. C. Dornell	39,440	Dec. 9	101	2279
Cigars and cigarettes	W. C. Muschenheim	39,231	Nov. 11	101	1368
Cigars and cigarettes. Little	C. Upmann	38,674	July 29	100	1105
Cigars and cigarettes. Little	C. Upmann	38,675	July 29	100	1105
Cigars, cheroots, and cigarettes	E. Sprüngli, a Firm	38,253	May 18	99	1614
Cigars, cheroots, and cigarettes	M. Blaskower	38,776	Aug. 12	100	1523
Cigars, cheroots, cigaros, and cigarettes	F. Lopez Ca	37,933	Mar. 11	98	2166
Cigars, cigarettes, and smoking-tobacco	A. Piot	38,428	Nov. 10	99	2542
Cigars, cigarettes, chewing and smoking tobacco, and snuff.	Warfield-Pratt-Howell Co.	39,172	Nov. 4	101	1121
Cigars, smoking and chewing tobacco, and snuff.	Upmann & Wilcox	38,520	June 24	99	2961

## Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette.	
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Cigars, tobacco, cigarettes, and cheroots	R. M. Haan	39,380	Dec. 2	101	2068
Cleaning and polishing compound	American Pottery Supply Company of Baltimore City	38,735	Aug. 5	100	1825
Cleaning and polishing compounds. Certain named	Brunswick-Balke-Collender Company	38,887	Sept. 9	100	2379
Cleaning and polishing preparation. Certain named	E. T. Hanks	38,843	Aug. 26	100	1969
Cleaning and polishing preparations for metal, glass, and similar materials	I. M. O'Brien	38,988	Oct. 7	101	211
Cleaning and polishing solution	C. R. Ingham	38,259	May 13	99	1615
Cleaning compounds, wood-stain, ship-cement, and anti-fouling-bottom compound. Certain named	National Architectural Improvement and Supply Company	38,842	Aug. 26	100	1969
Cleaning fluids and compounds in concentrated form	J. H. Smithers	37,962	Mar. 18	98	2357
Cleaning-powder	Lavaline Manufacturing Company	39,572	Dec. 30	101	3097
Cleaning preparation	P. Orr & Sons	38,170	Apr. 22	99	858
Cleansing compositions. Certain named	Schoer Kropf, Hartford & Hanna Co	39,573	Dec. 30	101	3097
Cleansing preparations in tablet form	G. W. King	38,866	Sept. 2	100	2171
Clippers. Barbers'	Coates Clipper Mfg. Co.	39,363	Nov. 25	101	1826
Cloaks and suits. Ladies'	S. Rothschild & Bro.	38,375	June 3	99	2312
Clock movements and cases and chime devices	Bawo & Dotter	37,694	Jan. 28	98	787
Clocks. Certain named	M. W. Cole	38,606	July 15	100	675
Cloth, cloaking, and leno fabric	H. W. Smith	38,056	Apr. 6	99	438
Cloth known as kersey. Woolen	O. Hoffstadt	37,674	Jan. 28	98	784
Cloths and stuffs of wool, worsted, or hair	Wm. Fulton & Sons	38,564	July 8	100	444
Clothing. Certain named	Reid Brothers	38,832	Aug. 26	100	1968
Clothing. Certain named	Hirsh & Bock	39,309	Nov. 18	101	1602
Clothing. Certain named	H. Ambach	39,352	Nov. 25	101	1824
Clothing for men and boys. Outer-suit	M. A. Marks' Son & Co.	39,167	Nov. 4	101	1120
Clothing for men and boys. Ready-made	Goldsmith, Joseph, Feiss Co.	38,108	Apr. 15	99	658
Coal	Boomer Coal & Coke Co.	37,769	Nov. 25	99	858
Coal. Bituminous	Pere Marquette Coal Company	38,173	Apr. 22	99	858
Coating wood and metal. Compositions for	American Standard Composition Co.	38,867	Sept. 2	100	2172
Coats	Kaye & Einstein	37,986	Mar. 25	98	2582
Coats, trousers, and waistcoats	Standard Clothing Co.	37,654	Jan. 21	98	577
Coats, vests, and trousers	Semi-Ready Clothing Co.	39,311	Nov. 18	101	1602
Cocks, valves, and spigots. Compression	Wm. S. Cooper	37,995	Nov. 25	99	338
Cocoa and chocolate and preparations thereof	Kaiser's Kaffeegeschäft, Gesellschaft mit Beschränkter Haftung	39,484	Dec. 16	101	2561
Cocoa and chocolate. Sweetened and unsweetened	J. J. O'Donohue's Sons	38,864	Sept. 2	100	2171
Cocoa and cocoa preparations	Kakao-Compagnie Theodor Reichardt, Gesellschaft mit Beschränkter Haftung	38,815	Aug. 19	100	1758
Coffee	Dennett Surpassing Coffee Co.	37,618	Jan. 7	98	221
Coffee	Oriental Tea & Coffee Co.	37,725	Feb. 4	98	1024
Coffee	Anglo-American Direct Tea Trading Co.	38,394	June 3	99	2314
Coffee	Woolson Spice Company	38,814	Aug. 19	100	1758
Coffee	F. A. Cauchois and Company	39,033	Oct. 14	101	443
Coffee	G. B. Besch	39,177	Nov. 4	101	1121
Coffee	Archie Bros.	39,334	Nov. 25	101	1822
Coffee	Merchants Coffee Co.	39,339	Nov. 25	101	1823
Coffee	Mexican Coffee Trading & Planting Co. of N. Y.	39,570	Dec. 30	101	3097
Coffee and certain named coffee-improvers	American Condensed Coffee Co.	39,284	Nov. 18	101	1599
Coffee and tea	F. N. Wilcox	38,036	Apr. 1	99	223
Coffee. Cereal	Whitman Grocery Company	39,486	Dec. 16	101	2562
Coffee. Green	B. E. Tomlin	38,653	July 22	100	1892
Coffee. Java and Mocha	Nash-Smith Tea & Coffee Co.	38,679	Sept. 29	100	1105
Coffee, molasses, teas, and spices	New Orleans Coffee Co.	38,340	May 27	99	2094
Coffee, tea, and spices	Steinwender-Stoffregen Coffee Company	38,087	Apr. 1	99	223
Coffee. Roasted	O. H. Griswold	38,680	July 29	100	1106
Coffees	Southern Coffee Company	38,966	Sept. 30	101	3007
Coffees	Southern Coffee Company	39,084	Oct. 21	101	655
Coffees and teas	Woolson Spice Company	38,535	July 1	100	225
Coin-operated-machine dials	R. T. Durham	38,140	Apr. 15	99	661
Coin-operated machines	Mills Novelty Company	39,549	Dec. 23	101	2817
Cold-cream	Daggett & Ramsdell	38,192	Apr. 29	99	1164
Collars and cuffs	Union Collar Company	38,004	Apr. 1	99	219
Collars and cuffs	Union Collar Company	38,005	Apr. 1	99	219
Collars and cuffs	Cluet, Perody & Co.	38,711	Nov. 25	100	1323
Complexion compounds in tablet, soap, and powder form	R. H. Smith	38,581	July 8	100	445
Composition of matter for certain named purposes	Electroze Mfg. Co.	39,540	Dec. 23	101	2816
Compound for certain named purposes	W. H. Weaser	39,574	Dec. 30	101	3097
Compounds and preparations. Certain named medical	F. E. Turn Bull	38,610	July 15	100	675
Condiment table relish. Certain named	I-Am-A Condiment Co.	39,037	Oct. 14	101	443
Confectionery	J. Pascall, Limited	39,304	Nov. 18	101	1601
Confectionery	Mason, A. & Magenheimer Confectionery Manufact. Co.	39,305	Nov. 18	101	1601
Confectionery and articles of food. Filling for certain	H. H. Ottens	37,897	Mar. 4	98	1962
Confectionery and bakers' supplies. Certain named	H. H. Ottens	37,896	Mar. 4	98	1962
Confectionery. Certain named	M. L. Morgenstau	38,246	May 27	99	2095
Confectionery. Certain named	J. H. Faulhaber	38,719	Aug. 5	100	1233
Confectionery. Certain named	Peter Kern Company	39,224	Nov. 11	101	1303
Confectionery. Certain named	Trowbridge Chocolate Chip Co.	39,426	Dec. 3	101	2278
Confections. Certain named	American Confection Company	39,175	Nov. 4	101	1121
Confections. Chocolate	H. D. Foss and Co.	38,250	May 13	99	1614
Conserving compound	E. Utescher	38,682	July 29	100	1106
Coolers. Liquid	O. Roderwald	38,985	Sept. 23	100	2770
Copal and amber. Substitute for gum	Dr. E. Schaal	39,153	Oct. 28	101	883
Copying-baths and copying-cloths	Eureka Blotter Bath Co.	38,401	June 3	99	2315
Cordage	Travers Bros. Co.	39,125	Oct. 28	101	883
Corn-oil and corn-oil cake	National Starch Company	38,307	May 20	99	1561
Corn-oil, corn-oil cake, and meal, including germ-meal	National Starch Company	37,812	Feb. 18	98	1478
Corsets	Royal Worcester Corset Co.	37,775	Feb. 11	98	1276
Corsets	Kops Bros	37,841	Feb. 25	98	1699



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Corsets.....	Weingarten Bros.....	37,842	Feb. 25	98	1699
Corsets.....	Kops Bros.....	38,002	Apr. 1	99	219
Corsets.....	Strouse, Adler & Co.....	38,003	Apr. 1	99	219
Corsets.....	Weingarten Bros.....	38,149	Apr. 22	99	855
Corsets.....	Strouse, Adler & Co.....	38,237	May 13	99	1612
Corsets.....	Weingarten Bros.....	38,325	May 27	99	2062
Corsets.....	Birdsey & Somers.....	38,326	May 27	99	2062
Corsets.....	C. Guillot.....	38,501	June 24	99	2958
Corsets.....	Royal Worcester Corset Co.....	38,502	June 24	99	2958
Corsets.....	Royal Worcester Corset Co.....	38,503	June 24	99	2958
Corsets.....	F. E. Mistrot.....	38,643	July 22	100	926
Corsets.....	Weingarten Bros.....	38,979	Oct. 7	101	269
Corsets.....	G. C. Batcheller.....	38,980	Oct. 7	101	269
Corsets.....	Kops Bros.....	39,056	Oct. 21	101	652
Corsets.....	Kops Bros.....	39,057	Oct. 21	101	652
Corsets.....	J. Sly.....	39,223	Nov. 11	101	1362
Corsets.....	Royal Worcester Corset Co.....	39,297	Nov. 18	101	1600
Corsets.....	K. A. Meloni.....	39,392	Dec. 2	101	2069
Corsets.....	Kops Bros.....	39,470	Dec. 16	101	2569
Corsets.....	Hahne & Co.....	39,589	Dec. 30	101	3099
Corsets.....	J. Lindauer.....	38,093	July 15	100	674
Corsets, corselets, gorgets, belts, bust-holders, busks, whale-bones or steels, and hose-supporters.....	Theo. A. Kochs Company.....	38,492	June 10	99	2542
Cosmetics, hair-oils, hair-tonics, and hair-dyes.....	Vereinigte Chininfabriken, Zimmer & Co., Ges. mit Beschränkter Haftung.....	39,523	Dec. 23	101	2814
Cotton cloth.....	Compañía General de Tabacos de Filipinas.....	38,530	July 1	100	224
Cotton. Coarse unbleached.....	Minot Hooper & Co.....	38,054	Apr. 8	99	438
Cotton dress goods. Printed.....	Eddystone Mfg. Co.....	38,376	June 3	99	2312
Cotton dress goods. Printed.....	Eddystone Mfg. Co.....	38,418	June 10	99	2541
Cotton-flannels.....	W. H. Wisner & Co.....	37,657	Jan. 21	98	577
Cotton goods. Bleached and unbleached.....	C. Whitman & Co.....	39,592	Dec. 30	101	3100
Cotton piece goods.....	G. Willis.....	37,883	Mar. 4	98	1960
Cotton piece goods.....	S. Nachtigall & Co.....	37,706	Feb. 4	98	1093
Cotton piece goods and cotton yarn.....	J. & M. Worrall.....	38,614	July 22	100	926
Cotton piece goods and cotton yarn.....	Ker & Co.....	39,116	Oct. 28	101	879
Cotton piece goods and cotton yarn.....	Ker & Co.....	39,117	Oct. 28	101	879
Cotton piece goods and cotton yarn.....	Ker & Co.....	39,118	Oct. 28	101	879
Cotton piece goods not figured or printed. Unbleached.....	Ashton, Hoare & Co.....	38,981	Oct. 7	101	210
Cotton piece goods not figured or printed. Unbleached.....	Ashton, Hoare & Co.....	38,982	Oct. 7	101	210
Cotton textiles, including shirtings and sheetings.....	E. L. Suffern.....	38,225	May 13	99	1610
Cotton thread.....	New England Cotton Yarn Company.....	38,789	Aug. 19	100	1755
Cotton thread.....	New England Cotton Yarn Company.....	38,790	Aug. 19	100	1755
Cotton thread, worsted, and yarn.....	American Thread Company.....	39,224	Nov. 11	101	1362
Cotton threads.....	New England Cotton Yarn Company.....	38,375	June 3	99	2312
Cotton threads.....	New England Cotton Yarn Company.....	38,836	Aug. 26	100	1968
Cotton threads.....	New England Cotton Yarn Company.....	38,944	Sept. 30	100	3004
Cotton threads.....	New England Cotton Yarn Company.....	39,055	Oct. 21	101	652
Cotton threads and yarns.....	Summit Thread Company.....	38,985	Oct. 7	101	210
Cotton yarn. Mercerized.....	Dexter Yarn Co.....	38,531	July 1	100	224
Cough-drops.....	J. A. Rment.....	38,542	July 1	100	225
Cough-syrup and remedies for certain named diseases.....	O. C. B. Grom.....	39,479	Dec. 16	101	2561
Cough-syrups and remedies for certain named diseases.....	O. C. B. Grom.....	38,078	Apr. 8	99	440
Covering and protective materials. Certain named.....	Standard Paint Company.....	38,947	Sept. 30	100	3004
Covering material. Certain named.....	Asbestos Manufacturing Co.....	37,639	Jan. 14	98	411
Crackers and biscuit.....	C. D. Boss & Son.....	38,479	June 17	99	2764
Crackers, bread, cakes, and puddings and pies.....	Epicure Baking Co.....	38,798	Aug. 12	100	1538
Crayons and pencils.....	Binney & Smith.....	38,975	Oct. 7	101	269
Crayons. Blackboard.....	American School Furniture Company.....	38,868	Sept. 2	100	2172
Cream of tartar.....	Royal Baking Powder Co.....	37,851	Feb. 25	98	1700
Creamery products. Certain named.....	St. Charles Condensing Company.....	39,178	Nov. 4	101	1121
Creamery products. Certain named.....	St. Charles Condensing Co.....	39,451	Dec. 9	101	2280
Crème de cacao chuao.....	Nuyens & Co.....	39,176	Nov. 4	101	1121
Crème de menthe.....	Nuyens & Co.....	38,000	Oct. 7	101	212
Cutlery and hardware and surgical instruments. Certain named.....	M. Klaas.....	37,829	Feb. 18	98	1480
Cutlery and hardware and surgical instruments. Certain named.....	M. Klaas.....	37,830	Feb. 18	98	1480
Cutlery. Certain named.....	D. Peres.....	38,314	May 20	99	1862
Cycles, motor-vehicles, and their parts.....	Fabrique de Moteurs & de Machines (ancienne maison Zürcher, Lüthi & Cie.).....	38,973	Sept. 30	100	3008
Dairy goods. Certain named.....	Star Milk Cooler Company.....	38,516	June 24	99	2960
Dairy products. Certain named.....	Anglo-Swiss Condensed Milk Co.....	38,113	Apr. 15	99	658
Dampers, draft-regulators, and smoke-preventing apparatus. Ventilating.....	Aeolypyle Company.....	38,895	Sept. 9	100	2380
Dandruff cure.....	R. Platt.....	38,757	Aug. 12	100	1557
Dandruff cure and hair-tonic.....	R. M. Chang.....	37,616	Jan. 7	98	221
Dentifrice.....	C. H. Stadlinger.....	38,435	June 10	99	2543
Dentine. Saponaceous.....	A. L. Calder.....	39,131	Oct. 28	101	881
Depilatory.....	H. W. Paske.....	38,124	Apr. 15	99	659
Desks and filing-cabinets. Metallic.....	Krag Metallic Construction Co.....	39,214	Nov. 4	101	1126
Desks, school-seats, and opera-chairs. School.....	Superior Manufacturing Company.....	38,777	Aug. 12	100	1559
Detergent compounds used as auxiliaries to soap.....	E. Wright.....	38,628	July 15	100	677
Diamonds.....	D. C. Townsend.....	39,508	Dec. 23	101	2813
Dietetic preparations and admixtures thereof with food products and beverages.....	Deutsche Nahrungsmittel-Werke, Berlin, Ges. mit Besch. Haftg.....	39,598	Dec. 30	101	3100
Disinfectant and preservative.....	Farbenfabriken von Elberfeld Co.....	37,869	Feb. 25	98	1701

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Title.	Name.	No.	Date.	Official Gazette.	
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Disinfectant. Antiseptic detergent.....	Puroline Chemical Company.....	38,761	Aug. 12	100	1558
Disinfectants.....	F. J. Cheney.....	39,247	Nov. 11	101	1365
Disinfectants.....	J. R. Simms.....	39,281	Nov. 18	101	1599
Disinfectants.....	Dr. A. C. Daniels (Incorporated).....	39,398	Dec. 2	101	2070
Disinfectants, and corrosives, antiseptics, and deodorizers.....	Eucryl, Limited.....	37,738	Feb. 4	98	1026
Disinfectants. Domestic.....	Warren Brothers Company.....	38,361	May 27	99	2096
Disinfectants. Liquid.....	Fiske Brothers Refining Co.....	38,358	May 27	99	2096
Disinfectants. Liquid.....	Globe Disinfecting Co.....	39,202	Nov. 4	101	1124
Disinfecting and deodorizing powders, cakes, and liquids.....	Hamilton Disinfectant Chemical Works.....	39,325	Nov. 18	101	1604
Diuretics.....	H. K. Munford Co.....	38,615	July 15	100	676
Diureticum.....	Farbenfabriken of Elberfeld Co.....	39,136	Oct. 28	101	881
Dolls.....	Hamburger & Co.....	37,632	Jan. 14	98	411
Dolls.....	Hamburger & Co.....	38,095	Apr. 15	99	656
Dolls.....	Strobel & Wilken Co.....	38,373	June 3	99	2312
Dolls.....	E. U. Steiner.....	38,704	Aug. 5	100	1322
Dolls.....	E. U. Steiner.....	38,705	Aug. 5	100	1322
Dress-shields.....	I. B. Kleinert Rubber Co.....	37,606	Jan. 7	98	230
Dress-shields.....	Canfield Rubber Co.....	38,499	June 24	99	2958
Dress-shields.....	Canfield Rubber Co.....	38,500	June 24	99	2958
Dress-shields.....	Canfield Rubber Co.....	38,599	July 15	100	674
Dress-shields.....	I. B. Kleinert Rubber Company.....	39,558	Dec. 30	101	3095
Dress-shields having stockinet covering. Rubber.....	Canfield Rubber Co.....	38,706	Aug. 5	100	1322
Dressing and polish.....	Circle Manufacturing Co.....	38,405	June 3	99	2315
Drillings and sheetings.....	G. L. Montgomery.....	38,453	June 17	99	2265
Drillings and sheetings.....	G. L. Montgomery.....	38,506	June 24	99	2959
Drills.....	W. H. Wisner & Co.....	38,283	May 13	99	1618
Drugs. Certain named.....	L. Richardson Drug Co.....	38,025	Apr. 1	99	222
Drugs. Certain named.....	W. J. Schieffelin.....	38,384	June 3	99	2313
Dry goods.....	G. Willis & Co.....	39,471	Dec. 16	101	2560
Dry goods. Certain named.....	F. Ostrander.....	38,101	Apr. 15	99	657
Dry goods. Certain named.....	J. H. Pour.....	38,102	Apr. 15	99	657
Dry goods. Certain named.....	Baronien & Co.....	38,148	Apr. 22	99	855
Dry goods. Certain named.....	Simpson Crawford Co.....	38,185	Apr. 29	99	1164
Dry goods. Certain named.....	Laurel Cotton Mills.....	38,288	May 20	99	1859
Dry goods. Certain named.....	A. O. Meyer.....	38,289	May 20	99	1859
Dry goods. Certain named.....	A. O. Meyer.....	38,290	May 20	99	1859
Dry goods. Certain named.....	A. O. Meyer.....	38,292	May 20	99	1860
Dry goods. Certain named.....	J. A. Hearn & Son.....	39,383	Dec. 2	101	2068
Dust and moisture absorbing compound.....	H. Knecht & Co.....	39,097	Oct. 21	101	656
Dust-bellows.....	A. Kraushaar.....	39,301	Nov. 18	101	1601
Dyeing and tanning assistant.....	W. Beckers.....	38,764	Aug. 12	100	1555
Dyestuffs.....	Farbenfabriken of Elberfeld Co.....	39,428	Dec. 9	101	2278
Dyestuffs. Coal-tar.....	Actien-Gesellschaft für Anilin-Fabrikation.....	38,951	Sept. 30	100	3005
Ear. Instrument and apparatus for treating the.....	Huachison Acoustic Co.....	39,257	Nov. 11	101	1366
Eau-de-cologne, soaps, waters, and lotions for toilet purposes.....	Naamloze Vennootschap Eau de Cologne Fabrik Voorheen J. C. Boldoot.....	37,923	Mar. 11	98	2165
Eggs.....	Swift and Company.....	38,576	July 8	100	445
Electric cells. Primary.....	Portable Electric Power & Light Company.....	38,695	July 29	100	1107
Electric-current regulators and controllers.....	Erie Exploration Company.....	37,700	Jan. 28	98	787
Electric switches.....	Hart Manufacturing Co.....	38,369	May 27	99	2098
Electric switches.....	Hart Mfg. Co.....	38,740	Aug. 5	100	1326
Electrical motor appliances.....	Electrical Devices Co.....	39,419	Dec. 9	101	2277
Enameled ware.....	A. Geisel Manufacturing Company.....	38,313	May 20	99	1862
Engines and hoists. Gas and gasolene.....	Weber Gas and Gasoline Engine Company.....	39,047	Apr. 1	99	224
Engines. Explosive gas.....	J. H. Cogswell.....	39,321	Nov. 18	101	1603
Engines. Gas.....	United States Gasoline Engine Co.....	38,637	July 15	100	678
Engines. Gasolene.....	Davis Gasoline Engine Works Co.....	37,631	Jan. 7	98	222
Exercising devices. Elastic.....	Paraco Rubber Co.....	39,361	Nov. 25	101	1825
Explosives.....	Safety Explosive Company.....	37,943	Mar. 11	98	2167
Explosives.....	Safety Explosive Company.....	38,136	Apr. 15	99	661
Explosives.....	E. Steele.....	38,563	July 1	100	228
Explosives, fuses, and electric batteries. Certain named.....	Lafin & Rand Powder Company.....	38,137	Apr. 15	99	661
Eyeglass and spectacle frames or mountings.....	American Optical Co.....	37,755	Feb. 4	98	1027
Eyeglass and spectacle frames or mountings.....	American Optical Co.....	37,756	Feb. 4	98	1027
Eyeglass and spectacle frames or mountings.....	American Optical Co.....	37,757	Feb. 4	98	1027
Eyeglasses and parts thereof.....	E. Kirstein Sons Co.....	37,702	Jan. 28	98	788
Eyeglasses and spectacles. Nose-guards for.....	Borsch & Co.....	38,417	June 10	99	2541
Fabric. File.....	Salt's Textile Mfg. Co.....	39,119	Oct. 28	101	880
Fabric. File.....	Salt's Textile Mfg. Co.....	39,120	Oct. 28	101	880
Fabrics and yarns. Woven, knit, dyed, or printed.....	Compañía General de Tabacos de Filipinas.....	37,608	Jan. 7	98	220
Fabrics and yarns. Woven, knit, dyed, or printed.....	Compañía General de Tabacos de Filipinas.....	37,609	Jan. 7	98	220
Fabrics and yarns. Woven, knit, dyed, or printed.....	Compañía General de Tabacos de Filipinas.....	37,703	Feb. 4	98	1023
Fabrics. Certain named.....	G. Willis.....	37,947	Mar. 18	98	2356
Fabrics. Certain named.....	G. Willis.....	38,100	Apr. 15	99	656
Fabrics. Certain named.....	G. Willis.....	38,180	Apr. 29	99	1163
Fabrics. Certain named.....	G. Willis.....	38,181	Apr. 29	99	1163
Fabrics. Certain named.....	G. Willis.....	38,182	Apr. 29	99	1163
Fabrics. Certain named.....	G. Willis.....	38,183	Apr. 29	99	1163
Fabrics. Certain named.....	G. Willis.....	38,184	Apr. 29	99	1164
Fabrics. Certain named.....	G. Willis.....	38,223	May 13	99	1611
Fabrics. Certain named.....	G. Willis.....	38,234	May 13	99	1612
Fabrics. Certain named.....	G. Willis.....	38,235	May 13	99	1612
Fabrics. Certain named.....	G. Willis.....	38,236	May 13	99	1612
Fabrics. Certain named.....	G. Willis.....	38,327	May 27	99	2092
Fabrics. Certain named.....	J. A. Hearn & Son.....	39,334	Dec. 2	101	2068
Fabrics. Certain named woven.....	J. A. Hearn & Son.....	39,310	Nov. 15	101	1602
Fabrics. Cotton named.....	Ward, Hanbury & Co.....	38,011	Apr. 1	98	220
Fabrics. Cotton.....	Ward, Hanbury & Co.....	38,226	May 13	99	1610
Fabrics. Cotton.....	Ward, Hanbury & Co.....	38,327	May 13	99	1610



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Fabrics. Cotton.	Ward, Hanbury & Co	38,228	May 13	99	1610
Fabrics. Cotton.	Ward, Hanbury & Co	38,229	May 13	99	1611
Fabrics. Cotton.	Ward, Hanbury & Co	38,230	May 13	99	1611
Fabrics. Cotton.	Ward, Hanbury & Co	38,231	May 13	99	1611
Fabrics. Cotton.	Ward, Hanbury & Co	38,232	May 13	99	1611
Fabrics. Cotton.	Ward, Hanbury & Co	38,233	May 20	99	1860
Fabrics. Cotton.	Elmenhorst & Co	38,328	May 27	99	2093
Fabrics. Cotton.	Elmenhorst & Co	38,329	May 27	99	2093
Fabrics. Cotton.	Elmenhorst & Co	38,330	May 27	99	2093
Fabrics. Cotton.	Ward, Hanbury & Co	38,516	June 24	99	2959
Fabrics. Cotton.	G. Sidenberg & Co	38,983	Oct. 7	101	210
Fabrics. Cotton.	Siemssen & Co	39,385	Dec. 2	101	2065
Fabrics. Cotton.	Siemssen & Co	39,386	Dec. 2	101	2068
Fabrics. Cotton.	Siemssen & Co	39,387	Dec. 2	101	2069
Fabrics. Cotton.	Siemssen & Co	39,388	Dec. 2	101	2069
Fabrics. Cotton.	Siemssen & Co	39,389	Dec. 2	101	2069
Fabrics. Cotton.	Siemssen & Co	39,390	Dec. 2	101	2069
Fabrics, except silk velvets, and cotton, wool, and silk threads and yarns. Wool, cotton, half-wool, silk, and half-silk	A. O. Meyer	38,291	May 20	99	1859
Fabrics. Preparation for finishing textile	H. A. Metz	39,098	Oct. 21	101	656
Fabrics. Textile	Eddystone Manufacturing Company	37,638	Jan. 14	98	411
Fabrics. Woven cotton	A. M. A. Richardson	38,099	Apr. 15	99	656
Face-cream	R. C. Hupp, 2d	37,891	Mar. 4	98	1961
Fasteners, Metallic	Parker Novelty Company	37,667	Jan. 21	98	578
Fats. Cooking	J. C. Tassey	39,492	Dec. 16	101	2562
Feathers and feather products	Swift & Company	39,123	Oct. 28	101	880
Feed and ensilage cutter	Silver Mfg. Co.	38,175	Apr. 22	99	858
Feed. Certain named	L. M. Paschall	39,286	Nov. 18	101	1599
Feed for stock	W. Savage	39,493	Dec. 19	101	2928
Feed. Gluten	National Starch Company	37,813	Feb. 18	98	1478
Feeding stock. Farinaceous compositions for	Star Stock Food Company	39,381	Dec. 2	101	2068
Felt and certain named felt goods	Binghamton Felting Co.	38,913	Sept. 23	100	2768
Felt. Elastic	Sperry & Beale	39,229	Nov. 11	101	1363
Fencing. Wire	P. A. Reid	38,044	Apr. 1	99	223
Fertilizing purposes. Refined nitrate for	Lautaro Nitrate Company	37,871	Feb. 25	98	1702
Figs.	Protapazzi Brothers	39,475	Oct. 21	101	851
Figs	Reiss & Brady	39,568	Dec. 30	101	2996
Filing-cabinets and metallic desks. Metallic	Krag Metallic Construction Co.	39,293	Nov. 18	101	1600
Films, plates, and photographic papers.	Actien-Gesellschaft für Anilin-Fabrikation.	38,950	Sept. 30	100	3005
Filters. Portable and stationary	Celler Filter Werke, Gesellschaft mit Beschränkter Haftung.	37,826	Feb. 18	98	1479
Filters. Water-	Smith & Revell	38,091	Apr. 8	99	441
Finger-rings	Ostby & Barton Company	38,455	June 17	99	2761
Fire-crackers	R. Brauss	39,364	Nov. 25	101	1825
Fire-engines. Steam	American Fire Engine Company	38,496	June 17	99	2762
Fire-extinguisher in powder form	W. H. Scott	38,766	Aug. 12	100	1558
Fire-extinguishers	Haverhill Fire Appliance Co.	39,010	Oct. 7	101	213
Fire-extinguishers. Chemical	Little Giant Fire Extinguisher Co.	38,663	July 22	100	925
Fire-extinguishers. Chemical	Tea Tray Company of Newark, N. J.	38,972	Sept. 30	100	3005
Fire-extinguishers. Chemical	J. B. McDaniel	38,283	Dec. 23	101	2815
Fire-extinguishing compounds and fire-preventives in powder form.	C. A. Daniels	38,138	Apr. 15	99	661
Fire-kindler. Composition	E. C. Sachse	38,893	Sept. 9	100	2379
Fire-pots	Prizer-Painter Stove & Heater Co.	39,215	Nov. 4	101	1126
Fireproof paint or coating.	Chicago Fire Proof Covering Co.	38,765	Aug. 12	100	1558
Fish. Cured or dried.	Davis Bros.	39,073	Oct. 21	101	654
Fish. Cured or dried.	Davis Bros.	39,151	Oct. 28	101	880
Fish-hooks	Henry Milward & Sons	37,911	Mar. 4	98	1963
Fish-hooks	Henry Milward & Sons	37,912	Mar. 4	98	1964
Fish. Preserved	Seacoast Packing Co.	37,808	Feb. 18	98	1477
Fishing-tackle. Certain named	Henry Milward & Sons	38,211	Apr. 29	99	1166
Fishing-tackle. Certain named	Henry Milward & Sons	38,323	May 27	99	2092
Flannels	Lamson Brothers	37,885	Mar. 4	98	1960
Flavoring extract. Concentrated	Corrizzo Extract Company	38,621	July 15	100	676
Flour.	Bill. Bell & Co.	37,644	Jan. 14	98	412
Flour.	Willi. m S. Hills Co.	37,661	Jan. 21	98	578
Flour.	R. K. Allison	38,255	May 13	99	1615
Flour.	S. S. Pierce Co.	38,256	May 13	99	1615
Flour.	G. T. Evans	38,847	Aug. 26	100	1970
Flour.	Ditty & Ordner	38,926	Sept. 23	100	2769
Flour.	N. Story & Co.	38,965	Sept. 30	100	3006
Flour.	N. Story & Co.	38,961	Sept. 30	100	3006
Flour.	P. A. & S. Small	39,083	Oct. 21	101	655
Flour. Wheat	Valier & Spies Milling Co.	37,727	Feb. 4	98	1025
Flour. Wheat	Listman Mill Company	37,809	Feb. 18	98	1478
Flour. Wheat	Listman Mill Company	37,810	Feb. 18	98	1478
Flour. Wheat	B. S. Bull	37,952	Mar. 18	98	2356
Flour. Wheat	Excelsior Water Mill Co.	37,953	Mar. 16	98	2356
Flour. Wheat	H. D. Fallis & Co.	38,038	Apr. 1	99	223
Flour. Wheat	Excelsior Water Mill Co.	38,064	Apr. 8	99	439
Flour. Wheat	F. G. Atkinson	38,308	May 20	99	1861
Flour. Wheat	E. Miró (Sociedad en Comandita)	38,478	June 17	99	2761
Flour. Wheat	H. R. Kearny	38,624	July 15	100	677
Flour. Wheat	H. H. King & Co.	38,962	Sept. 30	100	3006
Flour. Wheat	T. J. Coyle	38,965	Oct. 7	101	211
Flour. Wheat	J. B. A. Kern & Sons	39,134	Oct. 14	101	443
Flour. Wheat	A. J. Toomey	39,081	Oct. 21	101	654
Flour. Wheat	Acme Milling Company	39,082	Oct. 21	101	655
Flour. Wheat	R. S. Bull	39,147	Oct. 28	101	882
Flour. Wheat	New Prague Flouring Mill Company.	39,184	Nov. 4	101	1122
Flour. Wheat	New Prague Flouring Mill Company.	39,185	Nov. 4	101	1122
Flour. Wheat	White Star Mills	39,240	Nov. 11	101	1364
Flour. Wheat	H. W. Peabody & Co.	39,314	Nov. 18	101	1602

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Flour. Wheat.....	C. C. Bovey.....	39,318	Nov. 18	101	1603
Flour. Wheat.....	Washburn Crosby Company.....	39,328	Nov. 25	101	1822
Flour. Wheat.....	Washburn Crosby Company.....	39,329	Nov. 25	101	1823
Flour. Wheat.....	T. Felss.....	39,372	Dec. 2	101	2067
Flour. Wheat.....	J. R. Willeox.....	39,603	Dec. 30	101	3101
Flour. Wheat.....	Wells Flour Milling Company.....	39,604	Dec. 30	101	3101
Flour. Wheat.....	Wells Flour Milling Company.....	39,605	Dec. 30	101	3101
Flour, wheat-food preparations, and wheat breakfast-foods.	J. A. Neal.....	38,722	Aug. 5	100	1824
Wheat.....					
Flour, bread, crackers, and biscuits. Prepared.....	Ward-Mackey Co.....	38,897	Sept. 16	100	3598
Fly-paper. Sticky.....	T. D. Nostrand.....	38,085	Apr. 8	99	441
Food and condition-powders for stock and poultry. Stock and poultry.....	Longwell and Watters.....	39,190	Nov. 4	101	1123
Food. Animal.....	Columbian Stock Food Co.....	37,797	Feb. 11	98	1278
Food. Breakfast.....	S. P. Ayres.....	37,850	Feb. 25	98	1700
Food. Cereal.....	E. G. Vary Food Company.....	37,811	Feb. 18	98	1478
Food. Certain named cereal.....	Emerald Manufacturing Co.....	39,145	Oct. 28	101	882
Food. Certain named prepared.....	Wahl Food Co.....	38,992	Oct. 7	101	211
Food-choppers. Cylindrical.....	Landers, Frary and Clark.....	38,971	Sept. 30	100	3007
Food compound. Certain named health.....	Darmstadt German Food Co.....	38,517	June 24	99	2961
Food derived from albuminoids. Artificial.....	Actien-Gesellschaft für Anilin Fabrikation.....	38,848	Aug. 26	100	1970
Food for horses and cattle. Certain named.....	G. H. Hughes.....	39,382	Dec. 2	101	2068
Food for infants and invalids.....	Mellin's Food Company of North America.....	39,529	Dec. 23	101	2815
Food in tablet form. Fattening.....	J. W. Shults.....	38,431	June 10	99	2542
Food preparations from cereals, vegetables, and legumes.....	Real Food Co.....	38,430	June 10	99	2542
Food. Prepared cereal.....	American Cereal Co.....	38,721	Aug. 5	100	1324
Food. Prepared cereal.....	Fair Haven Food Company.....	38,923	Oct. 7	101	211
Food product. Cereal.....	Fair Haven Food Company.....	38,927	Sept. 23	100	2769
Food product. Cereal.....	Fair Haven Food Company.....	38,928	Sept. 23	100	2769
Food products. Cereal.....	"Force" Food Company.....	39,313	Nov. 18	101	1602
Food products. Cereal.....	Igleheart Brothers.....	39,333	Nov. 25	101	1822
Food products. Cereal.....	H-O (Hornby's Oatmeal) Company.....	39,374	Dec. 2	101	2067
Food products. Cereal, fruit, and nut.....	F. E. Kelsey.....	39,375	Dec. 2	101	2067
Food products. Certain named.....	Siegel-Cooper Co.....	38,161	Apr. 22	99	857
Food products. Certain named.....	Buffalo Cereal Company.....	38,257	May 13	99	1615
Food products. Certain named.....	Warfield-Pratt-Howell Co.....	39,315	Nov. 18	101	1602
Food products. Certain named.....	Berdan & Co.....	39,330	Nov. 25	101	1822
Food products. Certain named.....	Berdan & Co.....	39,331	Nov. 25	101	1822
Food products made from vegetables and cereals.....	S. M. Isbell & Co.....	39,489	Dec. 10	101	2562
Food, relishes, and medicinal preparations. Certain named.....	D. T. Wilson.....	38,553	July 22	100	928
Food. Stock.....	Ox-Beef Company of America.....	38,472	June 17	99	2763
Food. Stock.....	J. W. Petty.....	38,400	June 3	99	2314
Food. Stock.....	Central Stock Food Co.....	38,515	June 24	99	2960
Food. Stock.....	American Cereal Co.....	38,724	Aug. 5	100	1324
Food. Stock.....	Dr. Koch Vegetable Tea Co.....	39,152	Oct. 28	101	883
Foods and relishes. Certain named.....	Aplin & Barrett & Western Counties Canning Co.....	38,074	Apr. 8	99	440
Foods and relishes. Certain named.....	Dodson-Braun Mfg. Co.....	38,395	June 3	99	2314
Foods. Cereal.....	Tryabita Food Company.....	39,080	Oct. 21	101	654
Foods. Certain prepared.....	Mellin's Food Company.....	37,689	Jan. 28	98	786
Foods, crackers, and biscuits. Breakfast.....	Grocers' Specialty Mfg. Co.....	38,302	May 20	99	1861
Foods. Flake cereal.....	Grocers' Specialty Mfg. Co.....	39,565	Dec. 30	101	3096
Foodstuffs. Certain named.....	M. J. Connell.....	39,078	Oct. 21	101	654
Food powder.....	J. W. Manning.....	38,720	Aug. 5	100	1325
Footwear.....	D. B. Baker.....	38,380	June 3	99	2312
Footwear and upper and sole leather. Certain named leather.....	Packard & Field.....	39,275	Nov. 18	101	1598
Footwear. Certain named.....	Parker, Holmes & Co.....	37,680	Jan. 28	98	785
Forms. Bust.....	Henderson & Henderson.....	38,286	May 20	99	1859
Fruit and medicinal and food products of such fruit. Certain named.....	F. A. Robinson.....	38,077	Apr. 8	99	440
Fruit-icing chocolate, candies and ice-cream, and egg color.....	Glen-Armstrong Co.....	38,769	Aug. 12	100	1559
Fruit-juices.....	W. H. Earle.....	38,536	July 1	100	225
Fruits and honey.....	W. S. Hart.....	38,115	Apr. 15	99	659
Fruits and vegetables. Dried and evaporated.....	Bown Bros.....	38,771	Aug. 12	100	1559
Fruits and vegetables. Dried and evaporated.....	Bown Bros.....	39,036	Oct. 14	101	443
Fruits and vegetables. Dried and evaporated.....	Bown Bros.....	39,074	Oct. 21	101	654
Fruits. Certain named dried and evaporated.....	Hancock & Co.....	38,998	Oct. 7	101	212
Fruits. Citrus and deciduous.....	Fancy Fruit Co.....	39,425	Dec. 9	101	2278
Fruits. Dried.....	Aspegren & Co.....	38,959	Sept. 30	100	3006
Fuel Artificial.....	Randall Synthetical Coal Co.....	37,822	Feb. 18	98	1479
Fuel. Combustible agglomerations for use as.....	F. P. Vallet-Rogez.....	37,828	Jan. 7	98	222
Fuel preparations. Certain named.....	G. E. R. Rothenbuecher.....	39,539	Dec. 25	101	2816
Fumigating compounds.....	O. Scholz.....	38,014	Oct. 14	101	441
Fungicides and insecticides.....	Bovker Insecticide Company.....	38,513	June 24	99	2960
Fur goods. Certain named.....	Gordon & Ferguson.....	38,287	May 20	99	1859
Fur neckwear. Certain named.....	L. Baer.....	37,634	Jan. 14	98	411
Furnace materials.....	Morgan Crucible Co.....	38,177	Apr. 22	99	858
Furnaces. Soft-coal.....	F. Fieberger.....	38,447	June 10	99	2544
Furniture and household goods. Certain named.....	Goldman Brothers.....	37,635	Jan. 28	98	787
Furniture and interior woodwork.....	Tobey Furniture Co.....	39,413	Oct. 14	101	2071
Furniture. Office and library.....	Ward-Mackey Co.....	38,833	Aug. 26	100	1972
Furniture-polish. Liquid.....	P. Levi.....	38,736	Aug. 5	100	1325
Furniture springwork.....	Staples & Hanford Co.....	37,880	Feb. 25	98	1702
Furniture springwork.....	Springlock Spring Bed Co.....	37,881	Feb. 25	98	1702
Gage-glasses.....	J. E. Loneragan.....	38,573	Sept. 9	100	2377
Game.....	Cincinnati Game Company.....	38,321	May 27	99	2032
Game apparatus.....	G. W. Griswold & Co.....	39,316	Nov. 18	101	1602
Game-boards.....	W. Fuld.....	37,805	Feb. 18	98	1477
Game-boards.....	E. Mikkelsen.....	38,374	June 3	99	2312
Game. Certain named.....	Ping Pong Pool Company.....	39,588	Dec. 30	101	3059
Game. Parlor.....	W. Fuld.....	37,806	Feb. 18	98	1477
Games.....	A. J. Patterson.....	38,052	Apr. 8	99	438





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Hats.....	J. T. Asch & Sons.....	38,875	Sept. 9	100	2377
Hats.....	W. E. Mallory.....	39,162	Nov. 4	101	1120
Hats.....	C. C. Settle.....	39,354	Nov. 25	101	1825
Hats and caps.....	Marks & Fader.....	39,355	Nov. 25	101	1825
Hats and caps. Soft and stiff felt.....	John E. Stetson Company.....	39,393	Dec. 2	101	2069
Hats. Felt.....	Sanger Bros.....	39,368	Nov. 25	101	1826
Hats. Interior trimmings for ladies' and misses'.....	Roth & Appel.....	38,710	Aug. 5	100	1322
Hats. Straw.....	Townsend Grace Co. of Baltimore City.....	39,469	Dec. 16	101	2560
Head-gear.....	Glyn & Co.....	39,308	Nov. 13	101	1601
Heaters. Oil.....	Nash Regulating Valve Co.....	38,000	Apr. 1	99	219
Heating apparatus and thermal appliances. Certain named.....	Pierce, Butler and Pierce Mfg. Co.....	39,157	Oct. 28	101	883
Heating apparatus. Certain named.....	Sanford Mfg. Co.....	38,494	June 17	99	2766
Heel and sole protectors for boots and shoes.....	F. W. Whitcher & Co.....	38,701	July 29	100	1108
Heels and soles for boots and shoes. Elastic or cushion.....	G. Hoogerwerf.....	38,157	Apr. 22	99	856
Herring.....	Norddeutsches Honig-und Wachswerk von H. Winkelmann.....	38,791	Aug. 19	100	1755
Honey.....	Victor O. Mills Co.....	38,334	May 27	99	2093
Hooks and eyes.....	Macey Hook & Eye Co.....	39,174	Nov. 4	101	1121
Hooks and eyes.....	Victor O. Mills Co.....	38,189	Apr. 29	99	1164
Hooks and eyes.....	W. Ayres & Sons.....	38,239	May 13	99	1612
Horse-blankets.....	Gilliam Mfg. Co.....	38,605	July 15	100	675
Horse-boots.....	Consolidated Hoof Pad Company.....	38,010	Apr. 1	99	220
Horseshoe-pads.....	Independent Master Horseshoers Association.....	38,316	May 20	99	1862
Horseshoes.....	Safety Horse Shoe Co.....	37,942	Mar. 11	98	2167
Horseshoes and horseshoe pads and blanks.....	A. Steinhardt & Bro.....	39,263	Dec. 11	101	1386
Hose-supporters.....	I. B. Kleinert Rubber Co.....	39,551	Dec. 23	101	2817
Hose-supporters.....	Strauss-Cahn Knitting Co.....	37,844	Feb. 25	98	1699
Hose, sweaters, jerseys, gloves, mittens, and caps.....	Pilling & Madeley.....	38,604	July 15	100	675
Hosiery.....	Pilling & Madeley.....	38,379	June 8	99	2312
Hosiery.....	Pilling & Madeley.....	37,635	Jan. 14	98	4111
Hosiery.....	Pilling & Madeley.....	37,777	Feb. 11	98	1276
Hosiery.....	Kapner Bros. & Duga Hosiery Co.....	38,006	Apr. 1	99	220
Hosiery.....	F. E. Mistrot.....	38,151	Apr. 22	99	856
Hosiery.....	Pilling & Madeley.....	38,421	June 10	99	2541
Hosiery.....	G. B. Cramer & Bro.....	38,602	July 15	100	674
Hosiery.....	Parker, Holmes & Co.....	39,168	Nov. 4	101	1120
Hosiery.....	Rambo & Regar.....	39,286	Nov. 18	101	1600
Hosiery and gloves.....	Goodman Bros.....	39,307	Nov. 18	101	1601
Hospital and sick-room appliances. Certain named.....	Meinecke & Co.....	37,776	Feb. 11	98	1276
Hydraulic jacks.....	P. S. Justice & Co.....	38,878	Sept. 9	100	2377
Hygienic cream or paste for the skin.....	Bossard-Lemaire.....	39,265	Nov. 11	101	1366
Ice-cream and candies.....	Schell & Co.....	37,741	Feb. 4	98	1026
Ice-cream freezers.....	Dana & Co.....	38,998	Oct. 7	101	212
Ice-cream freezers.....	Savin Ice Pad Company.....	38,783	Aug. 12	100	1560
Ice-pads.....	Savin Ice Pad Company.....	38,869	Sept. 2	100	2172
Ice-pads.....	Savin Ice Pad Company.....	39,063	Oct. 21	101	653
Ice-pads.....	Savin Ice Pad Company.....	39,064	Oct. 21	101	653
Incandescent mantles.....	W. M. Taylor.....	39,065	Oct. 21	101	653
Incandescent mantles.....	Peerless Gas Light Co.....	38,088	Apr. 8	99	441
Indexes, books, and bindings.....	J. E. Connolly.....	39,542	Dec. 23	101	2816
Indian manufacture. Certain named goods and wares of.....	B. T. B. Hyde.....	39,423	Dec. 9	101	2277
Ink for finishing edges and heels of boots and shoes.....	S. A. White Co.....	39,122	Oct. 28	101	880
Inks and writing fluids.....	Diamond Ink Company.....	38,690	July 29	100	1106
Inks. Printing.....	S. Ullman Co.....	37,957	Mar. 18	98	2357
Inks. Writing.....	Carter's Ink Co.....	38,680	July 29	100	1106
Insect-extermiators in liquid form.....	R. B. Norwood.....	38,797	Aug. 19	100	1756
Insect-powders.....	W. F. Steinmetz.....	37,784	Feb. 11	98	1277
Insecticides.....	I. F. Orton.....	38,023	Apr. 1	99	321
Insoles.....	D. M. Steward.....	38,731	Aug. 5	100	1325
Insulating material.....	American Hard Rubber Co.....	39,280	Nov. 18	101	1599
Insulating material.....	Minerallac Company.....	38,839	Aug. 26	100	1969
Insulating materials.....	American Circular Loom Company.....	38,554	July 1	100	227
Insulating tubes or tubular coverings for electric wires.....	Mica Insulator Co.....	38,633	July 15	100	673
Insulators. Electrical.....	Mica Insulator Co.....	39,362	Nov. 25	101	1825
Insulators. Electrical.....	Sills-Eddy Mica Co.....	38,234	May 13	99	1618
Insulators. Electrical.....	H. K. Mulford Co.....	39,410	Dec. 2	101	2071
Insulators. Varnished electrical.....	Mayer & Loewenstein.....	39,411	Dec. 2	101	2071
Intestinal astringents.....	F. Pers.....	39,449	Dec. 9	101	2280
Japan.....	Arnold B. Clover Co.....	39,443	Dec. 9	101	2280
Jewelry.....	J. Solinger & Co.....	38,616	July 15	100	676
Jewelry. Certain named.....	Whitman & Barnes Manufacturing Co.....	37,944	Mar. 11	98	2168
Jewelry. Gold-plated and cheap grades of.....	H. Curley & Brother.....	37,996	Apr. 1	99	219
Knife-sections.....	J. H. Boker & Co.....	38,324	May 27	99	2092
Knives. Pocket.....	Sheboygan Knitting Co.....	37,770	Feb. 11	98	1276
Knives, razors, and scissors. Pocket.....	Robert Reis & Co.....	39,583	Dec. 30	101	3098
Knit goods. Certain named.....	Yale & Towne Manufacturing Company.....	38,976	Oct. 7	101	209
Knit underwear and hosiery.....	G. B. Mayberry.....	38,087	Apr. 8	99	441
Knobs and knob-spindles.....	Boston Bottle Wiring & Labeling Co.....	39,169	Nov. 4	101	1120
La grippe and kidney cure.....	C. M. Mitchell.....	38,665	July 29	100	1104
Label applying or pasting machines.....	New Era Lustre Company.....	37,693	Jan. 28	98	787
Lacings.....	Friedlaender & Oliven.....	38,350	May 27	99	2095
Lacquers. Metal.....	Lippincott Glass Co.....	38,214	Apr. 29	99	1166
Lamp-chimneys.....	Kauffeld Glass Co.....	38,158	Apr. 22	99	856
Lamp-chimneys.....	Electro Lamp Co.....	38,404	June 3	99	2315
Lamp-chimneys.....	Schott & Gen.....	38,408	June 3	99	2315
Lamp for burning acetylene gas.....	Schott & Gen.....	39,420	Dec. 9	101	2277
Lamp-glasses.....	Schott & Gen.....	39,421	Dec. 9	101	2277
Lamp-shades.....	Schott & Gen.....	38,937	Sept. 23	100	2770
		39,205	Nov. 4	101	1121
		39,207	Nov. 4	101	1125



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Title.	Name.	No.	Date.	Official Gazette.	
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Lamp shades and reflectors	O. A. Mygatt	37,766	Feb. 4	98	1028
Lamps and lanterns. Portable electric and oil	20th Century M'fg Co	38,696	July 29	100	1107
Lamps. Hydrocarbon-vapor	Sun Vapor Street Light Co	38,857	Aug. 26	100	1971
Lamps. Incandescent electric	Bryan Marsh Company	38,853	July 29	100	1107
Lamps. Incandescent electric	Bryan Marsh Company	38,698	July 29	100	1107
Lamps. Incandescent electric	Buckeye Electric Co	38,779	Aug. 12	100	1560
Lamps. Incandescent electric	Columbia Incandescent Lamp Co	38,780	Aug. 12	100	1560
Lamps. Incandescent electric	Fostoria Inc. Lamp Co	38,781	Aug. 12	100	1560
Lamps. Incandescent electric	Sunbeam Inc. Lamp Co	38,782	Aug. 12	100	1560
Lamps. Incandescent electric	National Electric Lamp Co	38,825	Aug. 19	100	1760
Lampblack. Dry	L. Martin Company	38,888	Sept. 9	100	2379
Lap-coverings. Certain named	T. B. Mayfield & Co.	39,593	Dec. 30	101	3100
Lard	T. L. Boyd	38,933	Sept. 23	100	2770
Lard and lard compound	Armour & Company	38,039	Apr. 1	99	223
Lard and lard compounds	Cudahy Packing Co	39,338	Nov. 25	101	1823
Lard compound	Southern Cotton Oil Co	31,065	Apr. 8	99	439
Lard compound	Southern Cotton Oil Co	38,066	Apr. 8	99	439
Lard, sausages, bacon, and ribs	John P. Squier & Company	39,182	Nov. 4	101	1122
Laundry appliances. Certain named	American Wringer Co	38,502	Dec. 16	101	2563
Laundry appliances. Certain named	American Wringer Co	39,503	Dec. 16	101	2563
Laundry appliances. Certain named	American Wringer Co	39,504	Dec. 16	101	2563
Laundry cream	L. Lochman, Jr	38,886	Sept. 9	100	2379
Laundry-machines. Certain named	American Wringer Co	39,501	Dec. 16	101	2563
Laxative	Pascoe Medicine Co	39,345	Nov. 25	101	1824
Laxative and diuretic compound	A. H. Still	37,928	Mar. 11	98	2165
Laxatives. Certain named	Chester Kent & Co.	38,965	Feb. 18	98	1701
Laxatives. Liquid	W. D. Rees	37,929	Mar. 11	98	2166
Leather	A. C. Lawrence Leather Co	37,682	Jan. 28	98	785
Leather	A. C. Lawrence Leather Co	37,683	Jan. 28	98	785
Leather	H. L. Rice	38,333	May 27	99	2093
Leather	Beggs & Cobb	38,795	Aug. 19	100	1756
Leather-dressing	L. C. Bliss & Co	38,204	Apr. 29	99	1166
Leather. Enameled	C. B. Rathbun	37,632	Jan. 14	98	411
Leather footwears. Certain named	C. B. Bliss & Co	38,718	Aug. 5	100	1323
Leather for making boots and shoes	Wilder & Company	38,840	Aug. 26	100	1969
Leather for shoes, harness, and gloves	A. Trostel & Sons	39,236	Nov. 11	101	1363
Leather goods, trimmings, and hardware. Certain named	G. Suarez & Co.	38,877	Sept. 9	100	2377
Leather. Imitation	Broderick & Nearey	37,715	Feb. 4	98	1024
Leather-like and waterproof fabrics and certain chemical preparations	New York Leather & Paint Co.	38,219	May 6	99	1379
Leather. Patent and enameled	H. Smith	37,714	Feb. 4	98	1024
Leather. Patent and enameled	Hugh Smith	37,848	Feb. 25	98	1700
Leather preservative	J. J. Henderson	38,258	May 13	99	1615
Leather-preservatives	J. W. Cole & Co	39,156	Oct. 28	101	883
Lenses	Chinn-Beretta Optical Co	37,759	Feb. 4	98	1027
Lenses	T. Mundorff	39,071	Oct. 21	101	653
Lenses. Optical	T. Mundorff	38,874	Sept. 9	100	2377
Lifting-jacks. Hand	Cover & Company	38,874	Sept. 9	100	2377
Lime, plaster, and cement	Toledo Builders' Supply Co	38,365	May 27	99	2097
Linen and cotton goods. Certain named	Rey Ainé	39,298	Nov. 18	101	1600
Liniment	Empire Liniment M'fg Co	37,982	Mar. 25	98	2581
Liniment	A. G. Groblewski	38,354	May 27	99	2096
Liniment	P. Satalia	38,355	May 27	99	2096
Liniment	A. G. Groblewski	38,391	June 3	99	2314
Liniment, salve, and ointments	Geber Drug Company of Baltimore City	37,663	Jan. 21	98	578
Liniments	R. E. Shafto	38,923	Sept. 23	100	2769
Linings	Burton Bros. & Co	38,834	Aug. 26	100	1968
Linings	Burton Bros. & Co	38,835	Aug. 26	100	1968
Liqueurs	Nuyens & Co	39,527	Dec. 23	101	2815
Liver stimulant and tonic	E. A. Rowinski	39,351	Nov. 25	101	1824
Lotions, cosmetics, and tonics for external application	A. G. Reilly	39,194	Nov. 4	101	1124
Lotions for cleaning and treating the scalp	M. A. Ginner	39,596	Dec. 30	101	3100
Lubricant	W. F. Downs	38,588	July 8	100	446
Lubricants	F. C. Drew	39,444	Dec. 9	101	2280
Lubricants and lubricating compounds	Ironsides Company	39,155	Oct. 28	101	883
Lubricants. Certain named	Ironsides Company	39,046	Oct. 14	101	444
Lubricants. Certain named	Ironsides Company	39,047	Oct. 14	101	444
Lubricants. Certain named	Ironsides Company	39,289	Nov. 18	101	1560
Lubricants. Certain named	Ironsides Company	39,290	Nov. 18	101	1600
Lubricants. Certain named	Ironsides Company	39,291	Nov. 18	101	1600
Lures. Artificial	G. H. Burtis	37,831	Feb. 18	98	1479
Machines. Certain named	Baush Machine Tool Company	38,370	May 27	99	2098
Magazines	Reform Club	38,179	Apr. 29	99	1163
Magazines	A. Walkley	39,511	Dec. 23	101	2813
Malt extract	Malt Diastase Co	39,437	Dec. 9	101	2279
Malt extract, beer, ale, and porter	Duluth Brewing & Malting Co	37,977	Mar. 25	98	2581
Malt. Peptonized extract of	Siegel-Cooper Co	38,845	Aug. 26	100	1970
Malt preparations	L. Hoff	38,035	Apr. 1	99	222
Malted oats and malted wheat	Malted Food Co	38,194	Apr. 29	99	1165
Marmalade	Coronation Marmalade Company	38,681	July 29	100	1106
Massaging inner parts of the ear. Apparatus for	Akophone Manufacturing Co	39,258	Nov. 11	101	1366
Massaging the ear. Apparatus for	Hutchinson Acoustic Company	39,417	Dec. 9	101	2277
Match-safes	C. C. Fries	38,977	June 17	99	2779
Matches	L. Hiffer Co	37,938	Mar. 11	98	2167
Matches	C. Weiland	38,402	June 3	99	2315
Matches	Helio Match Company	39,575	Dec. 30	101	3097
Matches. Safety-	Jönköpings Tändsticksfabriks Aktie Bolag	38,203	Apr. 29	99	1166
Meal and flour of corn, wheat, oats, and other cereals	Andersen & Darrow	38,477	June 17	99	2764
Meal, including gluten-meal	National Starch Company	37,814	Feb. 18	98	1478
Meats. Cured	Jacob Dold Packing Company	39,490	Dec. 16	101	2562
Meats. Cured	Jacob Dold Packing Company	39,491	Dec. 16	101	2562
Medical composition for external application	J. Schwarz	37,866	Feb. 25	98	1701
Medical compound for certain named diseases	G. A. Knox	38,080	Apr. 8	99	441
Medical compound for certain named diseases. Liquid	J. O. A. Côté	39,138	Oct. 28	101	881

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Medical compound for surgical, gynecological, and obstetrical use.	J. F. Christian.....	38,351	May 27	99	2095
Medical compound for treatment of nervous diseases and as a tissue builder and general tonic.	J. H. Kastle .....	39,005	Oct. 7	101	213
Medical compound for treatment of obesity	R. D. Sleight .....	38,985	June 3	99	2313
Medical compounds. Certain named	Eucryl .....	37,745	Feb. 4	93	1026
Medical compounds. Certain named	C. W. De Laney .....	38,163	Apr. 22	98	857
Medical compounds. Certain named	A. V. M. Sprague .....	38,585	July 8	100	446
Medical compounds. Certain named	E. T. Richards .....	38,749	Aug. 12	100	1556
Medical compounds. Certain named	G. R. White .....	38,739	Aug. 19	100	1756
Medical compounds. Certain named	Farbwerke, vorm. Meister, Lucius & Brüning .....	38,800	Aug. 19	100	1757
Medical compounds for certain named diseases	International Drug & Agency Co .....	39,594	Dec. 30	101	3100
Medical compounds for cure of certain named diseases	S. F. Matthews .....	39,579	Dec. 30	101	3098
Medical compounds used for skin diseases	J. D. McCann Company .....	38,756	Aug. 12	100	1557
Medical effervescent preparation	W. B. Hopkins .....	39,482	Dec. 16	101	2561
Medical preparation made from herbs	O. Porsch Chemical Company .....	38,386	June 3	99	2313
Medical preparations for wounds and certain named diseases	Chemische Fabrik Rhenania .....	38,734	Feb. 4	98	1026
Medical tablets as a laxative or cathartic	A. J. Young .....	37,743	Feb. 4	98	1026
Medical tablets for rheumatism, gout, and allied diseases	R. C. Hinz .....	38,125	Apr. 15	99	659
Medical tonic	A. J. Hill .....	38,882	Sept. 9	100	2378
Medicaments to wounds or orifices. Devices for applying	G. Schirmer .....	38,853	Aug. 26	100	1971
Medicated bathing compounds	J. Molinét .....	38,248	May 13	99	1614
Medicated-cotton toothache cures	Seana Mfg. Co. ....	37,892	Mar. 4	98	1961
Medicated soap	Willard Chemical Co. ....	37,890	Mar. 4	98	1961
Medicated tablets for the cure of certain named diseases	J. D. Glass .....	38,297	May 20	99	1860
Mediators, inhalers, respirators, and similar surgical appliances.	E. J. Worst .....	37,666	Jan. 21	98	578
Medicinal and chemical preparations for prevention and cure of diseases.	H. K. Wampole & Co .....	39,521	Dec. 23	101	2814
Medicinal compound. Certain named	J. Hofmeier .....	38,544	July 1	100	226
Medicinal compound for internal and external use. Liquid	F. Buono .....	39,089	Oct. 21	101	655
Medicinal compound for restoring hair	National Haircome Co .....	38,549	July 1	99	441
Medicinal compound in powder form put up in gelatinous capsules.	J. D. Henderson Company .....	38,079	Apr. 8	98	441
Medicinal compound. Tonic	W. R. Krembs .....	38,916	Sept. 23	100	2768
Medicinal herb compound	W. H. Eldred .....	38,466	June 17	99	2762
Medicinal oils	M. R. Zaegel .....	38,082	Apr. 8	99	441
Medicinal plasters	Raymond & Co. ....	38,727	Aug. 5	100	1324
Medicinal preparation. Certain named	Dominiac Drug Company .....	37,615	Jan. 7	98	321
Medicinal preparation for cure of certain named diseases	E. M. Lintner .....	39,399	Dec. 2	101	2070
Medicinal preparation for cure of varicose veins	Varco Limited .....	39,019	Oct. 14	101	441
Medicinal preparation possessing tonic and laxative properties.	G. R. White .....	39,092	Oct. 21	101	656
Medicinal preparation possessing tonic and laxative properties.	G. R. White .....	39,093	Oct. 21	101	656
Medicinal preparations. Certain named	Chelf Chemical Co .....	38,467	June 17	99	2762
Medicinal preparations. Certain named	D. Flynn .....	39,197	Nov. 4	101	1124
Medicinal preparations containing malt extract	Maltine Company .....	37,793	Feb. 11	98	1378
Medicinal preparations for asthma, catarrh, and hay-fever	T. & A. Chemical Co .....	38,030	Apr. 1	99	222
Medicinal preparations for the cure of certain named diseases.	Dr. Foote Chemical Co. ....	38,471	June 17	99	2763
Medicinal preparations having digestive and nutritive properties.	Reed & Carnrick .....	38,922	Sept. 23	100	2769
Medicinal preparations in liquid and tablet form for cure of certain named diseases.	S. H. Winstead Medicine Co. ....	38,609	July 15	100	675
Medicinal purposes. Oil for	Eskemo Chemical Company .....	38,249	May 13	99	1614
Medicinal purposes. Silver vitellin used for	A. C. Barnes .....	39,326	Nov. 18	101	1604
Medicinal remedy. Certain named	Kress & Owen Company .....	38,081	Apr. 8	99	441
Medicinal substances. Certain named.	J. W. Gedney .....	38,958	Sept. 30	100	3006
Medicinal tablets	C. C. Diggs .....	38,027	Apr. 1	99	222
Medicinal tablets	Egyptian Manufacturing Co. ....	38,028	Apr. 1	99	222
Medicinal tablets for certain named diseases	Piso Company .....	39,346	Nov. 25	101	1824
Medicinal wine	A. Toussaint & Co. ....	39,402	Dec. 2	101	2070
Medicine. Blood	C. W. McKee & Company .....	37,749	Feb. 4	98	1026
Medicine. Certain named	W. C. Alpers .....	37,641	Jan. 14	98	411
Medicine. Certain named	Peacock Chemical Co .....	37,862	Feb. 25	98	101
Medicine. Certain named	Allen & Haskins .....	37,905	Mar. 18	98	2387
Medicine. Certain named	Bryan Bros. Cand. Co. ....	39,253	Nov. 11	101	1365
Medicine. Certain named	R. F. Celeska .....	39,481	Dec. 16	101	2561
Medicine. Cough	Cough Checker Manufacturing Company .....	37,894	Mar. 4	98	1961
Medicine for blood diseases. Liquid	J. Leroux .....	38,750	Aug. 12	100	1556
Medicine for certain named ailments	A. Fennings .....	38,920	Sept. 23	100	2768
Medicine for certain named diseases	C. W. Bissau .....	39,011	Aug. 15	100	1324
Medicine for certain named diseases	W. F. Glenn .....	39,255	Nov. 11	101	1366
Medicine for certain named diseases	F. G. Passino .....	39,463	Dec. 9	101	2282
Medicine for certain named diseases	Swift Specific Co .....	39,578	Dec. 30	101	3098
Medicine for coughs and colds. Liquid	Dill Medicine Company .....	39,137	Oct. 28	101	881
Medicine for coughs, colds, and affections of respiratory organs.	R. B. Foster & Bro. ....	39,254	Nov. 11	101	1365
Medicine for cure of rheumatism, neuralgia, and headache.	J. C. Knipe & Son .....	38,245	May 13	99	1613
Medicine for curing corns, calluses, and warts.	J. J. Lepper .....	38,127	Apr. 15	99	660
Medicine for diseases of the nervous system	Smith, Kline & French Co .....	39,522	Dec. 23	101	2814
Medicine for either internal or external use	C. J. Brainard .....	39,090	Oct. 21	101	656
Medicine for inflammatory diseases	C. S. Moore .....	38,470	June 17	99	2763
Medicine for rheumatic and neuralgic pains. Liquid	Dill Medicine Company .....	39,136	Oct. 28	101	881
Medicine for the blood, kidneys, and liver	C. W. Johnson .....	38,648	July 22	100	927
Medicine having tonic and laxative properties.	Smith, Kline & French Co .....	39,051	Oct. 21	101	656
Medicine in capsule form for the cure of certain named diseases.	R. McFarland .....	38,126	Apr. 15	99	659
Medicine in liquid form for blood diseases	J. Leroux .....	39,198	Nov. 4	101	1124
Medicine. Laxative	Dr. Williams Medicine Co. ....	39,018	Oct. 14	101	441
Medicine. Tonic	McKinley Tonic Medicine Company .....	38,752	Aug. 12	100	1557
Medicine. Tonic	Biogene Manufacturing Co .....	39,002	Oct. 7	101	317
Medicines and disinfectants. Certain named	Dr. A. C. Daniels, (Incorporated) .....	39,597	Dec. 30	101	3100



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Title.	Name.	No.	Date.	Official Gazette.	
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Medicines and medicinal plasters. Certain named	A. Seidler	38,582	July 8	100	445
Medicines. Certain named proprietary	H. Law, H. E. Law	39,276	Nov. 18	101	1598
Medicines. Cough	Tar-Ben Medicine Co.	37,861	Feb. 25	98	1701
Medicines for certain named diseases	Powers Manufacturing Company	38,048	Apr. 1	98	234
Medicines for certain named diseases	A. M. Townsend, Inc.	39,278	Nov. 18	101	1598
Medicines for certain named diseases. Proprietary	F. Stevens	38,438	June 10	99	2543
Medicines for cure of pulmonary troubles and diseases of the blood.	Halls Chronic Cough Cure Co.	38,921	Sept. 23	100	2769
Medicines for treatment of the blood	W. M. Hoshaw	38,543	July 1	100	226
Medicines. Laxative	Prunetta Pharmacal Co.	38,502	Aug. 19	100	1757
Medicines. Proprietary	J. J. Ledwith	37,786	Feb. 11	98	1277
Medicines. Proprietary	Herbogen Medical Co.	37,787	Feb. 11	98	1277
Medicines. Proprietary	Herbogen Medical Co.	38,029	Apr. 1	99	222
Medicines. Tonic	Larimore & Co.	39,139	Oct. 28	101	882
Mercury preparations	Chemische Fabrik auf Actien, vorm. E. Schering.	37,786	Feb. 4	98	1025
Metal. Antifriction	Magnus Metal Company	38,661	July 22	100	928
Metal articles. Enamel-coated	Novelty Stamping Co.	37,681	Mar. 18	98	2356
Metal. Babbitt	M. J. Rogers	38,043	Apr. 1	99	223
Metal. Babbitt	Ajax Metal Company	39,544	Dec. 23	101	2816
Metal. Babbitt	Ajax Metal Company	39,545	Dec. 23	101	2817
Metal. Certain named	Riverside Metal Company	37,994	Mar. 25	98	2582
Metal compounds for certain named purposes	Allgemeine Thermit-Gesellschaft M. B. H.	39,543	Dec. 23	101	2816
Metal pipes. Flexible	Metallschlauchfabrik Pförzheim, (vorm. Hch. Witzmann,) G. M. B. H.	37,825	Feb. 18	98	1479
Metal-polish	A. Baldwin & Co.	38,489	June 17	99	2765
Metal-polish	C. M. Kimball	38,767	Aug. 12	100	1558
Metal sheets. Oxidized	Allegheny Steel & Iron Company	39,051	Oct. 14	101	444
Metal. White or Babbitt	Runskool Metal Co.	37,940	Mar. 11	98	2167
Metals. Babbitt, bronze, and brass	D. C. Sanford	39,213	Nov. 4	101	1245
Metalware. Electroplated	W. J. Rogers	37,789	Mar. 11	98	2167
Metalware. Enameled	New England Enameling Co.	39,547	Dec. 23	101	2817
Milk and milk products.	Bernese Alps Milk Co.	38,965	Sept. 30	100	3004
Milk. Condensed	Helvetia Milk Condensing Co.	38,112	Apr. 15	99	658
Milk in powdered form. Condensed	Casein Company of America	38,622	July 15	100	676
Milk. Modified	C. H. Pattison	38,720	Aug. 5	100	1324
Milk or milk-preserve. Condensed	A. Sauer	37,645	Jan. 14	98	412
Millinery goods. Certain named	Garcia Brothers & Company	37,653	Jan. 21	98	577
Mineral-bearing sands and ores	J. M. Chapman	38,492	June 17	99	2765
Mineral substances used in manufactures. Certain named raw or partly-prepared	Magnesia Syndicate	38,441	June 10	99	2543
Mineral water	Abilen A Company	38,117	Apr. 15	99	659
Mineral water	Aachener Thermal-Wasser (Kaiserbrunnen) Actien-Gesellschaft.	38,220	May 6	99	1379
Mineral water	Aachener Thermal-Wasser (Kaiserbrunnen) Actien-Gesellschaft.	38,221	May 6	99	1379
Mineral water	E. Dennison	38,251	May 13	99	1614
Mineral water	H. L. Williams & Co.	38,999	Oct. 7	101	212
Mineral water and carbonated beverages. Natural	J. H. Peterson	38,474	June 17	99	2763
Mineral waters	Winona Mineral Water Company	38,301	May 20	99	1861
Minerals, metals, and metalloids and chemicals produced therefrom	Gironés & Henrich.	39,100	Oct. 21	101	656
Mixing devices. Certain named	National Manufacturing & Supply Co.	39,408	Dec. 2	101	2071
Mohair, alpaca, and luster-wool linings	E. G. Williams & Co.	38,788	Aug. 19	100	1755
Mosquito and fly repellents and insect-exterminators	Presto Manufacturing Company	38,359	May 27	99	2096
Moths. Preparation to destroy	I. B. Rosencrantz	38,202	Apr. 29	99	1166
Mouth, nose, and throat wash	C. E. Leigh	39,518	Dec. 23	101	2814
Mouth-wash	Tilt-Laboratorium, Carol Bernardi Nachfolger.	39,458	Dec. 9	101	2281
Mowers, reapers, binders, and parts thereof	Johnston Harvester Co.	38,638	July 15	100	673
Mowing-machine knife-sections	Whitman & Barnes Manufacturing Co.	39,584	Dec. 30	101	3099
Mowing-machines	Hopkins Patent Company	38,318	May 20	99	1862
Mush. Prepared	A. Hancock	39,596	Dec. 30	101	3096
Music-boxes	Regina Music Box Co.	38,243	May 13	99	1613
Music-boxes	Regina Music Box Co.	38,244	May 13	99	1613
Music. Sheet	Howley, Haviland & Dresser	37,684	Jan. 28	98	786
Music. Sheet	Howley, Haviland & Dresser	37,998	Apr. 1	99	219
Musical instruments and parts thereof. Automatic playing attachments for	Playano Manufacturing Co.	38,443	June 10	99	2543
Mustard and mustard-sauce	J. & J. Colman	39,237	Nov. 11	101	1364
Neckbands and teething-bands	Amulet Chemical Co.	37,586	Jan. 28	98	1286
Neckties	I. C. Cohn & Co.	39,235	Oct. 23	101	2813
Neckwear	J. & J. Cash	37,919	Mar. 11	98	2164
Neckwear and Baratheia fabric thereof	M. W. Lowenstein	39,391	Dec. 2	101	2069
Needle for vaccinating animals	O. Thomas	38,464	June 17	99	2762
Needles and pins. Certain named	Neuss Gebrüder	39,557	Dec. 30	101	3095
Oats. Rolled	A. Forrest	39,373	Dec. 2	101	2067
Oil and citronella-oil. China-wood	E. Hill's Son & Co.	38,461	June 17	99	2765
Oil cloths. Certain named	Standard Table Oil Cloth Company	39,235	Nov. 18	101	1900
Oil. Cod-liv r	F. W. Ward	37,792	Feb. 11	98	1278
Oil. Cotton-seed	J. C. Tassey	39,239	Nov. 11	101	1364
Oil for cooking purposes. Preparation of	J. C. Tassey	39,238	Nov. 11	101	1364
Oil for painters' use. Linseed-	Woodhouse Excelsior Manufacturing Company.	39,204	Mar. 4	98	1063
Oil. Fuel and illuminating	Big Four Oil Company	37,905	Mar. 4	98	1063
Oil. Lubricating	Borne Strymer Company	37,733	Feb. 4	98	1027
Oil. Lubricating	Borne Strymer Company	39,245	Nov. 11	101	1365
Oil. Lubricating	Galena Oil Company	39,536	Dec. 23	101	2816
Oil. Lubricating	Galena-Signal Oil Co.	39,537	Dec. 23	101	2816
Oil. Machine	C. Shenkberg Co.	38,521	June 24	99	2961
Oil. Oleo	N. Ward Company	39,498	Dec. 16	101	2563
Oil. Olive	Weaver & Sterry.	39,150	Oct. 28	101	883

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Oil. Rosin-	S. P. Shottor Company	38,733	Aug. 5	100	1325
Oils. Certain named	Ernst Schliemann's Oelwerke, Gesellschaft mit Beschränkter Haftung.	33,083	Apr. 8	99	441
Oils. Certain named lubricating-	C. Shenkberg Co	38,522	June 24	99	2961
Oils. Cotton-seed	Southern Cotton Oil Co	39,438	Dec. 9	101	2278
Oils. Cotton-seed	Southern Cotton Oil Co	39,434	Dec. 9	101	2279
Oils. Cotton-seed	Southern Cotton Oil Co	39,496	Dec. 16	101	2563
Oils. Cotton-seed	Southern Cotton Oil Co	39,497	Dec. 16	101	3563
Oils. Illuminating-	Galena-Signal Oil Company	38,630	July 15	100	677
Oils. Illuminating-	Philadelphia Chemical Co	38,452	Sept. 30	100	3005
Oils. Illuminating-	Anglo-American Oil Company	39,095	Oct. 21	101	656
Oils. Illuminating-	Anglo-American Oil Company	39,096	Oct. 21	101	656
Oils. Illuminating-	Anglo-American Oil Company	39,193	Nov. 4	101	1123
Oils. Lubricating-	Valvoline Oil Company	37,754	Feb. 4	98	1027
Oils. Lubricating-	Galena-Signal Oil Company	38,589	July 8	100	446
Oils. Lubricating-	Galena-Signal Oil Company	38,590	July 8	100	446
Oils. Lubricating-	Galena-Signal Oil Company	38,581	July 15	100	277
Oils. Lubricating-	Galena-Signal Oil Company	38,632	July 15	100	677
Oils. Machine	C. Shenkberg Co	39,191	Nov. 4	101	1123
Oils. Paint	J. B. Hall	37,903	Mar. 11	98	1962
Oils. Petroleum illuminating and lubricating.	Great Western Oil Co	38,308	May 20	99	1861
Ointment	C. Meichel	38,673	July 29	100	1106
Ointment	H. & C. Compound Ointment Co	39,016	Oct. 14	100	441
Ointment for aches and pains	H. M. McGuire	38,518	July 15	100	676
Ointment for the skin	Laxakola Company	38,646	July 22	100	926
Ointment for treating rectal and skin diseases	G. B. Ashworth	38,755	Aug. 12	100	1557
Ointment or salve	E. Schmidt & Co	39,006	Oct. 7	101	213
Ointment. Toilet.	W. S. Heiges	38,482	June 17	99	2764
Olives. Pickled	Alart and McGuire	37,729	Feb. 4	98	1025
Optical goods. Certain named	H. Kahn	37,758	Feb. 4	98	1027
Pre-creasing mills	S. Y. Trease	38,559	July 1	100	227
Overalls and coats	American Manufacturing Co	38,058	Apr. 8	99	438
Overalls and shirts and jumpers to be worn in connection with overalls.	J. E. Adams	38,905	Sept. 23	100	2767
Overalls, coats, and pants	J. H. Wedemeyer	38,833	Aug. 26	100	1968
Overcoats and suits. Men's.	Ryan & McMahon	39,166	Nov. 4	101	1120
Overshirts.	Oppenheim, Oberndorf & Co	37,655	Jan. 21	98	377
Packing-house products. Certain named	Swift and Company	38,396	June 3	99	2314
Packing-house products. Certain named	Swift and Company	38,397	June 3	99	2314
Packing-house products. Certain named	Swift and Company	38,398	June 3	99	2314
Packing-house products. Certain named	Swift and Company	38,399	June 3	99	2314
Packing-house products. Certain named	Swift and Company	38,480	June 17	99	2764
Packing-house products. Certain named	Libby, McNeill & Libby	38,337	July 1	100	225
Packing-house products. Certain named	Swift and Company	38,538	July 1	100	225
Packing-house products. Certain named	Schwarzschild & Sulzberger Company.	38,929	Sept. 23	100	2769
Packing-house products. Certain named	Schwarzschild & Sulzberger Company.	38,930	Sept. 23	100	2770
Packing-house products. Certain named	Schwarzschild & Sulzberger Company.	38,931	Sept. 23	100	2770
Packing-house products. Certain named	Schwarzschild & Sulzberger Company.	38,932	Sept. 23	100	2770
Packings. Plastic metallic.	Hileman-James Co	38,948	Sept. 30	100	3005
Packings. Plastic metallic.	Hileman-James Co	38,949	Sept. 30	100	3005
Paint	Seaboard Paint Company	37,902	Mar. 4	98	1962
Paint	Ohio Varnish Company	39,102	Oct. 21	101	657
Paint and white lead.	Hammar Brothers White Lead Company.	38,132	Apr. 15	99	660
Paint. Cement.	G. & T. Earle	38,899	Sept. 9	100	2379
Paint for galvanized iron	Goheen Mfg. Co	38,364	May 27	99	2097
Paint for metal surfaces.	Chemical Paint Manufacturing Co	38,490	June 17	99	2765
Paint in liquid form. Roof-	A. F. Hawthorn	38,555	July 1	100	227
Paint, paint-oil, and varnish	C. P. Goodyear, Sr	38,891	Sept. 9	100	2379
Paint-powder	W. A. Hall	37,993	Mar. 25	98	2582
Paint. Roof and btm.	Haley & Tener	39,103	Oct. 21	101	657
Paint, varnishes, and paint-oils.	Ironsides Company	39,365	Nov. 25	101	1826
Paints	Naamloze Vennootschap Nederlandsche Verfabriek "Eclatin."	38,691	July 29	100	1106
Paints and certain named painters' supplies	Standard Varnish Works	38,734	Aug. 5	100	1325
Paints and enamels	Phoenix Paint and Varnish Company.	37,649	Jan. 14	98	412
Paints and painters' supplies. Certain named	Colonial Works	38,841	Aug. 26	100	1969
Paints and painters' supplies. Certain named	Standard Varnish Works	39,287	Nov. 18	101	1599
Paints and painters' supplies. Certain named	Standard Varnish Works	39,219	Nov. 18	101	1603
Paints and roofing-paints	L. A. Tenny	38,692	July 29	100	1107
Paints. Certain named	J. G. Conner & Co	38,553	July 1	100	227
Paints for exterior and interior finishing	Geo. W. Pitkin Company	37,373	Feb. 25	98	1702
Paints ground in oil	Mound City Paint & Color Company	39,609	Dec. 30	101	3272
Paints. Mineral	Mohawk Paint and Chemical Co	38,593	July 8	100	446
Paints. Mixed	Hollywood Paint Company	38,890	Sept. 9	100	2379
Paints or paints for metal and composition roofings. Roof-	Dayton Felt Roofing Co.	38,123	Apr. 15	99	660
Paints, varnishes, and cements.	Seaboard Paint Company	37,768	Feb. 4	98	1028
Painters' supplies. Certain named	Gerstendörfer Bros	37,945	Mar. 11	98	2168
Painters' supplies. Certain named	Universal Paint-Solvent Company.	38,986	Sept. 23	100	2770
Painters' supplies. Certain named	E. D. Smith	39,442	Dec. 9	101	2279
Paper and envelopes. Writing.	Z. & W. M. Crane	38,538	Feb. 25	98	1699
Paper and envelopes. Writing.	H. V. Wagoner	38,608	July 15	100	675
Paper and envelopes. Writing.	Z. & W. M. Crane	39,067	Oct. 21	101	653
Paper bags.	C. E. Stevens Bros.	39,230	Nov. 11	101	1363
Paper bags and wrapping-paper	Eagle Paper Co	38,818	Aug. 19	100	1759
Paper. Carbon-	Mittag & Volger	39,446	Dec. 9	101	2280
Paper. Carbon-	Mittag & Volger	39,447	Dec. 9	101	2280
Paper. Carbon-	Mittag & Volger	39,467	Dec. 16	101	2566
Paper. Carboned	General Manifold Company	38,536	July 8	100	446
Paper, cards, wrappers, and envelopes.	L. Lebateux	39,587	Dec. 30	101	3499



*Alphabetical list of trade-marks—Continued.*

Title.	Name.	No.	Date.	Official Gazette.	
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Paper. Certain named	Blake, Moffitt & Towne	38,051	Apr. 8	99	438
Paper. Certain named	G. A. Jaeger	38,831	Aug. 26	100	1968
Paper. Certain named	E. M. Gilman	39,126	Oct. 28	101	880
Paper. Cover and laid writing	Peninsular Paper Co.	38,097	Apr. 15	99	656
Paper, envelopes, and paper bags. Blank and toilet	Warfield Pratt-Howell Co.	39,217	Nov. 11	101	1363
Paper-stock. Certain named	W. Varcoe & Sons	39,127	Oct. 28	101	880
Paper substitute	A. Bushnell	37,984	Mar. 25	98	2582
Paper. Transparent wrapping	H. Lindenmeyr & Sons	38,285	May 20	99	1859
Paper. Wrapping, waxed, and toilet	Albany Perforated Wrapping Paper Co.	38,666	July 29	100	1104
Paper. Writing	Byron Weston Co.	37,997	Apr. 1	99	219
Papers. Writing and drawing	American Writing Paper Co.	37,445	Dec. 9	101	9280
Papers. Sensitized photographic	B. Russegger	37,837	Feb. 25	98	1699
Papers. Sensitized photographic	B. Russegger	37,917	Mar. 11	98	2164
Papers. Sensitized photographic	B. Russegger	39,205	Nov. 4	101	1125
Paste	C. B. Forsyth	38,341	May 27	99	2994
Pastils. Throat	W. A. Jones	38,747	Aug. 12	100	1556
Patterns of apparel. Paper	Vogue Company	39,218	Nov. 11	101	1363
Peanuts	A. R. Potter	38,063	Apr. 8	99	1639
Peanuts	Gwaltney-Bunkley Peanut Co.	38,657	July 22	100	928
Peanuts	A. Obici	38,883	Sept. 9	100	2376
Pedestal, book-rack, and music-cabinet. Combined	W. A. Dennerline	37,696	Jan. 28	98	787
Pencil-sharpeners	Eagle Pencil Co.	38,902	Sept. 23	100	2767
Pens.	Esterbrook Steel Pen Manufacturing Co.	38,497	June 24	99	2953
Pens.	Esterbrook Steel Pen Manufacturing Co.	38,498	June 24	99	2958
Pens.	C. Howard Hunt Pen Co.	38,901	Sept. 23	100	2767
Pens.	C. Howard Hunt Pen Co.	39,066	Oct. 21	101	653
Pens. Fountain	Parker Pen Company	37,670	Jan. 28	98	784
Pens. Fountain	L. E. Waterman Company	37,762	Feb. 4	98	1028
Pens. Fountain	L. E. Waterman Company	39,128	Oct. 28	101	881
Pens. Steel	M. Myers & Son	38,240	May 18	99	1613
Pens. Stylographic and fountain	W. Mack & Co.	39,131	Mar. 13	99	1633
Pens. Stylographic and fountain	J. Ullrich & Co.	38,872	Sept. 9	100	2372
Pespin compound	B. L. Maltbie	38,726	Aug. 5	100	1324
Perfume	Mellier Drug Company	38,123	Apr. 15	99	659
Perfume. Breath	Perfumol Company	37,960	Mar. 18	98	2357
Perfumery	J. & E. Atkinson, Limited	38,483	June 17	99	2764
Perfumery and certain named toilet preparations	H. Mack	38,016	Apr. 1	99	221
Perfumery and certain named toilet preparations	H. Mack	38,017	Apr. 1	99	221
Perfumery, soap, and face-powder	M. A. Ghabryel	38,343	May 27	99	2094
Perfumes	R. Hudnut	37,922	Mar. 11	98	2165
Perfumes	R. Hudnut	37,959	Mar. 18	98	2357
Perfumes	A. A. Le Fevre	38,015	Apr. 1	99	220
Perfumes	Firm of A. Wright	39,403	Dec. 2	101	2070
Perfumes. Product used in making	Heine & Co.	39,474	Dec. 16	101	2561
Periodical	W. H. Gannett, Publisher	39,059	Apr. 8	99	438
Periodical. Weekly	F. Lamont	37,999	Apr. 1	99	219
Periodicals	Criterion Publication Co.	37,983	Mar. 25	98	2582
Periodicals	Phelps Publishing Company	38,817	Aug. 19	100	1759
Petroleum	H. D. Fletcher	38,021	Apr. 1	99	221
Petroleum fluid for certain named purposes	H. S. Blackmore	39,429	Dec. 9	101	2278
Pharmaceutical preparations for certain named diseases	Brignonnet Père & Fils & Gaubert	39,347	Nov. 25	101	1824
Pharmaceutical products for certain named purposes	Actien-Gesellschaft für Anilin-Fabrikation	37,967	Nov. 25	101	1826
Photographic language-lesson records	International Textbook Company	39,385	Mar. 25	98	2582
Photographic art. Dry-plates employed in the	Hammer Dry Plate Co.	37,697	Jan. 28	98	787
Photographic card-mounts	A. Clements	37,888	Mar. 4	98	1961
Photographic developers	Farbenfabriken of Elberfeld Co.	37,752	Feb. 4	98	1027
Photographic films and plates	Sundell Films & Plates	39,219	Nov. 11	101	1362
Photographic goods. Certain named	Century Camera Company	38,619	Aug. 19	100	1759
Photographic papers and photographic developers. Sensitized	B. Russegger	38,146	Apr. 22	99	855
Photographic plates and films	Actien-Gesellschaft für Anilin-Fabrikation	37,916	Mar. 11	98	2164
Photographic plates. Preparation for treatment of	A. Heskeli	39,473	Dec. 16	101	2561
Pianos	W. J. Dyer & Bro	39,261	Nov. 11	101	1366
Pickles	A. L. Brown	39,532	Dec. 2	101	3068
Pickles	Kuner Pickle Company	39,532	Dec. 23	101	2815
Pictures	W. Waring	37,839	Feb. 25	98	1699
Pills for blood tonic	A. J. Plamondon	38,649	July 22	100	927
Pills for preventing or reducing corpulency	F. S. Barney	39,455	Dec. 9	101	2281
Pills. Resolvent	Petter Drug & Chemical Corporation	37,820	Feb. 18	98	1479
Pipe-lengths	Central Foundry Co.	39,267	Nov. 11	101	1366
Pipes. Corn-cob	Hirsch & Bendheim	39,538	Dec. 23	101	2816
Plaster fiber	A. M. Sheakley	38,041	Apr. 1	99	223
Plaster. Wall	Granitine Wall Plaster Co.	38,086	Apr. 8	99	441
Plumbers' fittings	Central Foundry Co.	39,294	Nov. 18	101	1600
Plumbing goods. Certain named	E. M. Joralemon	38,094	Apr. 8	99	442
Pneumatic tools	E. E. Hanna	38,659	Aug. 26	100	1972
Pocket-books, bags, belts, purses, and fancy leather novelties	Raudnitz and Pollitz	38,191	Apr. 29	99	1164
Poison for the extermination of insects and animals	R. G. Tarr	38,854	Aug. 26	100	1971
Polish. Certain named	G. P. McIntyre	39,606	Dec. 30	101	3101
Polishing, cleaning, and preserving certain named surfaces	Silver Salt Company	38,953	Sept. 30	100	3005
Manufactured powder for					
Portraits, pictures, photographs, and photobutbons	Metropolitan Art Company	39,070	Oct. 21	101	653
Potatoes. Irish and sweet	Eastern Shore of Virginia Produce Exchange	37,974	Mar. 25	98	2581
Poultry	Clarinda Poultry, Butter & Egg Co.	38,575	July 8	100	445
Poultry-keepers' supplies	Cyphers Incubator Co.	38,366	May 27	99	2097
Powder dusters. Dry	Leggett & Brother	39,259	Nov. 11	101	1366
Powders and tablets for treatment of headache and neuralgia	Antigia Chemical Company	39,024	Oct. 14	101	442
Powders. Face	Tetlow Manufacturing Company	39,595	Dec. 30	101	3100

## Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette.	
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Powders for the relief of the feet	M. Strasburger	38,896	Sept. 16	100	2598
Powders. Toilet	C. A. Reed & Co.	39,041	Oct. 14	101	448
Preparation for treatment of the skin. Liquid	Great Century Medicine Co	38,481	June 17	99	2764
Preparations for curing certain named affections of the body.	Vail Brothers	39,456	Dec. 9	101	2281
Preservative, disinfectant, and tanning or tawing compounds.	T. Thatcher	38,487	June 17	99	2765
Preservative, disinfectant, and tanning or tawing compounds.	T. Thatcher	38,488	June 17	99	2765
Presses. Fruit	Henis Fruit Press Co.	37,651	Jan. 14	98	412
Pretzels, cakes, crackers, biscuits, and bread.	Oakdale Baking Company	39,488	Dec. 16	101	2562
Printed matter and publications. Certain named	Ralston Publishing Company	39,510	Dec. 23	101	2513
Printing and embossing presses and appliances connected therewith.	John Thomson Press Co	38,092	Apr. 8	99	442
Printing-presses. Steel for chases for	Barnhart Brothers & Spindler	38,174	Apr. 22	99	858
Proprietary compounds for certain named diseases.	F. E. Bishop	39,277	Nov. 18	101	1598
Publication or magazine. Periodical	E. Caldwell	39,068	Oct. 21	101	653
Publications. Certain named	Pharus Verlag Gesellschaft mit Beschränkter Haftung.	39,069	Oct. 21	101	653
Publications, periodicals, magazines, and books	H. C. Fisher	38,049	Apr. 1	99	224
Pudding-tablets and dessert preparations	H. J. Blodgett Co	38,159	Apr. 22	99	856
Pudding-tablets and dessert preparations	H. J. Blodgett Co	38,160	Apr. 22	99	857
Pump curbs and conveyers.	Cincinnati Pump Company	39,553	Dec. 23	101	2818
Pumps and compressors	Advance Packing & Supply Company	39,266	Nov. 11	101	1366
Pumps. Hydraulic air-	Cleveland Faucet Co.	38,829	Aug. 19	100	1760
Pumps. Steam-	J. E. Cameron	37,701	Jan. 28	98	788
Quinate of lithium.	Vereingte Chminfabriken Zimmer & Co., Ges. mit Beschränkter Haftung.	37,664	Jan. 21	98	578
Range-boilers and hot-water generators	Thompson Iron Works	38,786	Aug. 12	100	1560
Ranges	H. Adler	38,495	June 17	99	2755
Razors and goods. Certain named	A. & C. V. H. Hook	38,774	Aug. 12	100	1556
Razor-strops	A. J. Jordan Cutlery Co	38,824	Aug. 19	100	1759
Razors	R. J. Christy	39,308	Nov. 18	101	1601
Razors, knives, scissors, and shears.	A. L. Silberstein	38,823	Aug. 19	100	1759
Receptacles. Certain named	H. E. Westervelt	38,493	June 17	99	2766
Red bone, marrow, and malt extract	Virol, Limited	37,976	Mar. 25	98	2381
Reflectors, refractors, shades, canopies, and chimneys.	E. Munsell & Company	39,444	Dec. 2	101	2972
Remedial agent. Certain named	Mairbrunn & Knappe	38,918	Sept. 23	100	2768
Remedial inhalant.	J. Treanor	39,201	Nov. 4	101	1124
Remedial paste for burns, scalds, wounds, and running sores.	Sandner & Rinn Sisteis	38,760	Aug. 12	100	1558
Remedies. Blood, liver, and kidney	Balsam Medicinal Co.	37,863	Feb. 25	98	1701
Remedies. Diphtheria	M. M. Fairchild	38,200	Apr. 29	99	1165
Remedies. External	Alpers Chemical Company	38,353	May 27	99	2996
Remedies for certain named diseases	Burrows & Saunders	38,165	Apr. 22	99	857
Remedies for certain named diseases	Brown Chemical Co.	38,246	May 13	99	1613
Remedies for certain named diseases	T. N. Kenyon	38,348	May 27	99	2095
Remedies for certain named diseases	A. T. Wainwright	38,359	June 3	99	2313
Remedies for certain named diseases	W. E. Brownell	38,468	June 17	99	2763
Remedies for certain named diseases	G. W. Caldwell	38,469	June 17	99	2768
Remedies for certain named diseases	Ostera Co	39,400	Dec. 2	101	2070
Remedies for certain named diseases	J. A. Monger	39,519	Dec. 23	101	2814
Remedies for certain named diseases. Internal	J. B. Plent	38,584	Aug. 8	100	446
Remedies for coughs and colds.	W. B. Thompson	37,642	Jan. 14	98	411
Remedies for diseases of the lungs and throat	O'Rourke and Hurley	38,128	Apr. 15	99	660
Remedies for diseases of the stomach	E. R. Bathrick	39,520	Dec. 23	101	2814
Remedies for headache, nervous complaints, and general debility.	Jack Drug Co.	38,647	July 22	100	927
Remedies for horses and cattle. Internal	J. Muir	39,015	Oct. 14	101	441
Remedies for influenza, colds, and headache	Bromo Chemical Company	37,788	Feb. 11	98	1277
Remedies for nervous diseases and diseases of the stomach, liver, and bowels.	Murna Medical Company	38,583	July 8	100	446
Remedies for rheumatism and other similar inflammatory diseases.	K. A. Marschat	38,753	Aug. 12	100	1557
Remedies for skin, scalp, and face. External	M. M. Harris	39,475	Dec. 16	101	2561
Remedies for spavin, ringbones, splints, and curbs.	C. A. Silver	38,762	Aug. 12	100	1556
Remedies for the cure of certain named diseases.	C. A. Oppelt	39,454	Dec. 9	101	2281
Remedies for the cure of rheumatism	J. C. Bilbo	37,925	Mar. 11	98	2165
Remedies for treatment of the hair and scalp	Alteneim Medical Dispensary	38,728	Aug. 5	100	1325
Remedies. Horse	S. O. Parker	38,619	July 15	100	676
Remedies in capsule, tablet, or salve form for the cure of certain named diseases.	E. E. Duerr	38,881	Sept. 9	100	2378
Remedies in tablet form for certain named diseases.	B. N. Robinson	38,919	Sept. 23	100	2768
Remedies. Liquid topical	Star Line Remedy Co.	39,023	Oct. 14	101	442
Remedy against gout and similar diseases.	Farbenfabriken of Elberfeld Co.	39,251	Nov. 11	101	1365
Remedy. Blood	Poke Root and Burdock Medicine Co.	37,926	Mar. 11	98	2165
Remedy. Blood, nerve, and kidney	A. B. Seelye	38,437	June 10	99	2543
Remedy. Eye	J. B. & G. W. McFatrach	39,477	Dec. 16	101	2561
Remedy. Eye	J. B. & G. W. McFatrach	39,478	Dec. 16	101	2561
Remedy for a certain named disease.	H. W. Mayes	37,819	Feb. 18	98	1478
Remedy for abnormal sweating	J. Herb	39,401	Dec. 2	101	2070
Remedy for affections of the nerves	Peter-Bauer Drug Co	38,496	June 10	99	2543
Remedy for car-sickness	Kar & Sea Sic Co	39,350	Nov. 25	101	1824
Remedy for certain named disease of cattle	T. D. Young	38,855	Aug. 26	100	1971
Remedy for certain named diseases.	B. Romero	37,613	Jan. 7	98	221
Remedy for certain named diseases.	M. Lichtenstein	37,614	Jan. 7	98	221
Remedy for certain named diseases.	L. W. Abt	37,746	Feb. 4	98	1026
Remedy for certain named diseases.	Jones and Jones	37,747	Feb. 4	98	1026
Remedy for certain named diseases.	S. B. Wheeler	37,748	Feb. 4	98	1026
Remedy for certain named diseases.	R. F. Kovacic	37,789	Feb. 11	98	1277
Remedy for certain named diseases.	U. B. Kline	37,790	Feb. 11	98	1278
Remedy for certain named diseases.	J. C. Kyles	37,791	Feb. 11	98	1278
Remedy for certain named diseases.	Carleton & Hovey	38,198	Apr. 29	99	1165
Remedy for certain named diseases.	R. P. Hinnant	38,199	Apr. 29	99	1165



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Title.	Name.	No.	Date.	Official Gazette.	
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Remedy for certain named diseases.	J. Fanger	38,388	June 3	99	2313
Remedy for certain named diseases.	W. Edwards, Jr.	38,399	June 3	99	2314
Remedy for certain named diseases.	H. A. Spilker	38,489	Sept. 9	100	2378
Remedy for certain named diseases. Internal.	A. B. Sherman	38,349	May 27	99	2095
Remedy for colds in tablet or pill form.	C. N. Leigh	37,803	Mar. 4	98	1961
Remedy for consumption.	Victor V. May and Company.	39,088	Oct. 21	101	655
Remedy for cure of skin and blood diseases. External.	Carpathian Medicine Co.	39,020	Oct. 14	101	441
Remedy for dandruff.	J. F. Hamilton & Co.	38,547	July 1	100	226
Remedy for dandruff and a hair and scalp tonic.	S. T. Dustin	38,676	July 29	100	1105
Remedy for diseases of the mouth and throat.	Ozo Remedy Company	37,818	Feb. 18	98	1478
Remedy for diseases of the stomach and kidneys.	A. Warren	39,004	Oct. 7	101	213
Remedy for feverish disorders.	S. H. Ward Company	38,387	June 3	99	2303
Remedy for indigestion and headache.	C. D. Frankinson	39,200	Nov. 4	101	1124
Remedy for kidney and bladder diseases in capsule form.	W. Scott	39,324	Nov. 18	101	1604
Remedy for la grippe, catarrh, colds, and headaches.	F. W. Diemer	38,955	Sept. 30	100	2005
Remedy for liver and kidney diseases in tablet form.	M. M. Herington	39,021	Oct. 14	101	441
Remedy for obesity.	F. J. Kellogg	38,164	Apr. 22	99	857
Remedy for piles and other rectal diseases.	V. C. Stoddard	38,754	Aug. 12	100	1557
Remedy for pulmonary consumption and inflammation of the lungs.	Valentiner & Schwarz.	39,022	Oct. 14	101	442
Remedy for rheumatism.	A. N. Wiszowsky	38,863	Sept. 2	100	2171
Remedy for sea-sickness.	Kar & Sea Sic Co.	39,348	Nov. 25	101	1824
Remedy for skin diseases. External.	J. Blanchard	38,352	May 27	99	2095
Remedy for the blood.	A. B. Seutt	38,956	Sept. 30	100	2005
Remedy for the cure of certain named diseases.	W. D. King & Co.	39,453	Dec. 9	101	2281
Remedy for the cure of piles. Liquid.	C. A. Ward Company	38,994	May 27	99	2303
Remedy for the hair and scalp.	Altenheim Medical Dispensary	38,759	Aug. 12	100	1558
Remedy for the treatment of the hair and scalp.	Altenheim Medical Dispensary	38,758	Aug. 12	100	1557
Remedy for toothache, headache, and neuralgia.	Kennedy-Hamilton Co.	39,199	Nov. 4	101	1124
Remedy for tuberculosis.	D. A. Harrison	38,748	Aug. 12	100	1556
Remedy for wounds, burns, and other injuries to the skin.	Valentiner & Schwarz.	37,612	Jan. 7	98	220
Remedy in liquid form for diseases of swine and poultry.	Anti-Cholera Company	39,256	Nov. 11	101	1366
Remedy in pill and tablet form for certain named diseases.	Peter-Bauer Drug Co.	39,294	Oct. 21	101	656
Remedy splitting off toxin for subcutaneous or internal use.	Farbenfabriken of Elberfeld Co.	39,252	Nov. 11	101	1365
Respiratory devices. Mechanical.	M. J. E. Hurlbut	37,870	Feb. 25	98	1702
Rheumatic cure. Liquid.	F. J. A. Wall	38,803	Aug. 19	100	1757
Ribbons.	Lion & Wertheimer	38,224	May 13	99	1610
Ribbons, silks, satins, and velvets.	J. Kridel Sons & Co.	38,714	Aug. 5	100	1323
Ridging.	Globe Ventilator Company	38,442	Apr. 1	99	223
Rivets. Tubular and pronged.	Tubular Rivet & Stud Co.	38,557	July 1	100	227
Road-scarifiers.	J. Scholl & Company	39,367	Dec. 16	101	1365
Roofing and belting. Waterproof fabric for.	Lincoln Waterproof Cloth Co.	37,781	Feb. 11	98	1277
Roofing. Asphalt.	R. Glendinning	38,265	May 13	99	1616
Roofing. Fabric.	Kansas City Roofing & Corrugating Co.	38,737	Aug. 5	100	1325
Roofing-felt.	J. A. & W. Bird & Co.	37,782	Feb. 11	98	1277
Roofing-slate.	American Banker-Slate Company	38,571	May 27	99	2098
Rope and oakum. Manila and hemp.	Sax Soap Co.	39,372	Nov. 27	99	2303
Rope-fillers.	Westorps, Limited.	39,206	Nov. 4	101	1125
Rope-fillers.	Ironsides Company	39,610	Dec. 30	101	3102
Rope-fillers.	Ironsides Company	39,611	Dec. 30	101	3102
Roundabouts. Hydraulic.	Aquarama Company	37,831	Feb. 18	98	1480
Roundabouts. Hydraulic.	Aquarama Company	37,832	Feb. 18	98	1480
Rubber and its compounds with their accessories. Certain named goods and articles made from india-rubber.	Hartford Rubber Works Co.	39,171	Nov. 4	101	1121
Rubber belting, rubber hose, and rubber packing.	Consumer's Rubber Co.	38,745	Aug. 12	100	1556
Rubber boots and shoes.	T. Crowley	38,218	May 6	99	1379
Rubber boots and shoes.	Russian-French India Rubber, Gut-tapercha and Telegraph Works, "Prowodnik, Riza."	38,987	Oct. 7	101	211
Rubber footwear.	Foot, Schulze & Company	38,332	May 27	99	2098
Rubber footwear. Certain named.	North Star Shoe Co.	39,394	Dec. 2	101	2069
Rubber goods. Certain named.	B. N. Goodrich Co.	39,228	Nov. 11	101	1363
Rubber goods. Certain named.	Goodyear Rubber Company	39,268	Nov. 18	101	1598
Rubber goods. Certain named.	Miller Rubber Mfg. Co.	39,422	Dec. 9	101	2277
Rubber goods. Certain named seamless.	Miller Rubber Mfg. Co.	39,061	Oct. 21	101	632
Rubber heels for boots and shoes.	Plymouth Rubber Co.	38,568	July 8	100	444
Rubber hose, belting, and packing.	Bowers Rubber Co.	37,716	Feb. 4	98	1024
Rubber hose, belting, and packing.	Bowers Rubber Co.	37,717	Feb. 4	98	1024
Rubber hose, belting, and packing.	New York Belting and Packing Co.	38,798	Aug. 19	100	1756
Rugs, carpets, hangings, and table-coverings. Oriental.	Bojayan Bros.	39,556	Dec. 30	101	3095
Rusk.	Karl Digestible Rusk Co.	39,332	Nov. 25	101	1822
Safes and vaults. Fire, burglar, and water proof.	H. D. Carey	38,590	July 1	100	228
Salicylates of some rare earths.	Vereingte Chininfabriken Zimm-mer & Co., Ges. mit Beschrankter Haftung.	38,167	Apr. 22	99	857
Salt.	Diamond Crystal Salt Company	38,626	July 15	100	677
Salt.	G. N. Skinner	38,650	July 22	100	928
Salt.	Diamond Crystal Salt Company	38,884	Sept. 9	100	2378
Salt.	Diamond Crystal Salt Company	39,038	Oct. 14	101	443
Salve.	E. Hoxworth	38,032	Apr. 1	99	222
Salve.	Gross Bros.	38,357	May 27	99	2096
Salves.	National Drug & Pharmaceutical Co.	38,514	June 24	99	2260
Salves and ointments.	H. Welch	38,798	Aug. 19	100	1756
Salves or ointments.	K. Mason	39,457	Dec. 9	101	2281
Sanitary appliances. Certain named.	R. P. Marks	38,392	June 3	99	2314
Sardines.	Sumner & Goodwin Company	37,327	Feb. 18	98	1479
Sash-fasteners, sash-locks, sash cord and weight fasteners, and stop-adjusters.	Francis H. Leggett & Company	39,562	Dec. 30	101	3096
Sauces.	H. B. Ives Company	39,106	Oct. 21	101	657
Sauces, ketchups, relishes, pickles, chow-chow, and condiments.	Kuner Pickle Company	39,431	Dec. 9	101	2278
Sauer-kraut.	J. Shaw	37,898	Mar. 4	98	1962
Saws and handsaws. Crosscut.	Hauck Brothers Produce Company.	39,076	Oct. 21	101	654
Saws and springs.	E. C. Atkins & Company.	38,871	Sept. 2	100	2172
	J. N. Eberle & Cie.	37,833	Feb. 18	98	1480

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Saws. Crosscut.	E. C. Atkins & Company	38,870	Sept. 2	100	2172
Saws. Hack and butcher	Goodell-Pratt Company	37,668	Jan. 21	98	578
Saws. Tools for fitting and sharpening	E. C. Atkins & Company	39,441	Dec. 9	101	2370
Scales. Weighing.	H. N. Strait Mfg. Co	38,702	July 29	100	1108
Seal-presses and soft-metal seals	Keystone Seal & Press Company	38,203	Apr. 23	99	1166
Seal-wire and soft-metal seals	Keystone Seal & Press Company	38,430	June 3	99	2315
Seals. Certain named.	E. J. Brooks & Company	38,738	Aug. 5	100	1326
Sedative compound.	A. H. Still	37,927	Mar. 11	98	2165
Seed meal and cake. Cotton.	Southern Cotton Oil Co	39,186	Nov. 4	101	1123
Seed meal and cake. Cotton	Southern Cotton Oil Co	39,187	Nov. 4	101	1123
Seed meal and cake. Cotton	Southern Cotton Oil Co	39,188	Nov. 4	101	1123
Seed meal and cake. Cotton	Southern Cotton Oil Co	39,189	Nov. 4	101	1123
Sewing and type-writer machines	Pacific Hardware & Steel Co.	38,441	June 10	99	2544
Sewing-machines	Illinois Sewing Machine Company	38,330	Sept. 16	100	2598
Sewing-machines	Illinois Sewing Machine Company	38,900	Sept. 16	100	2598
Sewing-machines and attachments.	A. G. Mason	37,910	Mar. 4	98	1963
Sewing-machines and attachments.	W. A. Chipman	38,141	Apr. 15	99	661
Sewing-machines and attachments.	W. A. Chipman	38,368	May 27	99	2097
Sewing-machines, sewing-machine attachments, and parts thereof.	Singer Manufacturing Co	39,108	Oct. 21	101	657
Sewing-machines, sewing-machine attachments, and parts thereof.	Singer Manufacturing Co	39,109	Oct. 21	101	657
Sheep-dip. Liquid	Moore Chemical and Manufacturing Company.	38,131	Apr. 15	99	660
Sheet metal. Planished	American Sheet Steel Company	39,552	Dec. 23	101	2818
Sheetings	H. Norden	37,675	Jan. 28	98	784
Sheetings	W. H. Wisner & Co.	37,676	Jan. 28	98	785
Sheetings	W. H. Wisner & Co.	37,677	Jan. 28	98	785
Sheetings	W. H. Wisner & Co.	37,678	Jan. 28	98	785
Sheetings	H. Norden	37,773	Feb. 11	98	1276
Sheetings	W. H. Wisner & Co.	37,884	Mar. 4	98	1960
Sheetings	H. Norden	37,920	Mar. 11	98	2164
Sheetings	H. Norden	38,055	Apr. 8	99	488
Sheetings	H. Norden	38,147	Apr. 22	99	855
Sheetings	Belton Mills	38,504	June 24	99	2958
Sheetings	Belton Mills	38,505	June 24	99	2959
Sheetings	Belton Mills	38,565	July 8	100	444
Sheetings	Belton Mills	38,942	Sept. 30	100	3004
Sheetings and drillings	Loray Mills	38,104	Apr. 15	99	657
Sheetings and drillings	Loray Mills	38,105	Apr. 15	99	657
Sheetings and drills.	H. Norden	37,948	Mar. 18	98	2356
Sheetings and drills.	H. Norden	38,103	Apr. 15	99	657
Sheetings and drills. Cotton.	Piedmont Manufacturing Company.	38,984	Oct. 7	101	210
Sheetings. Cotton	Anderson Cotton Mills	38,419	June 10	99	2541
Shingle-machines	G. E. Davis	39,110	Oct. 21	101	658
Shirt-waists and skirts.	Gottlieb & Beck	38,904	Sept. 23	100	2767
Shirts, collars, and cuffs.	A. M. & A. E. Clerihew	37,607	Jan. 7	98	220
Shirts, collars, cuffs, and drawers.	H. Dobson	38,903	Sept. 23	100	2767
Shirts, collars, cuffs, and drawers.	Regent Shirt Co.	37,886	Mar. 4	98	1960
Shirts, collars, cuffs, shirt-waists, night-shirts, pajamas, and bath-robcs.	Cluett, Peabody & Co	38,452	June 17	99	2761
Shirtings, sheetings, and drills	E. L. Suffern	38,106	Apr. 15	99	657
Shirtings, sheetings, and drills	E. L. Suffern	38,420	June 10	99	2541
Shirtings, sheetings, and drills	E. L. Suffern	38,507	June 24	99	2959
Shoe and leather dressing	Raven Gloss Manufacturing Company.	38,885	Sept. 9	100	2378
Shoe and stove polish.	E. E. Stinson & Co	38,486	June 17	99	2765
Shoe-polishing preparations	P. P. Lagomarsino & Co	39,534	Dec. 23	101	2816
Shoes	P. E. Mistrot	37,658	Jan. 21	98	577
Shoes	P. E. Mistrot	37,712	Feb. 4	98	1024
Shoes	P. E. Mistrot	37,713	Feb. 4	98	1024
Shoes	George H. West Shoe Co.	37,847	Feb. 25	98	1700
Shoes	Richardson Shoe Company	37,988	Mar. 25	98	2582
Shoes	Tobin & Hicks	38,009	Apr. 1	99	220
Shoes	Feuss & Prather	38,062	Apr. 8	99	439
Shoes	O. W. Sloat	38,190	Apr. 29	99	1764
Shoes	Brophy Brothers' Shoe Company	38,382	June 3	99	2313
Shoes	Gilmaker Bros	38,425	June 10	99	2542
Shoes	J. J. Julia & Co	38,425	June 10	99	2542
Shoes	T. D. Barry & Co	38,529	July 1	100	224
Shoes	Tuttle Shoe Co	39,013	Oct. 14	101	441
Shoes and hose	Chambersburg Shoe Mfg. Co.	38,110	Apr. 15	99	658
Shoes and shippers. Leather.	North Star Shoe Co	39,273	Nov. 18	101	1568
Shoes. Ankle-supporting	J. K. Orr Shoe Co.	39,472	Dec. 16	101	2560
Shoes. Certain named	J. K. Orr Shoe Co.	38,153	Apr. 22	99	853
Shoes. Children's.	W. M. Koblenz	39,323	Nov. 18	101	1608
Shoes. Cushion.	Watson Plummer Shoe Co	38,792	Aug. 19	100	1755
Shoes for men, women, and children	A. Reed	38,428	June 10	99	2541
Shoes. Ladies'	T. E. Greacen	37,659	Jan. 21	98	577
Shoes. Ladies' and misses'	Lindner Shoe Co	37,655	Feb. 25	98	1699
Shoes. Leather	J. K. Orr Shoe Co.	37,914	Mar. 11	98	2164
Shoes. Leather	Anglo-Saxon Shoe Co.	38,794	Aug. 19	100	1756
Shoes. Leather	Friedman Bros. Shoe Co.	39,353	Nov. 25	101	1824
Shoes. Leather	Hathaway, Soule and Harrington	39,559	Dec. 30	101	3095
Shoes. Men's and boys'	C & E Shoe Co.	39,560	Dec. 30	101	3095
Shoes. Men's, boys', and youths'	J. K. Orr Shoe Co.	37,780	Feb. 11	98	1277
Shoes. Men's, women's, boys', and misses'	B. A. Corbin & Son Co	38,912	Sept. 23	100	2768
Shoes while cleaning or polishing the same. Devices for holding	Bentley & Olmsted Company	37,387	Mar. 4	98	1960
Shoes. Women's	A. J. Skinner	38,040	Apr. 1	99	226
Shoes. Women's leather.	C. W. Porter	39,059	Oct. 21	101	652
Shoes. Women's, misses', and children's	J. L. Walker	39,322	Nov. 18	101	1608
Shower and bathing apparatus. Certain named	Bastian Shoe Mfg. Co	38,154	Apr. 22	99	556
Silk	E. Mulchers	37,652	Jan. 14	98	412
	Home Circle Silk Co	39,514	Dec. 23	101	2813



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Silk fabric. Woven	Phalanx Silk Mill	38,057	Apr. 8	99	498
Silk piece goods and silk ribbons	Dupac & Stenz	38,594	July 15	100	674
Silk piece goods, silk ribbons, and silk sashes	Valentine & Bentley Silk Co	38,377	June 3	99	2312
Silk-warp fabrics for dress goods and linings	T. Michau & Co	37,801	Feb. 18	98	1477
Silks	Consumers Silk Mills and Coupons Exchange Co.	38,862	Sept. 2	100	2171
Silks	Consumers Silk Mills and Coupons Exchange Co.	38,906	Sept. 23	100	2767
Silks	Slatington Textile Manufacturing Co.	39,591	Dec. 30	101	3099
Silks. Dress	Norfolk Silk Co	37,672	Jan. 28	98	784
Silks. Dress	Liberty Silk Co	37,840	Feb. 25	98	1699
Silks. Dress	Liberty Silk Co	38,098	Apr. 15	99	656
Silks. Dress	Liberty Silk Co	38,787	Aug. 19	100	1755
Skin preparations	38,476	Dec. 16	101	2561	
Skirt-protectors	O. J. Ohliger Company	39,163	Nov. 4	101	1120
Skirts	Michigan Clothing Co.	38,642	July 22	100	926
Skylights	A. E. Rendle	38,941	Sept. 23	100	2770
Smalt	W. C. Estes	37,908	Mar. 4	98	1963
Smalt	W. C. Estes	37,909	Mar. 4	98	1963
Smalt	W. C. Estes	38,260	May 18	99	1615
Smalt	W. C. Estes	38,261	May 18	99	1615
Smalt	W. C. Estes	38,262	May 18	99	1615
Smalt	W. C. Estes	38,263	May 18	99	1610
Smalt	W. C. Estes	38,264	May 18	99	1616
Smalt	W. C. Estes	38,591	July 8	100	446
Smalt	W. C. Estes	38,592	July 8	100	446
Smoke distilled from wood. Liquid	E. H. Wright & Co	38,022	Apr. 1	99	221
Soap	Bell & Bogart Soap Co	37,648	Jan. 14	98	412
Soap	Emery	38,084	Apr. 8	98	3098
Soap	Maple City Soap Works	38,084	Apr. 8	99	441
Soap	Kirk Bros. & Company	38,342	May 27	99	2094
Soap	Beaumont Soap Co.	38,403	June 3	99	2315
Soap	Ezo Manufacturing Company	38,485	June 17	99	2765
Soap	F. M. Coulter	38,687	July 29	100	1106
Soap	Goodhair Remedy Company	38,915	Sept. 23	100	2768
Soap	Kendall-Davis Company	38,089	Oct. 14	101	413
Soap	Bell Manufacturing Co.	39,040	Oct. 14	101	443
Soap	D. M. Steward	39,494	Dec. 16	101	2563
Soap and certain named toilet preparations	A. F. Wood	37,662	Jan. 21	98	578
Soap and cream. Shaving	F. B. Chadderton	38,018	Apr. 1	99	221
Soap. Cake toilet	F. M. Coulter	38,746	Aug. 12	100	1556
Soap. Castile	J. S. Nicholas	38,990	Oct. 7	101	211
Soap for the skin. Complexion	E. H. Kraut	39,581	Dec. 30	101	3098
Soap. Laundry	Maple City Soap Works	38,020	Apr. 1	99	221
Soap. Laundry	Maple City Soap Works	38,168	Apr. 22	99	857
Soap. Laundry	Michigan Soap Works	38,306	May 20	99	1961
Soap. Laundry	N. K. Fairbank Company	38,851	Aug. 26	100	1971
Soap. Scouring	Floridine Mfg Co	39,405	Dec. 16	101	2563
Soap. Shaving	J. B. Williams Company	39,132	Oct. 28	101	881
Soap, soap-powder, and detergents. Toilet, laundry, and dry	Lever Brothers	38,132	Apr. 15	99	659
Soap, soap-powder, and wash g. fluids. Cake	Benzel Soap Company	38,650	May 14	101	2562
Soap. Toilet	Lambert Pharmaceutical Co	38,511	June 24	99	2960
Soap. Toilet	Enterprise Soap Works	38,550	July 1	100	227
Soap, washing powder and fluid. Cake	W. B. Reed	38,169	Apr. 22	99	858
Soaps and oils for treating and softening leather, hides, and hair	E. A. Warren	38,019	Apr. 1	99	221
Soaps. Laundry and toilet	N. K. Fairbank Company	38,484	June 17	99	2765
Soda and baking powder. Baking	Church & Dwight Co.	38,623	July 15	100	677
Soda-water and compounds and extracts for flavoring same	Hance Bros. & White	38,653	July 22	100	927
Soda-water and compounds and extracts for flavoring same	Hance Bros. & White	38,654	July 22	100	927
Soda-water and compounds and extracts for flavoring same	Hance Bros. & White	38,772	Aug. 12	100	1559
Soup, catchup, and chili-sauce. Tomato	T. A. Snider Preserve Company	39,035	Oct. 14	101	443
Spavin cure	Troy Chemical Co	37,895	Mar. 4	98	1961
Specific for the cure of kidney and bladder complaints	Foster-McClellan Co	38,081	Apr. 1	99	222
Spectacle and eyeglass frames and mountings. Certain named	Dupaul, Young Optical Co.	38,821	Aug. 19	100	1759
Spectacle and eyeglass frames and mountings. Certain named	Dupaul, Young Optical Co.	38,822	Aug. 19	100	1759
Spectacles and eyeglasses	American Optical Co.	37,633	Jan. 14	98	411
Sponges and washcloths	A. Frankenberg	38,986	Oct. 7	101	210
Spoons	J. B. & S. M. Knowles Co	38,086	Apr. 15	99	656
Sporting goods. Certain named	Draper & Maynard Company	37,650	Jan. 14	98	413
Sporting goods. Certain named	P. Goldsmith's Sons	38,587	July 8	100	446
Starch	New Orleans Coffee Co	38,304	May 20	99	1961
Starch	New Orleans Coffee Co	38,305	May 20	99	1961
Starch. Corn, laundry, and mill	Archer Starch Co	37,646	Jan. 14	98	413
Starch, dextrine, and gums. Certain named	W. L. Macomber & Co.	39,233	Nov. 11	101	1362
Starch for food purposes	A. E. Staley	39,146	Oct. 28	101	882
Stationery and type-writing supplies. Certain named	F. S. Webster Co	37,761	Feb. 4	98	1028
Stationery. Certain named	J. S. Stedler	38,525	July 1	100	224
Stationery. Certain named articles of	Bleistiftfabrik vormals Johann Faber Actiengesellschaft	39,448	Dec. 9	101	2220
Stays, garment-stiffeners, and collar foundations. Dress	A. A. Dieter & Co	38,188	Apr. 29	99	1164
Steam-engine indicators	R. Thompson & Co	38,223	May 6	99	1380
Steam, water, and gas fittings. Certain named	Walworth Manufacturing Company	38,594	Sept. 9	100	2380
Steel	Gyslinge Aktiebolag	38,320	May 20	99	1862
Stiffeners for flexible goods	A. A. Dieter & Co	37,849	Feb. 25	98	1700
Stiffeners. Garment	A. M. Weber	39,058	Oct. 21	101	652
Stiffening material	Warren Featherbone Co	39,395	Dec. 2	101	2070
Stove-polish	J. F. Myers	37,692	Jan. 28	98	786
Stove-polish	W. Hallemann	39,043	Oct. 14	101	444
Stoves and radiators. Gas	Criterion Gas Stove Mfg. Co.	38,222	May 6	99	1380
Stoves and ranges	H. Giesse	39,158	Oct. 28	101	884
Stoves and ranges. Cooking	American Stove Company	38,784	Aug. 12	100	1560

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Stoves and ranges. Cooking	American Stove Company	38,785	Aug. 12	100	1560
Stoves, furnaces, and attachments therefor	A. G. Ingalls	38,558	July 1	100	227
Stoves. Gasoline	Kinsey Mfg. Co	39,107	Oct. 21	101	657
Stoves, pails, tubs, and cans. Sheet-metal	Briscoe Manufacturing Co.	39,320	Nov. 18	101	1603
Stoves, ranges, heaters, and furnaces	Excelsior Stove and Mfg. Co.	38,178	Apr. 22	99	858
Stoves, ranges, heaters, and parts thereof	W. H. Phillips	39,216	Nov. 4	101	1126
Sugar	W. H. Edgar & Son	39,487	Dec. 16	101	2562
Sugar. Refined	Federal Refining Company	38,964	Sept. 30	100	3006
Sugar, syrup, and molasses	C. W. Goyer & Co.	39,631	Dec. 23	101	2815
Suits and overcoats. Men's	Fechheimer-Fishel Co.	39,299	Nov. 18	101	1601
Suppositories for local treatment of internal organs	H. R. Cousins	38,617	July 15	100	676
Surface-finishing materials. Certain named	J. J. Hockenjos Company	37,751	Feb. 4	98	1027
Suspender-belts.	A. J. Koch	38,743	Aug. 12	100	1556
Suspenders.	Nashawannuck Manufacturing Company	37,843	Feb. 25	98	1699
Suspenders.	A. C. Knothe	37,987	Mar. 25	98	2582
Suspenders	Chester Suspender Co	38,001	Apr. 1	99	219
Suspenders.	C. A. Edgerton Mfg. Company	39,164	Nov. 4	101	1120
Suspenders.	C. A. Edgerton Mfg. Company	39,165	Nov. 4	101	1120
Swimming-sleeves. Safety	F. B. Wesson	38,946	Sept. 30	100	3004
Swings and baby-jumpers	O. C. A. Manufacturing Company	39,548	Dec. 23	101	2817
Swings and chairs.	E. Perkins	37,972	Mar. 15	98	2358
Syringes	Tyer Rubber Co.	37,065	Jan. 21	98	578
Syringes	W. F. Glenn	39,327	Nov. 18	101	1604
Syrup and molasses. Table	Towle Syrup Company	38,683	July 29	100	1106
Syrup. Soothing	L. E. Masson	38,612	July 15	100	675
Syrup, sugar syrups, and molasses. Maple	Berdan & Co	39,340	Nov. 25	101	1823
Syrup, sugar syrups, and molasses. Maple	Berdan & Co	39,341	Nov. 25	101	1823
Syrups, cereals, coffee, baking-powder, and canned vegetables.	L. R. Howard & Co	38,476	June 17	99	2763
Syrups, sugar, and molasses	C. E. Coe	37,617	Jan. 7	98	221
Syrups, tinctures, pills, plasters, ointments, soaps, and perfumes.	G. R. White	38,014	Apr. 1	99	220
Table-sauce	J. C. Warvel	38,850	Aug. 26	100	1971
Tableware. Flat	Cattaraugus Cutlery Co	37,883	Mar. 4	98	1960
Tablets. Digestive	Carbonoid Mfg. Co	38,250	Nov. 11	101	1365
Tablets for blood and nervous disorders	Pearson Drug Co	38,304	Aug. 19	100	1757
Tablets for certain named diseases	A. H. Robins	37,981	Mar. 25	98	2581
Tablets. Fruit laxative	E. C. Houlette	39,524	Dec. 23	101	2814
Tablets or pellets for the breath	R. A. Brachvogel	38,013	Apr. 1	99	220
Talcum powder	H. N. Siegenthaler	38,730	Aug. 5	100	1325
Talking-machine records. Disk	W. V. P. Bradley	38,639	July 22	100	926
Talking-machines	Universal Talking Machine Co.	38,080	Apr. 8	99	441
Talking-machines. Disk	W. V. P. Bradley	38,668	July 23	100	1104
Tapioca. Prepared	Whitcan Grocery Company	39,183	Nov. 4	101	1122
Tea	Geo. K. McGaw & Co.	37,983	Mar. 11	98	2166
Tea	Geo. K. McGaw & Co.	37,984	Mar. 11	98	2166
Tea and coffee	C. D. Gregg	37,795	Feb. 11	98	1278
Tea, coffee, cocoa, and chocolate	Mazawattee Tea Co.	37,815	Feb. 18	98	1478
Teeth. Artificial	C. W. Munson	38,216	May 6	99	1373
Telephonic apparatus. Certain named	Hutchison Acoustic Co	38,469	Dec. 2	101	2071
Telephony and telegraphy. Certain named devices used in wireless	Federal Wireless Telephone & Telegraph Co.	38,213	Apr. 29	99	1166
Telphers. Certain named	United Telpherage Company	39,049	Oct. 14	101	444
Tennis. Parlor	Ransom & Meade	39,512	Dec. 23	101	2818
Textile fabrics. Cotton and silk woven	Davies Textile Co	38,715	Aug. 5	100	1323
Thermometers, barometers, and hydrometers	R. Hoehn Co	39,415	Dec. 2	101	2822
Thermometers. Clinical	H. Hirschberg Optical Company	38,856	Aug. 29	100	1971
Thermometers, surgical glassware and instruments	Becton, Dickinson & Co.	38,310	May 20	99	1861
Tickings	Amoskeag Manufacturing Company.	38,716	Aug. 5	100	1323
Tiles and masonry	R. Guastavino Company	39,105	Oct. 21	101	657
Tin and terne plates	American Tin Plate Co.	39,356	Nov. 25	101	1825
Tin and terne plates	American Tin Plate Co.	39,357	Nov. 25	101	1825
Tin and terne plates	American Tin Plate Co.	39,358	Nov. 25	101	1825
Tin and terne plates	American Tin Plate Co.	39,359	Nov. 25	101	1825
Tin and terne plates	American Tin Plate Co.	39,505	Dec. 16	101	2564
Tin oxid.	Roessler & Hasslach Chemical Co	37,732	Feb. 4	98	1025
Tires for bicycles, carriages, and automobiles. Pneumatic	Fisk Rubber Company	38,700	July 29	100	1107
Tires for vehicles. Rubber	International Automobile and Vehicle Tire Company.	39,212	Nov. 4	101	1125
Tires. Rubber.	Goodyear Tire and Rubber Company.	38,572	July 8	100	444
Tires. Rubber	W. T. Beasley	39,550	Dec. 23	101	2817
Tires. Solid rubber	Goodyear Tire & Rubber Co	39,007	Oct. 7	101	213
Tires. Vehicle	New York Belting & Packing Co.	37,834	Feb. 18	98	1480
Tires. Vehicle	New York Belting & Packing Co.	38,317	May 20	99	1862
Tobacco	Flournoy Tobacco Co.	38,599	Dec. 30	101	3100
Tobacco. Certain named	Flournoy Tobacco Co.	38,600	Dec. 30	101	3101
Tobacco. Chewing and smoking	H. E. Wildermuth.	38,473	June 17	99	2763
Tobacco, cigars, and cigarettes	J. G. Grant	37,796	Feb. 11	98	1278
Tobacco, cigars, cheroots, and cigarettes. Smoking	B. Muratti, Sons & Co.	37,718	Feb. 4	98	1024
Tobacco, cigars, cheroots, cigarettes, and snuff. Smoking and chewing	F. E. Van Rualte	38,580	July 8	100	445
Tobacco. Leaf.	W. T. Grant & Co.	38,532	July 1	100	225
Tobacco. Leaf.	W. T. Grant & Co.	38,533	July 1	100	225
Tobacco. Plug, roll, twist, and granulated	M. E. Nash Tobacco Co.	37,956	Mar. 18	98	2357
Toilet articles and preparations. Certain named	R. M. Holland	37,647	Jan. 14	98	412
Toilet articles and preparations. Certain named	Rezo Remedy Co	37,740	Feb. 4	98	1026
Toilet articles. Certain named	D. P. Watson	38,852	Aug. 26	100	1971
Toilet creams, ointments, and soaps	L. R. McEwen & Co.	38,298	May 20	99	1860
Toilet preparations	Everly Limited	37,739	Feb. 4	98	1026
Toilet preparations and soap. Certain named	M. B. Hubbert.	37,735	Feb. 11	98	1277
Toilet preparations. Certain named	"Trybol" Actienges. f. Fabrik u. Vertrieb hyg.-med. Präparate Schaffhausen.	37,958	Mar. 18	98	2357
Toilet preparations. Certain named	Virgilina Mfg. Co	38,247	May 13	99	1613



*Alphabetical list of trade-marks—Continued.*

Title.	Name.	No.	Date.	Official Gazette.	
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Toilet preparations. Certain named.	Theo A. Kochs Company	38,483	June 10	99	2543
Toilet-waters and perfumes	L. H. Pearce	38,193	Nov. 4	101	1124
Tonic	J. Triner	37,750	Feb. 4	98	1027
Tonic	A. H. Hopkins	38,650	July 22	100	927
Tonic	F. L. Beggs	38,806	Aug. 19	100	1757
Tonic	Independent Brewing Association	38,807	Aug. 19	100	1757
Tonic	Frederick Stearns & Company	39,001	Oct. 7	101	212
Tonic	Valley Chemical Co.	39,190	Nov. 4	101	1124
Tonic and blood-vitalizer	Saginaw Medicine Co.	38,197	Apr. 29	99	1163
Toni- and medicinal food.	J. Herb	37,859	Feb. 25	98	1701
Tonic and restorative medicines.	Bendiner & Schlesinger	37,858	Feb. 25	98	1701
Tonic, antiperiodic, and antipyretic preparation	A. H. Still	37,860	Feb. 25	98	1701
Tonic. Blood-	M. D. Perkins	38,805	Aug. 19	100	1757
Tonic. Blood-	Maltine Company	39,525	Dec. 23	101	2814
Tonic. Blood and liver	W. Deerfoot	38,751	Aug. 12	101	1557
Tonic. Chill and fever	T. S. Roberts	38,957	Sept. 30	100	3006
Tonic. Complexion	W. H. Bartley	39,248	Nov. 11	101	1365
Tonic for the bladder and kidneys	A. Spiegel Co.	38,917	Sept. 23	100	2768
Tonic. General	Tonisan Co.	39,026	Oct. 14	101	442
Tonic. General	F. E. Wilson	39,140	Oct. 28	101	882
Tonic. Nerve	E. N. Baker	38,677	July 29	100	1105
Tonic. Syrup for soda-water fountains in the nature of an iron.	F. D. Dempster & Co.	39,232	Nov. 11	101	1363
Tonic tablets. Nerve-	C. R. Graham	39,249	Nov. 11	101	1365
Tonics	I. W. Douglass	37,857	Feb. 25	98	1700
Tonics	H. K. Mulford Co.	38,614	July 15	100	676
Tonics and flavoring extracts. Vegetable	B. F. Miner	39,086	Oct. 21	101	655
Tonics and stomach-bitters	J. Personeni	39,141	Oct. 28	101	882
Tonics for certain named diseases	A. L. Richard	39,025	Oct. 14	101	442
Tonics, ointments, and kidney remedies	E. M. Roberts	39,027	Oct. 21	101	555
Tools. Certain named	Cleveland Twist Drill Co.	37,767	Feb. 4	98	1028
Tooth-filling	J. A. Sprague & Co.	39,509	Dec. 23	101	2813
Tooth-powder and tooth-paste.	J. H. Coyle	38,645	July 22	100	926
Torpedoes.	L. J. Morse	38,210	Apr. 29	99	1166
Toy banks	A. C. Williams	37,693	Jan. 28	98	787
Toy carpet-sweeper	Bissell Carpet Sweeper Co.	39,416	Dec. 9	101	2277
Toy wagons and similar toy vehicles	Garion Company	38,469	June 3	99	575
Toys and display-trays or carriers for toys	R. W. Beiser	37,894	Feb. 18	98	1477
Tripods. Adjusting-heads for	W. H. Flichmann	39,406	Dec. 2	101	2071
Trousers	D. Present	37,778	Feb. 11	98	1276
Trousers	L. D. Levy	37,802	Feb. 18	98	1477
Trousers	Rosenthal and Goldberg	38,600	July 15	100	674
Trousers, overalls, jumpers, and shirts. Men's and boys'	May Pants Co.	37,949	Mar. 18	98	2356
Tubes, vials, boxes, vaccination-shields, and wrapping-sheets. Collapsible	Transplant Cellulose Products Company	39,510	June 24	99	2960
Turpentine. Mixed	John A. Casey Company	37,872	Feb. 25	98	1702
Type. Fonts of	American Type Founders' Company	38,045	Apr. 1	99	223
Type-writer ribbons	Miller, Bryant, Pierce Co.	38,820	Aug. 19	100	1759
Type-writer ribbons	Elliott & Hatch Book Typewriter Company	39,204	Nov. 4	101	1125
Type-writer ribbons, carbon-papers, stamp-ribbons, and type-writer oil.	Typewriter Cushion Key Co.	37,671	Jan. 28	98	784
Type-writers	H. D. Carey	37,798	Feb. 11	98	1278
Type-writing supplies. Certain named	Typewriter Cushion Key Co.	37,760	Feb. 4	98	1027
Umbrellas	F. W. Rotzell	39,210	Nov. 4	101	1125
Undergarments	C. Dufour	38,150	Apr. 22	99	835
Undershirts	Athens Knitting Co.	38,601	July 21	100	674
Underwear	Irving Knitting Mills.	37,556	Jan. 21	98	575
Underwear	W. S. Lloyd	39,590	Dec. 30	101	3099
Underwear and hosiery. Woven and knitted	G. W. Schlichter	38,978	Oct. 7	101	209
Underwear. Certain named	Youngstown Dry Goods Company	39,112	Oct. 28	101	879
Underwear, excepting therefrom corsets and waists	Chicago-Rockford Hosiery Co.	37,705	Feb. 4	98	1023
Vanillin and phenetidin. Derivatives of	Verenigte Chininfabriken Zimmerling & Co., Ges. mit Beschränkter Haftung.	39,577	Dec. 30	101	3098
Varnishes	F. Happel	38,130	Apr. 15	99	660
Varnishes	Imperial Varnish & Color Co.	38,280	May 13	99	1616
Varnishes	American Varnish Company	39,044	Oct. 14	101	444
Varnishes	American Varnish Company	39,045	Oct. 14	101	444
Varnishes	Ohio Varnish Company	39,101	Oct. 21	101	657
Varnishes and japans	Mayer & Loewenstein	38,205	Apr. 29	99	1166
Varnishes and japans	Mayer & Loewenstein	38,206	Apr. 29	99	1166
Varnishes and shellacs	E. Calman & Co.	39,154	Oct. 28	101	883
Varnishes. Certain named	Chase, Roberts & Company	38,309	May 20	99	1861
Varnishes, japans, finishes, and first coatings	Cleveland Varnish Co.	39,246	Nov. 11	101	1365
Varnishes, wood fillers and stains, and paints	Standard Varnish Works	38,172	Apr. 22	99	838
Vases, urns, dishes, lamps, and pressed ware generally	O. A. Myratt	37,765	Feb. 4	98	1028
Vegetable albumens in dry or liquid form	United States Plantose Company	38,551	July 1	100	227
Vehicle-brakes	F. F. Weston	38,143	Apr. 15	99	662
Vehicles. Certain named motor-	Locomobile Company of America	39,506	Dec. 16	101	2564
Ventilating devices	Detroit Ventilating Co.	38,093	Apr. 8	99	442
Vermin-destroyers	A. Nathan	38,360	May 27	99	2096
Vermin-extinator containing no sugar	Bristol Drug Company	38,201	Apr. 29	99	1166
Vests. Shirt-	United Shirt Vest Co.	38,861	Sept. 2	100	2171
Veterinary bandages. Certain named	J. T. Ashworth	38,465	June 17	99	2762
Veterinary compound for external use. Liquid antiseptic	F. C. Cusback	38,173	Nov. 4	99	2543
Veterinary remedies. Certain named	J. Baker	39,460	Dec. 9	101	2281
Veterinary remedies for cholera	Bowell & Bircham Manufacturing Company	38,763	Aug. 12	100	1558
Veterinary remedy	E. M. Krueger	38,672	July 29	100	1105
Vinegar	Jones Bros. & Co.	38,073	Apr. 8	99	440
Vinegar	H. J. Heinz Co.	38,813	Aug. 19	100	2758
Vinegar. Cider-	F. W. Sieck	38,173	Nov. 4	101	1121
Vinegar. Spirit-	C. E. Meyer & Co.	38,967	Sept. 30	100	3007
Wadding. Wool.	Norman & Evans	38,012	Apr. 1	99	220

## Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette.	
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Wagons. Certain named.....	Fish Bros. Wagon Company.....	39,292	Nov. 18	101	1600
Waists.....	Sahlin Corset Co.....	37,774	Feb. 11	98	1276
Wall-coverings. Decorative.....	Standard Table Oil Cloth Company.....	39,124	Oct. 28	101	88.
Wall finishing and decorating material.....	Muralo Company.....	38,393	Sept. 23	100	2770
Wall hangings and coverings. Certain named.....	Fredk. Walton & Co.....	38,509	July 8	100	444
Washboards.....	American Washboard Co.....	38,445	June 10	99	2544
Washcloths made of knit fabrics.....	B. Lodge & Co.....	39,118	Oct. 28	101	879
Washing compounds.....	Phoenix Chemical Co.....	38,121	Apr. 15	99	659
Washing compounds. Certain named.....	National Supply Co.....	38,627	July 15	100	677
Washing compounds. Certain named.....	C. C. Gerhart.....	38,685	July 29	100	1106
Washing-machines.....	Voss Brothers Manufacturing Company.....	37,669	Jan. 21	98	578
Washing-machines.....	E. H. Huenefeld.....	37,898	Feb. 18	98	1479
Washing-machines.....	E. Huenefeld.....	37,992	Mar. 25	98	2582
Washing-machines.....	B. L. Schmidt.....	39,555	Dec. 23	101	2818
Washing-machines. Hand.....	Vandergrift Mfg. Co.....	37,878	Feb. 25	98	1702
Watchcases.....	Illinois Watch Case Co.....	39,586	Dec. 30	101	3099
Watches.....	New England Watch Co.....	39,464	Dec. 16	101	2560
Watches.....	New England Watch Co.....	39,465	Dec. 16	101	2560
Watches.....	New England Watch Co.....	39,466	Dec. 16	101	2560
Watches and watch-movements.....	H. F. Hahn & Co.....	38,974	Oct. 7	101	209
Watches, watchcases, and watch-movements.....	Philadelphia Watch-Case Co.....	37,771	Feb. 11	98	1276
Watches, watchcases, and watch-movements.....	United States Watch Co.....	37,836	Feb. 25	98	1699
Watches, watchcases, and watch-movements.....	Keystone Watch Case Company.....	38,526	July 1	100	224
Water. Apparatus for electrically purifying.....	Electra-Pura Water Company.....	39,404	Dec. 2	101	2071
Water. Electrically-purified.....	Electra-Pura Water Co.....	39,528	Dec. 23	101	2815
Water purifying and softening machinery.....	J. B. Scudde & Sons Co.....	38,776	Aug. 12	100	1359
Water. Spring.....	R. B. Hemingway.....	37,980	Mar. 25	98	2581
Water. Spring.....	G. J. Carney.....	38,118	Apr. 15	99	659
Waters. Drinking.....	Chemung Spring Water Company.....	37,979	Mar. 25	98	2581
Waterproof cloth.....	Flint Woolen Mills Co.....	37,946	Mar. 18	98	2356
Waterproof cloths, silks, and other textile fabrics.....	International Water-Proofing Co.....	37,673	Jan. 28	98	784
Waterproofing compound.....	Row Brothers.....	39,243	Nov. 11	101	3101
Wax. Sealing.....	G. Waterston & Sons.....	39,607	Dec. 30	101	3101
Wheat, corn, oats, flour, cornmeal, mixed feed, bran, and rice-bran.....	J. I. Glover.....	39,317	Nov. 18	101	1603
Whips.....	L. H. Beas & Son Co.....	39,104	Oct. 21	101	657
Whiskies.....	Hilbert Brothers.....	37,794	Feb. 11	98	1278
Whiskies and cigars.....	Melini & Eakin.....	38,252	May 13	99	1614
Whisky.....	E. J. Quinn.....	37,817	Feb. 18	98	1478
Whisky.....	J. Buchanan.....	37,852	Feb. 25	98	1700
Whisky.....	J. Buchanan.....	37,853	Feb. 25	98	1700
Whisky.....	A. Ferguson & Co.....	37,856	Feb. 25	98	1700
Whisky.....	J. E. Ahrens.....	38,426	June 10	99	2542
Whisky.....	J. Buchanan.....	38,774	Aug. 12	100	1559
Whisky.....	J. G. Litz.....	38,811	Aug. 19	100	1758
Whisky.....	G. Gump & Sons.....	39,027	Oct. 14	101	442
Whisky.....	H. A. Thierman Company.....	39,028	Oct. 14	101	442
Whisky.....	H. A. Thierman Company.....	39,029	Oct. 14	101	442
Whisky.....	H. A. Thierman Company.....	39,030	Oct. 14	101	442
Whisky.....	S. Westheimer.....	39,031	Oct. 14	101	443
Whisky.....	Melvale Distilling Company.....	39,483	Dec. 16	101	2561
Whisky.....	J. C. Somers & Co.....	39,571	Dec. 30	101	3097
Whisky and beverages containing same.....	Kennedy Distilling Company.....	39,085	Oct. 21	101	655
Whisky and brandy tonic.....	H. Kaehler.....	39,439	Dec. 9	101	2379
Whisky and whisky preparations.....	Rothenberg Co.....	38,844	Aug. 26	100	1970
Whisky. Irish.....	Innes & Grieve.....	37,723	Feb. 4	98	1024
Whisky. Scotch.....	Innes & Grieve.....	37,722	Feb. 4	98	1024
Whisky. Scotch.....	J. Caldwell.....	37,854	Feb. 25	98	1700
Whisky. Scotch.....	J. Caldwell.....	37,855	Feb. 25	98	1700
Whisky. Scotch.....	Marshall, McEwen & Co.....	39,343	Nov. 25	101	1823
Whisky. Scotch.....	Hill, Thomson & Co.....	39,438	Dec. 9	101	2379
Whisky, wine, malted liquors, and non-alcoholic beverages.....	C. Wilson.....	38,162	Apr. 22	99	857
Windmills.....	Flint & Walling Manufacturing Company.....	39,161	Oct. 28	101	884
Windmills, pumps, towers, tanks, and cylinders.....	R. G. Marcy Mfg. Co.....	37,800	Feb. 11	98	1278
Wine.....	Carmel Wine Co.....	38,033	Apr. 1	99	222
Wine.....	Carmel Wine Co.....	38,034	Apr. 1	99	222
Wines and brandies.....	Siegel-Cooper Co.....	38,812	Aug. 19	100	1758
Wines, brandies, and whiskies.....	E. L. Hyman.....	39,142	Oct. 28	101	882
Wines. Port and sherry.....	G. G. Sandeman Sons & Co.....	38,924	Sept. 23	100	2769
Witch-hazel.....	American Witch Hazel Corporation.....	39,461	Dec. 9	101	2382
Witch-hazel.....	American Witch Hazel Corporation.....	39,462	Dec. 9	101	2382
Witch-hazel. Certain distilled product of.....	E. E. Dickinson & Co.....	38,546	July 1	100	226
Wood and omposition. Articles made of enameled.....	J. C. Dowd & Co.....	37,990	Mar. 25	98	2582
Wood-fillers and primers.....	David B. Crockett Company.....	38,892	Sept. 9	100	2379
Wood flooring and hard-wood and basswood ceilings, and shingles. Hard.....	Wisconsin Land & Lumber Co.....	38,830	Aug. 19	100	1760
Wood. Preparation for effecting the combustion of fire.....	Dunbar Company.....	37,906	Mar. 4	98	1963
Wrappers, waists, skirts, and muslin underwear.....	Strong, Lee & Co.....	39,222	Nov. 11	101	1369
Writing fluids and inks.....	J. H. Tisdall.....	37,763	Feb. 4	98	1028
Writing-machines and type-writers.....	Imperial Writing Machine Co.....	30,046	Apr. 1	99	224
Yarns.....	A. O. Meyer.....	38,331	May 27	99	2093
Yarns and thread. Certain named.....	Calhoun, Robbins & Company.....	38,664	July 29	100	1104





# ALPHABETICAL LIST OF LABELS.

Title.	Name.	No.	Date.	Official Gazette.	
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"A. Mfg. Co." (For Overalls).....	American Mfg. Co.....	9,064	Apr. 8	99	448
"A Pocket Hat Luer." (For Hat-Luers).....	C. E. Sackett.....	9,393	Aug. 19	100	1761
"A Pocket Hat Luer." (For Hat-Luers).....	C. E. Sackett.....	9,394	Aug. 19	100	1761
"A Pocket Hat Luer." (For Hat-Luers).....	C. E. Sackett.....	9,410	Sept. 2	100	2173
"Abdul's Sextizer." (For Medicine).....	C. Pfeiffer.....	9,486	Oct. 14	101	445
"Aceton." (For a Medicine).....	Aceton Medical Co.....	8,915	Jan. 21	98	579
"Acheson Graphite." (For Graphite).....	International Acheson Graphite Co.....	9,004	Mar. 4	98	1965
"Acme Mineral Water." (For Mineral Water).....	Acme Mineral Water Company.....	9,280	July 8	100	447
"Adeva." (For Cigars).....	Schmidt & Co.....	8,984	Jan. 28	98	789
"Adirondack." (For Cement).....	Glens Falls Portland Cement Co.....	9,065	Mar. 4	98	1065
"Adrian." (For Flour).....	Detroit Milling Co.....	9,361	Aug. 5	100	1327
"Advance Stock Food." (For Animal-Food).....	F. W. Simpson.....	9,105	Apr. 29	99	1167
"Airlint." (For Footwear).....	F. W. Slater.....	9,451	Sept. 30	100	3009
"Akims Dropsy Cure." (For Dropsy Cure).....	W. Akims & Sons.....	8,969	Feb. 11	98	179
"Alderney Baking Powder." (For Baking-Powder).....	National Label Co.....	9,331	July 29	100	1019
"Alpha Oil." (For a Medicine).....	F. L. Palmer.....	9,114	Apr. 29	99	1167
"Alpine." (For Whooping-Cough Compound).....	A. Markert.....	9,507	Oct. 21	101	659
"Alt Nurnberger Briu." (For Beer).....	Grand Rapids Brewing Company.....	9,351	Aug. 5	100	1327
"Ambition Pills." (For Medicine).....	S. B. Larned and L. J. Barker.....	9,310	July 15	100	679
"Am-Bo-Line, The Worlds Eradicator." (For a Cleansing Compound).....	V. A. McCoy.....	9,588	Dec. 9	101	2283
"American Hulled Beans." (For a Food Preparation).....	American Hulled Bean Company.....	9,025	Mar. 18	98	2359
"American Wire Weavers Protective Association." (For Fourdrinier Wire-Cloth).....	New Jersey Division of the American Wire Weavers Protective Association.....	9,296	July 15	100	679
"Ammonia Celery." (For Medicine).....	Thos. Kelly & Son.....	9,327	July 29	100	1109
"Anchor Brand." (For Underwear).....	Tabor, Hochner & Tabor.....	9,501	Oct. 21	101	659
"Anchor Bridges No. 8. Supplement." (For Building-Boxes).....	F. Ad. Richter & Co.....	9,517	Nov. 4	101	1127
"Anchor Bridges No. 4. Supplement." (For Building-Boxes).....	F. Ad. Richter & Co.....	9,522	Nov. 4	101	1127
"Anchor Bridges No. 6. Supplement." (For Building-Boxes).....	F. Ad. Richter & Co.....	9,524	Nov. 4	101	1127
"Anglo-Egyptian." (For Cigarettes).....	D. J. Vlasto.....	9,386	Aug. 19	100	1761
"Animals." (For Macaroni).....	C. F. Mueller & Co.....	8,973	Feb. 18	98	1481
"Ann Arbor Patent." (For Flour).....	Michigan Milling Co.....	9,032	Mar. 25	98	2583
"Anti-Whoop." (For a Medicine).....	F. C. Titzell.....	8,914	Jan. 21	98	579
"Antigia." (For Medicine).....	J. P. Gubboey.....	8,363	Feb. 11	98	1167
"Antiseptic Health Fabric." (For Fabrics).....	J. S. Given.....	9,079	Apr. 15	99	663
"Aperient Elk Splits." (For Beverages).....	Andrew Lohr Bottling Co.....	8,977	Feb. 18	98	1481
"Arbelot & Cie. Cognac." (For Cognac).....	A. J. Guislin.....	9,026	Mar. 18	98	2359
"Arctic Maid." (For Cigars).....	Schmidt & Co.....	9,375	Aug. 12	100	1561
"Aristypho." (For Cigarettes).....	Aristypho Company.....	9,348	Aug. 5	100	1327
"Arkansas Lithia Water." (For Mineral Water).....	Arkansas Lithia Springs Co.....	9,541	Nov. 11	101	1367
"Athenian." (For Evaporated Fruits).....	W. A. Higgins & Co.....	9,255	July 1	100	229
"Aunt Kate's Pancake Syrup." (For Syrup).....	Truesdell Syrup Company.....	9,630	Dec. 23	101	2819
"Aurelian." (For Mineral-Spring Water).....	Palmyra Springs Sanitarium Co.....	9,108	Apr. 29	99	1167
"Baby Ease." (For Medicine).....	T. P. Marshall.....	9,390	Aug. 19	100	1761
"Baby Ribbon." (For Cigars).....	Schmidt & Co.....	9,374	Aug. 12	100	1561
"Bailey." (For Planes).....	Stanley Rule & Level Co.....	8,980	Jan. 7	98	233
"Ballou's Rosegay Cigars." (For Cigars).....	C. E. Ballou.....	9,148	May 20	99	1863
"Baner Band." (For Condensed Milk).....	Northern Condensed Milk Co.....	9,405	Aug. 26	100	1973
"Bartner's Floral Cream." (For Complexion Preparation).....	A. H. Bartner.....	9,047	Apr. 1	99	225
"Bass Brook." (For Whisky).....	S. Bass.....	9,402	Aug. 26	100	1973
"Battle." (For Coffee).....	Southern Coffee Company.....	9,476	Oct. 7	101	215
"Baume de Princesse." (For Facial Massage Preparation).....	Alleshouse Pharmacal Co.....	9,452	Sept. 30	100	3009
"Baxter Maryland Rye." (For Whisky).....	Wineke-Bauernschmidt Co.....	9,617	Dec. 16	101	2565
"Beecleaner." (For Washing-Powder).....	J. W. Hussey.....	8,951	Feb. 4	98	1299
"Belgian Hair Grower." (For Hair-Tonic).....	W. C. Ballowitz.....	9,015	Mar. 11	98	2169
"Belgian Soap." (For Soap).....	W. C. Ballowitz.....	9,214	June 10	99	2545
"Belle Peep." (For Cigars).....	American Lithographic Company.....	9,287	July 8	100	447
"Bell's Barbwire Liniment." (For Liniment).....	G. W. Bell & Son.....	9,343	Aug. 5	100	1327
"Beltine." (For a Preservative and Filler for Belts).....	A. and H. Leibold.....	9,509	Oct. 21	101	659
"Ben King." (For Cigars).....	Ben King Cigar Co.....	9,430	Sept. 9	100	2381
"Best in the World." (For Meats, Provisions, Meat Products, Biscuits, and Sausages).....	B. Adler.....	9,592	Dec. 9	101	2283
"Best Patent Flour Guaranteed Highest Quality Made." (For Flour).....	A. B. McCrillis & Son.....	9,614	Dec. 16	101	2565
"Betts Headache and Neuralgia Cure." (For a Medicine).....	S. J. Betts.....	9,115	Apr. 29	99	1167
"Big 4 Cough and Cold Cure." (For a Medicine).....	J. C. Banta.....	9,089	Apr. 22	99	859
"Big 4 External Anodyne Liniment." (For Medicine).....	J. C. Banta.....	9,234	June 17	99	2767
"Blackbird." (For Lithia-Water).....	Arlen & Ingversen.....	9,097	Apr. 22	99	859
"Black Elastic Roof Paint." (For Roof-Paint).....	Tanner Padet & Oil Co.....	9,237	June 10	99	2545
"Blue Bell." (For Cigars).....	S. Butler & Co.....	9,204	June 10	99	2545
"Blue Bell." (For Evaporated Fruits).....	W. A. Higgins & Co.....	9,254	July 1	100	229
"Blue Bell." (For Flour).....	Detroit Milling Co.....	9,360	Aug. 5	100	1327
"Blue Label Pure Rye Whiskey." (For Whisky).....	C. F. Sullivan & Co.....	9,145	May 20	99	1863
"Blue Lion 36-Inch Percale." (For Percale).....	H. B. Clavin Company.....	9,981	Feb. 25	99	1703
"Blue Ribbon." (For Oil).....	Consolidated Oil Co.....	9,057	Apr. 1	99	225
"Bob White." (For Whisky).....	W. J. Vanderheide.....	9,313	July 22	100	929
"Boro Quinine Hair Tonic." (For Hair-Tonic).....	W. A. Amsberry.....	9,124	May 6	99	1381
"Boro Salicine." (For a Medicine).....	Boro-Salicine Co.....	9,307	July 15	100	679



## Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette.	
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"Boss." (For Washing-Machines)	C. Dietz	9,045	Mar. 25	98	2583
"Boston Light Gelatin." (For Gelatin)	A. L. Steck	9,441	Sept. 2	100	2173
"Bowler's Club Rye Whiskey." (For Rye Whiskey)	W. Stastny	9,058	Apr. 1	99	225
"Brandine." (For Medicine)	C. O. Rano	9,237	June 17	99	2767
"Bräu." (For Beer)	A. von Cotzhausen	9,263	July 1	100	229
"Bread in a Bag." (For Bread)	Schulze Baking Co.	9,548	Nov. 11	101	1367
"Bromunt." (For Headache Cure)	Koehler & Hinrichs	9,314	July 22	100	929
"Brooks Co. Makers." (For Hats)	C. E. Sackett	9,397	Aug. 26	100	1373
"Buchanan Blend." (For Scotch Whisky)	J. Buchanan	9,574	Nov. 25	101	1837
"Buckeye Brand Meats." (For Meats)	Armstrong, Riley & Co.	9,213	June 10	99	2545
"Bull-Dog." (For Cigars)	J. W. Merriam & Co.	9,112	Apr. 29	99	1167
"Bunkie." (For Cigars)	E. J. Root	9,067	Apr. 8	99	443
"Burnham's Soluble Iodine (The Original)." (For Soluble Iodine)	Burnham Soluble Iodine Co.	9,087	Apr. 22	99	859
"Busy Bee." (For Cigars)	E. de Bauernfeind and C. Blesse	8,976	Feb. 18	98	1481
"Butter Nut Bread." (For Bread)	Schulze Baking Co.	9,818	Jan. 21	99	579
"C. Bohley's Cough Medicine." (For Cough Medicine)	C. Bohley	9,433	Sept. 30	100	3009
"Calder's Saponaceous Dentine." (For Dentifrice)	A. L. Calder	9,157	May 20	99	1863
"Calorie Punsch." (For Punsch)	B. Lindqvist & Co.	8,978	Feb. 18	98	1481
"Camden Pure Wheat Starch Unchemicaled." (For Wheat Starch)	Camden & Philadelphia Soap Company.	9,172	May 27	99	2099
"Camel Brand Figs." (For Figs)	S. S. Pierce & Co.	9,616	Dec. 16	101	2565
"Campe Hair-Food." (For Hair-Food)	Campe Chemical Co.	9,424	Jan. 25	100	2771
"Campeagne-Tablets." (For a Medicine)	F. J. Rice	9,424	Sept. 2	100	2173
"Camthol." (For Medicine)	T. L. Anderson	9,292	July 8	100	447
"Canastota's Best 5c. Cigar." (For Cigars)	Detor Bros.	9,442	Sept. 23	100	2771
"Canby, Aeh and Canby's Peerless One Spoon Baking Powder." (For Baking Powder)	National Label Co.	8,928	Jan. 28	98	789
"Cannon Ball." (For Cigars)	T. A. Robinson	8,921	Jan. 28	98	789
"Can't Shake 'Em Off." (For Eyeglasses)	H. H. Watts	9,018	Apr. 22	99	850
"Capiaux." (For Hair-Tonic)	Chapheer Bros.	9,294	July 8	100	447
"Capitol Maryland Rye." (For Whisky)	J. A. Bokel	9,460	Sept. 30	100	3009
"Carter's National Bank Ink." (For Ink)	Carter's Ink Company	8,970	Feb. 18	98	1481
"Carterland's Orange Formosa." (For Tea)	Milliken, Tomlinson Co.	8,997	Mar. 4	98	1965
"Cast Steel Cement." (For Cement)	Clark Cast Steel Cement Co.	9,321	July 29	100	1109
"Castro Portuondo." (For Cigars)	J. E. Block & Co.	9,169	May 27	99	2099
"Cats-Eye Dry Battery." (For Dry Batteries or Their Containers)	Manufacturers' and Inventors' Electric Co.	9,594	Dec. 9	101	2283
"Ceel." (For Whisky)	Wineke-Bauernschmidt Co.	9,632	Dec. 23	101	2819
"Cedarine Ointment." (For Ointment)	A. W. Hungerford & Son	9,165	May 27	99	2099
"Cefalu Siella." (For Olive-Oil)	Olive Oil Importing Co.	9,578	Nov. 25	101	1827
"Celery Champagne." (For a Beverage)	Artesian Mfg. & Bottling Co.	9,035	Mar. 25	98	2543
"Celery Champagne." (For a Beverage)	Artesian Mfg. & Bottling Co.	9,036	Mar. 25	98	2543
"Chameleon." (For Molasses)	C. W. Goyer & Co.	9,642	Dec. 30	100	3103
"Champagne Velve Beer." (For Bottled Beer)	Ter-Haute Brewing Co.	9,337	Oct. 14	101	445
"Champion Stock Food." (For Stock-Food)	W. L. Handley	8,937	Jan. 28	98	789
"Chariot." (For Evaporated Fruits)	W. A. Higgins & Co.	9,258	July 1	100	229
"Chase & Sanborn Seal Brand Coffee." (For Coffee)	Chase & Sanborn	9,356	Aug. 5	100	1327
"Chase & Sanborn Seal Brand Coffee." (For Coffee)	Chase & Sanborn	9,357	Aug. 5	100	1327
"Chase's Formosa Oolong Tea." (For Tea)	Milliken, Tomlinson Co.	9,576	Nov. 25	101	1827
"Cheskawago." (For Cigars)	American Lithographic Company	9,465	Sept. 30	100	3009
"Chesterfield Splits." (For Aperient Water)	Swineford's Arsenic-Lithia Water Co.	9,445	Sept. 23	100	2771
"Children's Hour." (For Syrup)	S. H. Williams	9,180	June 3	99	2317
"Chilian Eye Balm." (For Eye-Lotion)	A. B. Cooling and G. W. Cole	9,164	May 27	99	2099
"Chlorothol." (For Anodyne)	J. W. Van Winkle	8,984	Feb. 25	98	1703
"Cinco." (For a Beverage)	G. S. Preston	9,186	June 3	99	2317
"Club Cafe Family Nectar Rye Whiskey." (For Whisky)	J. Groetsch	9,111	Apr. 29	99	1167
"Coca-Cola." (For a Medicinal Preparation)	A. J. G. E. Coleman	9,155	May 30	99	1867
"Cold Cucumber Cream." (For a Cosmetic)	K. Blood	9,589	Dec. 9	101	2283
"Colorado Rocky Mountain Cough and Catarrh Root." (For a Medicine)	J. Blanchard and C. H. McIntyre	9,342	Aug. 5	100	1327
"Compliments of the Season." (For Cigars)	American Lithographic Company	9,334	July 29	100	1109
"Con Keefe Cognac." (For Brandy)	C. Keefe, Jr.	9,135	May 13	99	1619
"Cook's Budweiser." (For Bottled Beer)	F. W. Cook Brewing Co.	9,350	Aug. 5	100	1327
"Corn Husker." (For Cigars)	Schmidt & Co.	9,471	Sept. 30	100	3009
"Coronation Violet." (For Perfume)	Caswell, Massey & Company	8,891	Jan. 14	98	413
"Cortez Portuondo." (For Cigars)	I. Block	9,300	July 15	100	679
"Council Brand." (For Cigars)	E. Travis	9,366	Aug. 12	100	1561
"Country Club Stogies." (For Stogies)	C. F. Frazee Stogie Co.	9,441	Sept. 16	100	2599
"Cow Hide." (For Paper Bags)	Old Dominion Paper Co.	9,250	July 1	100	229
"Cream of Oats." (For a Cereal Product)	H. L. Milnes	9,024	Mar. 18	98	2359
"Cream Syrup." (For Syrup)	California Mercantile Co.	8,863	May 30	99	1867
"Crescent Silk Velvet." (For Velvet)	R. A. Hayes	9,160	Mar. 27	99	2099
"Crescent Stock Food Co., Knoxville, Ill." (For Stock-Food)	Funk & Varnier	9,243	June 17	99	2767
"Crown." (For Cigars)	Schmidt & Co.	9,113	Apr. 29	99	1167
"Crozier's Arabian Liniment for Man and Beast." (For a Liniment)	W. Crozier	9,626	Dec. 23	101	2819
"Cupid." (For Chocolates and Bonbons)	James McIntosh Company	8,946	Feb. 4	98	1029
"Cure All Liniment." (For Liniment)	L. E. Wood	9,146	Jan. 13	99	1619
"Cybeline." (For Dandruff Cure)	L. E. Tynd	9,329	July 29	100	1109
"De Grath's Liniment." (For a Liniment)	A. B. De Grath	8,889	Jan. 7	98	223
"De Laney Bros. Egg and Pine Tar Liquid Shampoo." (For a Shampoo)	J. H. Delaney	9,568	Nov. 25	101	1827
"Derma Detergent." (For a Complexion Preparation)	H. Walker	9,028	Mar. 18	98	2359
"Dermadura." (For a Medicine)	J. C. Nelson & Co.	8,942	Feb. 4	98	1029
"Dermicure." (For a Medicine)	G. B. Holden	8,917	Jan. 21	98	579
"Devonshire Relish." (For a Table-Sauce)	L. M. Roberts	8,895	Jan. 14	98	413
"Diagonal Checker Board." (For a Game)	G. H. Bailey	9,335	Nov. 11	101	1367
"Directions." (For Toy Bird)	Lexington Toy Bird Co.	8,979	Feb. 25	98	1703
"Directions for Applying Barrett's Weatherproof Roofing." (For Roofing Material)	Barrett Manufacturing Company	9,383	Aug. 12	100	1561
"Directum." (For Whisky)	L. Becker Co.	9,542	Nov. 11	101	1367
"Diver Brand Sponges." (For Sponges)	A. Isaacs & Co.	9,450	Sept. 30	100	3009
"Dollar Mark." (For Cigars)	Schmidt & Co.	9,150	Jan. 14	99	413
"Dolly Varden." (For Cigars)	American Lithographic Company	9,489	Oct. 11	101	445

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"Dome Fire Clay." (For Fire-Clay)	Hillsdale Fire Brick and Clay Company.	9,279	July 8	100	447
"Don Carrito." (For Cigars)	Hoffheimer Cigar Co.	9,470	Sept. 30	100	3000
"Dowler's Microbe Ointment." (For Ointment)	F. K. Dowler	9,224	June 10	99	2545
"Dr. A. L. Schmidt's 'U-Go' Blood Purifier Rheumatic Cure." (For a Medicine)	F. T. Schmidt & Sons	9,449	Sept. 23	100	2771
"Dr. Bazemore's Syrup Castor Oil." (For Castor-Oil)	W. J. Bazemore & Son	9,456	Sept. 30	100	3009
"Dr. Daniels' Colic Cure." (For a Medicine)	A. C. Daniels, Inc.	9,195	June 3	99	2317
"Dr. Daniels' Cough, Cold and Fever Drops." (For a Medicine)	Dr. A. C. Daniels, Inc.	9,116	Apr. 29	99	1167
"Dr. Daniels' Gall-Cura." (For a Medicine)	Dr. A. C. Daniels, Incorporated.	9,649	Dec. 30	101	3103
"Dr. Daniels' Liniment Powder." (For Liniment)	A. C. Daniels, Inc.	9,223	June 10	99	2545
"Dr. Daniels' Veterinary Carbo-Negus." (For a Disinfectant)	Dr. A. C. Daniels, Inc.	9,159	May 20	99	1863
"Dr. Daniels' Veterinary Oster-Cocus Liniment." (For a Veterinary Liniment)	Dr. A. C. Daniels Inc.	9,078	Apr. 8	99	443
"Dr. Daniels' Wonder Worker Liniment." (For Liniment)	Dr. A. C. Daniels, Inc.	9,117	Apr. 29	99	1167
"Dr. Fowler's Meat and Malt." (For a Proprietary Compound)	Meat & Malt Co.	9,077	Apr. 8	99	443
"Dr. Franz Heldenberg Purifier." (For Medicines)	W. H. Grabe	9,315	July 22	100	929
"Dr. Gung's Crocote Compound." (For Medicine)	Going Chemical Company	9,308	July 15	100	679
"Dr. Ling's Lemon Cough Remedy." (For a Medicine)	Patton Bros.	8,916	Jan. 21	98	579
"Dr. Murri's Iron-Nerve Pills." (For Medicine)	Altine Chemical Co.	9,389	Aug. 19	100	1761
"Dr. Poray's Elixir of Life." (For Medicine)	J. Poray-Kaczorowski.	9,508	Oct. 21	101	659
"Dr. Prices Soda Quinine Laxative Powders." (For Medicine)	S. C. Price.	9,235	June 17	99	2767
"Dr. Randall Williams' Select Prescriptions." (For Medicinal Preparations)	R. Williams	9,525	Nov. 4	101	1217
"Dr. Spinner's Stomach Aid." (For a Medicine)	Spinner Medicinal Tablet Co.	9,274	July 1	100	329
"Dr. Tickle's Cough Drops." (For Cough-Drops)	J. F. Burden	9,601	Dec. 9	101	2283
"Dr. Turnock's Kidney Cure." (For Medicine)	Turnock Medical Company	9,582	Dec. 2	101	2073
"Dr. Westmal's Coldoids." (For a Medicine)	Western Pharmacal Company	9,935	Jan. 28	98	789
"Dress Goods." (For Dress Goods)	J. Wanamaker	9,510	Oct. 28	101	885
"Duluth Fashion." (For Cigars)	Duluth Cigar Co.	9,573	Nov. 10	101	827
"Dunton's Dental Chewing Gum." (For Dental Chewing-Gum)	W. L. Dunton	9,365	Aug. 12	100	1561
"Dys-Pep-Cide." (For a Medical Compound)	C. D. Voorhees	8,972	Feb. 18	98	1481
"E. Poncellet Freres." (For Creme de Menthe)	J. Clavel Wine & Cordial Co.	9,444	Sept. 23	100	2771
"E. Poncellet e Cia." (For Vermouth)	J. Clavel Wine & Cordial Co.	9,110	Apr. 29	99	1167
"E. M. S." (For Butter)	E. M. Slayton Co.	9,500	Oct. 14	101	445
"E-Z-Bake." (For Flour)	G. T. Evans	9,071	Apr. 8	99	443
"Eagle Brand." (For Shoe-Polish)	H. Klein	8,945	Feb. 4	98	1029
"Eagle India Ink." (For Ink)	Schwencke, Kirk & Co.	8,912	Jan. 21	98	579
"Eagle Shoes." (For Shoes)	E. Perlberg	8,919	Jan. 28	98	789
"Eat-a-Biscuit." (For Cereal Food)	Grocers' Specialty Co.	9,387	Aug. 19	100	1761
"Eberl's Corn Cure." (For a Corn-Cure)	Eberl & Dupuy.	9,604	Dec. 9	101	2283
"Eclipse Hair Tonic." (For Hair-Tonic)	F. Bauer.	9,162	May 27	99	2099
"Eclipse Laundry Soap." (For Soap)	Gettysburg Steam Soap Co.	9,046	Apr. 1	99	225
"Eczemaline." (For a Remedy for Skin-Diseases)	C. Murphy	9,603	Dec. 9	101	2283
"Effervescent Kidney Salt Tablets." (For Medicine)	J. E. Kelly.	9,236	June 17	99	2767
"Egg Nut." (For Food Preparation)	Egg Nut Food Co.	9,179	June 3	99	2317
"Egazine Baking Powder." (For Baking-Powder)	H. J. Brennecke	9,297	July 15	100	679
"Ehrenpreis." (For Beer)	Northwestern Lithographing Company.	9,640	Dec. 30	101	3103
"El Dimo." (For Cigars)	A. Gutierrez Co.	9,284	Aug. 19	100	1761
"El Espada." (For Cigars)	American Lithographic Company	9,487	Oct. 14	101	445
"El Exito." (For Cigars)	A. C. Henschel & Co.	9,565	Nov. 18	101	1695
"El Fumeros." (For Cigars)	American Lithographic Company	9,167	May 27	99	2099
"El Fumeros." (For Cigars)	American Lithographic Company	9,168	May 27	99	2099
"El Intacto." (For Cigars)	C. Stutz, a Firm	9,337	July 29	100	1109
"El Lupus." (For Cigars)	Schmidt & Co.	9,376	Aug. 12	100	1561
"El Pagado." (For Cigars)	A. C. Henschel & Co.	9,080	Apr. 15	99	603
"El Pizarre." (For Cigarettes)	Stecher Litho Co.	9,118	May 6	99	1381
"El Timonel." (For Cigars)	Stecher Lithographic Co.	9,003	Mar. 4	98	1905
"Electric Typewriter Carbon Paper." (For Carbon-Paper)	Blickensderfer Manfg Co.	9,622	Dec. 23	101	2819
"Electro-Pura and Electronaris Table Waters." (For Manufactured Water)	Electro-Strilizing Co.	9,512	Oct. 28	101	885
"Elesco Baltimore Rye Whiskey." (For Whisky)	L. Stern & Co.	9,590	Dec. 9	101	2283
"Eli Brand." (For Sugar-Corn)	S. S. Pierce Company	9,473	Sept. 30	100	3009
"Elixir Lifeline Compound." (For an Elixir)	Lifeline Chemical Company	9,450	Nov. 25	101	1827
"Elixir Ovarans." (For a Medicine)	W. H. Nelson	9,344	Aug. 5	100	1327
"Elk Brand." (For Pickles)	Davenport Vinegar and Pickling Works.	9,503	Oct. 21	101	659
"Elkhorn." (For Cigars)	Schmidt & Co.	9,305	July 15	100	679
"Elkos." (For a Medicine)	Essary & Wilson	9,544	Nov. 11	101	1267
"Ermalds." (For Cigars)	R. H. Buettnier	9,265	July 8	100	447
"Empire Rolled White Oats." (For Rolled Oats)	H. Sheppey	8,932	Feb. 4	98	1029
"Empress Imperial Toilet Powder." (For Toilet Powder)	E. Sharp.	9,489	Sept. 9	100	2381
"Energy." (For Medicated Food)	J. H. Brown	9,577	Nov. 25	101	1827
"Engel's Gem Cleaner." (For a Cleaner)	A. W. Engel	9,579	Nov. 25	101	1827
"Engel's Silver Dust." (For a Cleaning-Powder)	A. W. Engel	9,425	Sept. 2	100	2173
"English Mustard Sauce." (For Mustard-Sauce)	J. & J. Colman	9,036	Apr. 1	99	225
"Erman's German Herb Cure." (For Medicine)	Erman & Co.	9,561	Nov. 25	101	1827
"Eruption of Mt. Pelee." (For Fireworks)	T. Lloyd	9,251	July 1	100	229
"Eskay's Cascaroid." (For Medicine)	Smith, Klein & French Co.	9,220	June 10	99	2545
"Eskay's Neuro Phosphates." (For Medicine)	Smith, Klein & French Co.	9,219	June 10	99	2545
"Essex Brand Condensed Milk." (For Condensed Milk)	Hires Condensed Milk Company	8,856	Feb. 11	98	1279
"Etiqueta Blanca Manteca Pura." (For Lard)	Armour Packing Company	9,533	Nov. 4	101	1127
"Eu-Cal-Hydra." (For an Ointment)	C. W. Dean	9,014	Mar. 11	98	2169
"Eucal Lene." (For Medicine)	I. M. Adams	9,151	May 20	99	1863
"Eureka." (For Evaporated Fruits)	W. A. Higgins & Co.	9,253	July 1	100	229
"Eureka Skin Cleanser." (For a Toilet Preparation)	Eureka Toilet Co.	9,073	Apr. 8	99	143
"Even-Up." (For Cigars)	A. Hofmeister	9,557	Nov. 18	101	1605
"Fairmont." (For Almond-Meal)	Vail Brothers.	9,196	June 3	99	2317
"Farmer Boy." (For Cigars)	N. F. Young.	9,269	July 1	100	229



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"Farrar's Hygienic Protective Powder." (For a Protective Powder.)	B. Ruppe	8,902	Jan. 14	98	413
"Faultless." (For Condensed Milk)	Lackawanna Dairy Co.	9,098	Apr. 22	99	859
"Federal Family Soap." (For Soap)	Kirk Bros. & Company	9,123	May 6	99	1331
"Ferr-Malt Wine." (For Medicine)	L. Forzes	9,246	June 24	99	2963
"Ferromulsion." (For a Medicine)	L. G. B. Erb	9,543	Nov. 11	101	1367
"Fig-Fizic." (For a Laxative)	W. J. Raiche	9,091	Apr. 22	99	859
"Filipin-O-Ketchup." (For Catsup)	M. Wolff & Sons	9,436	Sept. 9	100	2381
"First Cable." (For Cigars)	American Lithographic Company	9,608	Dec. 9	101	2283
"First Page." (For Cigars)	American Lithographic Company	9,270	July 1	100	229
"Fit for a King." (For Baking-Powder)	Abash Baking Powder Company	9,289	July 8	100	447
"Flor de Uzuado." (For Cigars)	Schmidt & Co.	9,420	Sept. 2	100	2173
"Floto's Breakfast Drink." (For a Coffee Substitute)	T. D. Floto	9,069	Apr. 8	99	443
"Floto's Breakfast Drink." (For Coffee Substitute)	T. D. Floto	9,144	May 20	99	1863
"Fontaine de Jouvence, (Fountain of Youth)." (For a Toilet Preparation.)	J. A. Herlihy	8,944	Feb. 4	98	1029
"Formo Dyspepsia Tablets." (For Dyspepsia-Tablets)	Lincoln Chemical Co.	8,901	Jan. 14	98	413
"400 Coffee." (For Coffee)	I. Newlin	9,084	Mar. 25	98	2383
"Foxy Grandpa's Tonic." (For a Tonic)	H. E. Ehnman	9,306	July 15	100	1049
"Franklin Union Number Four Cigars." (For Cigars)	M. A. Pacella	9,401	Aug. 26	100	1973
"Frakeric." (For Hats)	C. E. Sackett	9,275	July 8	100	447
"From Mill to Consumers." (For Taffeta Silk)	Consumers Silk Mills and Coupons Exchange Co.	9,362	Aug. 12	100	1561
"Frutonic." (For a Tonic Beverage)	Southern California Chemical Co.	9,349	Aug. 5	100	1827
"Full Leaf." (For Cigars)	Schmidt & Co.	9,370	Aug. 12	100	1561
"Gale's Glycine." (For a Medicine)	W. H. Gale	9,545	Nov. 11	101	1367
"Garlock Packing." (For Packing)	Garlock Packing Co.	9,199	June 8	99	2317
"Gem Washing Compound." (For Soap and Washing Compound.)	C. Pearce	9,612	Dec. 9	101	2283
"Gems." (For Crackers)	W. H. Faxon	9,563	Nov. 18	101	1605
"Gerhart's Cleano." (For Washing Compounds)	C. C. Gerhart	9,215	June 10	99	2545
"Germantown Lamp-Blacks Made by the L. Martin Co." (For Lampblack)	L. Martin Co.	9,122	May 6	99	1381
"Glasbrite." (For a Cleaning Preparation)	H. N. Clarke	9,216	June 10	99	2545
"Glascoe's Pepsin Zone." (For a Medicine)	T. Glascoe	9,076	Apr. 8	99	443
"Gloria." (For Flour)	Detroit Milling Co.	9,359	Aug. 5	100	1327
"Glycotone Comp. D & D." (For Medicine)	Dinet & Delfosse	9,291	July 8	100	447
"Gold Bore." (For Cigars)	Schmidt & Co.	9,432	Sept. 9	100	2381
"Gold Eagle." (For Grain)	Rosenbaum Brothers	9,212	June 10	99	2545
"Gold Lustre." (For Gold Luster)	J. and E. Mayer	8,941	Feb. 4	98	1029
"Golden Dream." (For Cigars)	Schmidt & Co.	9,068	Apr. 8	99	443
"Golden Leaf." (For Cigars)	American Lithographic Company	9,418	Sept. 2	100	2173
"Golden Lustre Metal Polish." (For Metal-Polish)	C. R. Hulley & Co.	9,440	Sept. 9	100	2381
"Golden Pheasant." (For Tea)	Milliken, Tomlinson Co.	9,472	Sept. 30	100	3009
"Good Fellow Cigars." (For Cigars)	A. Jacobsen	9,400	Aug. 26	100	1973
"Good Luck Shoe." (For Shoes)	M. Oppenheim	8,929	Feb. 4	98	1029
"Grape Belt." (For Lager-Beer)	N. B. Beyer	8,995	Oct. 14	101	1605
"Grape-Fruit, The Hygienic Breakfast Cereal." (For Breakfast-Food.)	Grain-Fruit Cereal Co.	9,407	Aug. 26	100	1973
"Gránulos Tónico-Laxantes Del Doctor Roberts." (For a Medicine.)	R. J. and J. A. Salicrup	9,054	Apr. 1	99	225
"Grape Sugar Flakes." (For Cereal Food)	Commercial Travelers & Farmers National Food Co.	8,988	Feb. 25	98	1708
"Grid Iron Club Rye Whiskey." (For Rye Whisky)	V. W. Power and P. J. Drury	8,961	Feb. 11	98	1279
"Grippe Knockers." (For a Medicine)	A. E. B. Alford	9,619	Dec. 16	101	2555
"Guaranteed Strictly Kosher for Orthodox." (For Meats, Provisions, Bolognas, Sausages, and Meat Products.)	B. Adler	9,593	Dec. 9	101	2283
"Hamadala Cream." (For a Toilet Preparation)	M. Petersen	9,074	Apr. 8	99	443
"Hamlin's Wizard Oil." (For a Medicine)	Hamlin's Wizard Oil Co.	9,075	Apr. 8	99	443
"Harifom Vegetable Shampoo Tonic and Dandruff Cure." (For Tonic and Dandruff Cure.)	Childs Drug Co.	9,964	Feb. 11	98	1279
"Harmony Club." (For Whisky)	J. Grossman's Sons	9,559	Nov. 18	101	1605
"Hatch's Biscuit." (For Biscuits)	Bangor Biscuit Company	9,388	Aug. 19	100	1761
"Heart Food." (For a Breakfast Product)	E. Koch Co.	8,897	Jan. 14	98	413
"Heaton's Viper Bite Cure." (For a Medical Preparation)	Heaton Brothers	9,583	Dec. 2	101	2073
"Heil's Incline Bread." (For Bread)	R. Heil	9,635	Dec. 80	101	3103
"Heintz's Malt." (For Malt)	John C. Heintz	9,584	Dec. 2	101	2073
"Hercules Rip Proof Gloves." (For Gloves)	Schwartz, Schiardi & Company	9,314	Aug. 5	101	1327
"Heroids." (For a Medicine)	Dinet & Delfosse	9,050	Apr. 1	99	225
"Hes Ra." (For Cigarettes)	M. G. Hollis	9,558	Nov. 18	101	1605
"High Grade Dress Silks and Tailors' Silk Fabrics." (For Dress-Silks and Tailors' Silk Fabrics.)	Brainerd & Armstrong Co.	9,174	June 3	99	2317
"Holly." (For Evaporated Fruits)	W. A. Higgins & Co.	9,256	July 1	100	229
"Home Brand." (For Canned Salmon)	Griggs, Cooper & Co.	8,953	Feb. 11	98	1279
"Home Brand." (For Canned Lobster)	Griggs, Cooper & Co.	8,953	Feb. 11	98	1279
"Home Brand." (For Baked Beans)	Griggs, Cooper & Co.	8,989	Feb. 25	98	1703
"Home Brand." (For Asparagus)	Griggs, Cooper & Co.	8,990	Feb. 25	98	1703
"Home Brand." (For Soda)	Griggs, Cooper & Co.	8,991	Feb. 25	98	1703
"Home Brand." (For Maple-Sugar)	Griggs, Cooper & Co.	8,992	Feb. 25	98	1703
"Home Brand." (For Olive-Oil)	Griggs, Cooper & Co.	8,993	Feb. 25	98	1703
"Home Industry." (For Cigars)	Schmidt & Co.	9,100	Apr. 23	99	859
"Home Trade Cigar." (For Cigars)	Ch. G. Mannhardt & Sons	8,554	Oct. 11	98	885
"Hop Tea." (For a Non-Intoxicating Beverage)	N. Thomas Brewing Co.	9,413	Sept. 2	100	2225
"Hubart Morrett." (For Cigars)	A. C. Henschel & Co.	9,131	May 13	99	1619
"Hughes' Crescent Cottage Paints." (For Paints)	A. M. Hughes Paint & Glass Co.	9,293	June 17	99	2767
"Hy-Step." (For Medicine)	J. Flook	9,487	Sept. 9	100	2381
"Hydrastoids." (For Medicine)	Dinet & Delfosse	9,153	May 20	99	1863
"Hygeia Flour." (For Flour)	Michigan Milling Co.	8,906	Jan. 21	98	579
"Hygienic Fleece Lined Shirts." (For Knit Underwear)	L. E. Harrower	9,177	June 3	99	2317
"I Wash the Old Way, I Use the I V Washing Tablets." (For Washing-Tablets.)	R. L. Hottenstein & Co.	9,016	Mar. 11	98	2169
"Ideal." (For Toilet Cream)	Ideala Co.	9,272	July 1	100	229
"Imperator No. 6." (For Building-Boxes)	F. Ad. Richter & Co.	9,519	Nov. 4	101	1127
"Imperator No. 8." (For Building-Boxes)	F. Ad. Richter & Co.	9,520	Nov. 4	101	1127

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Title.	Name.	No.	Date.	Official Gazette.	
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"Imperator No. 4." (For Building-Boxes) .....	F. Ad. Richter & Co. ....	9,531	Nov. 4	101	1127
"Imperator No. 2." (For Building-Boxes) .....	F. Ad. Richter & Co. ....	9,523	Nov. 4	101	1127
"Imperial Crest." (For Tea) .....	McCart-Christy Co. ....	9,565	Dec. 2	101	2073
"Inda Planta." (For Cigars) .....	American Lithographic Company ..	9,487	Sept. 30	100	3009
"Indian Coffee." (For Coffee) .....	M. Shepperd .....	9,948	Feb. 4	98	1029
"Indian Head Powder." (For a Medicine) .....	J. H. Grant .....	9,306	July 15	100	679
"International Brand Celery Prepared in Mustard." (For Celery Prepared in Mustard.) .....	Islip Mustard & Pickle Company ..	9,643	Dec. 30	101	3103
"Invicta." (For Cement) .....	Glens Falls Portland Cement Co. ..	9,006	Mar. 4	98	1965
"Iron Clad." (For Cement) .....	Glens Falls Portland Cement Co. ..	9,007	Mar. 4	98	1965
"Iroquois Club." (For Cigars) .....	Sanchez & Haya Co. ....	9,189	June 3	99	2317
"Italy Brand." (For Olive-Oil) .....	Farodi, Ermilio & Co. ....	9,477	Oct. 7	101	215
"Ivory." (For Paint) .....	Conger, Kahn & Gibbs Co. ....	9,352	Aug. 12	100	1561
"J. Williams & Bros. Hand Made Original Meyersdale Seed Stogies." (For Cigars.) .....	J. Williams & Bros. ....	9,286	July 8	100	447
"Jean Bart." (For Cigars) .....	American Lithographic Company ..	9,468	Sept. 30	100	3009
"Jenny Lind." (For Cigarettes) .....	S. Saqui .....	9,638	Dec. 30	101	3103
"Jewel Coffee." (For Coffee) .....	Jewel Coffee Co. ....	9,539	Nov. 4	101	1127
"Jeweled Crown." (For Syrup) .....	S. H. Williams .....	9,182	June 3	99	2317
"Joe Turner." (For Cigars) .....	A. C. Henschel & Co. ....	9,399	Aug. 26	100	1973
"John Gibson's Son & Co.'s Rye Whiskey." (For Whisky) ..	Moore & Sinnott .....	9,261	July 1	100	229
"John Latour. Cognac 1858." (For Brandy) .....	S. Kraus & Bro. ....	9,354	Aug. 5	100	1327
"Johnie Bird." (For Cigars) .....	Schmidt & Co. ....	8,986	Feb. 25	98	1703
"Joke Whiskey." (For Whisky) .....	Cook & Bernheimer Co. ....	8,999	Mar. 4	98	1965
"Josephine." (For Cigars) .....	C. Stutz, a Firm .....	9,338	July 29	100	1109
"Juan de Fuca." (For Cigars) .....	Sanchez, Rodriguez & Co. ....	8,890	Jan. 14	98	413
"Judge Wilson." (For Cigars) .....	Schmidt & Co. ....	8,931	Jan. 28	98	789
"Karlshader Hair Regenerator." (For a Hair-Regenerator) ..	J. Mrazay .....	9,965	Feb. 11	98	1279
"Keep Your Eye on Pas-co Headache Capsules." (For Headache Medicine.) .....	Pasco Headache Co. ....	9,192	June 3	99	2317
"Keller Bros. Blood Purifying Remedy." (For a Medicine) ..	Keller Bros. ....	9,090	Apr. 22	99	859
"Kempshall Flyer." (For Golf-Balls) .....	Kempshall Manufacturing Company ..	9,323	July 29	100	1109
"Kempshall League." (For Golf-Balls) .....	Kempshall Manufacturing Company ..	9,324	July 29	100	1109
"Kennedy's Sweet Castor Oil." (For Castor-Oil) .....	J. J. Kennedy .....	9,128	May 6	99	1381
"Kenneb Club." (For Whisky) .....	Armstrong & Co. ....	9,998	Mar. 4	98	1965
"Keystone Maid." (For Cigars) .....	H. Sommer .....	8,904	Jan. 21	98	579
"Khasan's Roachynce." (For an Insect-Powder) .....	M. Khasan .....	8,903	Jan. 14	98	413
"Khedive." (For Tea) .....	Miliken, Tomlinson Co. ....	9,134	June 3	99	2317
"Kil-Lol Electric Bug-Killer." (For an Insecticide) .....	Omnia Chemical Co. ....	9,326	Nov. 4	101	1127
"King Bee." (For Flour) .....	Huston & Huston .....	9,610	Dec. 9	101	2283
"King High Ball." (For Whisky) .....	G. O. Borton & Co. ....	9,528	Nov. 4	101	1127
"King Salve Liniment." (For Liniment) .....	P. Ray .....	9,232	June 10	99	2545
"King Seti." (For Cigarettes) .....	A. Costakis .....	9,149	May 20	99	1868
"King's Banner." (For Cigars) .....	American Lithographic Company ..	9,001	Mar. 4	98	1965
"King's Rest." (For Cigars) .....	American Lithographic Company ..	9,339	Nov. 11	101	1367
"Kishacoquillas Axe." (For Axes) .....	J. H. Mann .....	9,063	Apr. 1	99	225
"Klenzine." (For a Carpet-Cleanser) .....	Sanitary Chemical Co. ....	9,624	Dec. 23	101	2819
"Knickerbocker Chop." (For Tea) .....	Firm of W. J. Buttfield .....	9,412	Sept. 2	100	2173
"Knight's Consumption, Bronchitis, Asthma Cure." (For Medicine.) .....	A. Knight .....	8,971	Feb. 18	98	1481
"Kol-Saver." (For a Chemical Compound) .....	A. G. Hulbert .....	8,924	Jan. 28	98	789
"Kola Celery and Pepsin." (For Tonic) .....	J. F. Goldschmidt .....	9,127	May 6	99	1381
"Korn-Krisp." (For a Food Preparation) .....	Korn-Krisp Co. ....	9,104	Apr. 29	99	1167
"Kornkins." (For Cornmeal and Cereal Products) .....	Robinson Danforth Milling Co. ....	9,613	Dec. 9	101	2283
"Kory's Oak Pants." (For Trousers) .....	A. Kory & Sons .....	9,586	Nov. 11	101	1367
"Kosherien." (For Bolognas and Sausages) .....	B. Adler .....	9,551	Nov. 11	101	1367
"Kraum's New Red Blood." (For a Medicine) .....	Kraum Remedy Company .....	9,051	Apr. 1	99	225
"Krausers' New Material or Extract of Wood Ashes." (For Soap-Making Material.) .....	E. Krauser & Bro. ....	9,197	June 3	99	2317
"Krueger's Antiseptic Dandruff Cure." (For Dandruff-Cure.) .....	J. C. M. Krueger .....	9,620	Dec. 16	101	2565
"Kudros." (For a Beverage) .....	A. M. Hellman & Co. ....	8,959	Feb. 11	98	1279
"La Carolita." (For Cigars) .....	C. Stutz, a Firm .....	9,346	Aug. 5	100	1327
"La Cintrillo." (For Cigars) .....	A. C. Henschel & Co. ....	9,385	Aug. 19	100	1761
"La Marina." (For Cigars) .....	American Lithographic Company ..	9,007	Mar. 4	98	1965
"La Doctrina." (For Cigars) .....	American Lithographic Company ..	9,504	Oct. 21	101	659
"La Flor De Lilienthal." (For Cigars) .....	A. L. Lilienthal .....	9,091	Oct. 14	101	445
"La Flor de Luis Martinez." (For Cigars) .....	Martinez & Hedesa Co. ....	9,481	Apr. 15	99	663
"La Flor de Salvini." (For Cigars) .....	Sanchez & Haya Co. ....	9,190	June 3	99	2317
"La Gradosa." (For Cigars) .....	American Lithographic Company ..	9,415	Sept. 2	100	2173
"La Magnita." (For Cigars) .....	C. Stutz, a Firm .....	9,339	July 29	100	1109
"La Modernia." (For Cigars) .....	American Lithographic Company ..	9,517	Oct. 28	101	885
"La Molinda." (For Cigars) .....	Husted & Gessler .....	9,059	Apr. 22	99	859
"La Nueva Bolsa." (For Cigars) .....	A. Schulte .....	9,027	Mar. 18	98	2359
"La Oriental." (For Cigars) .....	Sanchez & Haya Co. ....	9,268	July 1	100	229
"La Paz Del Mundo Superiors." (For Cigars) .....	Martinez & Hedesa Co. ....	9,556	Nov. 18	101	1605
"La Perlosa." (For Cigars) .....	American Lithographic Company ..	9,488	Oct. 14	101	445
"La Preciada." (For Cigars) .....	Schmidt & Co. ....	9,369	Aug. 12	100	1561
"La Rosada." (For Cigars) .....	Sanchez & Haya Co. ....	9,267	July 1	100	229
"La Rosa De Juncos." (For Cigars) .....	Schmidt & Co. ....	9,019	Mar. 11	98	2169
"La Rosa Puerta." (For Cigars) .....	American Lithographic Company ..	9,416	Sept. 2	100	2173
"La Rosa Puerta." (For Cigars) .....	American Lithographic Company ..	9,417	Sept. 2	100	2173
"La Rosella." (For Cigars) .....	Detwiler Bros. ....	9,191	June 3	99	2317
"La Rosencia." (For Cigars) .....	American Lithographic Company ..	9,414	Sept. 2	100	2173
"La Rosica." (For Cigars) .....	American Lithographic Company ..	9,060	Apr. 1	99	225
"La Rosilla." (For Cigars) .....	American Lithographic Company ..	9,605	Dec. 9	101	2283
"La Terna." (For Cigars) .....	American Lithographic Company ..	9,607	Dec. 9	101	2283
"La Vitalia." (For Cigars) .....	H. Sommer .....	8,905	Jan. 21	98	579
"Las Americas." (For Cotton Cloth) .....	D. A. de Lima & Co. ....	9,322	July 29	100	1109
"Laxacura." (For a Medicine) .....	J. F. Spence .....	9,129	May 6	99	1381
"Lee Broom." (For Brooms) .....	Lee Broom & Duster Co. ....	8,998	Feb. 4	98	1023
"Liberty Brand." (For Dried Prunes) .....	H. A. Townsend .....	9,023	Mar. 18	98	2359
"Lifebuoy Soap." (For Soap) .....	Lever Brothers .....	8,919	Jan. 21	98	579
"Lifeoline." (For Medicine) .....	Lifeoline Chemical Company .....	9,566	Nov. 25	101	1827



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Title.	Name.	No.	Date.	Official Gazette.	
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"Liquid Acid Iron." (For a Medicine)	Crown Chemical Co	9,647	Dec. 30	101	866
"Liquid Glass." (For Cement)	J. E. Ulrich & Co.	9,919	July 22	100	923
"Listerine." (For a Lotion)	J. M. Fisher	9,971	July 1	100	929
"Little Indian Pile Ointment." (For Ointment)	Chemical Specialty Company	9,130	May 6	99	1381
"Lockyer's Chili-Peka Seasoning." (For Seasoning)	F. H. Lockyer	9,380	Aug. 12	100	1561
"Luds." (For Hats)	C. E. Sackett	9,276	July 8	100	447
"Lubin's Malt Extract." (For Malt-Extract)	J. Grossman's Sons	9,560	Nov. 18	101	1605
"Lumiboso." (For Cigars)	Landfield Bros. & Co.	9,061	Apr. 1	99	225
"Luncheon Sausages." (For Sausages)	B. Adler	9,553	Nov. 8	101	1367
"Lustreine." (For a Cleaning and Polishing Preparation)	J. C. William	9,072	Apr. 8	99	443
"Luthea." (For Toothache Remedy)	H. Pfaff	9,485	Oct. 14	101	445
"Madame Stevens' Famous Parisian Hair Tonic." (For Hair-Tonic)	L. J. Stevens	9,505	Oct. 21	101	838
"Magasin De Modes." (For Pattern-Hats)	A. A. Wallman	8,995	Mar. 4	98	1965
"Magnolia." (For Chewing-Gum)	Lidwell Gum Co.	9,404	Sept. 30	100	3009
"Maize Loaf." (For Cereal Food)	Gordon and Richardson	9,332	July 29	100	1164
"Malt Myrrh." (For Malt Tonic Liquor)	Barrett & Barrett	9,021	Mar. 11	98	2109
"Malt Persin." (For Chewing-Gum)	Lidwell Gum Co.	8,955	Feb. 11	98	1270
"Malt-Too." (For a Food Preparation)	Malt-Too Flake Food Co.	8,974	Feb. 18	98	1481
"Malt Vigor." (For Extract of Malt)	Siegel-Cooper Co.	9,239	June 17	99	2767
"Malt Wheat Biscuit." (For a Food Product)	Lambert Good Food Co.	9,143	May 20	99	1663
"Malted Toast." (For a Food Product)	Lambert Good Food Co.	9,030	Mar. 25	98	2583
"Manor House." (For Coffee)	W. P. McLaughlin & Co.	9,435	Sept. 9	101	2381
"Maplecone." (For Cigars)	C. W. Nor	9,000	Nov. 1	101	1281
"Marca Vuelta." (For Cigars)	Schmidt & Co.	8,985	Feb. 25	98	1703
"Marion Harland Coffee." (For Coffee)	Silver & Co.	9,496	Oct. 14	101	445
"Marshall's Dandelion Tonic." (For a Medicine)	T. P. Marshall	9,088	Apr. 22	99	859
"Marvelous Waterproof Shoe Polish." (For Waterproof Oil Polish)	J. F. Smith	9,457	Sept. 30	100	3009
"Maryland Leader." (For Canned Peaches)	Phillips Packing Co.	9,447	Sept. 23	100	2771
"Maryland Leader." (For Canned Tomatoes)	Phi. Packing Co.	9,396	Aug. 12	100	1164
"Masterpiece." (For Syrup)	S. H. Williams	9,183	June 3	99	2317
"Masurite Safe Explosive." (For an Explosive)	Masurite Explosive Company	9,252	July 1	100	229
"Mayflower." (For Beer)	Imperial Brewing Co.	9,428	Sept. 9	100	2381
"Mayflower." (For Beer)	Imperial Brewing Co.	9,429	Sept. 9	100	2381
"McKinley's Favorite." (For Cigars)	H. Engler & Co.	9,002	Mar. 4	98	1965
"Meat-o." (For a Liquid Food or Tonic)	A. Spiegel Co.	9,290	July 8	100	447
"Mellin's Food Chocolate." (For a Food Preparation)	Mellin's Food Company of North America	9,102	Apr. 22	99	859
"Mellin's Lacto-Glycose." (For Milk Food)	Mellin's Food Company of North America	9,106	Apr. 29	99	1167
"Mellin's Lacto-Glycose." (For Milk Food)	Mellin's Food Company of North America	9,107	Apr. 29	99	1167
"Men's Wool Fleece Shirts." (For Knit Underwear)	L. E. Harrower	9,176	June 3	99	2317
"Metabolin." (For a Medicine)	J. Korutner	9,599	Dec. 9	101	2383
"Mexolia Coffee." (For Coffee)	Chuckle Bros. & Co.	9,446	Sept. 23	100	2771
"Mi Elektra." (For Cigars)	C. Stutz, a Firm	9,340	July 29	100	1109
"Mi Toba." (For Cigars)	M. Fernandez	9,443	Sept. 23	100	2771
"Miebis." (For Cigarettes)	Miebis Tobacco Company	9,264	July 1	100	229
"Miliadi." (For Shoes)	W. Richardson Co.	9,228	June 17	99	2767
"Miller's Lung Syrup." (For a Medicine)	M. Y. Miller	9,648	Dec. 30	101	3103
"Millionaires Club." (For Whisky)	I. Mansbach & Co.	9,170	May 27	99	2666
"Milwaukee Tonic Brew." (For Beverages)	Chas. L. Kiewert Co.	9,595	Dec. 9	101	2383
"Mineral Dandruff Cure." (For Dandruff Cure)	B. & W. Co.	9,041	Mar. 25	98	2583
"Mineral Turpentine." (For Mineral Turpentine)	Great Western Oil Company	9,580	Nov. 25	101	1827
"Minervaine." (For Hair-Tonic)	T. N. Bowles	9,140	May 13	99	1619
"Mirador." (For Cigars)	Sanchez & Haya Co.	9,207	June 10	99	2345
"Miss Butte." (For Cigars)	American Lithographic Company	9,466	Sept. 30	100	3009
"Mission Brand." (For Apricots)	Santa Paula Commercial Co.	9,367	Sept. 9	100	2381
"Mistletoe." (For Evaporated Fruits)	A. J. Jones & Co.	9,237	July 1	100	229
"Monarch Record." (For Sound-Records)	Victor Talking Machine Co.	9,326	July 29	100	1109
"Mondamin." (For Whisky)	Sritzel Distilling Co.	9,641	Dec. 30	101	3103
"Morton's Sweet Smokers." (For Cigars)	Schmidt & Co.	9,244	June 24	99	2063
"Mother's Own Ointment." (For Ointment)	Mothers Own Company	9,454	Sept. 30	100	3009
"Mrs. Dunsmore's Great English Cough and Croup Balsam." (For a Medicine)	L. M. Brock & Co.	9,040	Apr. 1	99	225
"Mrs. White's Hair Grower & Tonic." (For Hair Grower and Tonic)	M. A. White	9,126	May 6	99	1381
"My Biscuit." (For Biscuit)	Sanitary My-Food Co.	9,434	Sept. 9	100	2381
"N. K. Brown's Dyspepsia and Indigestion Tablets." (For Tablets)	N. K. Brown	9,422	Sept. 2	100	2173
"Na-Bockish." (For Cigars)	Central Cigar Manufacturing Co.	9,431	Sept. 9	100	2381
"Nail Powder." (For Nail-Powder)	E. Forquignon	9,912	July 15	100	679
"Nailtza or Grease Extractor." (For a Cleaning Preparation)	T. H. Price	9,101	Apr. 22	99	854
"Napoleon French Limburger." (For Limburger Cheese)	Liebhenthal Bros. & Co.	8,909	Jan. 21	98	579
"Nature's Breakfast Food." (For a Wheat Food)	Nature's Breakfast Food Co.	8,908	Jan. 21	98	579
"Nebraska Girl." (For Cigars)	Schmidt & Co.	9,539	Nov. 11	101	1367
"Neko." (For Cigars)	A. C. Henschel & Co.	9,492	Oct. 14	101	445
"Nichols' Hat Co. Hat Makers." (For Hats)	C. E. Sackett	9,436	Aug. 26	100	2381
"O. Labor Saving." (For a Cleaning and Polishing Preparation)	A. Levytanov	9,458	Sept. 30	100	3009
"Nix-e-Wont Tell." (For a Breath-Perfume)	R. A. Brachvogel	9,038	Mar. 25	98	2583
"None Such." (For Brooms)	New Bremen Broom Co.	9,065	Apr. 8	99	443
"None Such Furniture & Floor Polish." (For Furniture and Floor Polish)	G. W. Saums	9,082	Apr. 15	99	663
"North-Western." (For Cigars)	H. Grummond & Co.	9,534	Nov. 18	101	1905
"Nottingham Curtains." (For Curtains)	Mills & Gibb	9,387	Dec. 9	100	2383
"Nouveau Furniture Polish." (For Furniture-Polish)	Nouveau Manufacturing Company	9,408	Aug. 26	100	1973
"Novara." (For Cigars)	Martinez & Helesla Co.	9,555	Nov. 18	101	1905
"O. L. Taylor Pure Rye Whiskey." (For Whisky)	C. F. Sullivan & Co.	9,146	May 20	99	1663
"O. W. Bourke's Lot Syndicate Forms." (For Printed Forms)	O. W. Bourke	9,029	Mar. 18	98	2350
"Oatine." (For a Facial Preparation)	F. M. Carroll	9,567	Nov. 25	101	1827
"Official Fire Insurance Record Watchman's Improved Time-Detector." (For Dials and Time-Detectors)	R. Kopp	9,044	Mar. 25	98	2583
"Oklahoma Sodas." (For Crackers)	Oklahoma Biscuit Co.	9,549	Nov. 11	101	1367

## Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette.	
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"Old Bachelor." (For Whisky)	P. Bardenheier	9,134	May 13	99	1619
"Old Crow Corn Cake." (For a Confection).	L. F. Jordan	9,497	Oct. 14	101	445
"Old Fireseed." (For Cigars)	Schmidt & Co.	9,266	July 1	100	239
"Old Joe Murphy." (For Whisky)	Dallemand & Co.	9,527	Nov. 4	101	1127
"Old Style Lager." (For Lager-Beer)	G. Heileman Brewing Company	9,094	Apr. 22	99	659
"Old Things Are Passed Away." (For Bluing)	A. K. Phillips	9,634	Dec. 30	101	3103
"Olive Branch." (For Flour)	Akin-Erskine Milling Co	9,629	Dec. 23	101	2319
"Olympia Shoe Co." (For Shoes)	W. Edelstein	9,332	Aug. 19	100	1761
"On Time." (For Cigars)	American Lithographic Company	9,490	Oct. 14	101	445
"One-Eighty." (For Lager-Beer)	G. Heileman Brewing Company	9,282	July 8	100	447
"100% Pure-Wool." (For Cloth)	J. Capps & Sons	9,249	July 1	100	239
"Union Skin Finish Carbon Paper." (For Carbon-Paper)	American Ribbon & Carbon Co.	9,502	Oct. 21	101	659
"Orange Brewery Beer." (For Beer)	M. Winter	9,095	Apr. 22	99	659
"Orchard Brand." (For Apricots)	Santa Paula Commercial Co	9,427	Sept. 9	100	2281
"Osburn's Pomelo Phosphate." (For a Beverage)	F. L. Fuller	8,096	Apr. 22	99	850
"Ottoman." (For Cigars)	Lincoln, Seyms & Co.	9,336	July 29	100	1109
"Our Congressman." (For Cigars)	F. Hartmann & Son	9,301	July 15	100	679
"Overland Shoe." (For Shoes)	Dixon, Bartlett Co	9,009	Mar. 11	98	2169
"Owens' Fragrant Cream." (For a Toilet Preparation)	J. C. Owens	9,163	May 27	99	2099
"Ox Heart." (For Candy)	D. D. Long	8,892	Jan. 14	98	413
"Oxyneura." (For a Medicine)	J. Stolze	9,055	Apr. 1	99	225
"Pacific Oil Compound." (For an Oil Compound)	S. A. Deming	8,911	Jan. 21	98	579
"Padgett's Old H & H Rye Whiskey." (For Whisky)	A. P. Padgett	9,188	June 3	99	2317
"Palacelte Oil." (For Oils)	Great Western Oil Co	9,103	Apr. 29	99	1167
"Paramount Pure Old Rye Whiskey." (For Whisky)	H. C. Bohack	9,285	July 8	100	447
"Pat Rooney, Chip of the Old Block Cigars." (For Cigars)	L. P. Herrmann	8,947	Feb. 4	98	1029
"Paulet." (For Insect-Exterminator)	L. G. B. Erb	9,236	June 10	99	2545
"P-A-Y-M Concentrated Extract of Vanilla." (For Extract of Vanilla)	L. E. Roy	9,462	Sept. 30	100	3000
"Peach Brand." (For Confectionery)	J. M. Fries	9,138	May 13	99	1619
"Peerless Compound Tabasco Chili Sauce." (For Chili-Sauce)	J. Navarro & Co.	9,211	June 10	99	2545
"Peradena." (For Cigars)	C. Stutz, a Firm	9,367	Aug. 12	100	1561
"Perfect." (For Plums)	H. W. Peabody & Co.	9,646	Dec. 30	101	3103
"Perfect Water Ice or Sherbet Powder." (For a Powder)	O. J. Weeks & Co.	9,375	Aug. 12	100	1561
"Perfection Cereal Coffee." (For Cereal Coffee)	Perfection Cereal Company	9,185	June 8	99	2317
"Perfection Comforts." (For Comforts)	W. H. Corkran & Co	9,229	June 17	99	2767
"Perfo." (For a Food Preparation)	Real Food Co.	8,927	Jan. 28	98	789
"Perfumol." (For Breath-Perfume)	Perfumol Company	8,875	Feb. 18	98	1481
"Phonographic Language Lesson." (For Phonographic Records)	International Textbook Co.	9,987	Jan. 7	98	223
"Pispho." (For Medicinal Preparation)	G. P. L. Reid	9,194	June 3	99	2317
"Pine Needle Toilet Powder." (For Toilet Powder)	F. K. Hickok	9,478	Oct. 7	101	215
"Pine Tree State Taffy." (For Taffy)	G. E. Lufkin	9,404	Aug. 26	100	1973
"Pineapple." (For Chewing-Gum)	W. H. Briggs and W. H. H. Hart	9,066	Apr. 8	99	443
"Pink Rose Wine." (For Wine)	Popel & Giller	9,353	Aug. 5	100	1327
"Piso's Tablets for the Cure of Diseases of Women." (For Medicines)	Piso Company	8,816	July 22	100	929
"Plantation." (For Cigars)	Schmidt & Co.	9,572	Nov. 25	101	1827
"Plover Label." (For Pickles, Relishes, and Preserves)	S. E. Van Voorhis	9,532	Nov. 4	101	1127
"Prepared Co-Co." (For Cocoa)	Farnsworth Bros. & Co	9,137	May 13	99	1619
"Presto." (For Cereal Food Products)	H-O (Hornby's Oat Meal) Company	9,580	Nov. 11	101	1367
"Pre-Vent-O." (For Medicine)	Elite Medicine Co	9,363	Aug. 12	100	1561
"Primus." (For Bottled Beer)	Barker & Wheeler Co	9,395	July 29	101	1109
"Prize Winner." (For Plums)	H. W. Peabody & Co.	9,645	Dec. 30	101	3103
"Proof Mark." (For Cigars)	Schmidt & Co.	9,962	Feb. 11	98	1279
"Prostatol." (For a Medicine)	J. Kornitzer	9,599	Dec. 9	101	2283
"Provider Brooms Brushes." (For Brooms and Brushes)	A. B. Lehman	9,320	July 22	100	929
"Pruemers Malto-Meat." (For a Vegetable Food)	Pruemers Malto-Meat Company	9,637	Dec. 30	101	3103
"Pure Old Mellow Treadmill Rye." (For Whisky)	G. A. Logan	9,187	June 8	99	2317
"Pure Spices." (For Spices)	Woolson Spice Company	9,120	May 6	99	1381
"Pure Spices." (For Spices)	Woolson Spice Company	9,121	May 6	99	1381
"Purina Checkerboard Corn Meal." (For Granular Corn Preparations)	Ralston-Purina Co	9,636	Dec. 30	101	3103
"Puritan." (For Cigars)	Schmidt & Co.	8,932	Jan. 28	98	789
"Puritan Boy." (For Cigars)	Lincoln, Seyms & Co.	9,304	July 15	100	679
"Puritan Pile Capsules." (For Medicine)	S. & S. Salve Co	9,650	Dec. 30	101	3103
"Puritan Salve." (For Salve)	S. & S. Salve Co	9,651	Dec. 30	101	3103
"Purity Baking Powder." (For Baking-Powder)	S. & S. Salve Co	9,378	Aug. 12	100	1561
"Queen Caroline." (For Cigars)	Spector Bros.	9,133	May 13	99	1619
"Queen Quality." (For Burgundy Wine)	Siegel-Cooper Co	9,352	Aug. 5	100	1327
"Queen Quality." (For Laundry Starch)	Queen Quality Starch Co	9,139	May 13	99	1619
"Ramesite Cement." (For Cement)	H. G. Knapp	9,515	Oct. 28	101	885
"Randolf Maker." (For Hats)	C. E. Sackett	9,313	July 22	100	929
"Real German Bologna Sausage." (For Bologna Sausage)	B. Adler	9,539	Nov. 11	101	1367
"Reinhardt's Fudge Rheum." (For Apricots)	H. W. Peabody & Co.	9,644	Dec. 30	101	3103
"Red Lion Stomach Bitters." (For Stomach-Bitters)	Stein Brothers	9,481	Oct. 7	101	215
"Red Lion 36-Inch Percal." (For Percal)	H. B. Cladin Company	9,982	Feb. 25	98	1703
"Red Star Cigars." (For Cigars)	W. H. Klenke	9,302	July 15	100	679
"Red Trunk." (For Cigars)	C. F. Springer	9,037	Mar. 25	98	2583
"Regal." (For Brooms)	New Bremen Broom Co	9,062	Apr. 1	99	225
"Reina Beata." (For Cigars)	American Lithographic Company	9,639	Dec. 30	101	3103
"Resin's Fuge Rheum." (For a Medicinal Oil)	H. T. Renton	9,311	July 15	100	679
"Resorcinol." (For an Ointment)	F. Dohmen Company	9,166	May 27	99	2099
"Revivor Bitters." (For Bitters)	W. Moise & Co	8,900	Jan. 14	98	413
"Rex Pork and Beans." (For Pork and Beans)	Cudahy Packing Co	9,333	July 29	100	1109
"Richter's Popular Comet Blocks." (For Building-Blocks)	F. Ad. Richter & Co	9,518	Nov. 4	101	1127
"Rincon Heights Virgin Olive Oil." (For Olive-Oil)	G. E. Grosse	8,926	Jan. 28	98	789
"Rising Sun." (For Baking-Powder)	M. Sheppey	9,350	Feb. 4	98	1029
"Rising Sun Coffee." (For Coffee)	M. Sheppey	8,940	Feb. 4	98	1029
"Rival Pale Ale." (For Ale)	S. S. Pierce Co.	9,596	Dec. 9	101	2283
"Rocky Mountain Tea." (For a Medicine)	Madison Medicine Co	9,052	Apr. 1	99	225
"Rocky Mountain Tea." (For a Medicine)	Madison Medicine Co	9,053	Apr. 1	99	225
"Rollman Food Chopper." (For Food-Choppers)	C. Schock	9,591	Dec. 9	101	2283
"Roman Face Cream Massage." (For Face-Cream Massage)	O. C. Berchtold	9,198	June 3	99	2317



Alphabetical list of labels—Continued.

Title.	Name.	No.	Date
"Rosaderma." (For Complexion Compound)	E. W. Rose	9,479	Oct. 9.
"Rose Balm." (For a Lotion)	Rose Company	9,483	Oct. 14.
"Rose of Kansas City." (For Cigars)	Schmidt & Co.	9,371	Aug. 19.
"Rosy Daisy." (For Cigars)	American Lithographic Company	9,606	Dec. 9.
"Rough Rider." (For Incandescent Gas and Gasolene Mantles.)	Milwaukee Incandescent Light Co.	9,482	Oct. 14.
"Roumanian Cream Skin-Food." (For a Toilet Cream)	L. D. Smith	9,217	June 10.
"Royal Crown Ginger Ale." (For Ginger-Ale)	C. Valaer	9,059	Apr. 1.
"Royal Egg Noodles." (For Egg-Noodles)	Pfaffman Egg Noodle Co.	9,119	May 6.
"Royal Stock." (For Cigars)	American Lithographic Company	9,132	May 13.
"Royal Welsh Sauce." (For Sauce)	J. Marshall	9,011	Mar. 11.
"Rovercote Liniment." (For Liniment)	M. R. Stuart	9,391	Aug. 19.
"Salagin." (For Medicine)	Dinet & Delfosse	9,152	May 20.
"Salchichas De Viena." (For Vienna Sausages)	Armour Packing Company	9,561	Nov. 18.
"Saltines." (For Crackers)	W. H. Faxon	9,564	Nov. 18.
"Salvator." (For Beer)	Terre Haute Brewing Co.	9,377	Aug. 12.
"Sant-Tari Skin Soap." (For Toilet Soap)	Citizens Wholesale Supply Co.	9,625	Dec. 23.
"Sanitary Safety Pins." (For Safety-Pins)	S. Kuhn Sons & Co.	9,171	Dec. 9.
"Sapphire Toilet Cream." (For Toilet Cream)	F. W. Peterson	9,089	Mar. 25.
"Satin-Skin Cream." (For a Cosmetic Cream)	A. F. Wood	9,040	Mar. 25.
"Satisfaction Cotton." (For Cotton Fabrics)	Moss, Taylor & Co.	9,175	June 3.
"Scare Crow." (For Cigars)	Schmidt & Co.	8,930	Jan. 28.
"Schaefers Blood Purifier." (For Medicine)	E. B. Reeber	9,161	May 27.
"Schenley Pure Rye." (For Whisky)	Schenley Distillery, Limited	9,513	Oct. 28.
"Schmidt's Bread." (For Bread)	B. Schmidt	9,171	June 9.
"Sea Wall." (For Coffee)	Southern Coffee Company	9,355	Aug. 5.
"Select Combination." (For Cigars)	American Lithographic Company	9,469	Sept. 30.
"74th Regiment." (For Cigars)	H. J. Dimond	9,205	June 10.
"Sex-o-tine." (For a Medicine)	T. E. Smith	9,600	Dec. 9.
"Shakespeare." (For Cigars)	Sanchez & Haya Co.	9,206	June 10.
"Shanafelt's Flavors." (For Flavors)	F. P. Shanafelt	9,083	Mar. 25.
"Sheffield Brand." (For Toilet Cream-Cheese)	Sheffield Cheese Co.	9,132	Nov. 4.
"Sheldon's Criterion." (For Cigars)	R. Sheldon	8,922	Jan. 26.
"Shepard's Fly Guard & Veterinary Liniment." (For a Veterinary Liniment.)	J. C. Shepard, Jr.	9,547	Nov. 11.
"Shoe Manufacturers' Syndicate." (For Shoes)	W. Edelstein	9,086	Apr. 22.
"Siempra Viva." (For a Medicinal Preparation)	Rio Grande Medicine Company	8,967	Feb. 11.
"Silver Label." (For Machine-Twist)	Werner Bros.	9,096	Mar. 4.
"Skirt Faeng." (For Skirt-Facings)	Sutro Bros. Braid Company	9,012	Mar. 11.
"Snider's Oyster Cocktail Sauce." (For Oyster-Cocktail Sauce.)	T. A. Snider Preserve Company	9,012	Mar. 11.
"Snow Queen." (For Flour)	Michigan Milling Co.	9,031	Mar. 25.
"Snyder's All Food Emulsion." (For a Medicine)	M. E. Snyder	9,083	Apr. 15.
"Society Package." (For Chocolates)	F. L. Daggett Co.	9,615	Dec. 16.
"Sodas." (For Crackers)	W. H. Faxon	9,562	Nov. 18.
"Sopura Dentifrice." (For Tooth-Powder)	Sopura Co.	8,913	Jan. 21.
"Soule's Infallible Moth, Tan, Freckle and Pimple Eradicator." (For a Skin Preparation.)	L. M. Brock & Co.	9,048	Apr. 1.
"Southern Belle." (For Flour)	Akin-Erskine Milling Co.	9,628	Dec. 23.
"Special Bottling Pure Rye Whiskey." (For Whisky)	Roxbury Liquor Dealers' Association.	9,209	June 10.
"Special Reserve." (For Whisky)	Chioti, Vincenti & Co.	9,147	May 20.
"Speedy Cure." (For Medicine)	Speedy Cure Remedy Company	9,154	May 20.
"Split Rock." (For Mineral-Spring Water)	Roeckkamp Bros.	8,958	Feb. 11.
"Sport-man's Club." (For Whisky)	H. E. Ehrman	9,240	June 17.
"Sprayne." (For Medicine)	F. W. Robinson	9,328	July 29.
"Spring Bank High Ball Splits." (For High-Ball Splits)	Whallen Bros.	9,284	July 8.
"Spring Bank Lithia Cherry Phosphate." (For Cherry Phosphate.)	Whallen Bros.	9,459	Sept. 30.
"Spring Bank Lithia High Ball Splits." (For High-Ball Splits)	Whallen Bros.	9,283	July 8.
"St. Anthony's Oil." (For Medicinal Oil)	Pasadena Medical Company	9,455	Sept. 30.
"Standard." (For Cigars)	E. K. Blewett	9,419	Sept. 2.
"Standard Porcelain Enameled Sanitary Ware." (For Sanitary Ware.)	Standard Sanitary Mfg. Co.	9,231	June 17.
"Standard Porcelain Enameled Sanitary Ware." (For Sanitary Ware.)	Standard Sanitary Mfg. Co.	9,232	June 17.
"Standard Sanitary Manufacturing Co., Pittsburgh, Pa., U. S. A." (For Sanitary Ware.)	Standard Sanitary Mfg. Co.	9,247	June 24.
"Star Bunch." (For Cigars)	American Lithographic Company	9,537	Nov. 11.
"Star Dustless Crayon." (For Crayons)	American School Furniture Company.	9,230	June 17.
"Star Five-Cent Concentrated Horse Food." (For Horse Food.)	Rudolph & Huber	9,475	Oct. 7.
"Star of Egypt." (For Cigarettes)	Miebis Tobacco Co.	9,299	July 15.
"Static." (For Packages Containing Carbonated Beverages.)	Static Carbonating Company	9,403	Aug. 26.
"Steeplechase." (For Whisky)	M. Weisberg	8,960	Feb. 11.
"Stewart's Odorless and Tasteless Castor Oil." (For Castor Oil.)	Stewart Manufacturing Co.	9,221	June 10.
"Stewart's Odorless and Tasteless Castor Oil." (For Castor Oil.)	Stewart Manufacturing Co.	9,298	July 8.
"Stewart's Sure Cure for Horses and Cattle." (For Horse and Cattle Remedies.)	J. Strohauer	9,571	Nov. 25.
"Stickney's Perfection." (For Cigars)	William A. Stickney Cigar Co.	9,242	June 17.
"Story's Foot Relief." (For Foot-Powder)	Fabrikoid Company	9,330	July 29.
"Strenuous Stout." (For Stout)	S. S. Pierce Co.	9,597	Dec. 9.
"Sugar Exchange Standard." (For Molasses)	Hearn & Jones	9,498	Oct. 14.
"Sugar Exchange Standard." (For Syrup)	Hearn & Jones	9,499	Oct. 14.
"Sunchita." (For Cigars)	Schmidt & Co.	9,421	Sept. 2.
"Sunlight Soap." (For Soap)	Lever Brothers.	8,994	Feb. 25.
"Superba." (For Blueberries)	Milliken, Tomlinson Co.	8,894	Jan. 14.
"Superior Dental Finishing Strips." (For Dental Finishing Strips.)	Drs. F. Messerschmitt & C. C. Bachman.	9,364	Aug. 12.
"Sure-Pop Baking Powder." (For Baking-Powder)	E. C. Newton	9,406	Aug. 26.
"Sutton's Roup and Gape Cure." (For Foultry-Powder)	E. D. Sutton	9,658	Dec. 30.

## Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette.	
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"Svenskt Mort Branvin." (For Medicine)	B. Lindqvist & Co.	9,245	June 24	99	2963
"Swords Great Tonic and System Renovator." (For a Medicine.)	Sword Medicine Co.	9,084	Apr. 15	99	663
"Syrup of runes Family Laxative." (For a Laxative Medicine.)	C. F. Hamlin	9,546	Nov. 11	101	1367
"System Leno." (For Garments)	Gimbel Brothers	8,980	Feb. 25	98	1703
"Tabasco Pepper." (For Extract of Tabasco Pepper)	C. Schertz	8,888	Jan. 7	98	223
"Tactia." (For Cigars)	Sanchez & Haya Co.	9,208	June 10	99	2545
"Tar Heel Tonic and Blood Purifier." (For Medicine)	C. D. Higgins	8,966	Feb. 11	98	1279
"Tarquinus." (For Cigars)	C. Stutz, a Firm	9,347	Aug. 5	100	1327
"Tenderfoot." (For Foot-Powder)	New England Chemical Co.	9,158	May 20	99	1663
"Terra Glycerine." (For Poultices)	F. Dohmen Company	9,156	May 20	99	1663
"Tetlows Violet Boquet Talcum Powder." (For Talcum Powder.)	Tetlow Mfg. Co.	9,273	July 8	100	447
"The American Corset Waists." (For Corset-Waists)	H. Greenberg, I. Berger, and L. Waldmann.	9,008	Mar. 11	98	2169
"The American Puzzle Game of Advertisments and Trade Marks." (For a Game.)	H. E. Ijams.	9,200	June 10	99	2545
"The Appetine Stomach Tablet." (For Stomach-Tablets)	J. W. Stahlberg	8,983	Feb. 25	98	1703
"The Black Salve." (For Salve)	E. B. Chapman	9,652	Dec. 30	101	3103
"The Cardinal Kidney Cure and Tonic." (For a Medicine)	C. W. Johnson	9,013	Mar. 11	98	2169
"The Crystal Rock Mineral Spring Water." (For Mineral Spring Water.)	A. Meyer	9,631	Dec. 23	101	2819
"The Dixie Candy Bin." (For Candy)	G. Blome & Son Co.	9,298	July 15	100	679
"The Eagle Plaster." (For Plasters)	Alcock Manufacturing Co.	9,317	July 22	100	929
"The Electric Dyspeptic Pad." (For Therapeutic Apparatus.)	Electric Dyspeptic Pad Co	9,395	Aug. 19	100	1761
"The Elk Cigar." (For Cigars)	W. H. Klenke	8,903	July 15	100	679
"The Etenheim Sauce." (For a Sauce)	L. D. Smith	8,925	Jan. 28	98	789
"The Famous Pile Cure." (For a Pile Cure)	B. & W. Co.	9,092	Apr. 22	99	859
"The Famous Ripper." (For Cigars)	J. H. Bloch	9,345	Aug. 5	100	1327
"The Fast Cigar." (For Cigars)	Schmidt & Co.	9,265	July 1	100	229
"The Great Four Cable Whalebone." (For Whips)	H. M. Van Deusen	9,201	June 10	99	2545
"The Grevelock Shoe." (For Shoes)	H. P. Murdock	9,633	Dec. 30	101	3103
"The Lay Williams Rheumatic Plaster." (For Plasters)	J. Williams	9,043	Mar. 11	98	2538
"The Lincoln." (For Whips)	H. M. Van Deusen	9,203	June 10	99	2545
"The Lindsey." (For Cacklers)	N. B. Lindsey	8,358	Aug. 5	100	1327
"The Little Giant." (For Fire-Extinguishers)	Little Giant Fire-Extinguisher Co.	9,248	June 24	99	2963
"The Memphis." (For Carbonated Water)	Bluff City Bottling Co.	9,238	June 17	99	2767
"The New 20th Century Remedy, Thymoil." (For a Medicine.)	W. R. Collins	9,423	Sept. 2	100	2173
"The Pepper Co. Pure Confectionery, Peabody, Mass." (For Confectionery.)	Pepper Company	9,463	Sept. 30	100	3009
"The Prophet." (For Cigars)	E. J. Cook	8,929	Jan. 28	98	789
"The Queen's Cream of Roses." (For a Toilet Preparation)	W. E. Terrill	9,273	July 1	100	229
"The Roumanian Facial Guards and Roumanian Witch Hazel Tissue Mask." (For Toilet Articles.)	L. D. Smith	9,618	Dec. 16	101	2565
"The S. & G. Hair Grower." (For Hair-Tonic)	S. Garske	9,125	May 6	99	1381
"The Two-Bite." (For Chewing-Gum)	C. H. Woodman	9,016	Mar. 11	98	2169
"The Unique Rheumatic Foot Plaster." (For Plasters)	J. Williams	9,142	May 13	99	1619
"The Win." (For Cigars)	J. Weiss, Jr.	9,433	Sept. 9	100	2381
"Tiger Rolled White Oats." (For Rolled Oats)	Morris Oatmeal Co.	8,898	Jan. 14	98	413
"Ti-Ki Rawhide." (For Whips)	H. M. Van Deusen	9,202	June 10	99	2545
"Tip Top Bug Killer." (For Insecticide)	Fleischmann Bros	9,225	June 10	99	2545
"Tissera's Tea-Bu-Ets." (For Compressed Teas)	V. L. Tissera	8,957	Feb. 11	98	1279
"Toasted Manna." (For a Food Product)	Leibert Good Food & Machinery Co.	8,907	Jan. 21	98	579
"Tophene." (For Rheumatic Remedy)	Blauw & Brickner Drug Co.	9,581	Dec. 2	101	2073
"Touradif Canadian Boot Grease." (For Boot-Grease)	D. T. Abercrombie	9,150	May 20	99	1663
"Tropical Cigar." (For Cigars)	Schmidt & Co.	9,241	June 17	99	2767
"True Stock." (For Cigars)	Schmidt & Co.	8,933	Jan. 28	98	789
"Trunk Matches." (For Matches)	L. Hilfer	9,010	Mar. 11	98	2169
"Tufted Beer." (For Neckwear)	A. J. Bendix and A. L. Eisenstaedt	9,277	July 8	100	447
"Turkish Nerve Builder." (For a Medicine)	E. A. Showalter	9,290	July 8	100	447
"U. S. Baby." (For Cigars)	Schmidt & Co.	9,373	Aug. 12	100	1561
"Udorf." (For a Medicine)	Prussian Chemical Co.	9,602	Dec. 9	101	3283
"Uncle John." (For Cigars)	D. Spangler	9,020	Mar. 11	98	2169
"Uncle Sam Did It! Can You?" (For a Puzzle)	L. F. Jordan	9,474	Oct. 7	101	2315
"Unfermented Grape Juice." (For Grape-Juice)	B. Pierce	9,136	May 13	99	1619
"United Powder and High Explosive Workers of America." (For Explosives.)	W. Feenie	9,409	Aug. 26	100	1973
"Universal Waterproof Cement." (For Cement)	Ohio Rubber Co.	9,623	Dec. 23	101	2819
"Upper Ten Cocktails." (For Cocktails)	W. R. Lundy & Co.	9,461	Sept. 30	100	3009
"Ursus Shoe." (For Shoes)	Cole & Wiggins	8,940	Feb. 4	98	1029
"Van Winkle's Medicated Soap." (For Medicated Soap)	E. Van Winkle & Co.	9,433	Sept. 9	100	2381
"Van Viable Catarrh Cure." (For a Medicine)	9,627	Dec. 23	101	2819	
"Velvet Beer." (For Bottled Beer)	Terre Haute Brewing Co.	9,438	Oct. 14	101	445
"Vermilion Club." (For Whisky)	B. J. Epstein	9,093	Apr. 22	99	859
"Verus." (For Hair Tonic)	Rose Company	9,484	Oct. 14	101	445
"Victor Record." (For Sound-Records)	Victor Talking Machine Co.	9,325	July 29	100	1109
"Victor Silk." (For Silk)	H. A. Meldrum Company	9,320	Jan. 28	98	789
"Vigorine." (For Pills)	G. Tasse	8,943	Feb. 4	98	1029
"Vitalite." (For a Hair-Restorative)	E. E. Platt	9,563	Feb. 11	98	1279
"Vitalite." (For Hair-Tonic)	H. S. Ford	9,066	Oct. 21	101	659
"W. C. Hughes Electric Fluid." (For a Medicine)	W. C. Hughes	9,043	Mar. 25	98	2583
"Weber's Varnish." (For Varnish)	Weber Varnish Company	9,017	Mar. 11	98	2169
"Wedding Bells." (For Syrup)	S. H. Williams	9,161	June 3	99	2317
"West Baden Sprudel Mineral Water." (For Mineral Water.)	West Baden Springs Water Co	9,109	Apr. 29	99	1167
"Western Jewel." (For Cigars)	Schmidt & Co.	9,368	Aug. 12	100	1561
"Western Monarch." (For Cigars)	Schmidt & Co.	9,372	Aug. 12	100	1561
"Whegn." (For Food Made from Wheat)	Whegn Food Company	8,987	Feb. 25	98	1703
"Whiskey Without a Headache." (For Whisky)	Greenwald & Co.	9,260	July 1	100	229
"Whist Club." (For Chocolates)	F. H. Dow & Company	9,210	June 10	99	2545
"White Cross." (For Vaccination-Shields)	H. Heineman	8,936	Jan. 28	98	789
"White Label English Bacon." (For Bacon)	Armour Packing Company	9,621	Dec. 16	101	2565



## Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Of Ga Vol.
White Label Hunter Whiskey." (For Whisky) .....	John Kissel & Son.....	9,070	Apr. 8	
White Owl Shoe." (For Shoes) .....	L. Wolfson.....	9,516	Nov. 4	
Windsor Soothing Syrup." (For Soothing-Syrup) .....	Dinet & Delfosse .....	9,218	June 10	
Winette." (For a Beverage) .....	G. E. Fuller .....	9,281	July 8	
Winner Whiskey." (For Whisky) .....	W. Mulherin & Sons .....	9,262	July 1	
Wonder Horn." (For Cigars) .....	American Lithographic Company .....	9,609	Dec. 9	
Worcester Quick Freezing Ice Cream Salt." (For Salt) .....	Worcester Salt Co. ....	9,171	May 27	
World's Fair Bread." (For Bread) .....	Heydt Bakery Company .....	8,896	Jan. 14	
World's Fair Wafers." (For a Confection) .....	L. F. Jordan.....	9,530	Nov. 4	
World's Hair Restorer." (For Hair-Restorer) .....	S. F. Lash .....	9,398	Aug. 26	
Ray Stove Polish." (For Stove-Polish) .....	Blazer Manufacturing Company .....	9,480	Oct. 7	
XX Hygienic Soap." (For Soap) .....	Camden & Philadelphia Soap Com- pany.....	9,173	May 27	
XX Pepsin Kola and Celery." (For Liquid Compound) .....	D. S. Gates .....	9,193	June 3	
Ankee Cream Corn." (For Canned Corn) .....	N. C. Cummings & Bro. ....	9,259	July 1	
Ankee Flyer." (For Cigars) .....	Upmann & Wilcox .....	8,923	Jan. 28	
Endik Beans." (For Canned Beans) .....	Gibson Canning Co. ....	9,022	Mar. 18	
u-Zu." (For Cigars) .....	J. R. Isaacson .....	9,586	Dec. 2	

## PRINTS.

Title.	Name.	No.	Date.	Of Ga Vol.
A Combination Game." (For Game Apparatus) .....	McLoughlin Brothers .....	536	July 2	
A Cool Bearing." (For Frictionless Bearing Metal) .....	Frictionless Metal Co .....	551	Aug. 1	
A Happy Home." (For Soap) .....	Geo. A. Schmidt Co .....	576	Nov. 18	
A Peace Offering." (For Silver-Plated Ware) .....	J. W. Cary .....	591	Oct. 14	
A Thanksgiving Dinner." (For Stock-Food) .....	Courier Company .....	591	Dec. 16	
A Winning Pair." (For Wine) .....	White Top Champagne Co. ....	470	Feb. 25	
Abbott's The Original Angostura Bitters." (For Angos- tura Bitters.) .....	C. W. Abbott & Co. ....	566	Oct. 21	
Alexander." (For a Medicine) .....	W. W. Alexander & Co. ....	498	Apr. 29	
American Garment Cleaning Company." (For Cleaned Garments.) .....	A. Durand.....	450	Jan. 1	
Anticipation Back No. 606 Congress Playing Cards." (For Playing-Cards.) .....	United States Playing Card Com- pany.....	581	Dec. 1	
Armour's Star." (For Cured Meats) .....	Armour & Co. ....	465	Feb. 11	
At the Top—Mathushek Pianos." (For Pianos) .....	Mathushek Piano Mfg. Co. ....	553	Sept. 2	
Atwood Suspender." (For Suspenders) .....	Atwood Suspender Co. ....	507	May 27	
Automobile Bicycle Playing Cards." (For Playing-Cards) .....	United States Playing Card Com- pany.....	575	Nov. 18	
Balanced Rations for Feeding Beet Pulp." (For Feeds and Feeding Stuffs.) .....	National Starch Company .....	467	Feb. 11	
Baltz Bock." (For Bock-Beer) .....	J. & P. Baltz Brewing Co .....	487	Apr. 8	
Best on Earth." (For Frictionless Metal) .....	Frictionless Metal Co .....	552	Aug. 19	
Boiled Ham." (For Boiled Ham) .....	Armour Packing Company .....	535	July 15	
Brings the Roses to Your Cheeks." (For Malt Extract) .....	Pabst Brewing Company .....	530	Dec. 16	
California Peppers." (For Food Products) .....	Libby, McNeill & Libby .....	583	Dec. 2	
Ceeli." (For Whisky) .....	Wneke-Bauerschmidt Co .....	598	Dec. 23	
Celebrated Game Boards." (For Game-Boards and Game- Board Equipments.) .....	Carrom Archarena Company .....	587	Dec. 16	
Chocolat des Marqueses." (For Chocolate) .....	Runkel Bros. ....	499	May 6	
Clark's Instant Foot Comfort." (For Foot Remedy) .....	Globe Chemical Works .....	558	Sept. 30	
Climax." (For Nose-Guards) .....	D. W. Tait .....	508	May 27	
Clothing." (For Clothing) .....	W. C. Both .....	468	Feb. 11	
Clothing." (For Clothing) .....	W. C. Both .....	473	Mar. 11	
Clothing." (For Clothing) .....	W. C. Both .....	479	Apr. 1	
Comet Brand." (For Syrup) .....	American Lithographic Company .....	570	Nov. 4	
Darmstadt German Food." (For Foods) .....	Darmstadt German Food Company .....	510	May 2	
Dewar's Scotch Whisky." (For Whisky) .....	John Dewar & Sons .....	546	Aug. 1	
Domino Dot." (For a Game) .....	G. H. Bailey .....	525	June 2	
Dorothy Quincey." (For a Medicine) .....	Dr. Miles Medical Co .....	497	Apr. 2	
Dougherty's Sterilized Hair Mattresses." (For Mattresses.) .....	Dougherty & Co. ....	457	Mar. 11	
Dr. Dick's Pecan Oil." (For Medicine) .....	Gem Distributing Co. ....	459	Feb. 11	
Dr. Pierce's Favorite Prescription." (For Medicine and Soda.) .....	World's Dispensary Medical Asso- ciation.....	536	July 2	
Drexel Box." (For Overcoats) .....	Kuh, Nathan & Fischer Co. ....	490	Apr. 1	
Eclipse Paste." (For Paste) .....	Binney & Smith .....	500	May 1	
Emerson Spring Lift Chainless Reaper." (For Reapers and Mowers) .....	American Lithographic Company .....	484	Apr. 1	
Erdman's Absorption Food Sachet." (For an Absorption Food-Sachet.) .....	Erdman & Co .....	494	Apr. 1	
Farquhar's Evergreen Lawn Grass Seed." (For Lawn Grass-Seed.) .....	R. & J. Farquhar & Co .....	514	June 1	
Fine and Choice French China Ware." (For Chinaware) .....	G. Vogt .....	476	Mar. 1	
Foot Lift Emerson Gang." (For Plows and Mowers) .....	American Lithographic Company .....	483	Apr. 1	
Game Boards & Game Board Equipment." (For Game Boards and Equipments.) .....	Carrom-Archarena-Co .....	598	Dec. 3	
Gayoso Brand." (For Cotton-Seed Oil and Cotton-Seed Meal.) .....	Gayoso Oil Works .....	456	Jan. 1	
Globe Brand." (For Syrup) .....	American Lithographic Company .....	571	Nov. 1	

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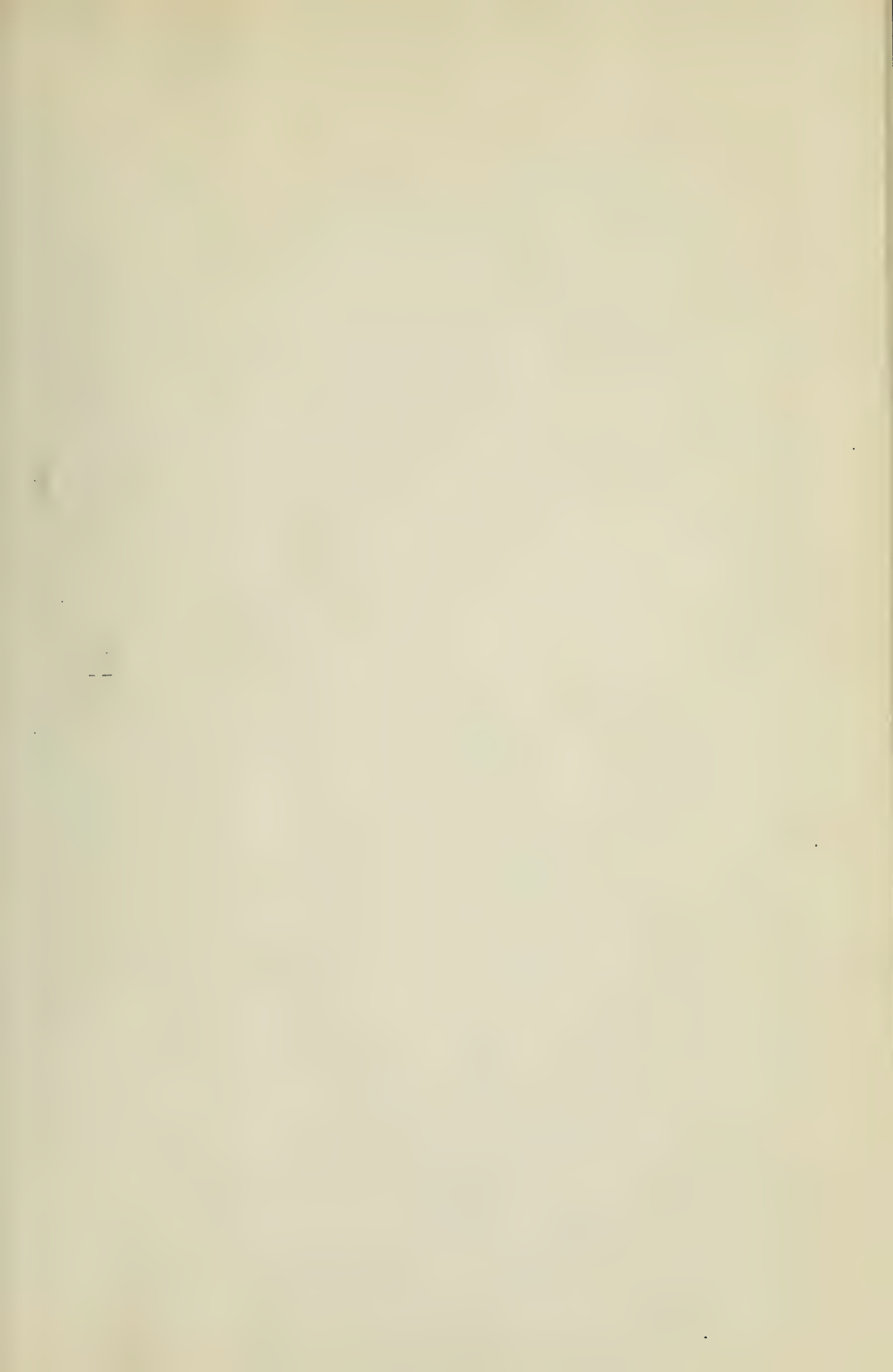
*Alphabetical list of prints—Continued.*

Title.	Name.	No.		
"The Greatest Corn Cure on Earth." (For a Corn Cure) ..	J. J. Lepper .....	600	Dec. 30	101
"The Hanover Shoe." (For Shoes) ..	Sheppard & Meyers Company .....	588	Dec. 16	101 2565
"The Harvard Sack." (For Sack-Coats) ..	Kuh, Nathan & Fischer Co. ....	492	Apr. 15	99 663
"The Hawaiian Souvenir Playing Cards." (For Playing-Cards) ..	United States Playing Card Co .....	455	Jan. 21	98 579
"The Hunt Back No. 606 Congress Playing Cards." (For Playing-Cards) ..	United States Playing Card Co .....	453	Jan. 21	98 579
"The Kenmore Sack." (For Sack-Coats) ..	Kuh, Nathan & Fischer Co. ....	493	Apr. 15	99 663
"The Kind Your Grandfather Used." (For Whisky) ..	Bernheim Bros .....	509	Oct. 28	101 885
"The Mansfield." (For Overcoats) ..	Kuh, Nathan & Fischer Co. ....	491	Apr. 15	99 663
"The Market Girl." (For Condensed Milk) ..	Borden's Condensed Milk Co. ....	504	May 13	99 1619
"The Minnet Back No. 606 Congress Playing Cards." (For Playing-Cards) ..	United States Playing Card Co .....	452	Jan. 21	98 579
"The Mirror High Grade Candies." (For Candy) ..	The Gray Lithograph Co .....	573	Nov. 11	101 1367
"The Modern Laundress." (For Soap) ..	Kaufmann & Strauss Co .....	549	Aug. 12	100 1561
"The Prince Henry." (For Overcoats) ..	Kuh, Nathan & Fischer Company ..	544	Aug. 12	100 1561
"The Special." (For Overcoats) ..	Kuh, Nathan & Fischer Company ..	542	Aug. 12	100 1561
"The Ransom & Randolph Co." (For Artificial Teeth) ..	Ransom and Randolph Co .....	495	Apr. 29	99 1167
"The Tabard Inn Library." (For Books) ..	Booklovers' Library .....	567	Oct. 21	101 659
"The 20th Century Egyptian Diamonds." (For Egyptian Diamonds) ..	J. Saadi .....	586	Dec. 9	101 2283
"The Uncle Sam Shoe." (For Shoes) ..	Uncle Sam Shoemakers .....	530	July 8	100 447
"The Vicerine \$2.50 Shoe." (For Shoes) ..	Shaw-Goding Shoe Co .....	533	July 15	100 679
"The Young Farmers." (For Farm Machinery) ..	Adriance, Platt & Co .....	602	Dec. 30	101 3103
"This is Not Ours." "This is Ours." (For Loose-Leaf Binders) ..	Union File & Binder Company .....	516	June 10	99 2545
"Trowbridge's Chocolate Chips." (For Chocolate Chips) ..	Trowbridge Chocolate Chip Co .....	581	July 8	100 447
"Trustworthy Tailoring." (For Tailor-Made Garments) ..	Heller & Benson .....	472	Mar. 11	98 2169
"20th Century Complexion Beautifier." (For a Toilet Preparation) ..	D. H. Rowe .....	505	May 13	99 1619
"Uncle Sam Suspenders." (For Suspenders) ..	Consolidated Manhattan Suspenders Co .....	561	Oct. 7	101 215
"Vestibule Limited." (For Playing-Cards) ..	New York Consolidated Card Co .....	454	Jan. 21	98 579
"Vienna Sausage." (For Vienna Sausage) ..	Armour Packing Company .....	540	Aug. 5	100 1327
"We Sell Masurite Safe Explosive." (For an Explosive) ..	Masurite Explosive Company .....	439	Aug. 5	100 1327
"Wine that Maketh Glad the Heart of Man." (For Champagne) ..	G. Rutledge .....	350	Aug. 19	100 1761
"Wright's Health Underwear." (For Underwear) ..	Seiter & Kappes .....	557	Sept. 30	100 3009
"Yale Violets for the Breath." (For a Breath-Perfume) ..	Graham Drug Co .....	511	May 27	99 2069
"Zapha." (For Shoe-Polish) ..	K. J. Quinn & Co .....	538	Aug. 5	100 1327

## DISCLAIMERS.

Invention.	Patentee.	No. of patent.	Date of patent.	Disclaimer filed.	Official Gazette.	
					Volume.	Page.
arc-lamp circuits. Regulating device for ..	M. H. Baker .....	384,340	Oct. 8, 1907	Feb. 14, 1902	98	142
artificial musk ..	A. Baur .....	451,847	May 5, 1891	Feb. 27, 1902	98	171
bowling-ball ..	A. B. Pickett .....	673,688	May 7, 1901	Jan. 3, 1902	98	231
levator ..	C. A. Harkness .....	553,157	Jan. 14, 1896	Jan. 2, 1902	98	1
engineer's brake-valve ..	G. Westinghouse, Jr., and F. Moore ..	401,910	Apr. 23, 1889	June 19, 1902	99	2775
harvesters or the like. Seat for ..	H. W. Avery .....	683,573	Oct. 1, 1901	June 30, 1902	100	328
imitation press-copied letters ..	S. Hall .....	423,558	Mar. 18, 1890	Oct. 21, 1902	101	907
pneumatic tire ..	P. W. Tillinghast .....	377,971	May 25, 1893	Jan. 8, 1902	98	231
regulating electric circuits. Method of ..	M. H. Baker .....	684,165	Oct. 8, 1901	Feb. 14, 1902	98	1490
speed-regulator for explosive-engines ..	A. L. Kull .....	690,443	Jan. 7, 1902	Mar. 15, 1902	98	236
in-plate. Manufacturing ..	W. Rogers .....	604,195	May 17, 1898	June 23, 1902	100	

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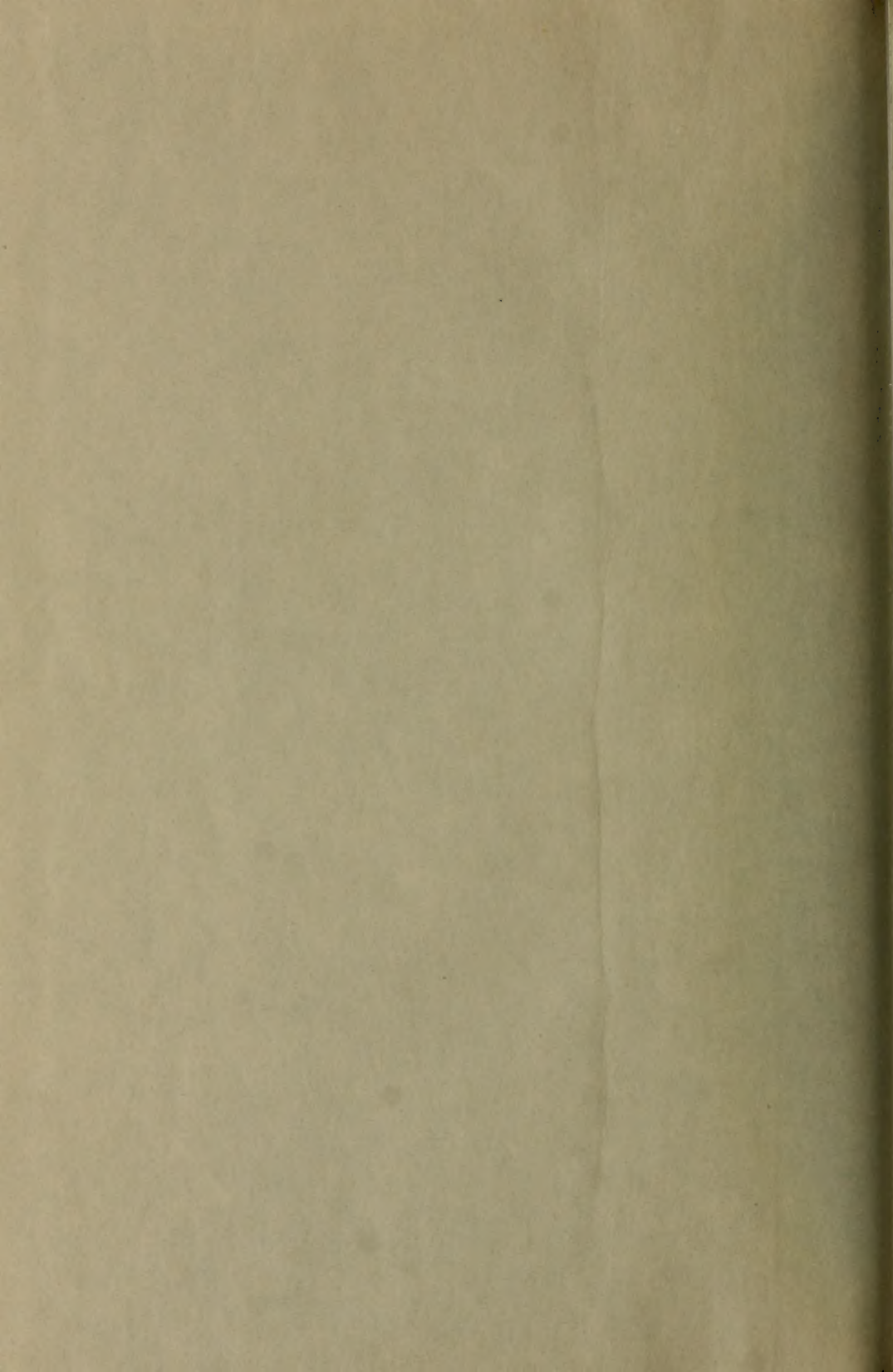








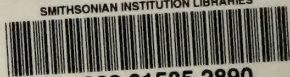








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